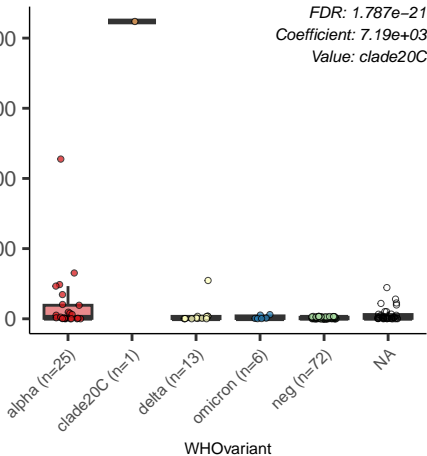
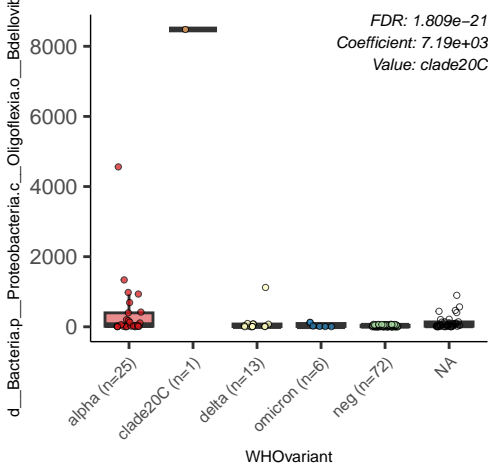
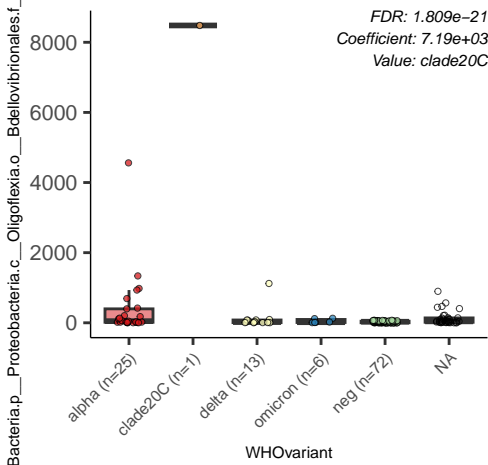


ia.p__Proteobacteria.c__Oligoflexia.o__Bdellovibrionales.f__Bdellov

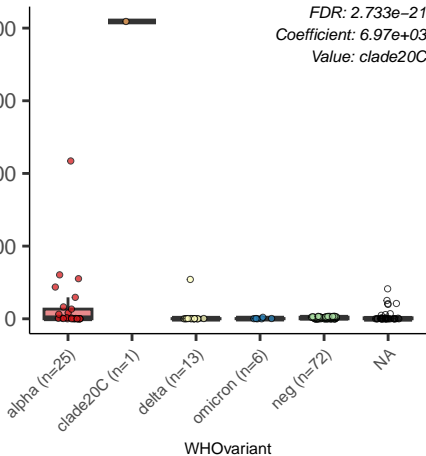




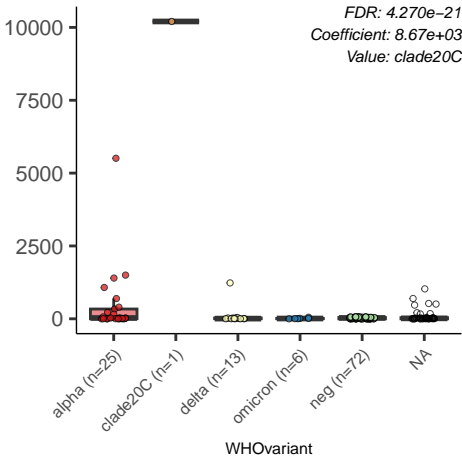


\$spirochaetes.c__Spirochaetia.o__Spirochaetales.f__Borreliaceae.g

FDR: 2.733e-21
Coefficient: 6.97e+03
Value: clade20C

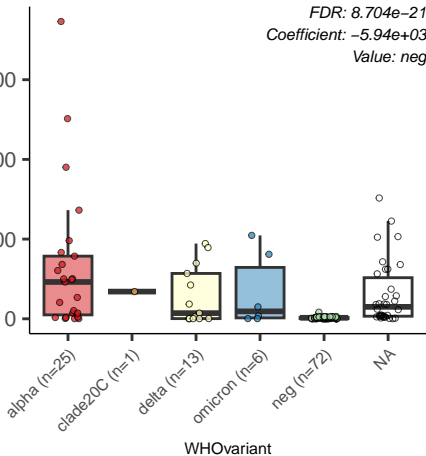


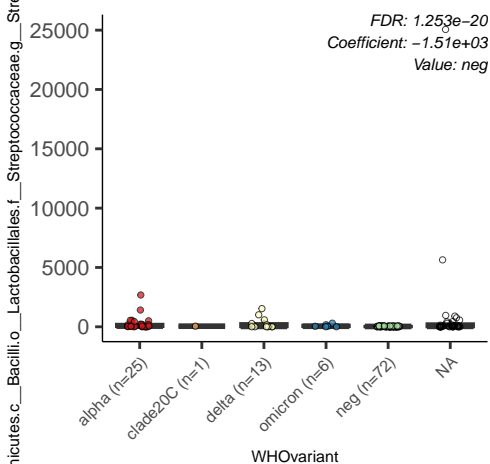
Bacteria.p_Spirochaetes.c_Spirochaetia.o_Spirochaetales.f_Bo



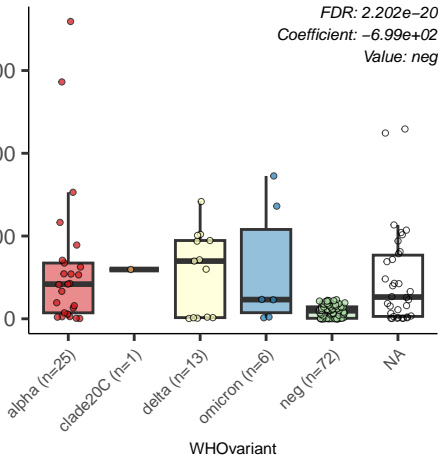
teria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospirac

FDR: $8.704e-21$
Coefficient: $-5.94e+03$
Value: neg



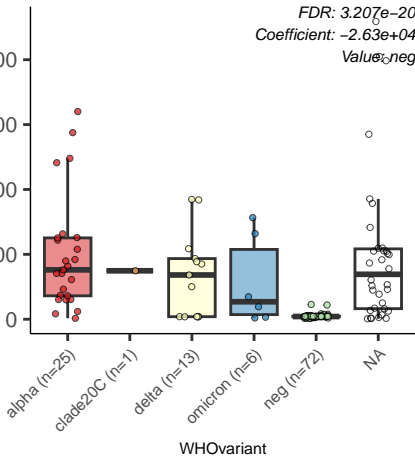


d_Bacteria.p_Firmicutes.c_Clostridia.o_Halanaero

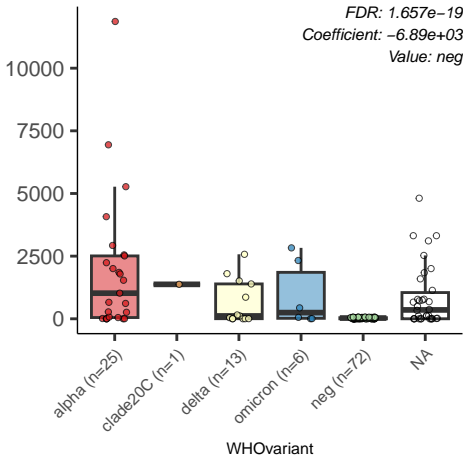


Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridia

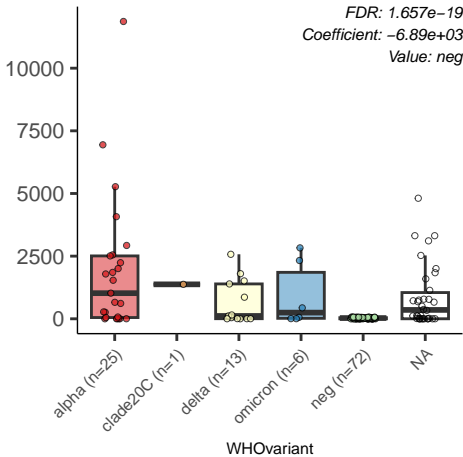
FDR: 3.207×10^{-20}
Coefficient: -2.63×10^4
Value_{neg}

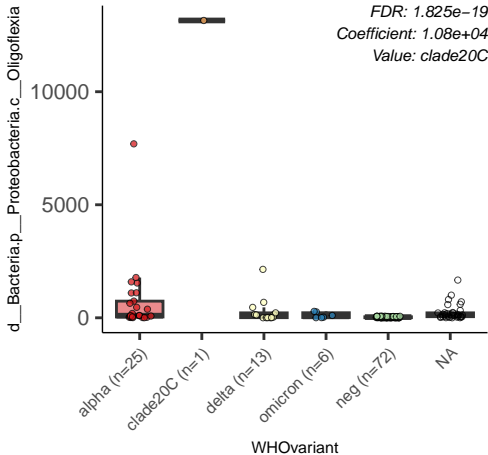


eria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae



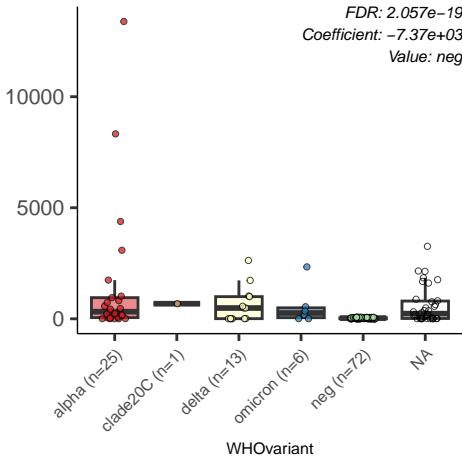
s.c._Clostridia.o_Eubacteriales.f_Lachnospiraceae.g_Pseudobu

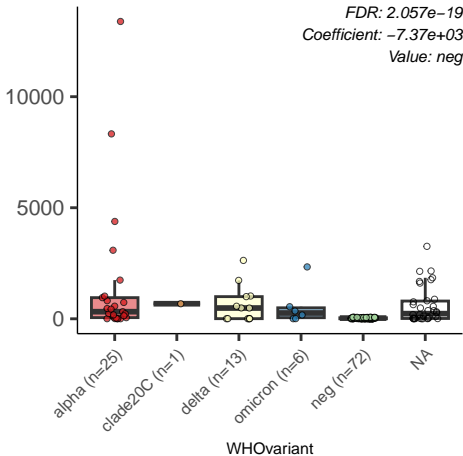


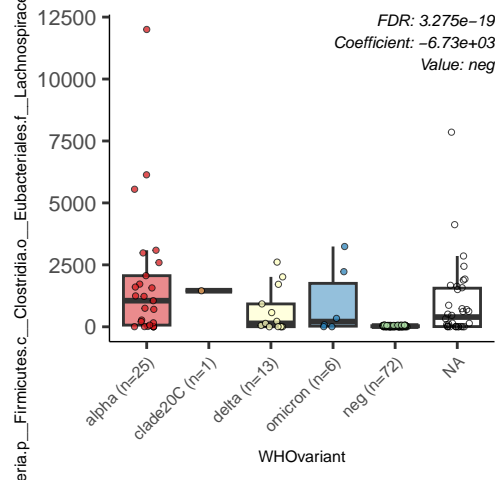


.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Actino

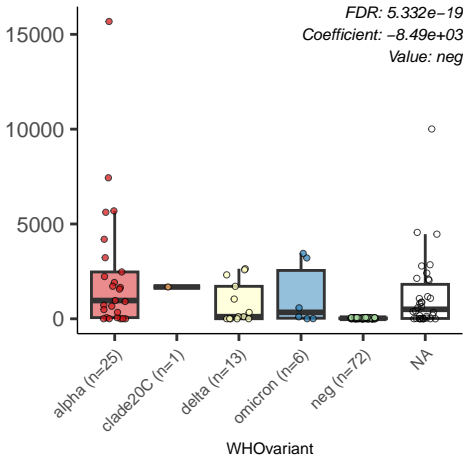
FDR: $2.057e-19$
Coefficient: $-7.37e+03$
Value: neg



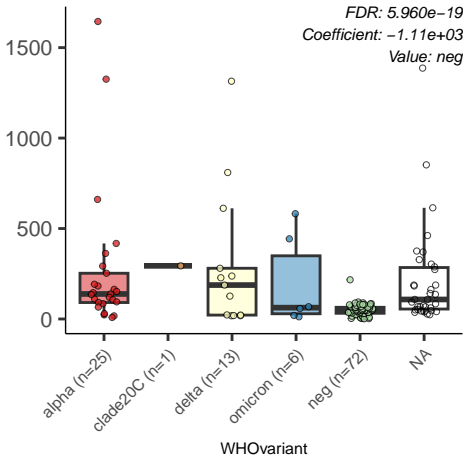




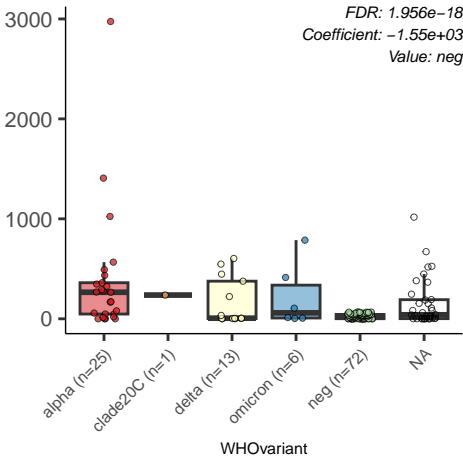
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

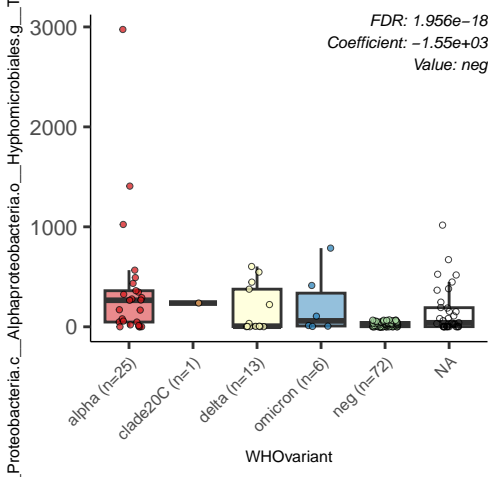


a.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales.f_No

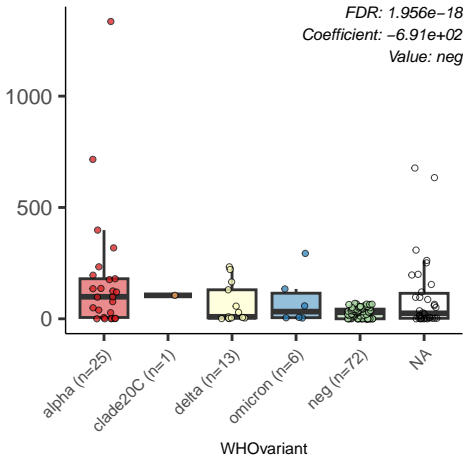


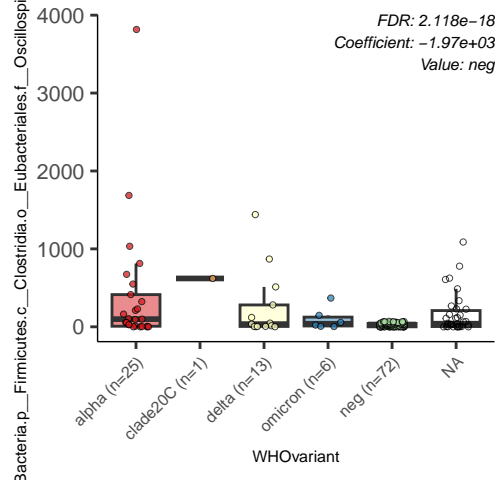
bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrob

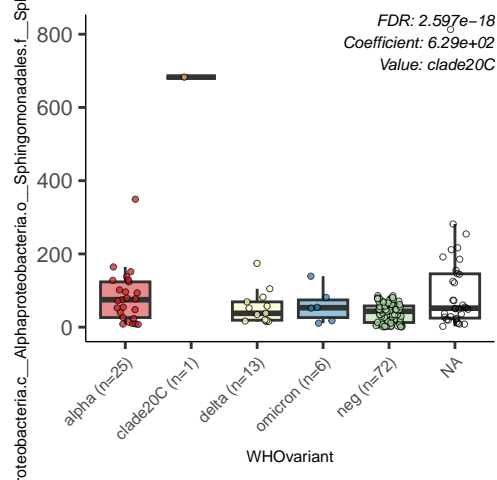




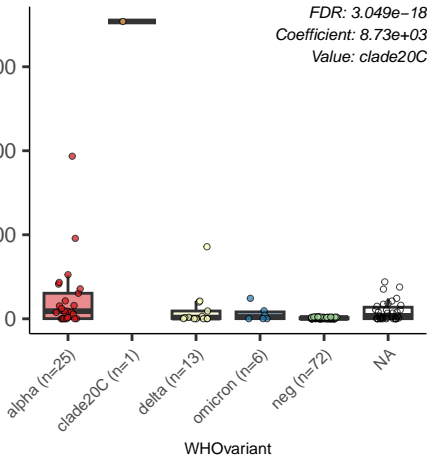
ia.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae





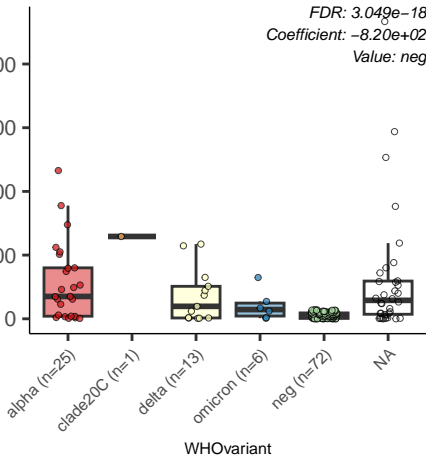


d_Bacteria.p__Spirochaetes.c__Spirochaetia.o__Spirochaetales

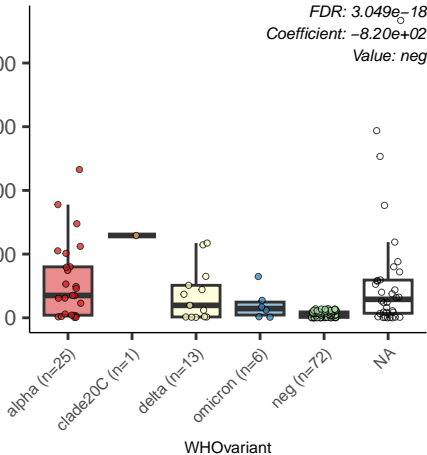


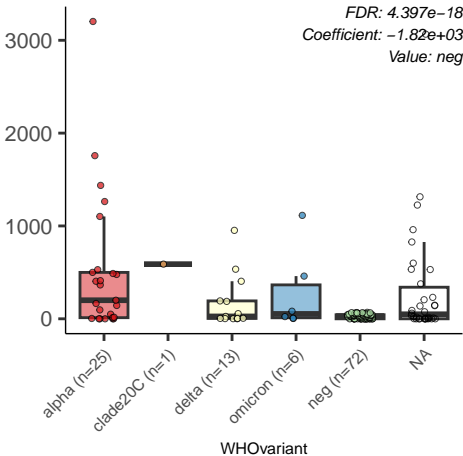
Bacteria.p__Tenericutes.c__Mollicutes.o__Entomoplasmatales.f

FDR: $3.049e-18$
Coefficient: $-8.20e+02$
Value: neg



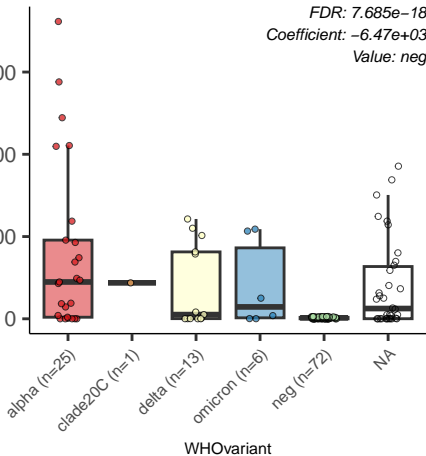
FDR: $3.049e-18$
Coefficient: $-8.20e+02$
Value: neg





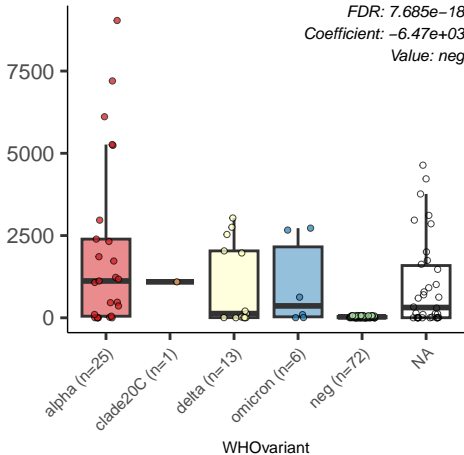
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

FDR: $7.685e-18$
Coefficient: $-6.47e+03$
Value: neg



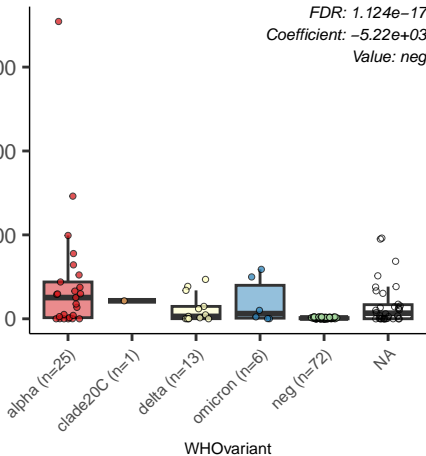
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__

FDR: 7.685e-18
Coefficient: -6.47e+03
Value: neg



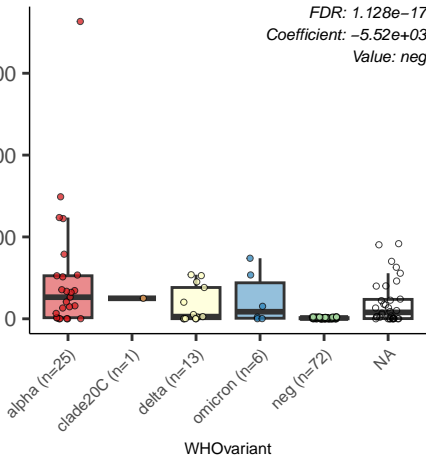
g__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Lachnoclostridium

FDR: $1.124e-17$
Coefficient: $-5.22e+03$
Value: neg

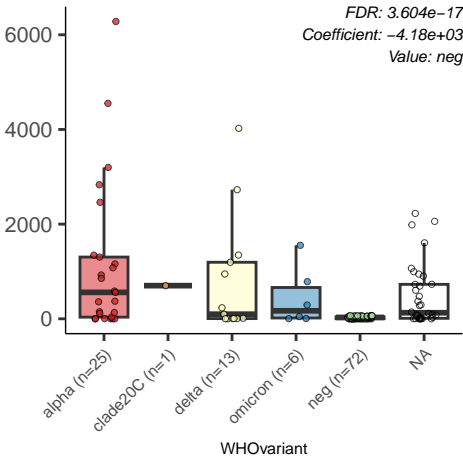


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

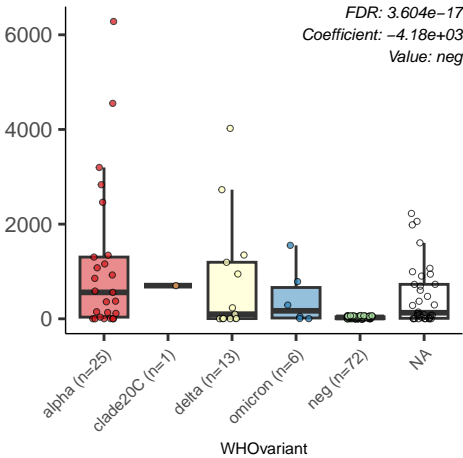
FDR: $1.128e-17$
Coefficient: $-5.52e+03$
Value: neg



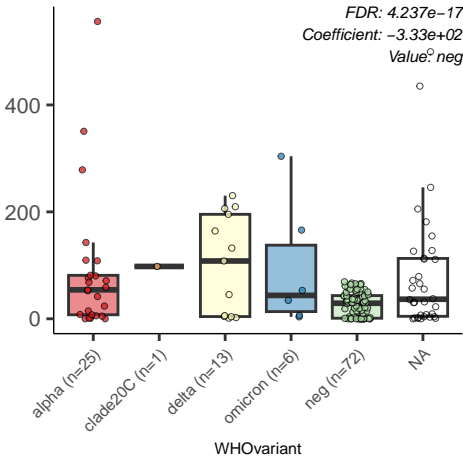
eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospira



icutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Anaer

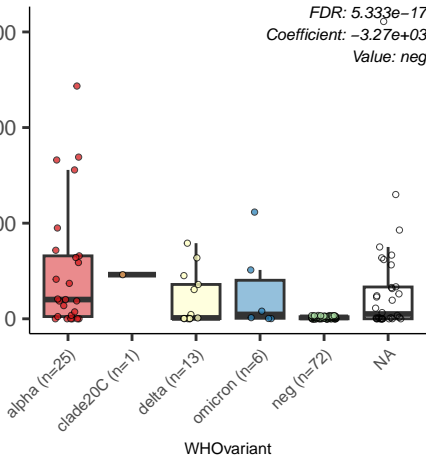


d__Bacteria.p__Firmicutes.c__Clostridia.o__Halanaerobiales.f__H



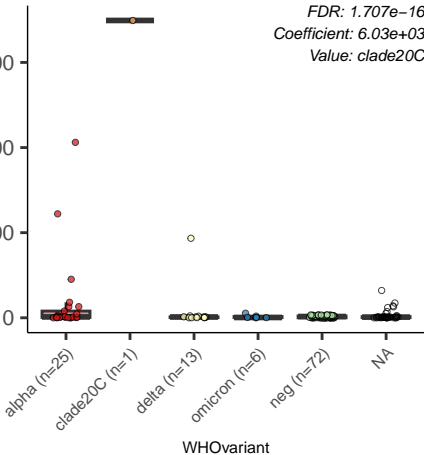
icutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Buty

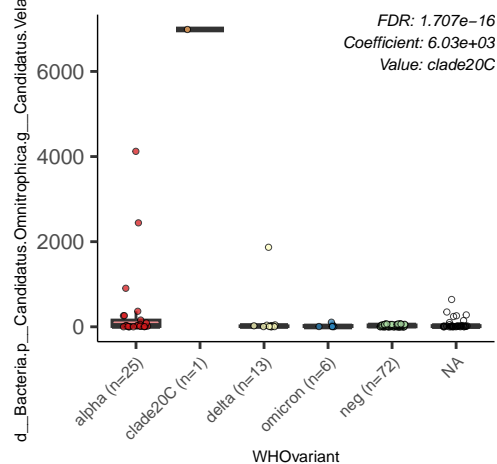
FDR: $5.333\text{e-}17$
Coefficient: $-3.27\text{e}+03$
Value: neg

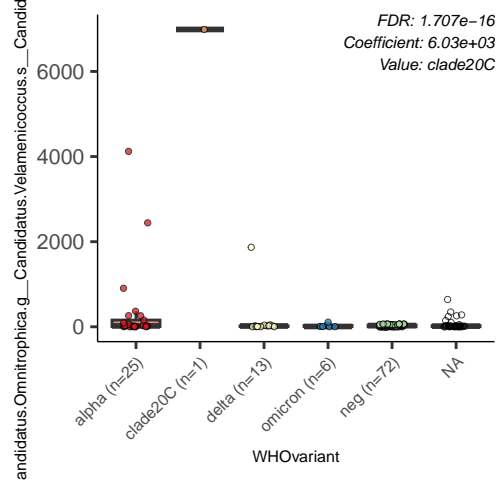


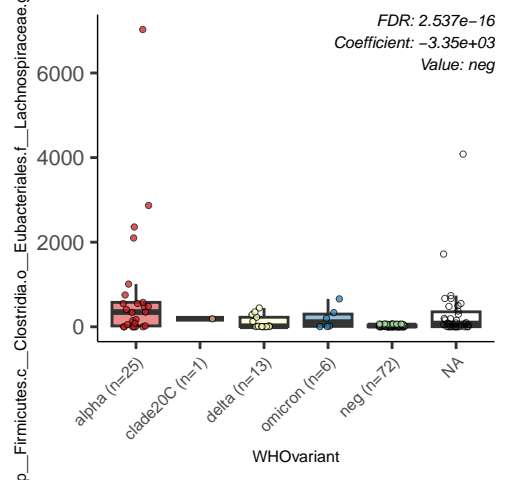
d_Bacteria.p__Candidatus.Omnitrophica

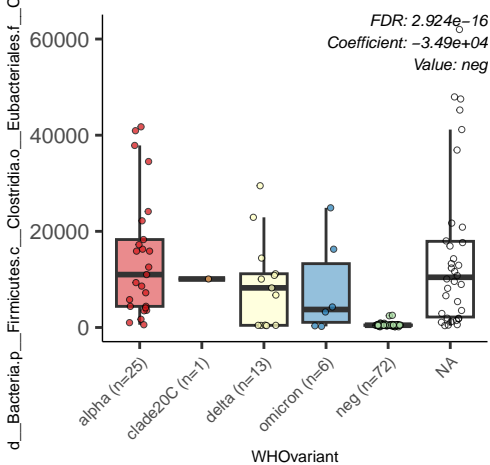
FDR: $1.707e-16$
Coefficient: $6.03e+03$
Value: clade20C





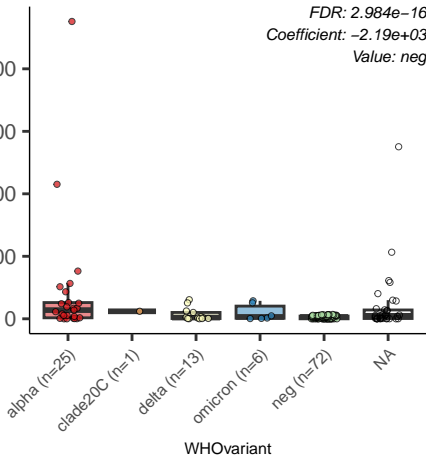




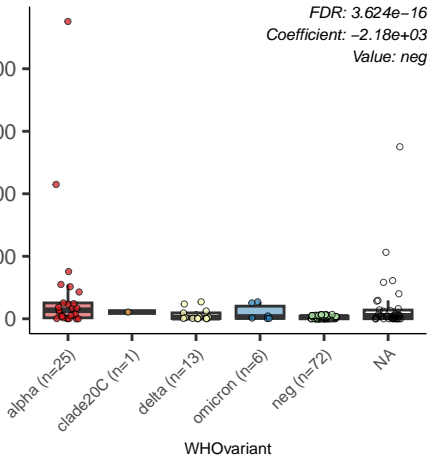


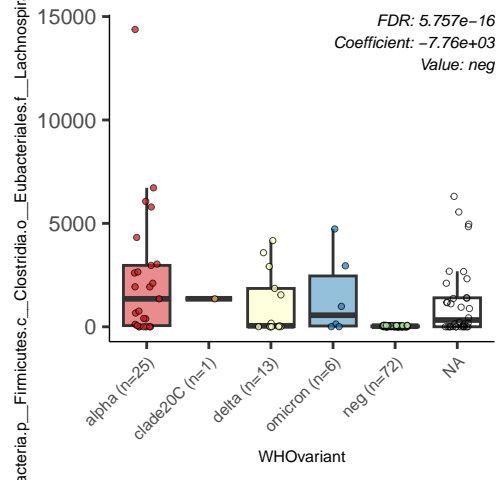
bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospir

FDR: $2.984e-16$
Coefficient: $-2.19e+03$
Value: neg



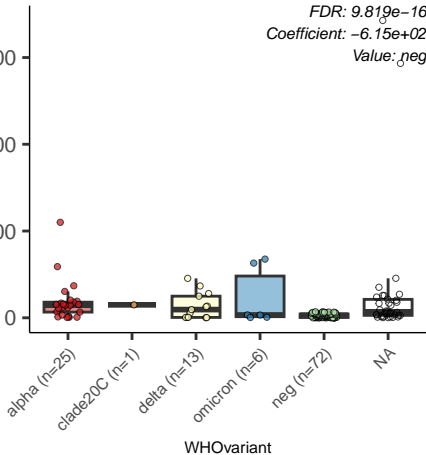
micutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__En



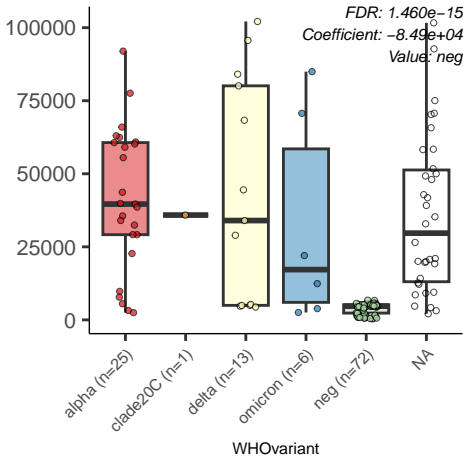


eria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfovibrionaceae

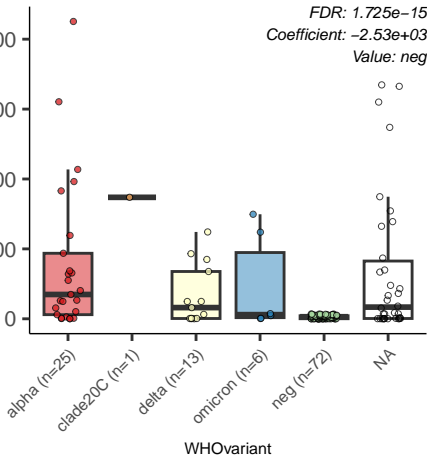
FDR: 9.819e-16
Coefficient: -6.15e+02
Value: neg

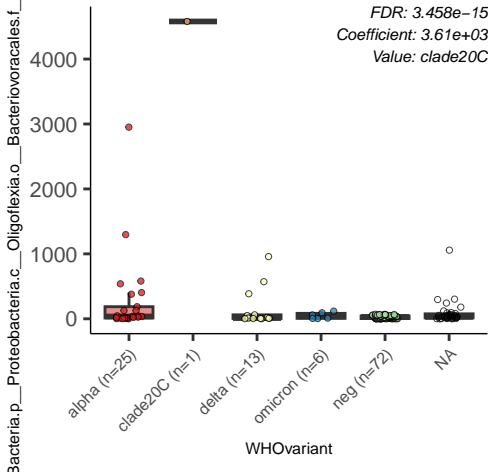


d_Bacteria.p__Proteobacteria.c__Alphaproteobacte



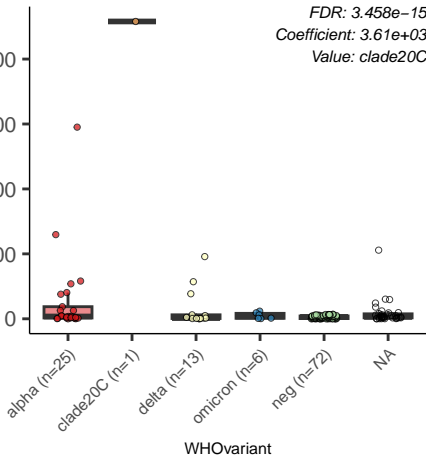
d_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Des

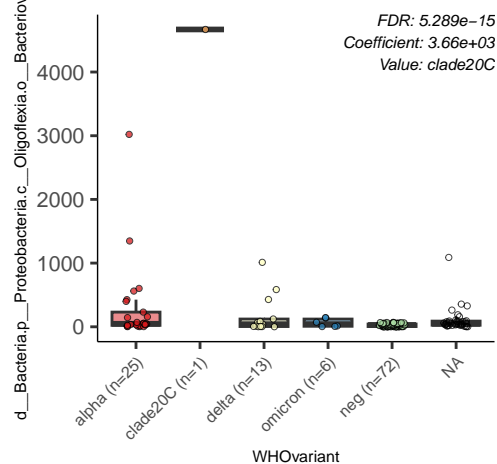


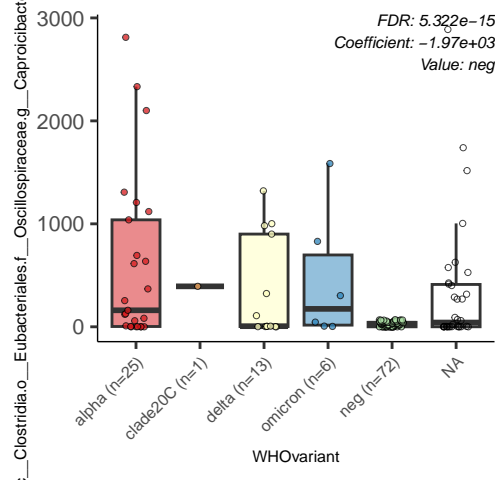


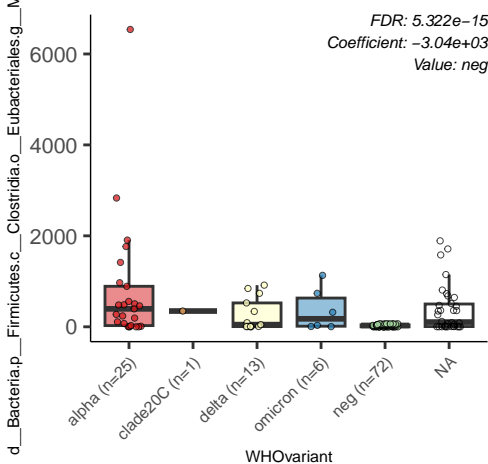
_Proteobacteria.c__Oligoflexia.o__Bacteriovoracales.f__Halobacter

FDR: 3.458e-15
Coefficient: 3.61e+03
Value: clade20C

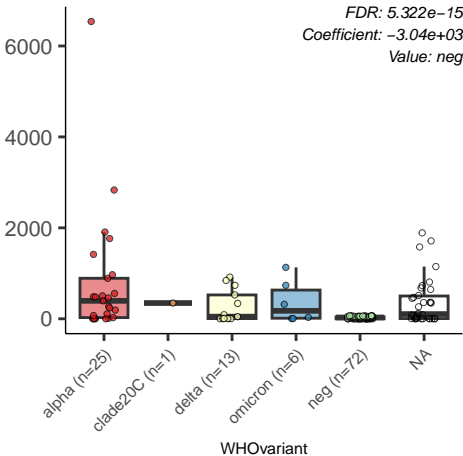


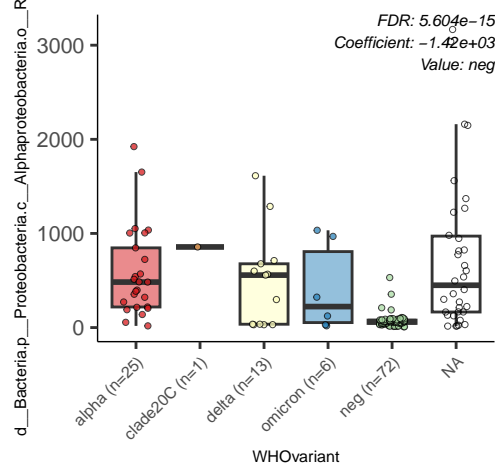


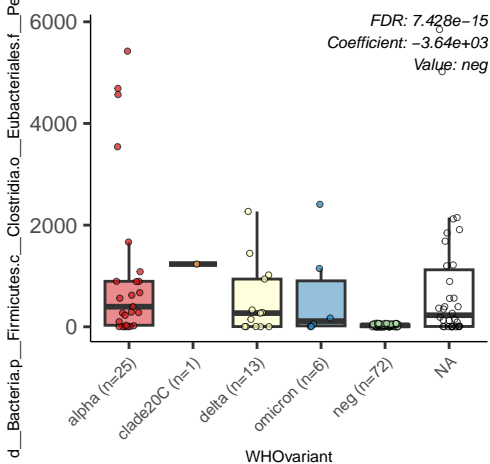




u.p__Firmicutes.c__Clostridia.o__Eubacteriales.g__Massilistercora.s

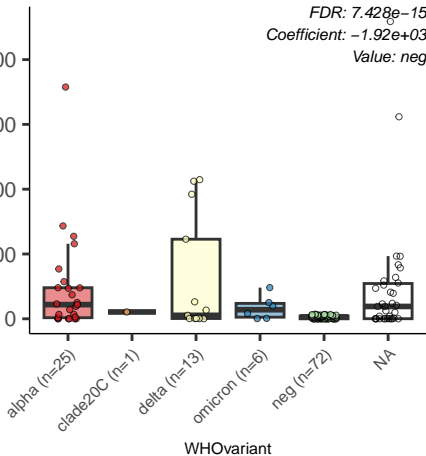


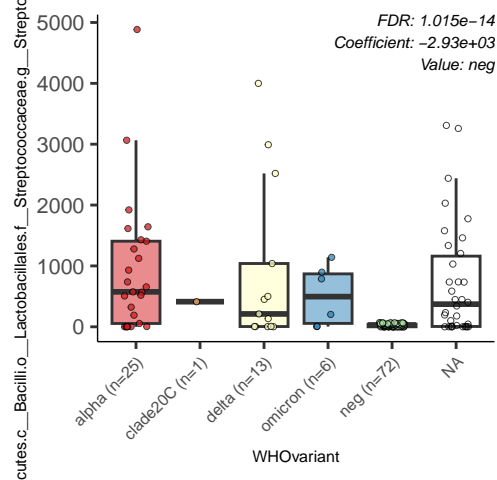




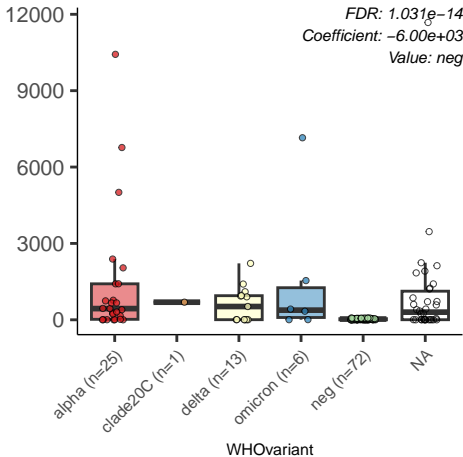
irmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str

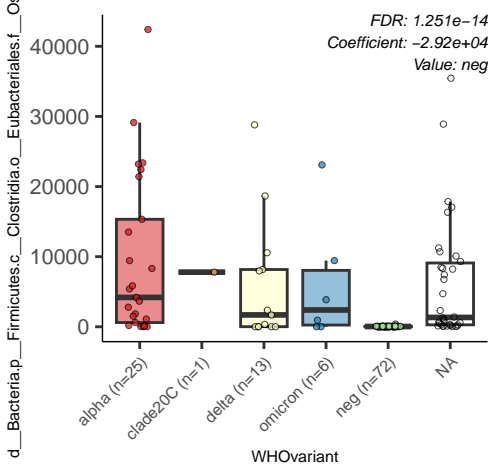
FDR: $7.428e-15$
Coefficient: $-1.92e+03$
Value: neg

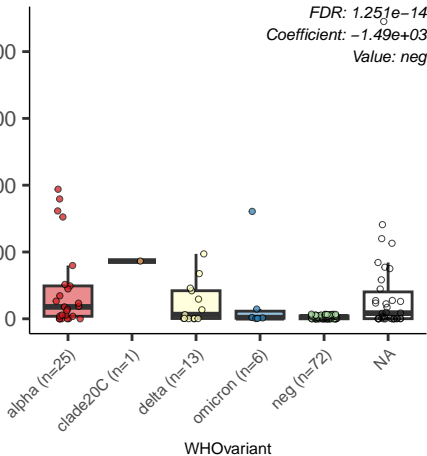


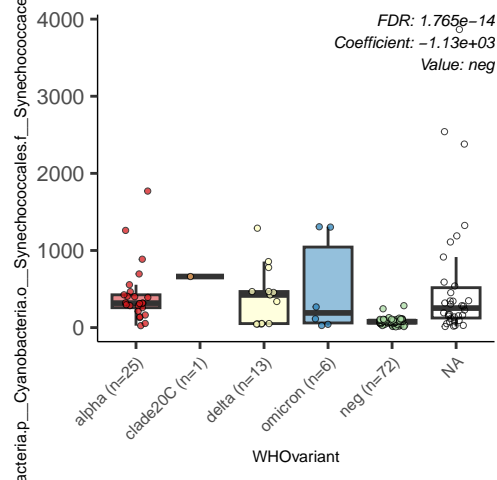


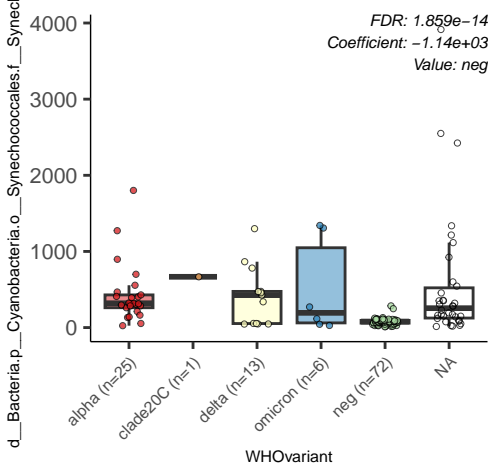
bbacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae



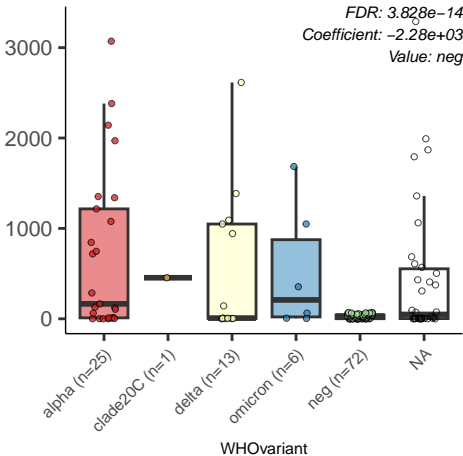






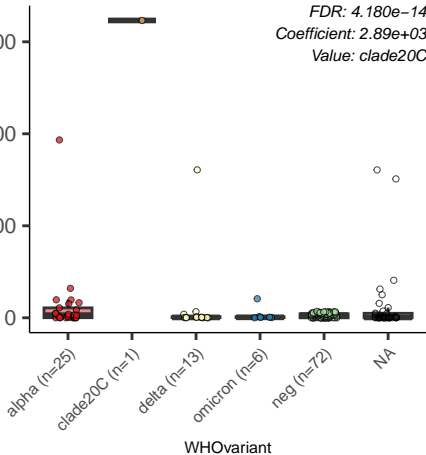


eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospirace

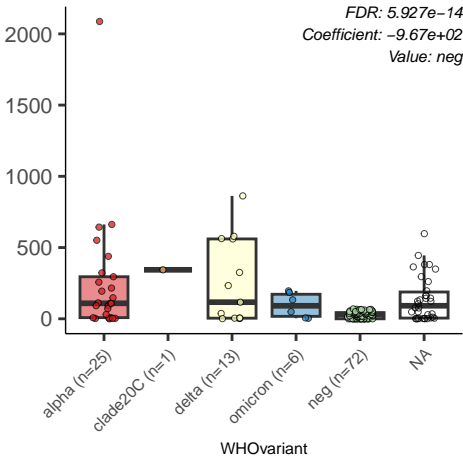


oteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriace

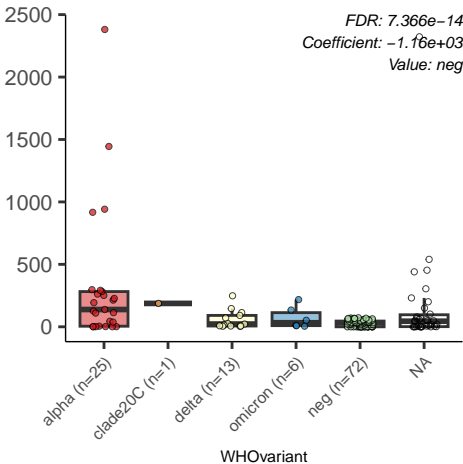
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Coefficient: 2.89e+03
Value: clade20C

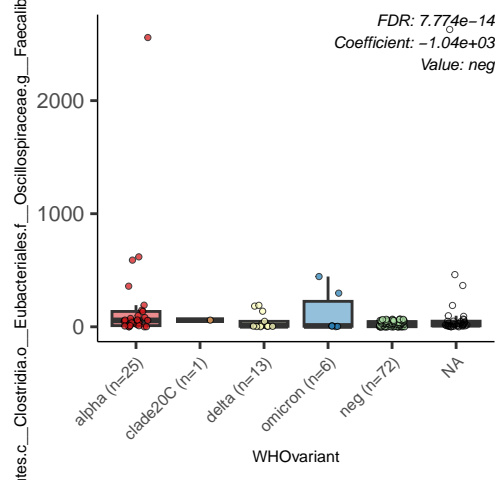


acteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Enterococcace



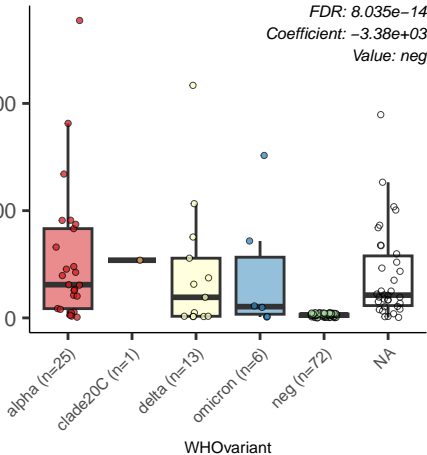
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo





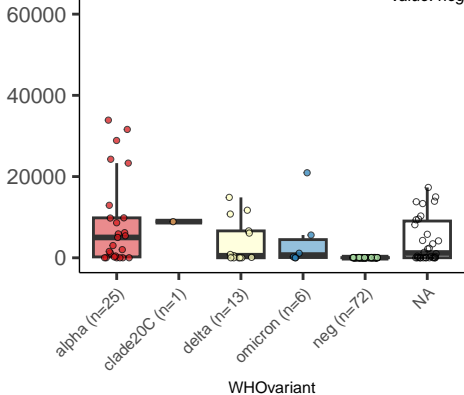
d_Bacteria.p__Acidobacteria

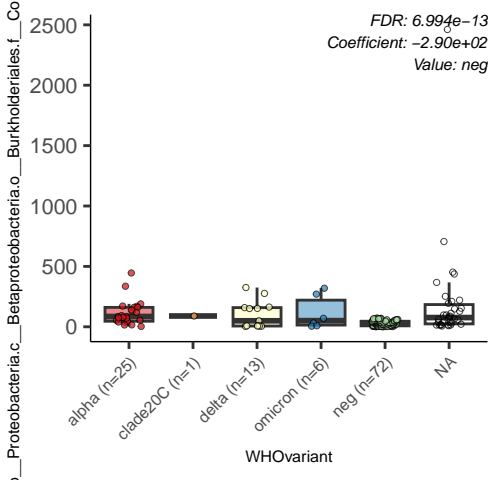
FDR: 8.035e-14
Coefficient: -3.38e+03
Value: neg



bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

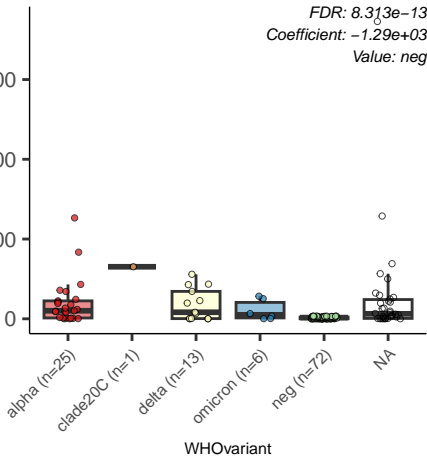
FDR: $1.383e-13$
Coefficient: $-2.48e+04$
Value: neg



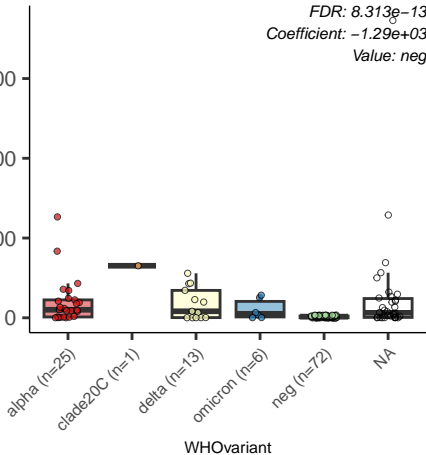


d__Bacteria.p__Tenericutes.c__Mollicutes.o__Acholeplas

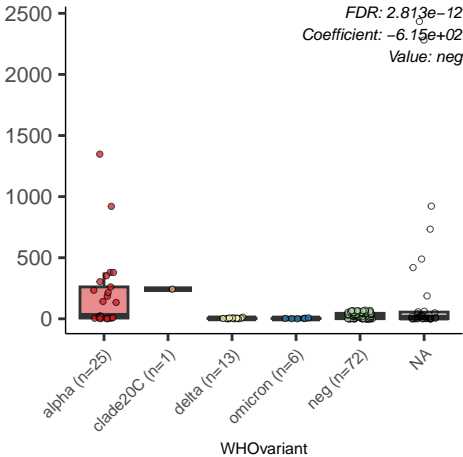
FDR: $8.313e-13$
Coefficient: $-1.29e+03$
Value: neg

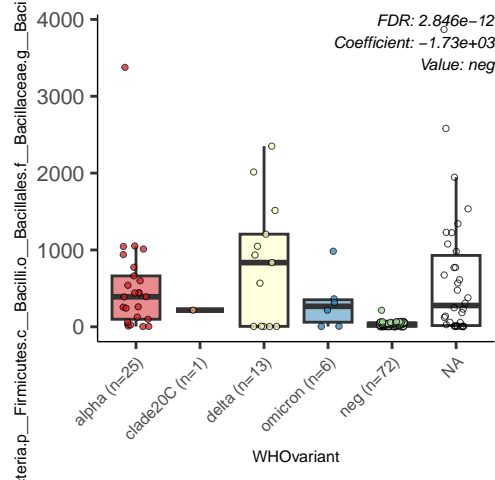


$FDR: 8.313e-13$
 $Coefficient: -1.29e+03$
 $Value: neg$



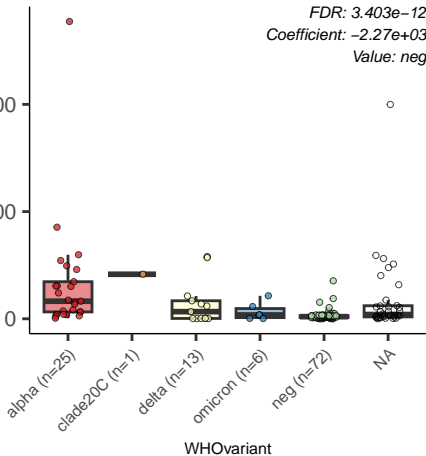
c__Alphaproteobacteria.o__Hyphomicrobiales.f__Nitrobacteraceae.





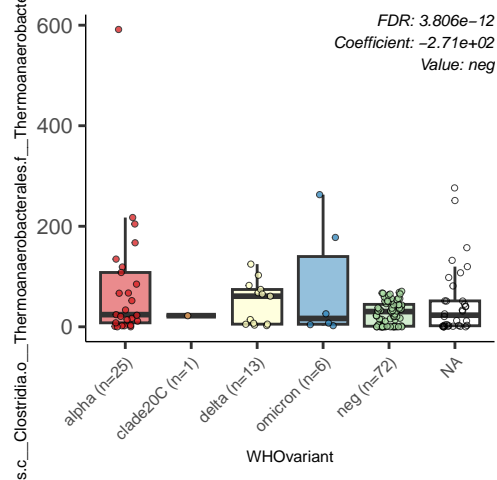
es.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g__Anaeroco

FDR: 3.403e-12
Coefficient: -2.27e+03
Value: neg

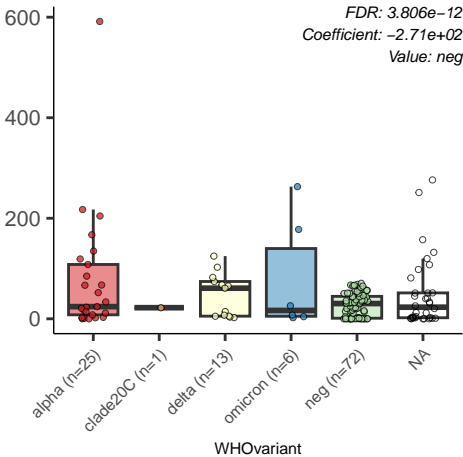


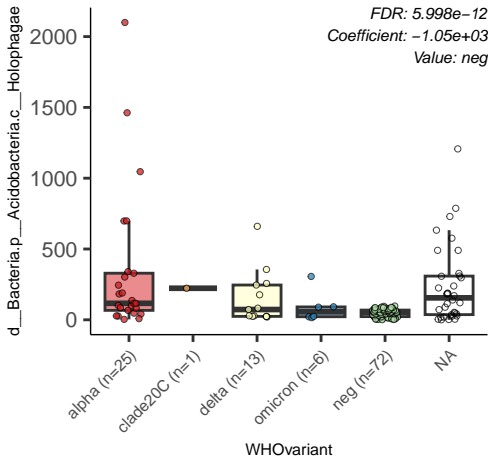
NA

FDR: 3.806e-12
Coefficient: -2.71e+02
Value: neg



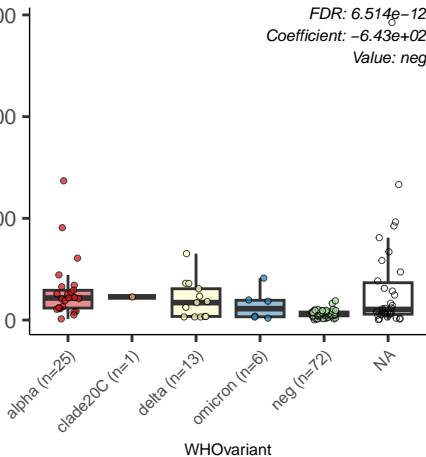
ia.o__Thermoanaerobacterales.f__Thermoanaerobacterales.Family

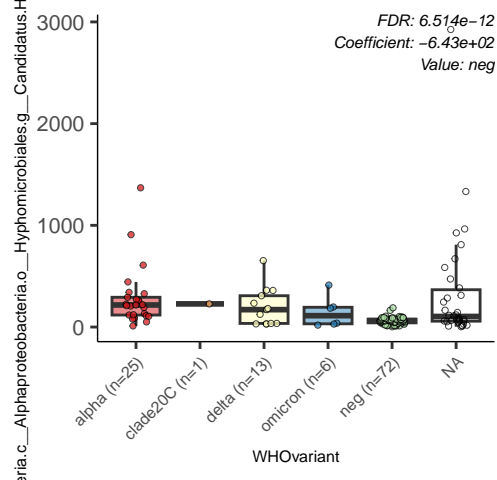




ria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiale

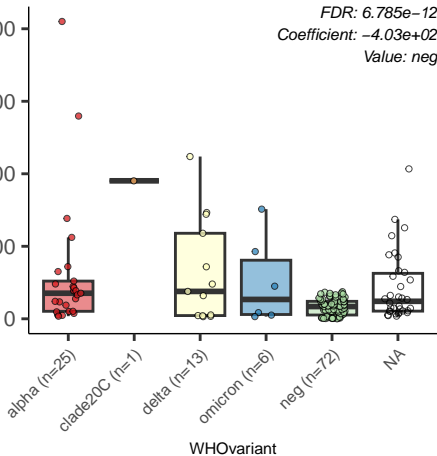
$FDR: 6.514e-12$
 $Coefficient: -6.43e+02$
 $Value: neg$





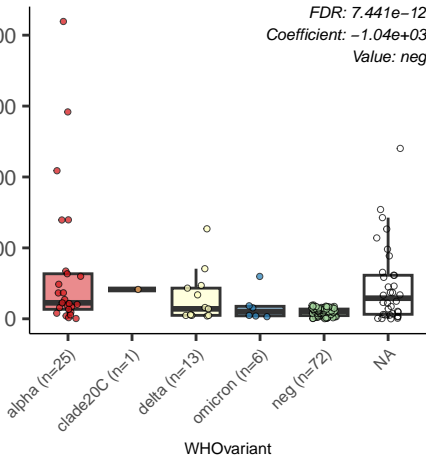
d_Bacteria.p_Cyanobacteria.o_Chroococcales

FDR: $6.785e-12$
Coefficient: $-4.03e+02$
Value: neg

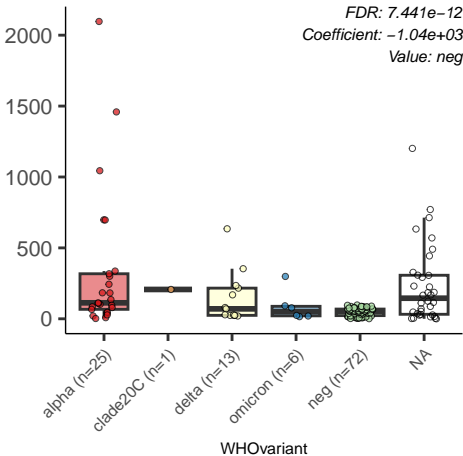


d__Bacteria.p__Acidobacteria.c__Holophagae.o__Acanthopile

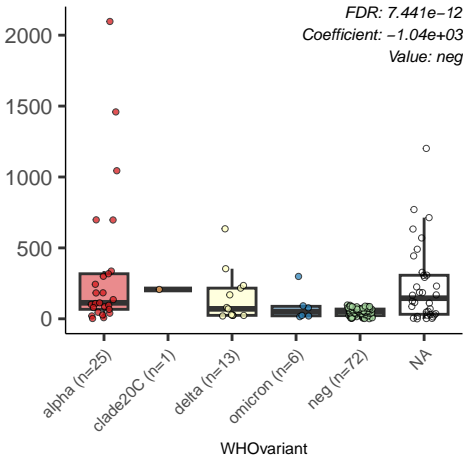
FDR: $7.441e-12$
Coefficient: $-1.04e+03$
Value: neg



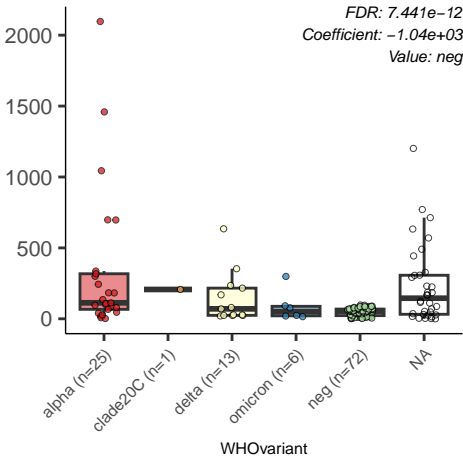
ia.p__Acidobacteria.c__Holophagae.o__Acanthopleuribacteriales.f



cidobacteria.c__Holophagae.o__Acanthopleuribacterales.f__Acanth

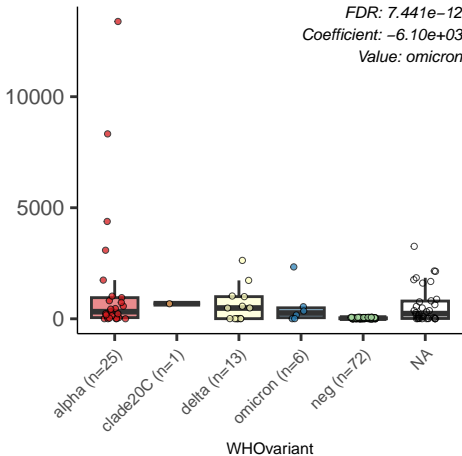


Holophagae.o__Acanthopleuribacterales.f__Acanthopleuribacter

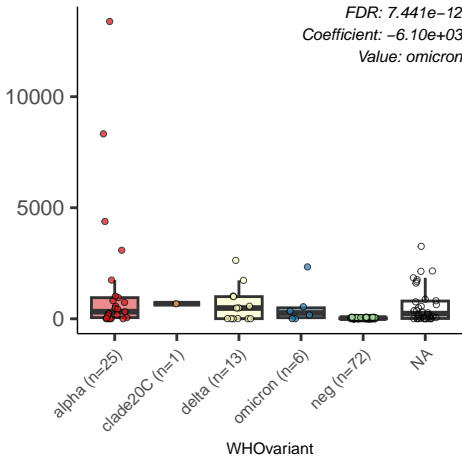


.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Actino

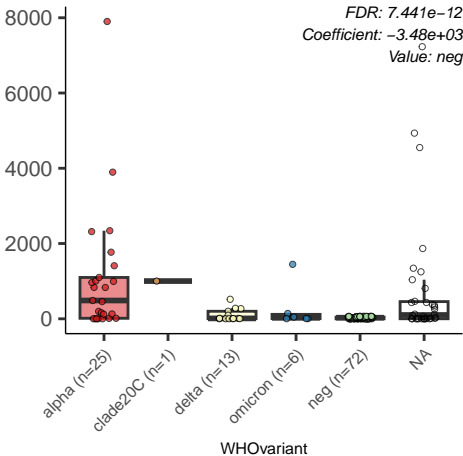
FDR: $7.441e-12$
Coefficient: $-6.10e+03$
Value: omicron



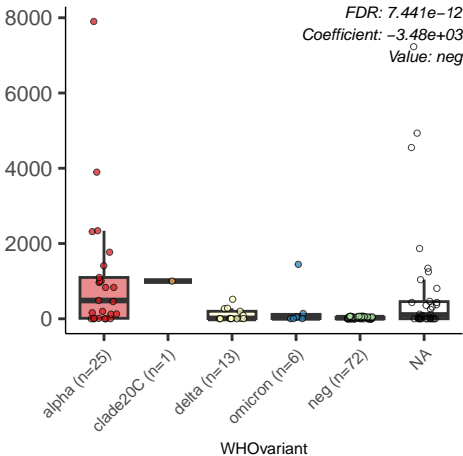
FDR: $7.441e-12$
Coefficient: $-6.10e+03$
Value: omicron



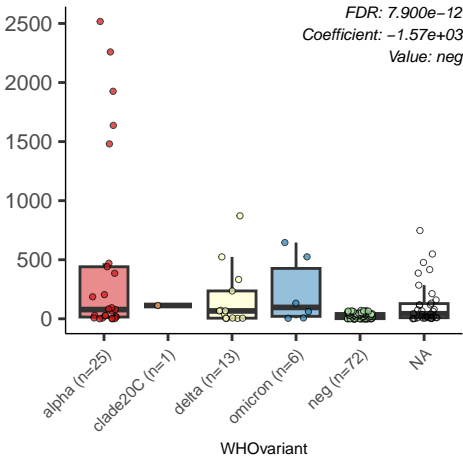
Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnos



p_Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae

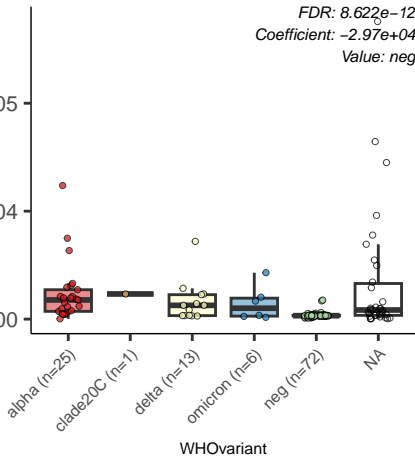


p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Micrococ



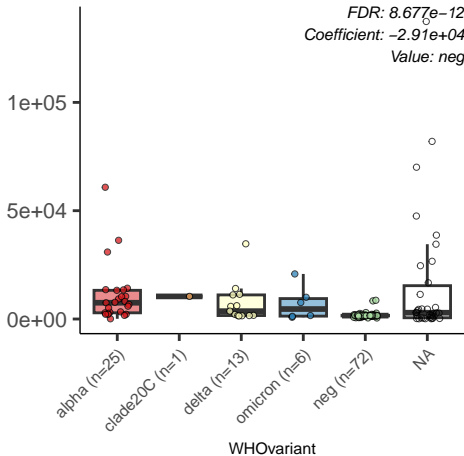
d__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__O

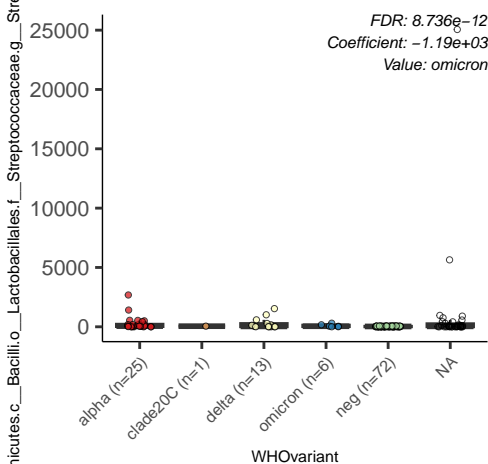
FDR: $8.622e-12$
Coefficient: $-2.97e+04$
Value: neg

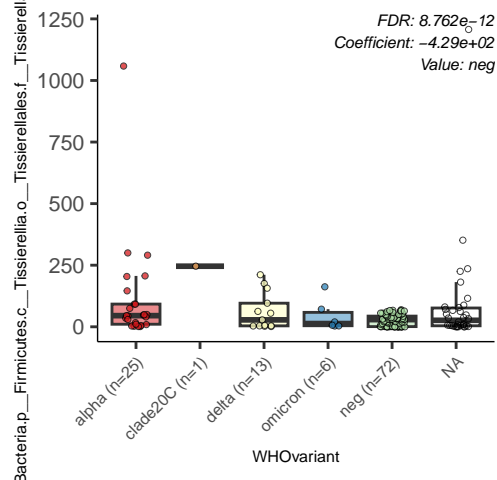


Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f

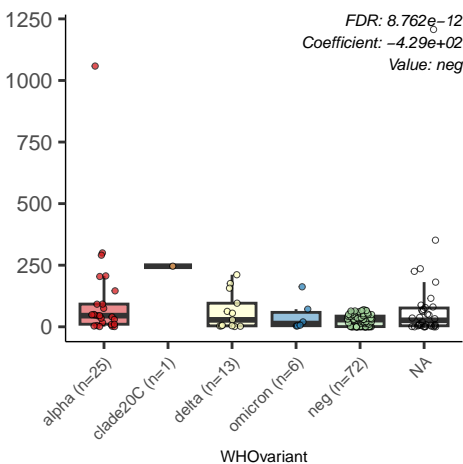
FDR: $8.677e-12$
Coefficient: $-2.91e+04$
Value: neg





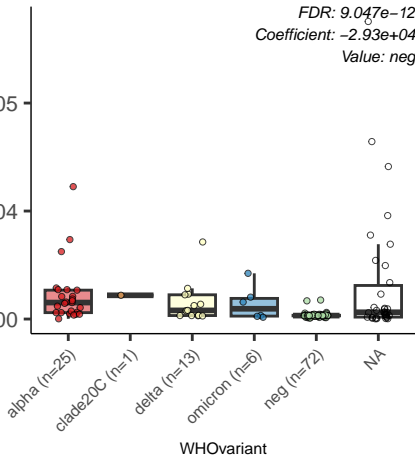


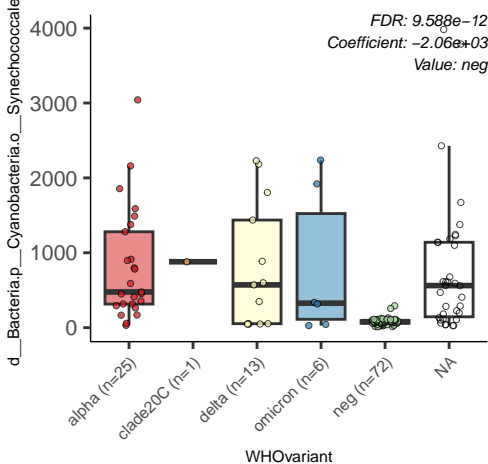
Firmicutes.c__Tissierellia.o__Tissierellales.f__Tissierellaceae.g__G



terial.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirill

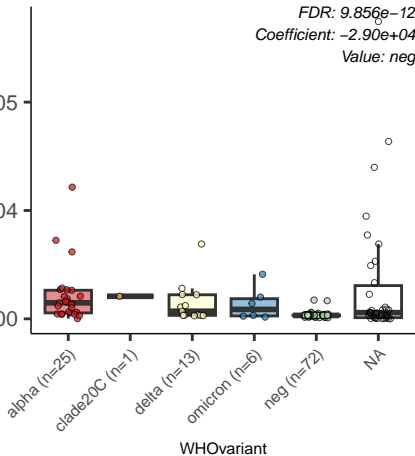
FDR: $9.047e-12$
Coefficient: $-2.93e+04$
Value: neg

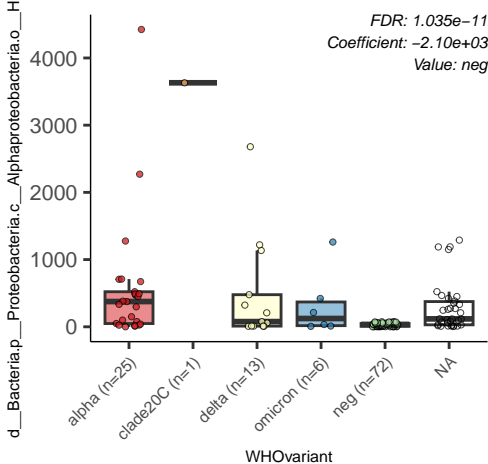


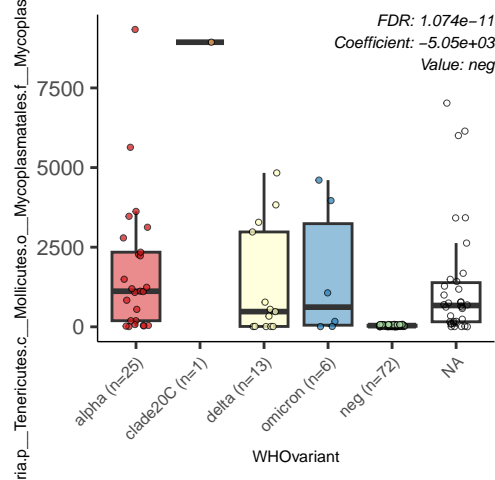


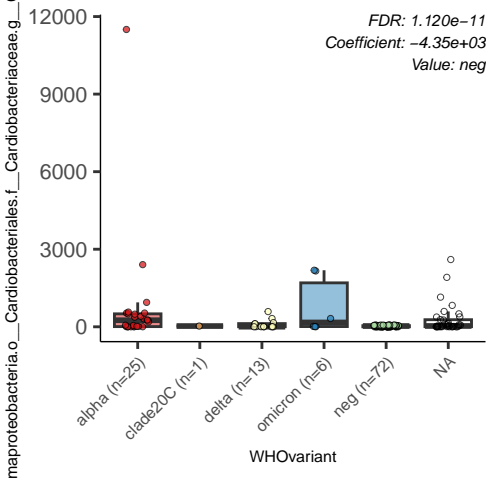
c__Gammaproteobacteria.o__Oceanospirillales.f__Halomonadaceae

FDR: $9.856e-12$
Coefficient: $-2.90e+04$
Value: neg



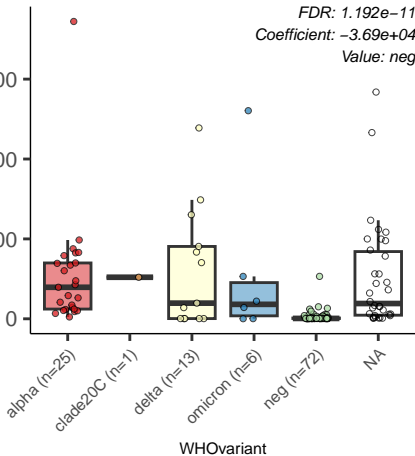






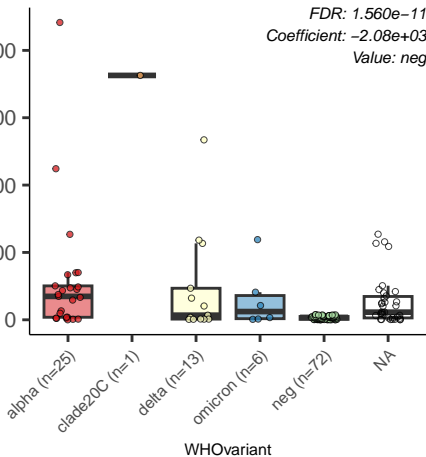
d__Bacteria.p__Firmicutes.c__Tissierellia

FDR: 1.192×10^{-11}
Coefficient: -3.69×10^4
Value: neg



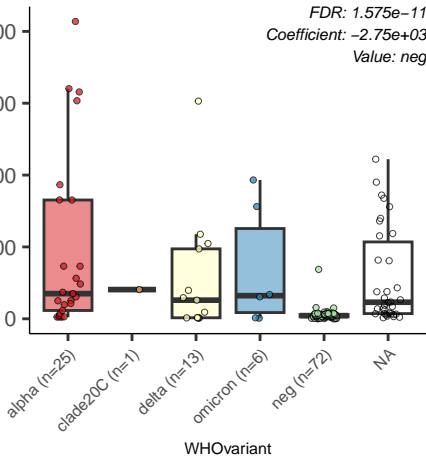
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Holosporal

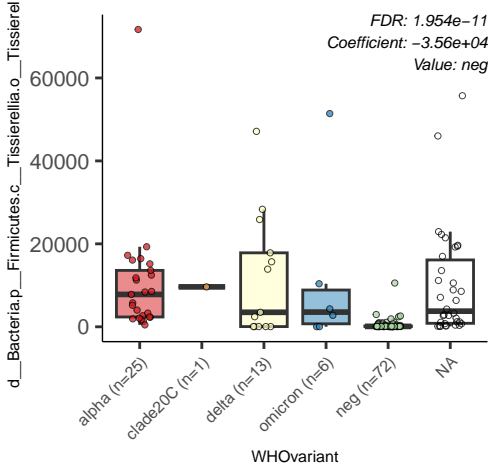
FDR: $1.560e-11$
Coefficient: $-2.08e+03$
Value: neg



d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Streptos

FDR: $1.575e-11$
Coefficient: $-2.75e+03$
Value: neg





d__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonadiales

75000
50000
25000
0

alpha (n=25)

clade20C (n=1)

delta (n=13)

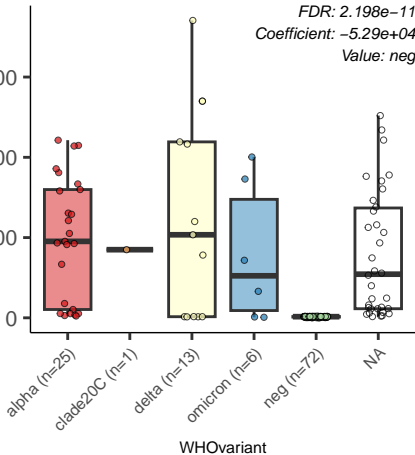
omicron (n=6)

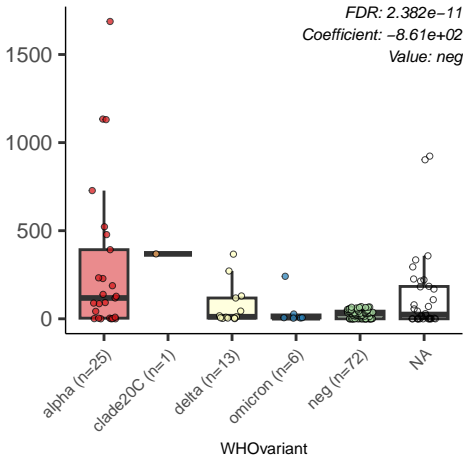
neg (n=72)

NA

WHOvariant

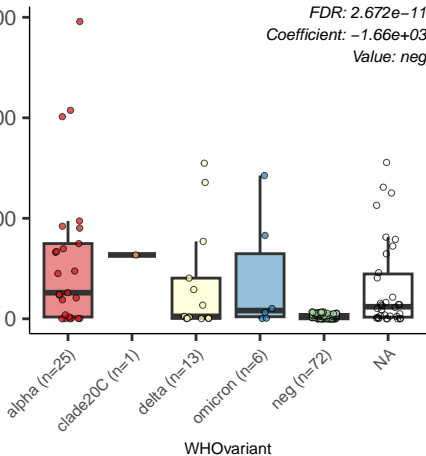
FDR: 2.198×10^{-11}
Coefficient: -5.29×10^4
Value: neg





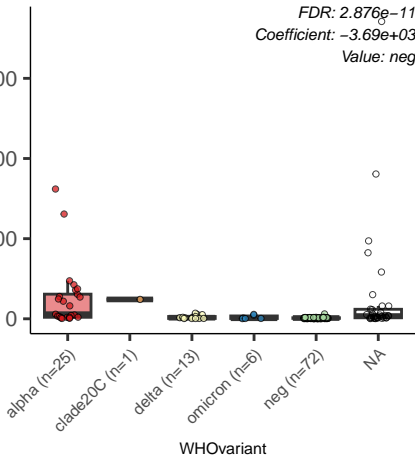
cteria.c__Acidobacteriia.o__Acidobacteriales.f__Acidobacteriaceae.

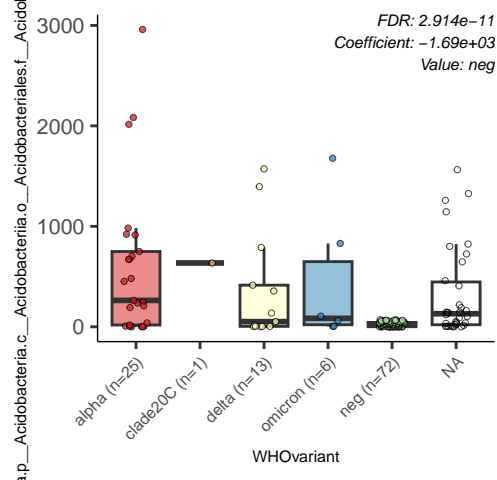
FDR: $2.672e-11$
Coefficient: $-1.66e+03$
Value: neg



Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Nit

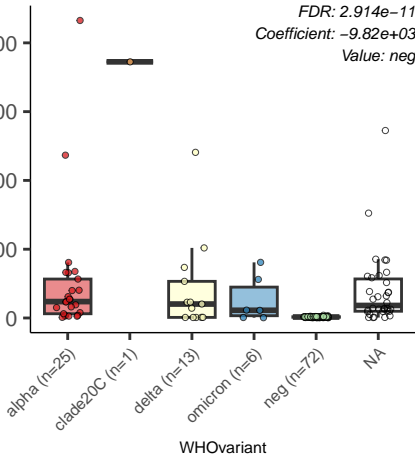
FDR: $2.876e-11$
Coefficient: $-3.69e+03$
Value: neg

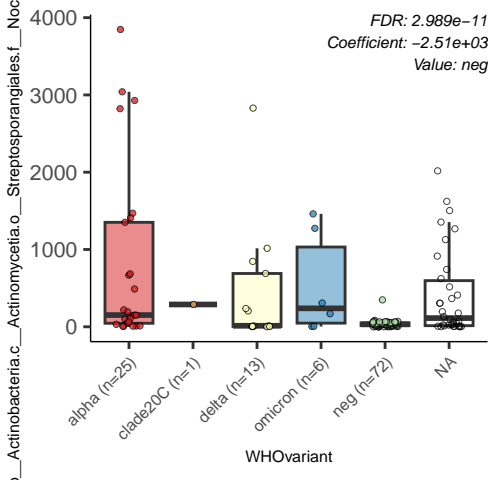




d__Bacteria.p__Planctomycetes

FDR: 2.914e-11
Coefficient: -9.82e+03
Value: neg





.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Actino

FDR: 2.989e-11
Coefficient: -4.93e+03
Value: delta

10000

5000

0

alpha (n=25)

clade20C (n=1)

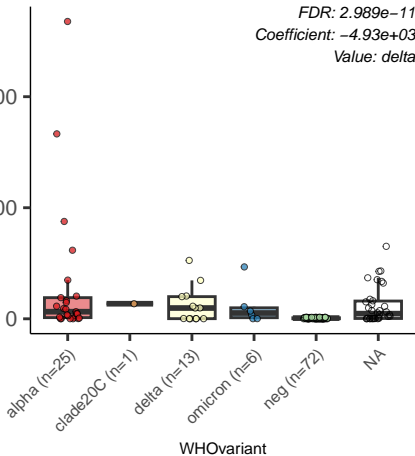
delta (n=13)

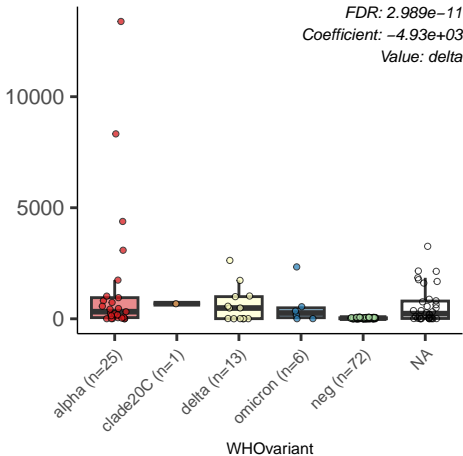
omicron (n=6)

neg (n=72)

NA

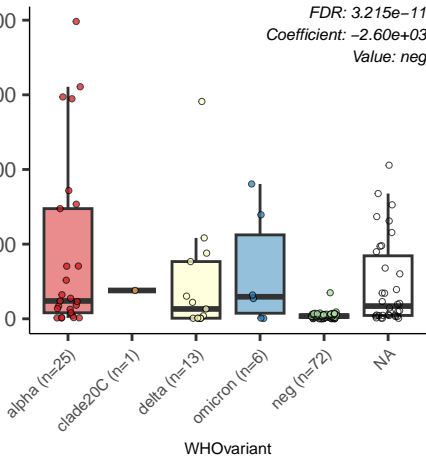
WHOvariant

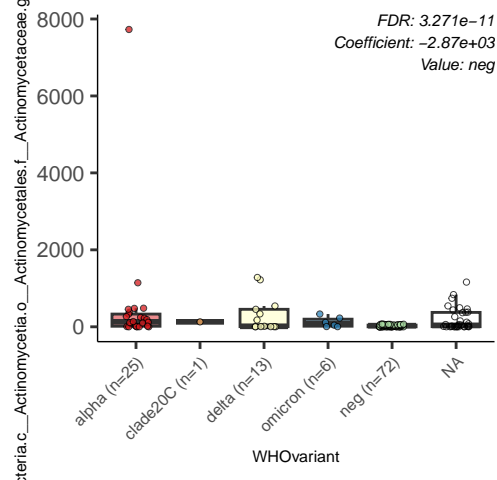




bacteria.p_Actinobacteria.c_Actinomyetia.o_Streptosporangiale

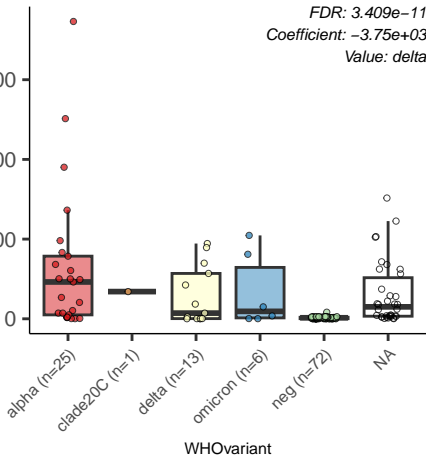
FDR: $3.215e-11$
Coefficient: $-2.60e+03$
Value: neg

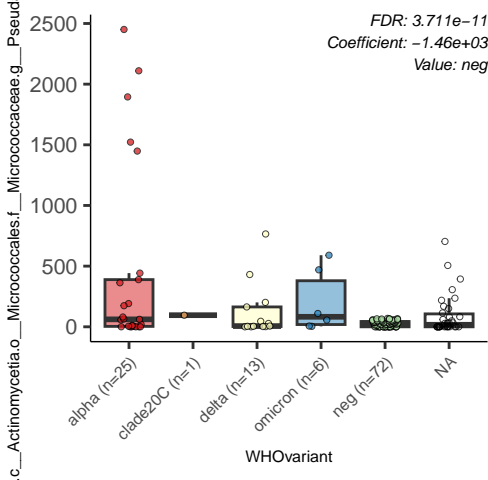


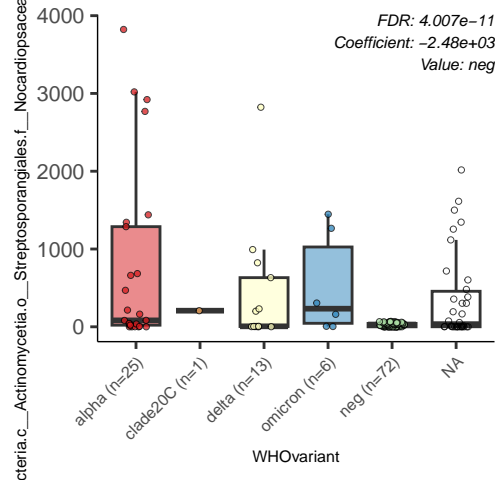


teria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospirac

FDR: $3.409e-11$
Coefficient: $-3.75e+03$
Value: delta

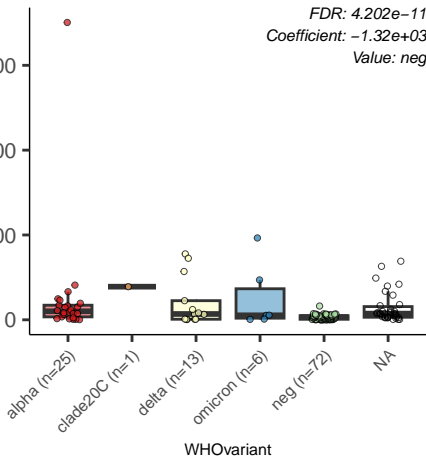


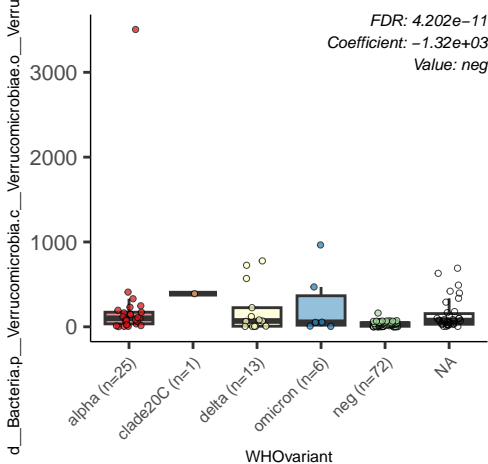


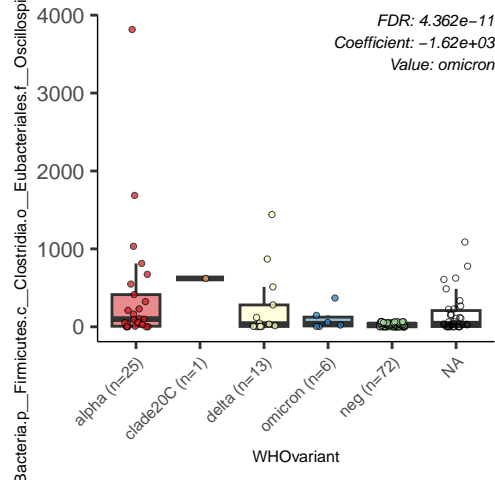


d_Bacteria.p__Verrucomicrobia.c__Verrucomicrobia

FDR: $4.202e-11$
Coefficient: $-1.32e+03$
Value: neg

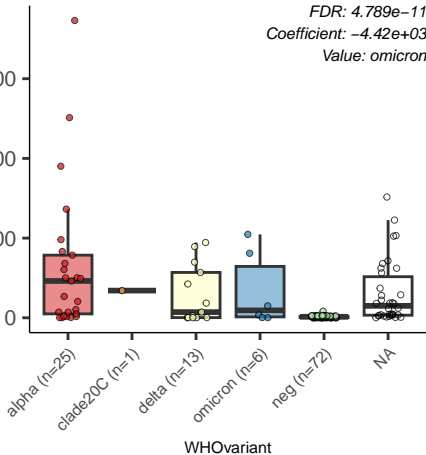






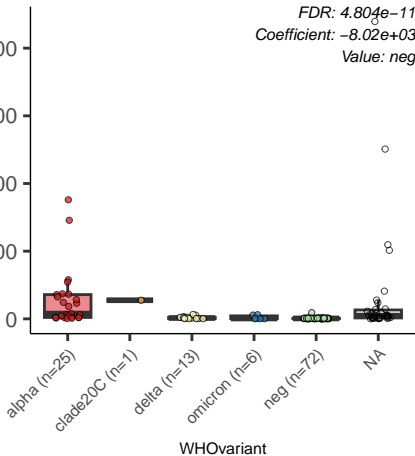
teria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospirac

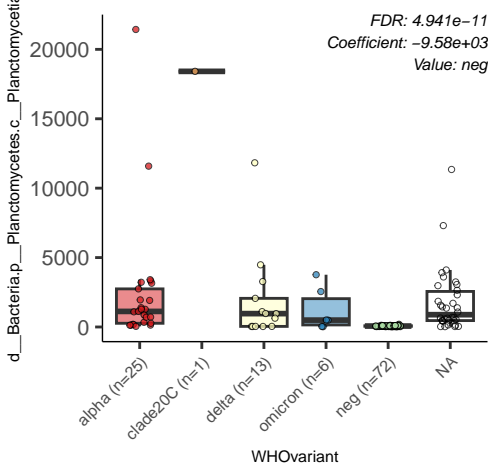
FDR: $4.789e-11$
Coefficient: $-4.42e+03$
Value: omicron

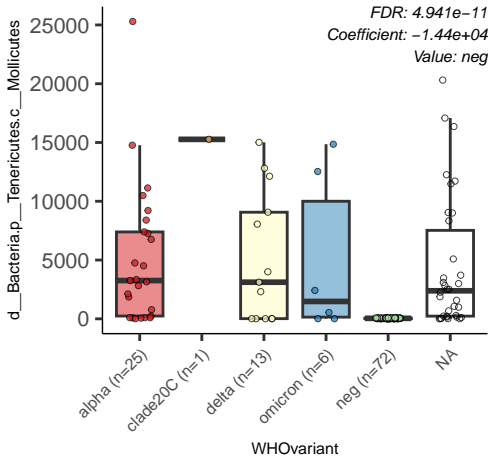


acteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia

FDR: 4.804×10^{-11}
Coefficient: -8.02×10^3
Value: neg

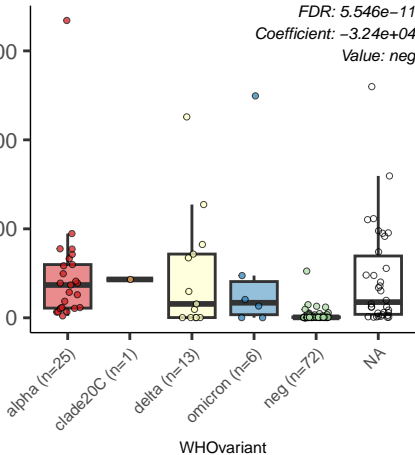


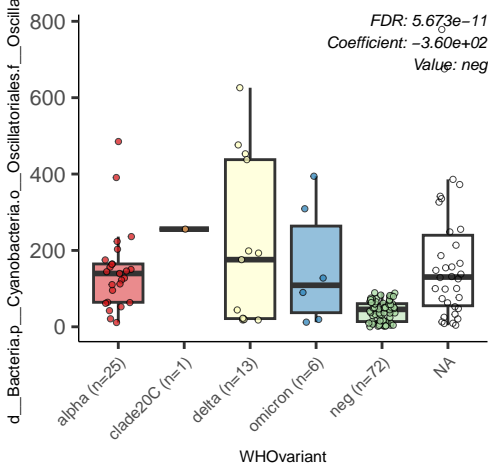


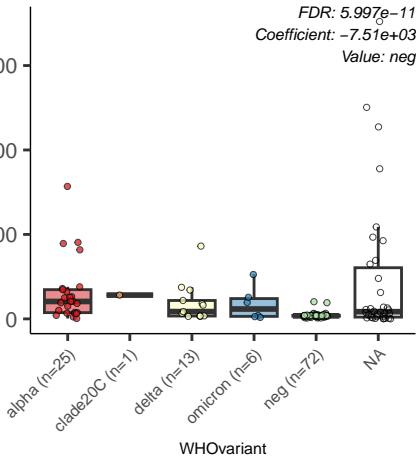


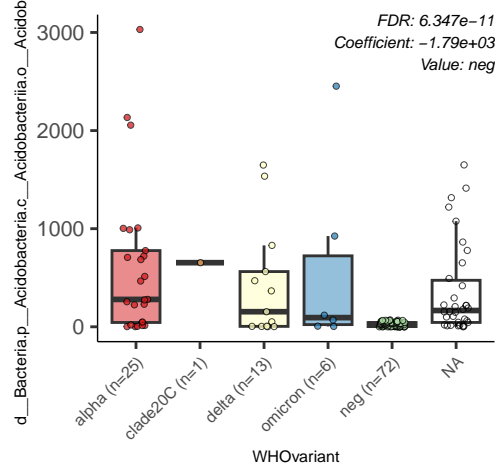
d__Bacteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Pe

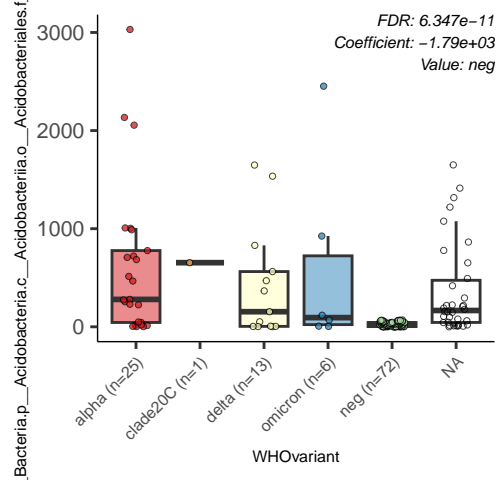
FDR: $5.546e-11$
Coefficient: $-3.24e+04$
Value: neg

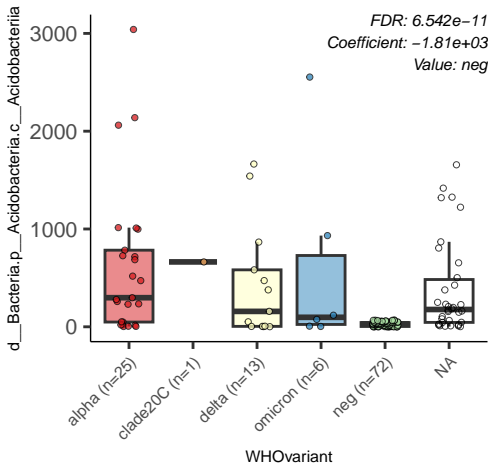












ia.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae

FDR: $8.354e-11$
Coefficient: $-5.58e+02$
Value: omicron

1000

500

0

alpha (n=25)

clade20C (n=1)

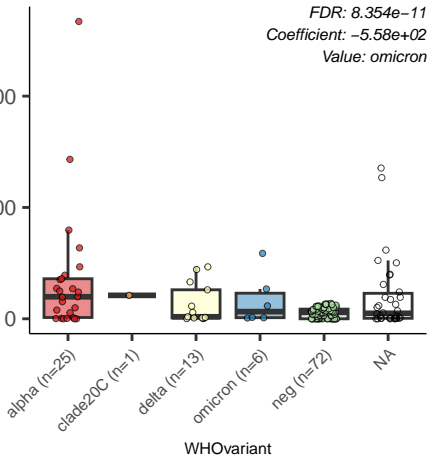
delta (n=13)

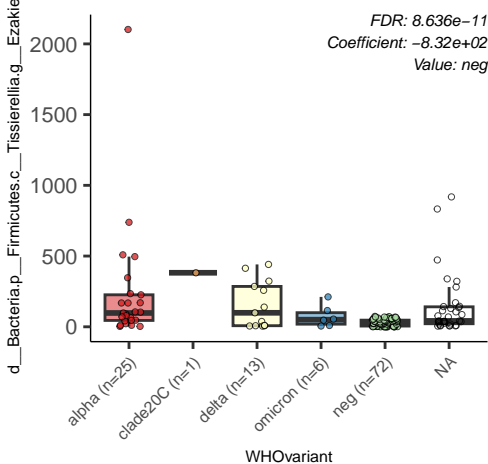
omicron (n=6)

neg (n=72)

NA

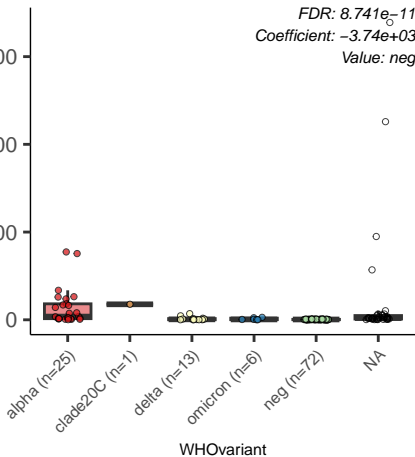
WHOvariant

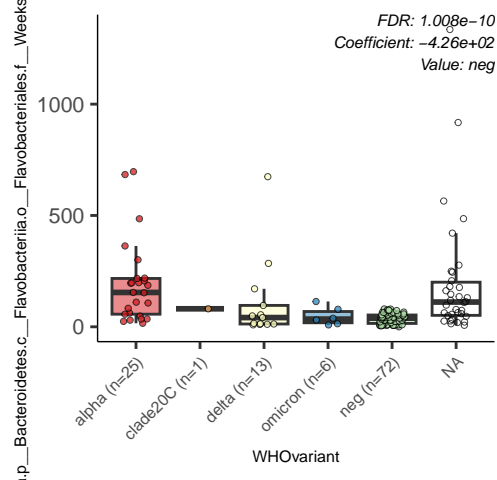




Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Com

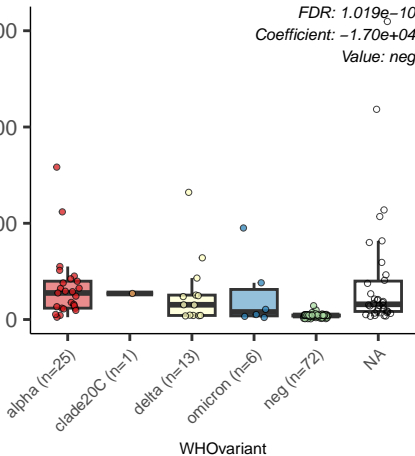
FDR: $8.741e-11$
Coefficient: $-3.74e+03$
Value: neg

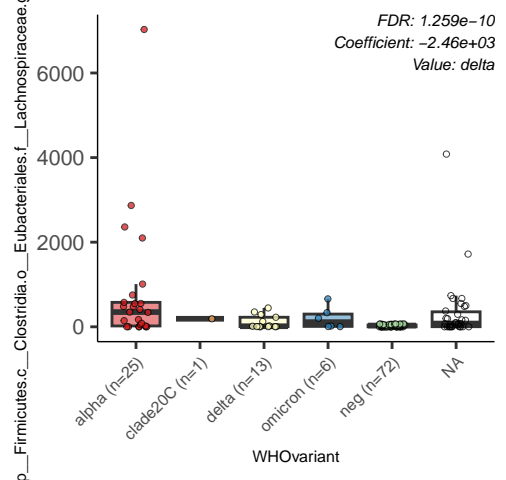


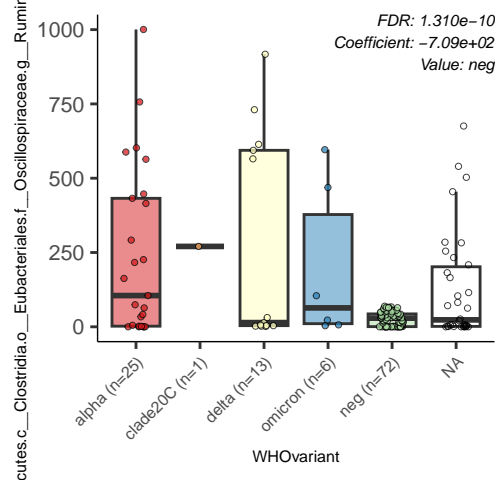


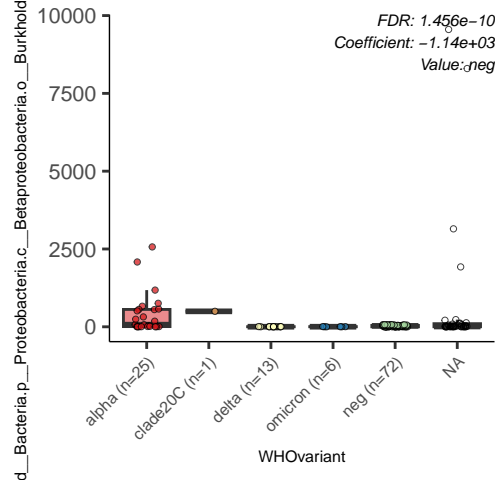
d_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyp

FDR: $1.019e-10$
Coefficient: $-1.70e+04$
Value: neg

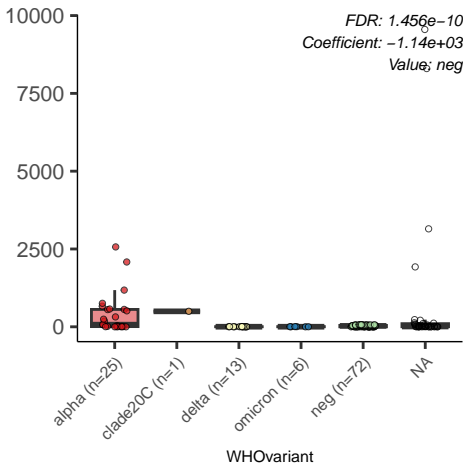




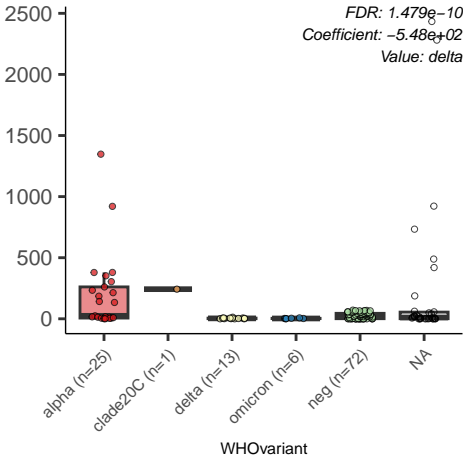




p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g__lr

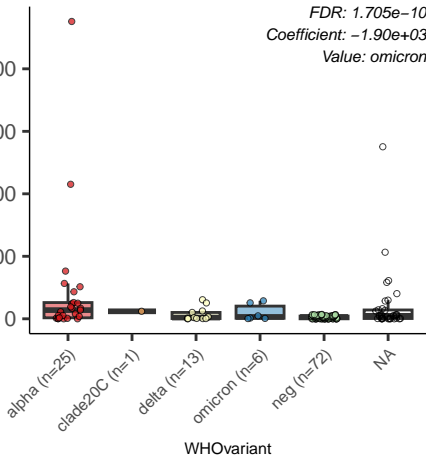


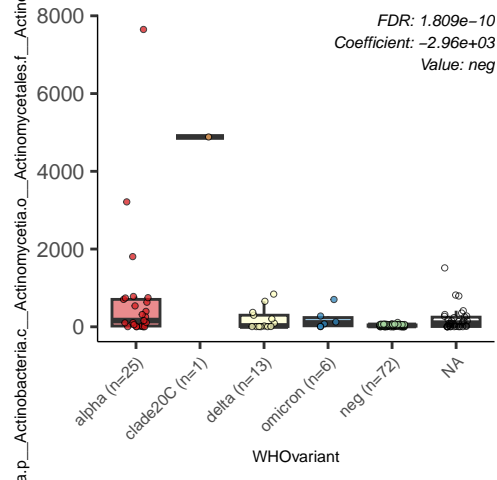
c__Alphaproteobacteria.o__Hyphomicrobiales.f__Nitrobacteraceae.

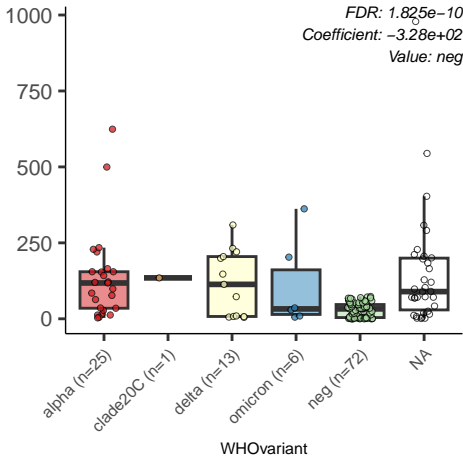


bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospir

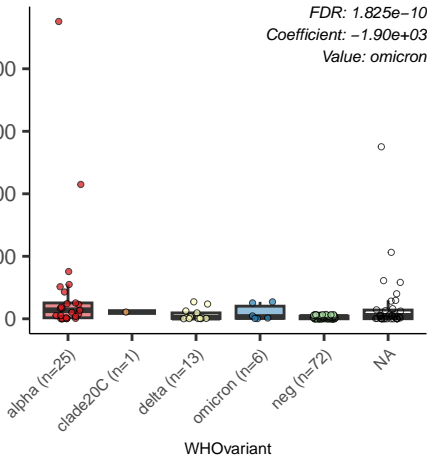
FDR: 1.705e-10
Coefficient: -1.90e+03
Value: omicron



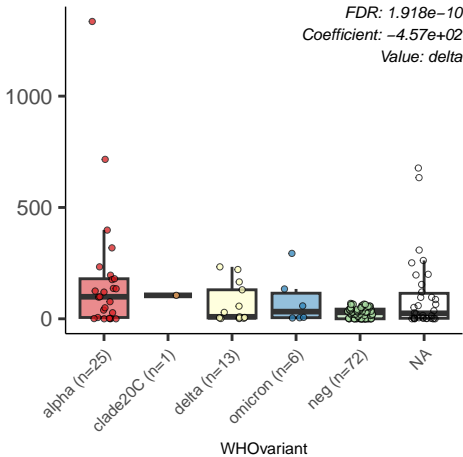


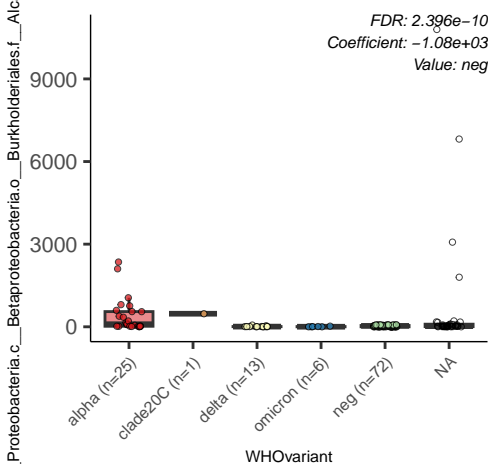


micutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__En

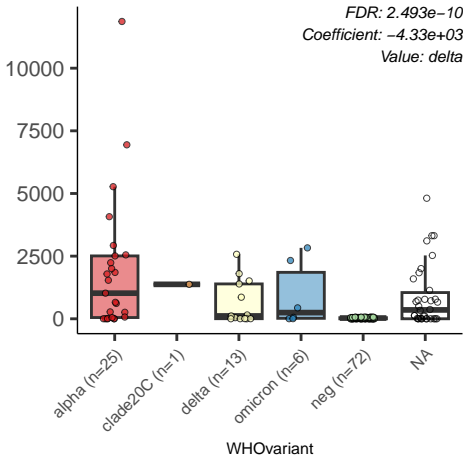


ia.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae

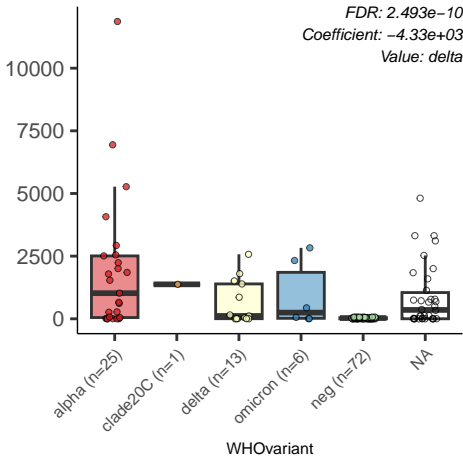


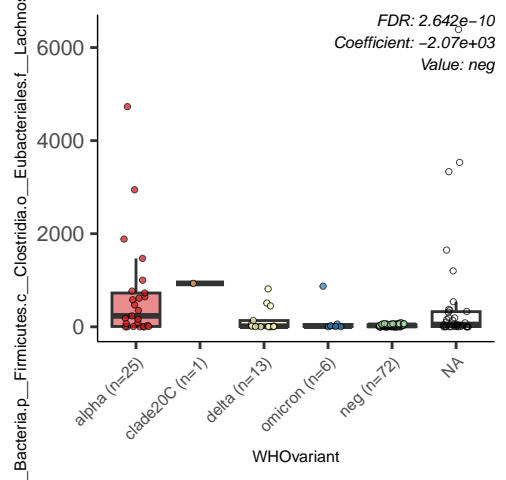


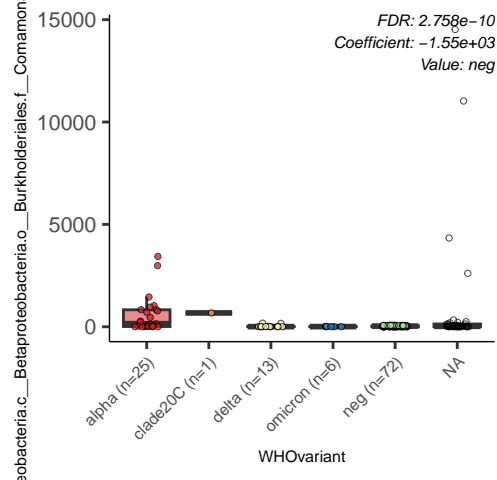
eria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae

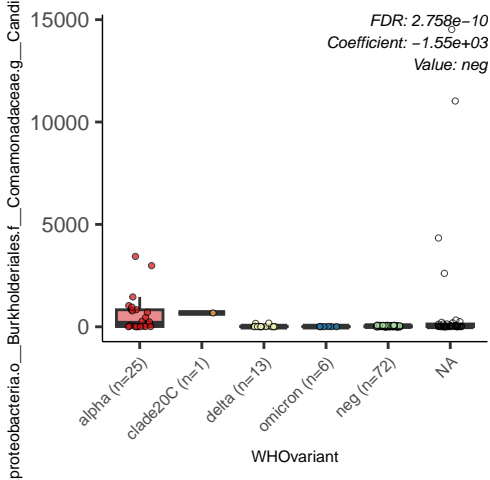


s.c._Clostridia.o_Eubacteriales.f_Lachnospiraceae.g_Pseudobu

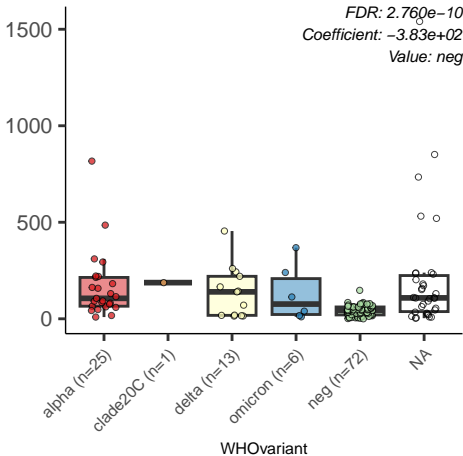






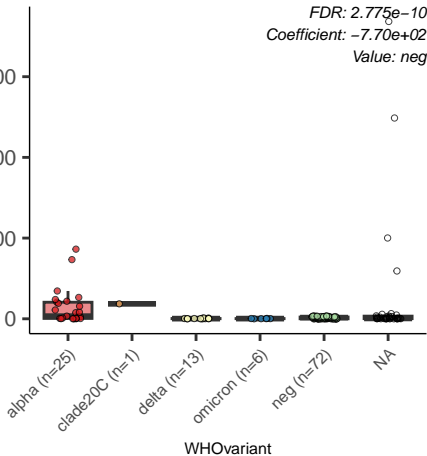


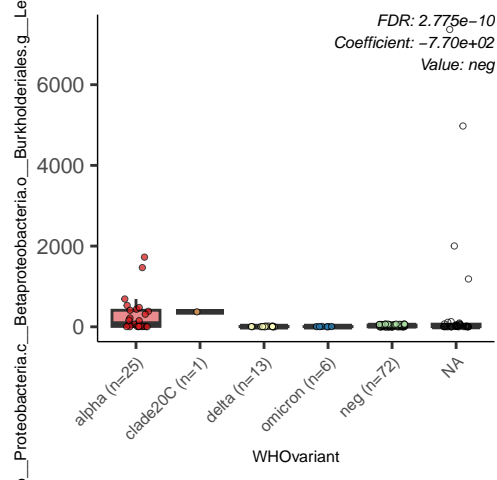
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsia

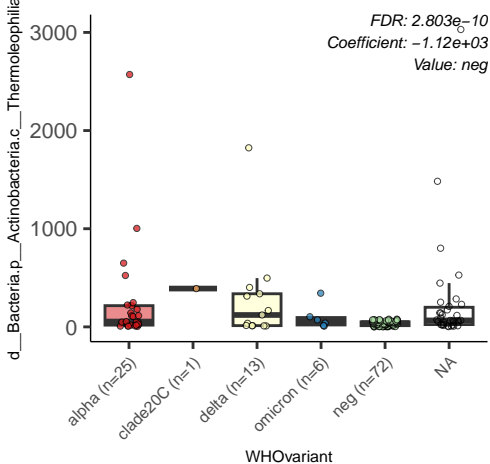


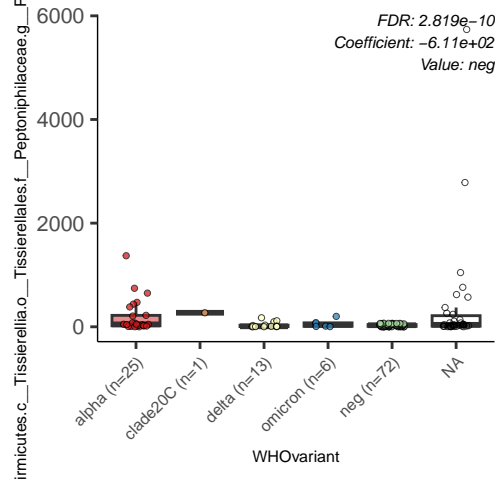
__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder

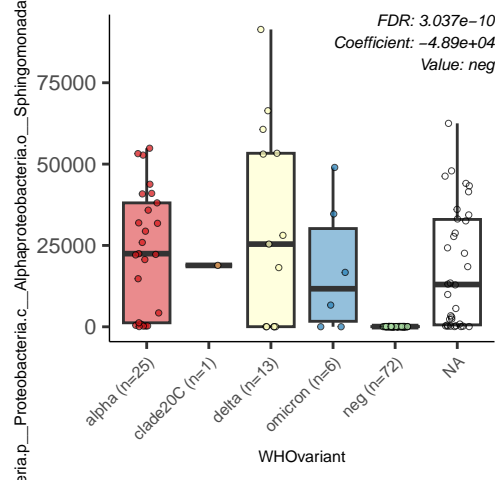
FDR: $2.775e-10$
Coefficient: $-7.70e+02$
Value: neg



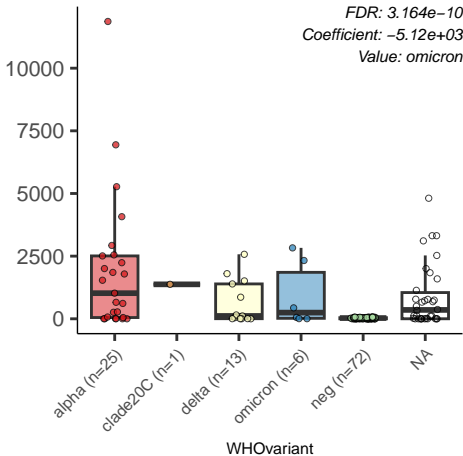




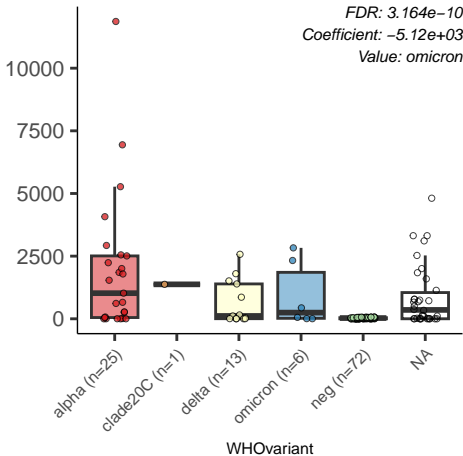




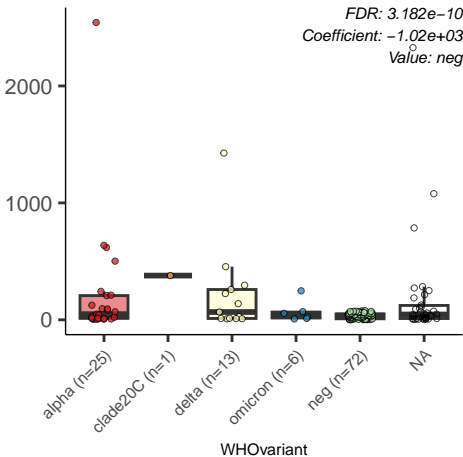
eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae



s.c._Clostridia.o_Eubacteriales.f_Lachnospiraceae.g_Pseudobu

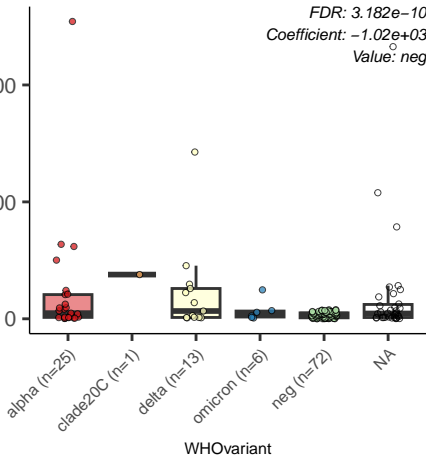


cteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubrobacterales

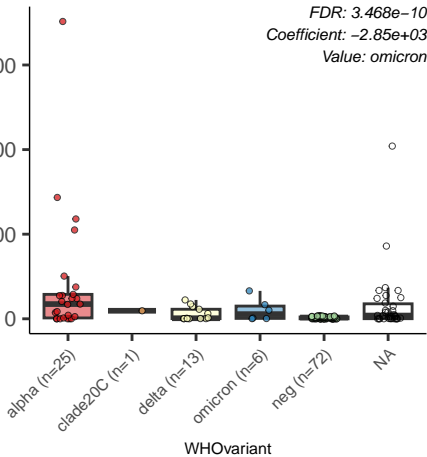


Actinobacteria.c__Thermoleophila.o__Solirubrobacterales.f__Con

FDR: $3.182e-10$
Coefficient: $-1.02e+03$
Value: neg

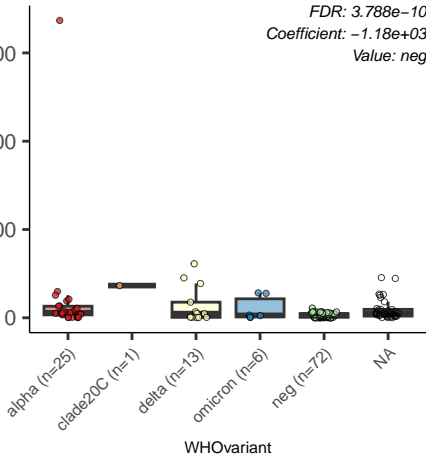


p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae



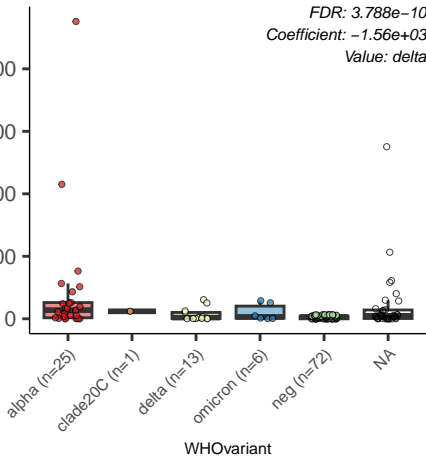
eria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiale

FDR: 3.788e-10
Coefficient: -1.18e+03
Value: neg



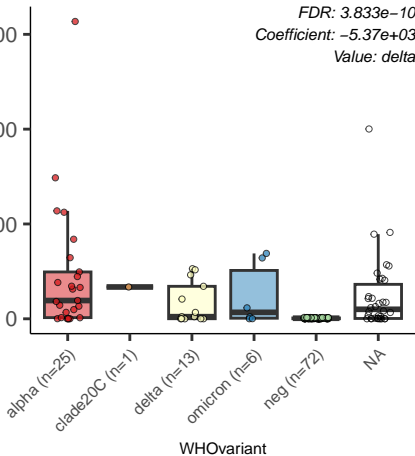
bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospir

FDR: $3.788e-10$
Coefficient: $-1.56e+03$
Value: delta



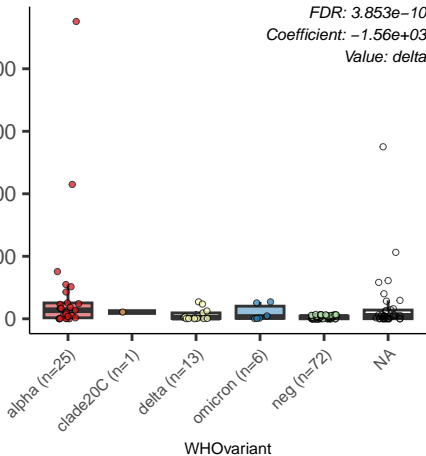
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

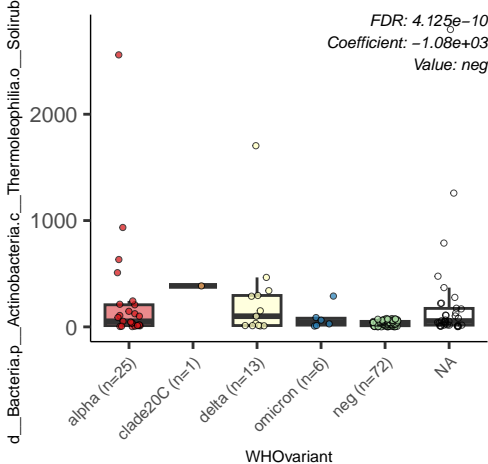
FDR: 3.833e-10
Coefficient: -5.37e+03
Value: delta



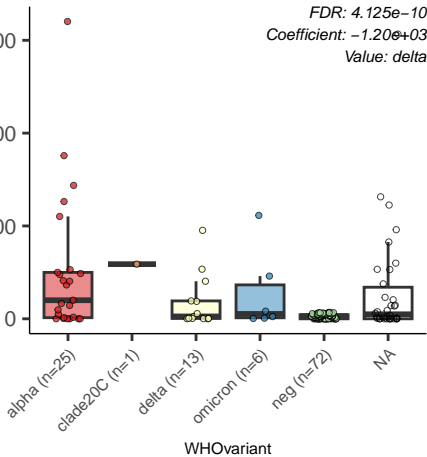
micutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__En

FDR: 3.853e-10
Coefficient: -1.56e+03
Value: delta

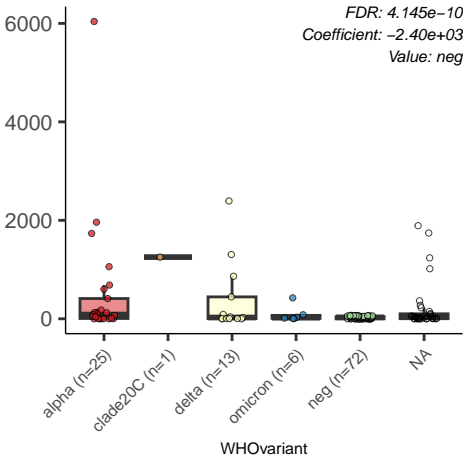


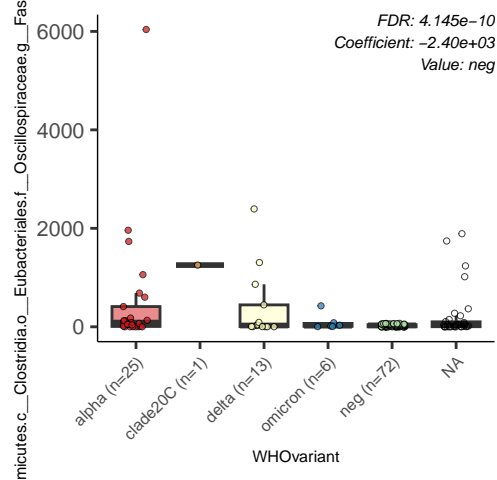


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__R

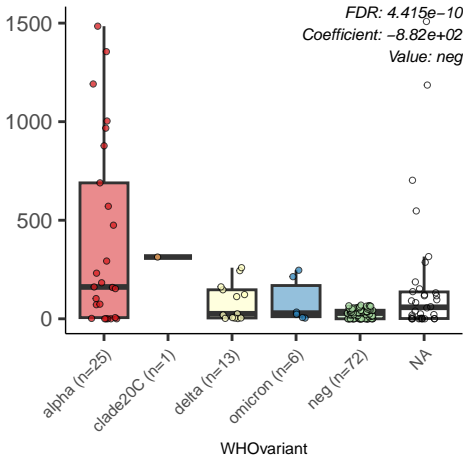


bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospir

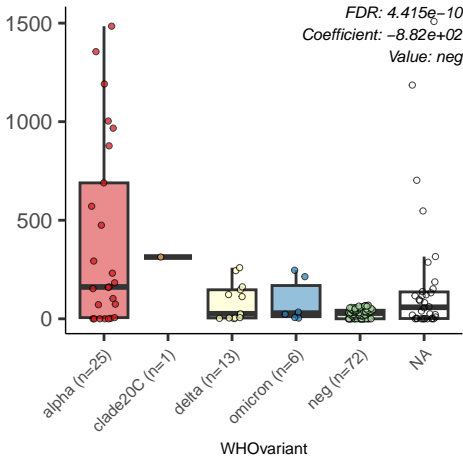




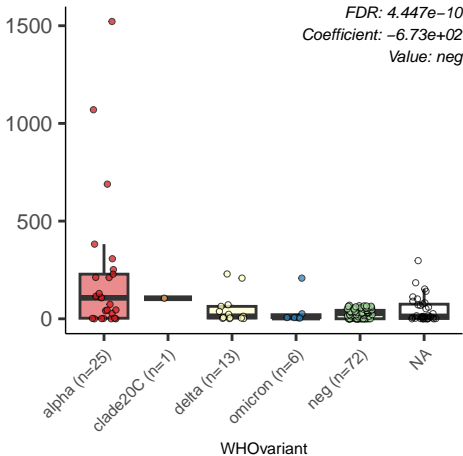
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f__Vallitale



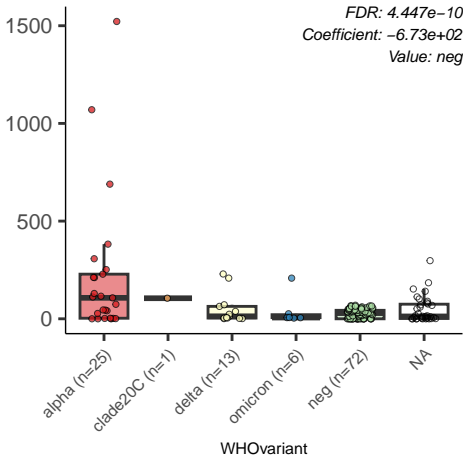
Firmicutes.c__Clostridia.o__Eubacteriales.f__Vallitaleaceae.g__Pet

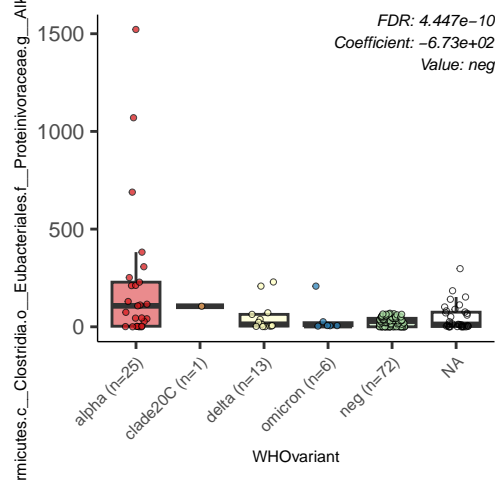


d__Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Pr

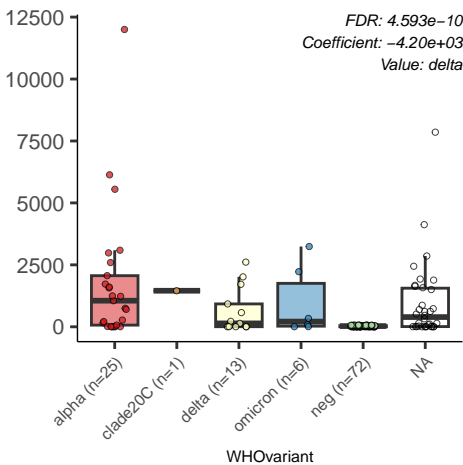


Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Proteini

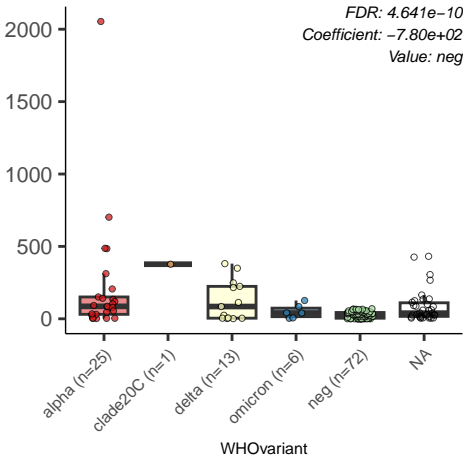




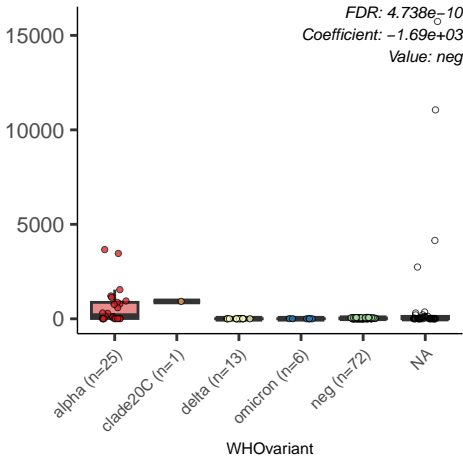
eria.p_Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospirac



d_Bacteria.p_Firmicutes.c_Tissierellia.g_Ezakiella.s_Ezak

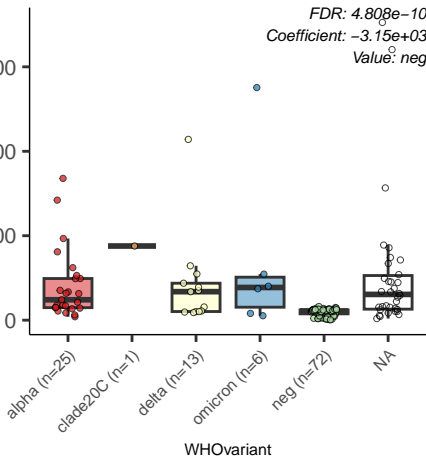


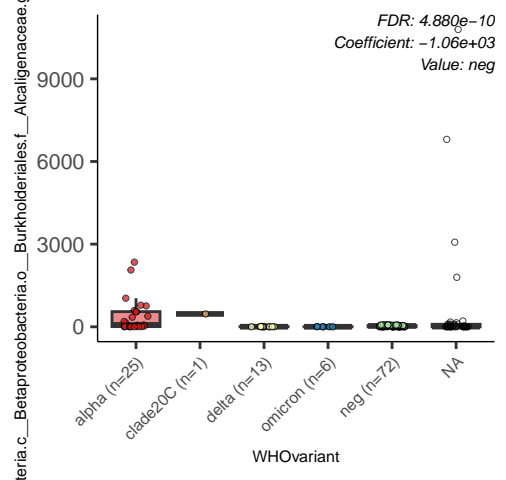
obacteria.c__Betaproteobacteria.o__Burkholderiales.f__Comamonad



ria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonadales

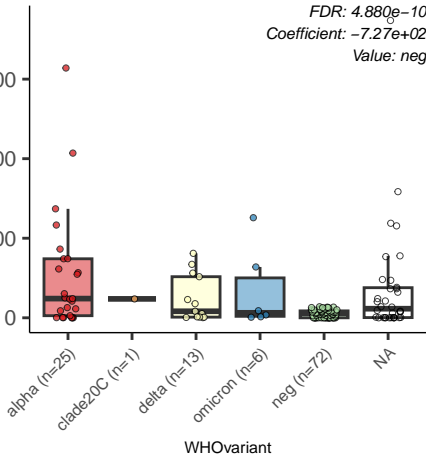
FDR: $4.808e-10$
Coefficient: $-3.15e+03$
Value: neg



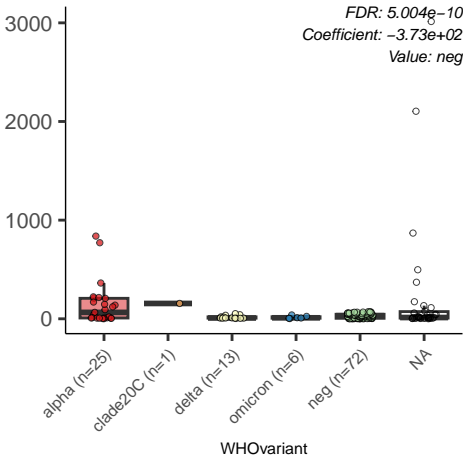


a.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Desulfitobacteri

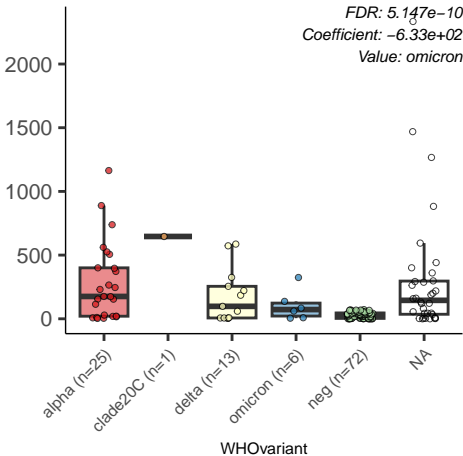
FDR: 4.880e-10
Coefficient: -7.27e+02
Value: neg



a.p._Proteobacteria.c._Alphaproteobacteria.o._Hyphomicrobiales.

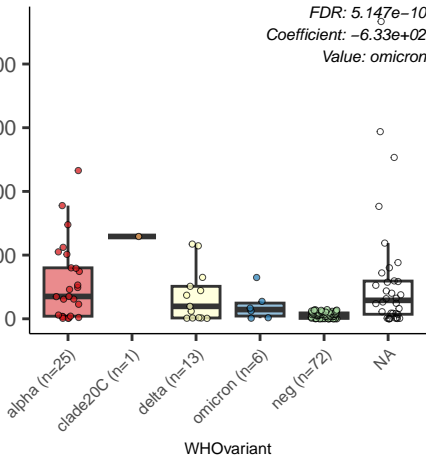


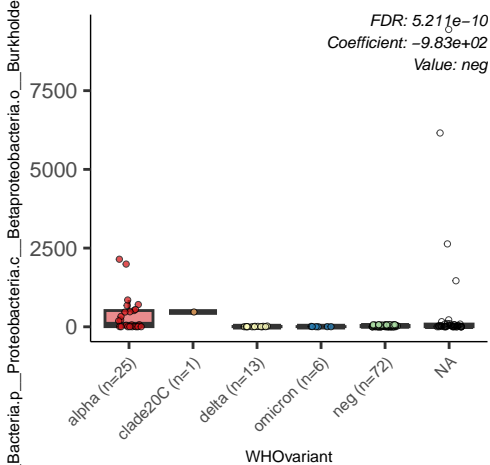
Bacteria.p__Tenericutes.c__Mollicutes.o__Entomoplasmatales.f

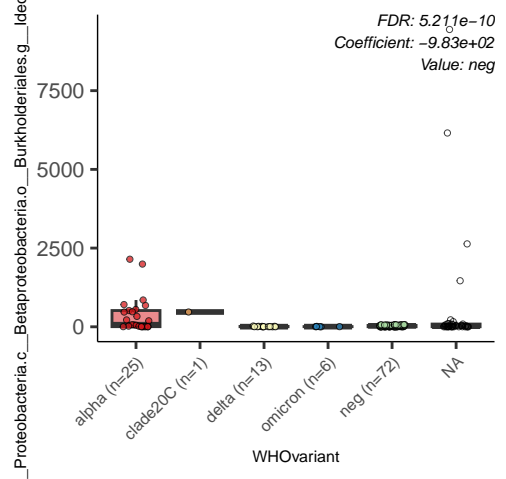


ia.p__Tenericutes.c__Mollicutes.o__Entomoplasmatales.f__Spiroplasma

FDR: $5.147e-10$
Coefficient: $-6.33e+02$
Value: omicron

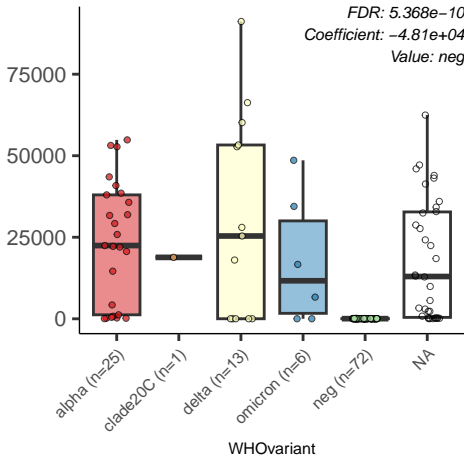






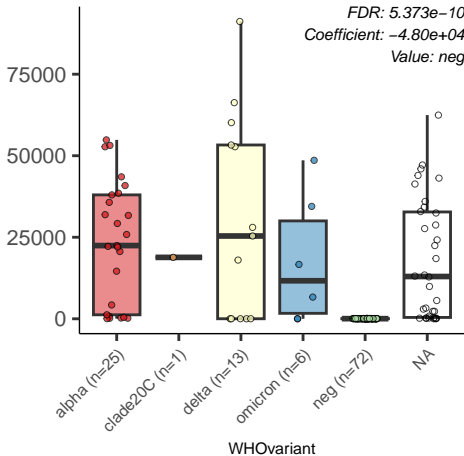
oteobacteria.c__Alphaproteobacteria.o__Sphingomonadales.f__Ery

FDR: $5.368e-10$
Coefficient: $-4.81e+04$
Value: neg

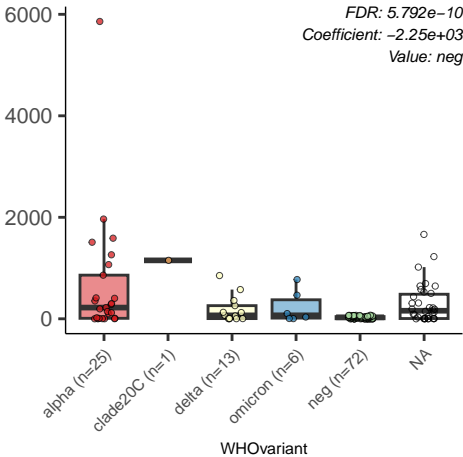


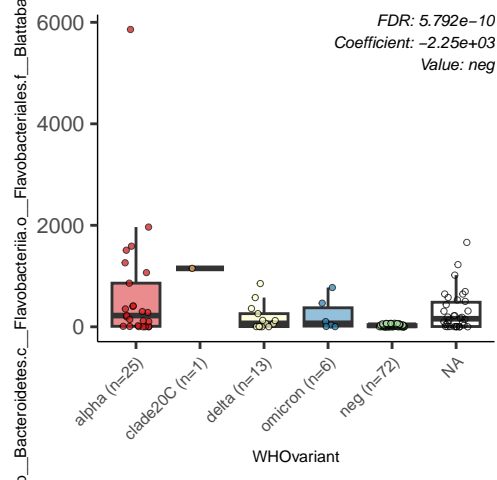
Alpha proteobacteria.o_Sphingomonadales.f_Erythrobacteraceae

FDR: 5.373×10^{-10}
Coefficient: -4.80×10^4
Value: neg

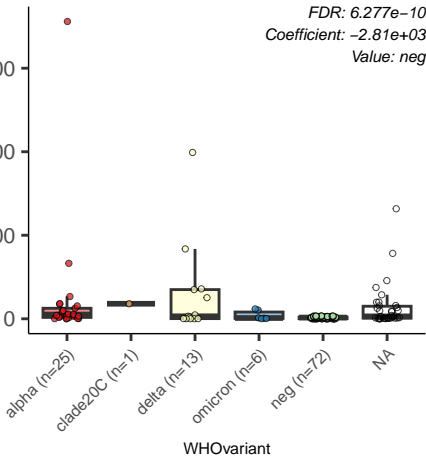


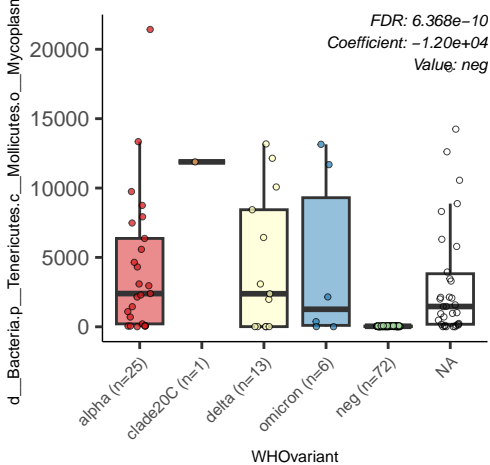
Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f

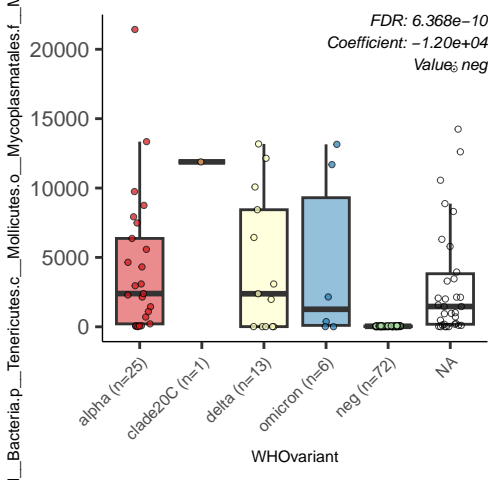




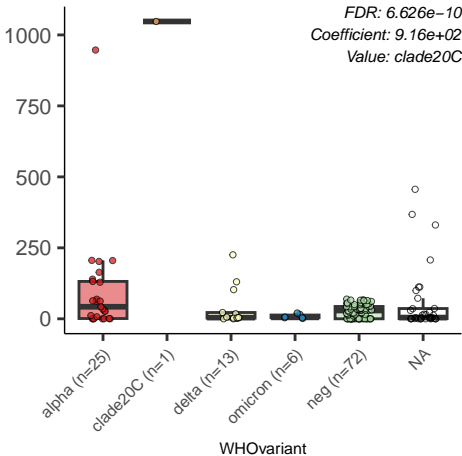
Value: neg

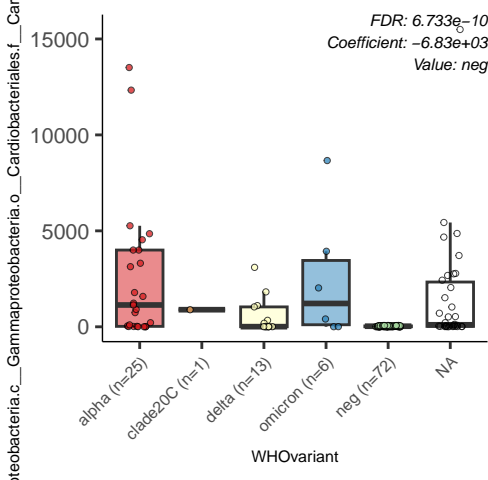






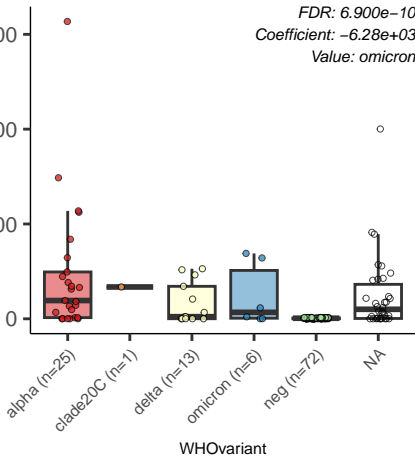
ates.c__Sphingobacteria.o__Sphingobacteriales.f__Sphingobacteri



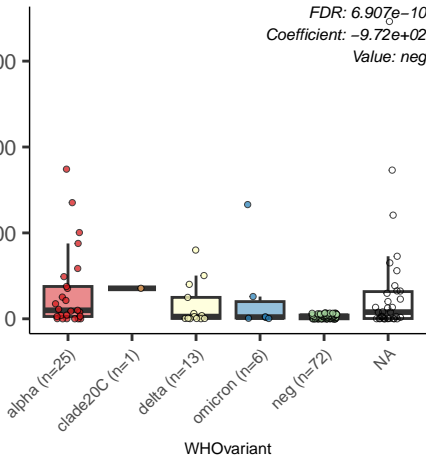


Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

FDR: $6.900e-10$
Coefficient: $-6.28e+03$
Value: omicron

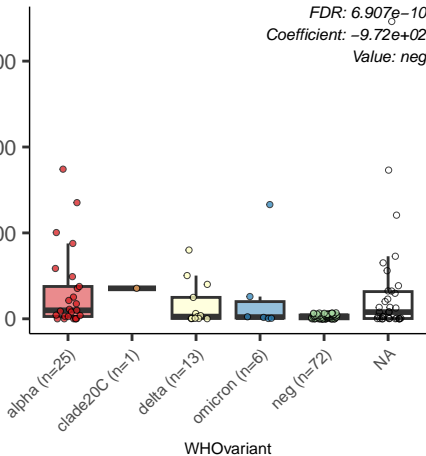


FDR: $6.907e-10$
Coefficient: $-9.72e+02$
Value: neg



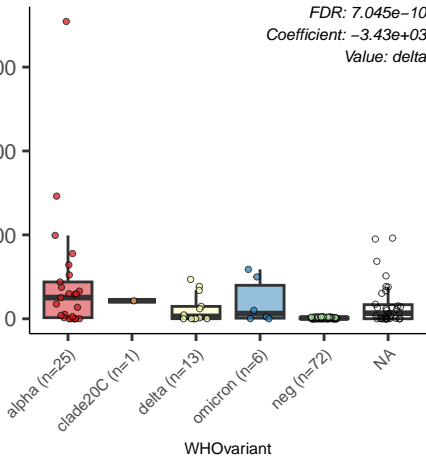
irmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__S

$FDR: 6.907e-10$
 $Coefficient: -9.72e+02$
 $Value: neg$

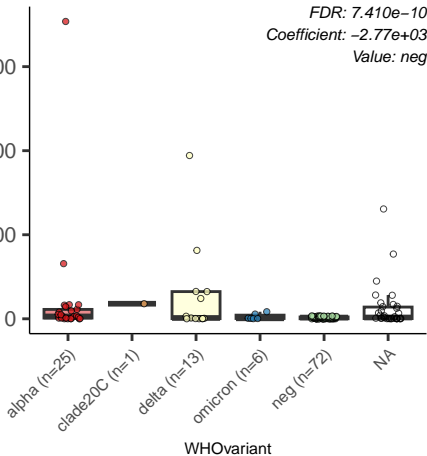


g__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Lachnoclostridium

FDR: $7.045e-10$
Coefficient: $-3.43e+03$
Value: delta

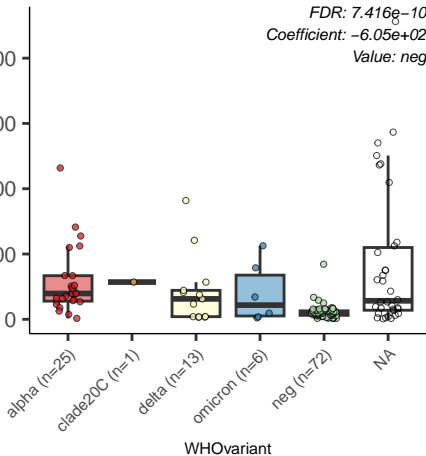


Actinomycetia.o__Pseudonocardiales.f__Pseudonocardaceae.g__S



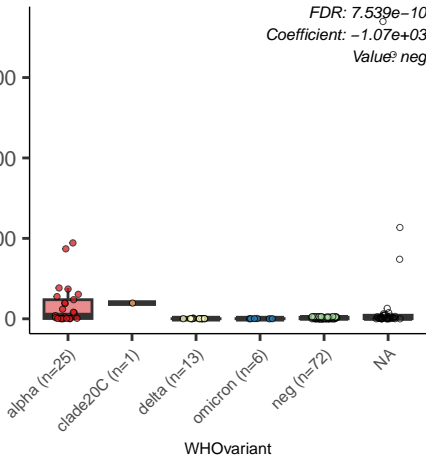
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales

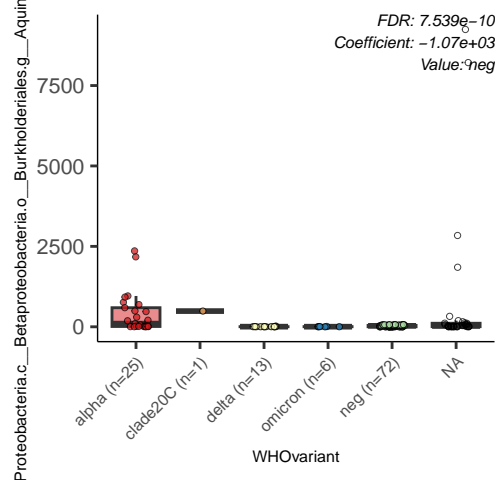
FDR: $7.416e-10$
Coefficient: $-6.05e+02$
Value: neg



Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

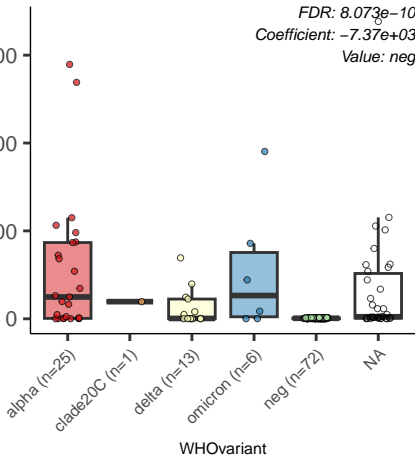
FDR: 7.539×10^{-10}
Coefficient: -1.07×10^3
Value: neg

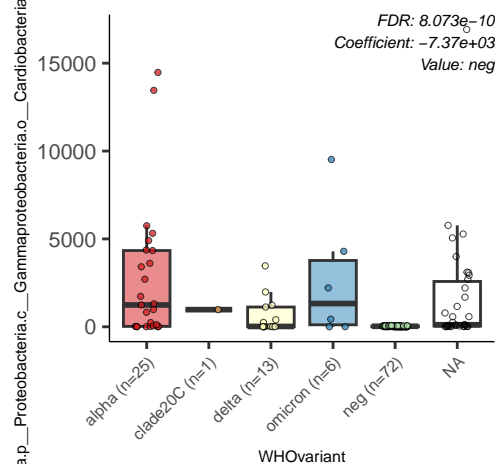




d_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ca

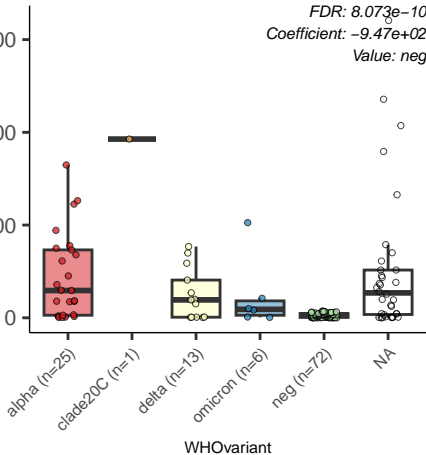
FDR: $8.073e-10$
Coefficient: $-7.37e+03$
Value: neg



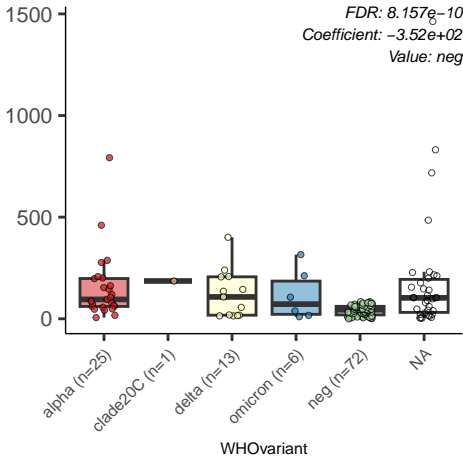


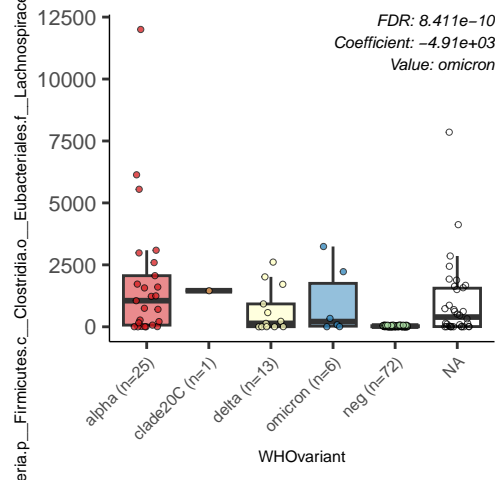
d__Bacteria.p__Tenericutes.c__Mollicutes.o__Entomoplas

FDR: $8.073e-10$
Coefficient: $-9.47e+02$
Value: neg

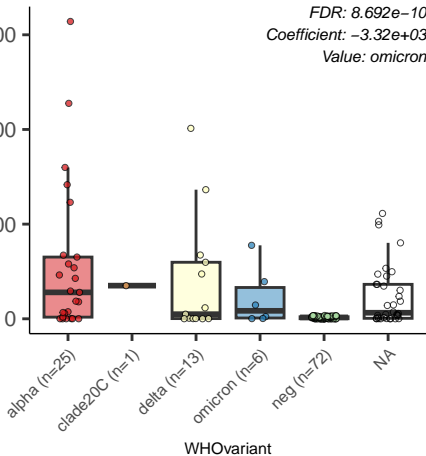


ia.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__R



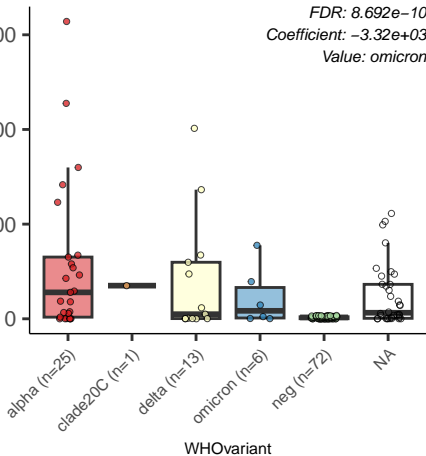


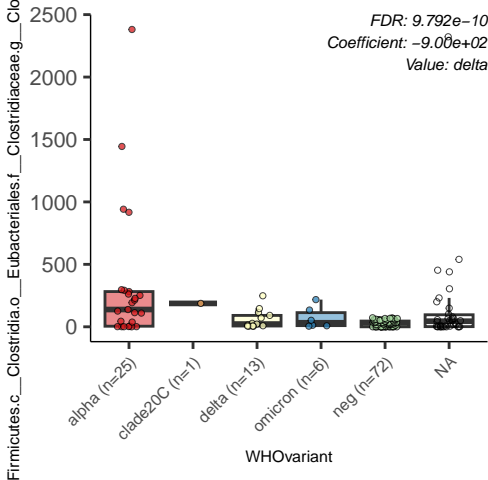
FDR: $8.692e-10$
Coefficient: $-3.32e+03$
Value: omicron

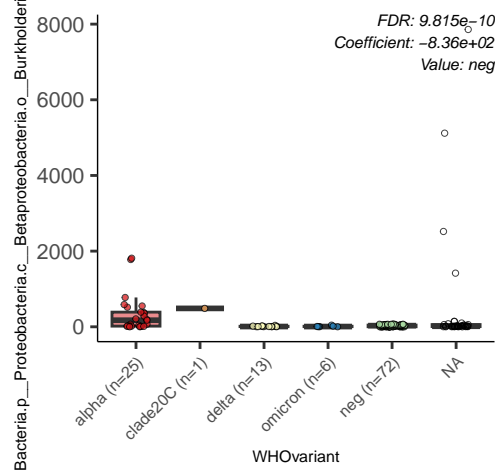


icutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Anaer

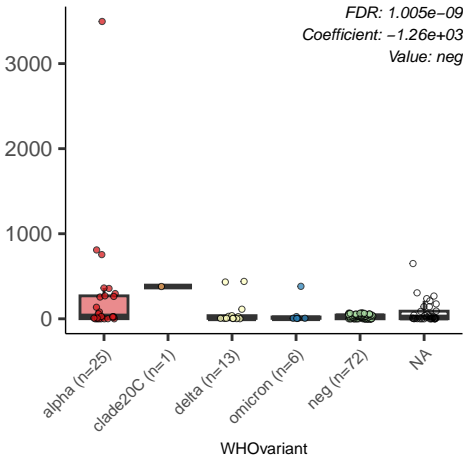
FDR: $8.692e-10$
Coefficient: $-3.32e+03$
Value: omicron

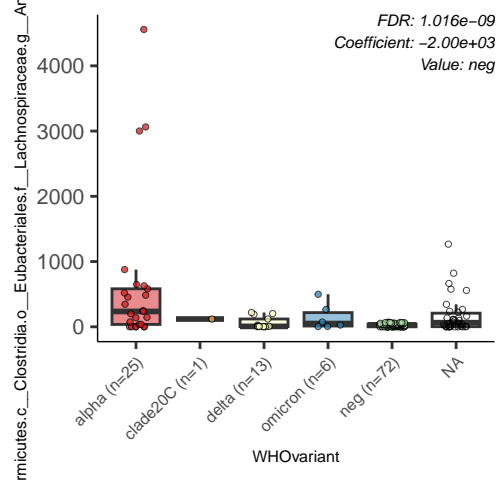




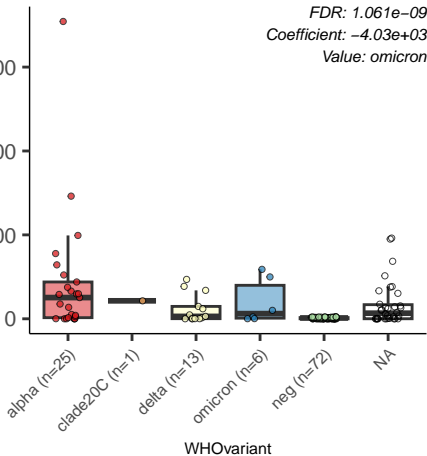


Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Cl

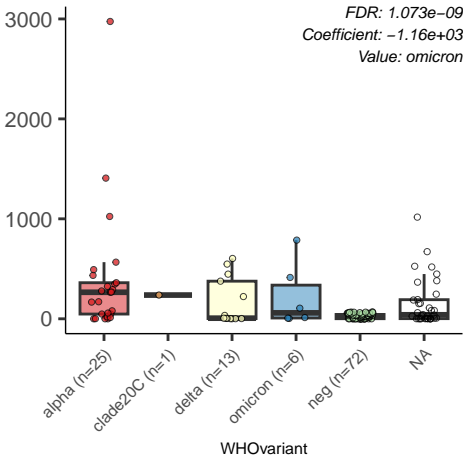


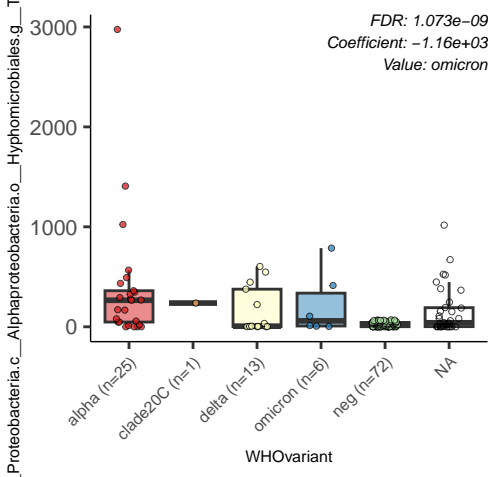


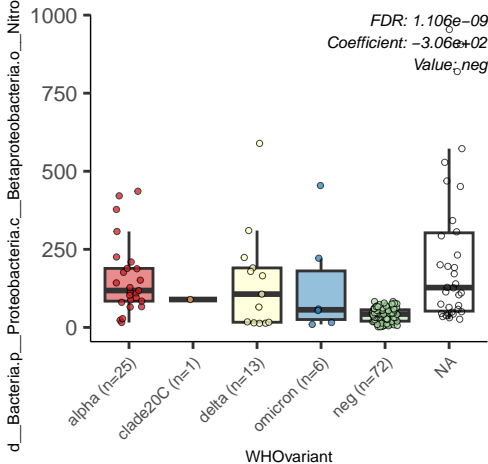
c: Clostridia.o Eubacteriales.f Lachnospiraceae.g Lachnoclostr



bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrob

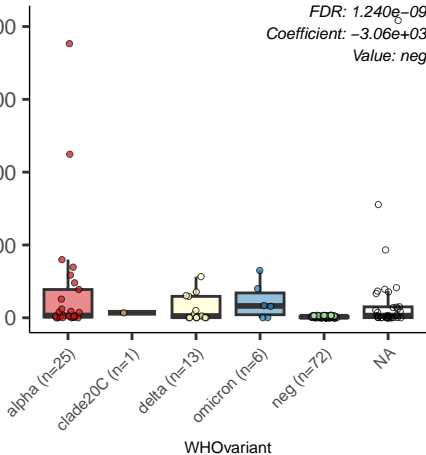






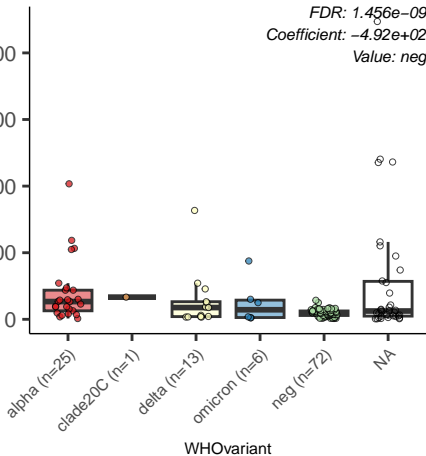
bacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae

FDR: $1.240e-09$
Coefficient: $-3.06e+03$
Value: neg

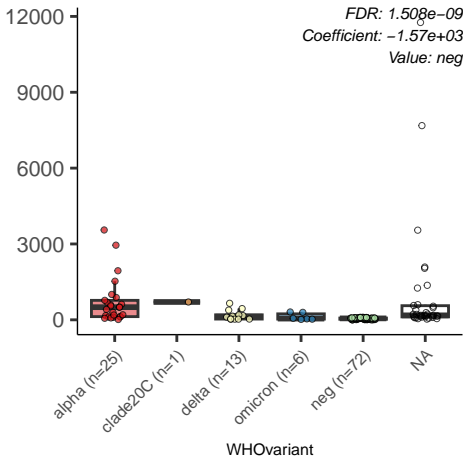


o__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__Anapl

FDR: 1.456e-09
Coefficient: -4.92e+02
Value: neg

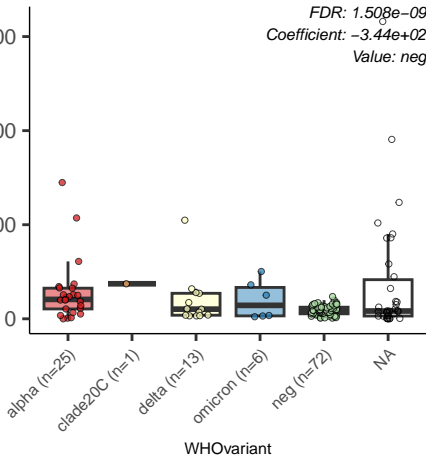


Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

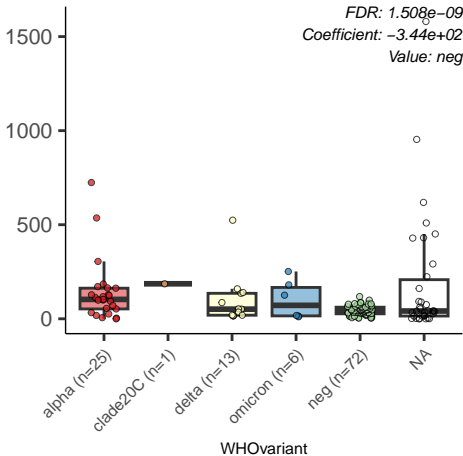


ria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flav

FDR: 1.508e-09
Coefficient: -3.44e+02
Value: neg

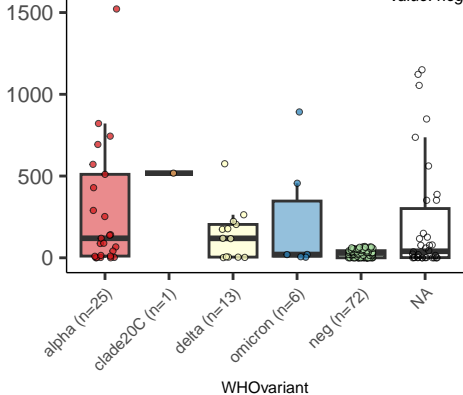


acteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteri

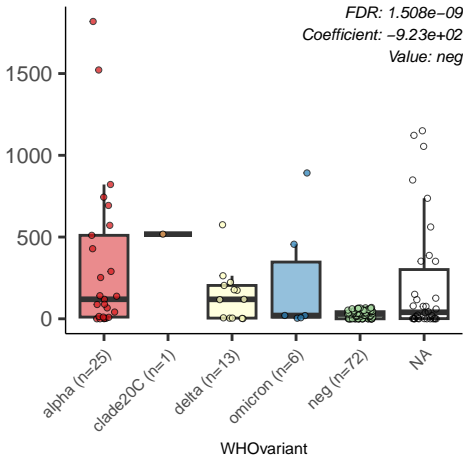


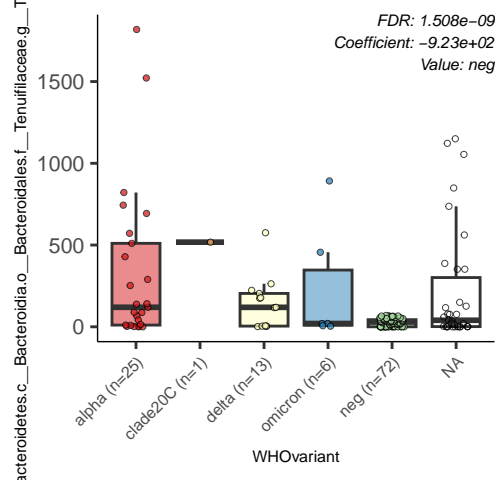
d_Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__

FDR: $1.508e-09$
Coefficient: $-9.23e+02$
Value: neg



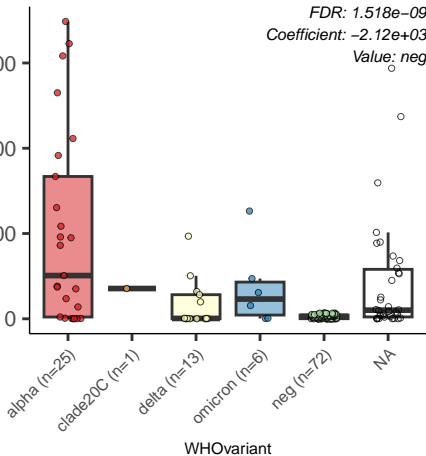
bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Tenu

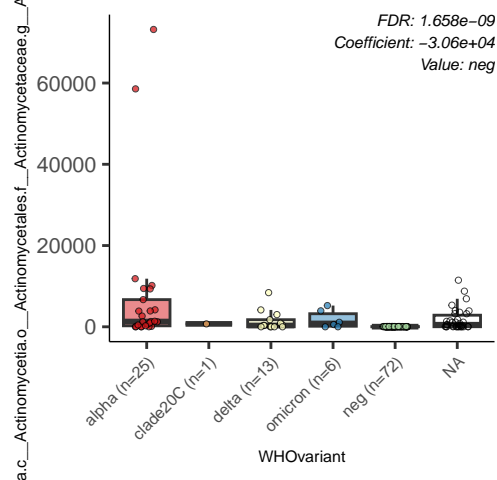




bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae.g

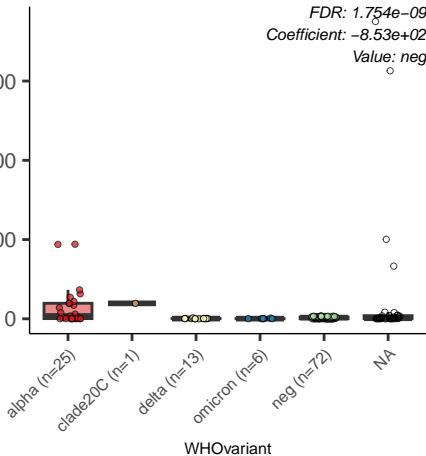
FDR: 1.518e-09
Coefficient: -2.12e+03
Value: neg



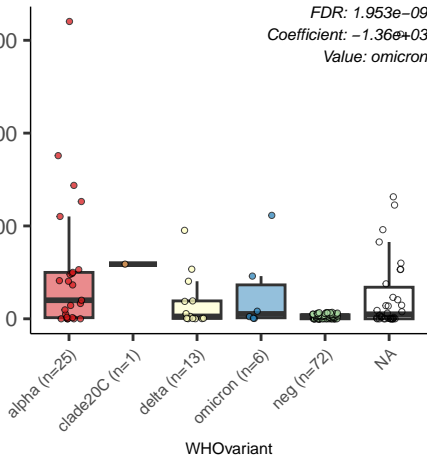


Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Cor

FDR: $1.754e-09$
Coefficient: $-8.53e+02$
Value: neg



FDR: $1.953e-09$
Coefficient: $-1.36e+03$
Value: omicron

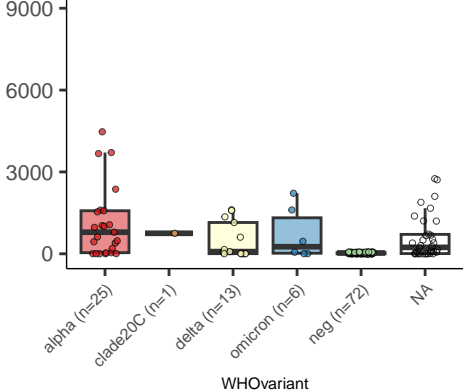


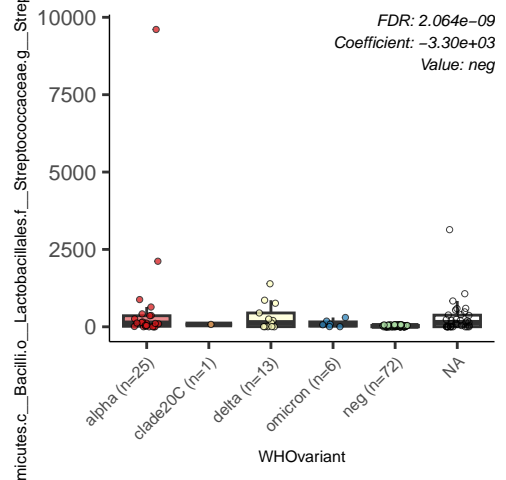
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

FDR: 1.972e-09

Coefficient: -3.52e+03

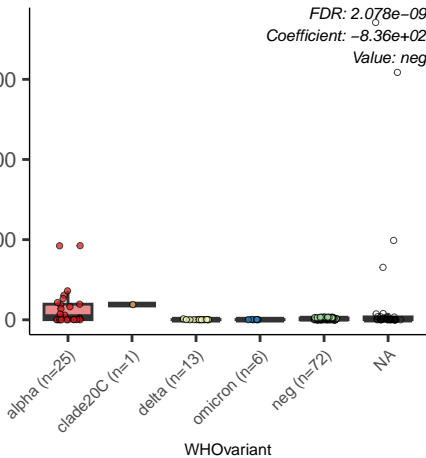
Value: delta



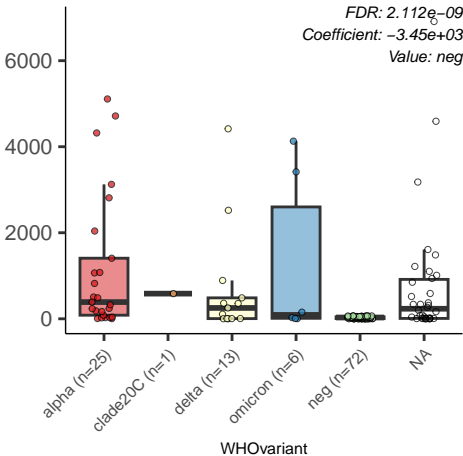


Betaproteobacteria.o__Burkholderiales.f__Comamonadaceae.g

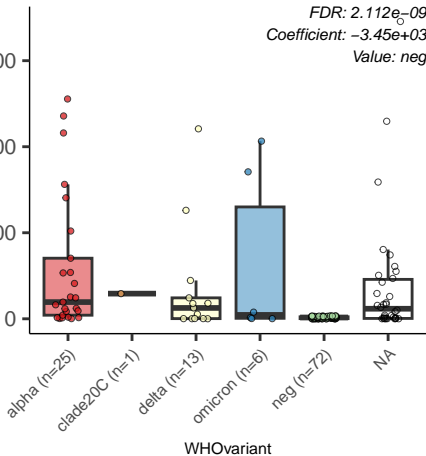
FDR: $2.078e-09$
Coefficient: $-8.36e+02$
Value: neg

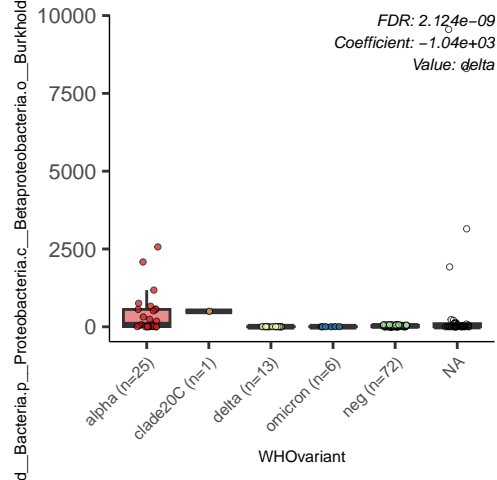


bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Peptostrept

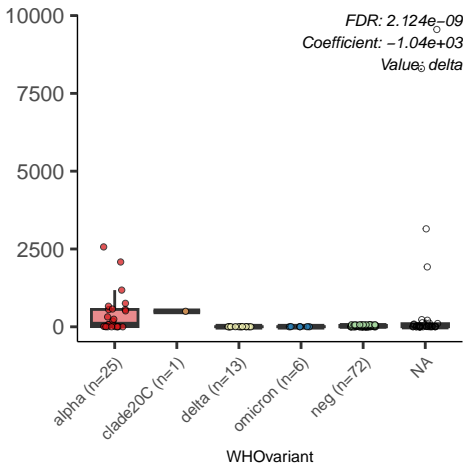


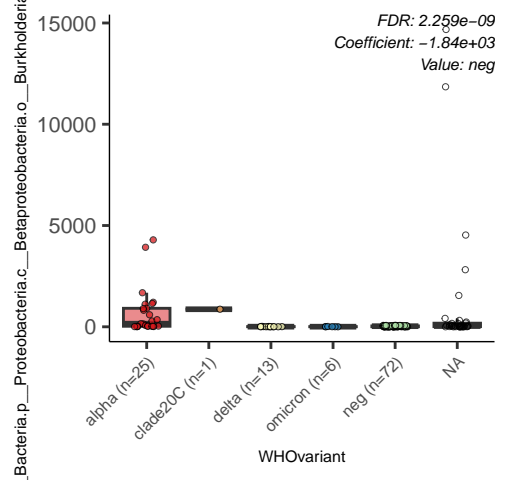
FDR: $2.112e-09$
Coefficient: $-3.45e+03$
Value: neg





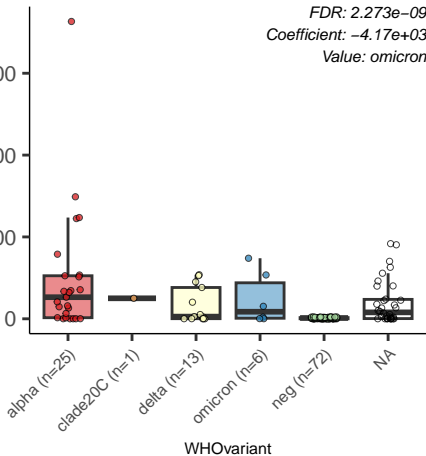
p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g__lr



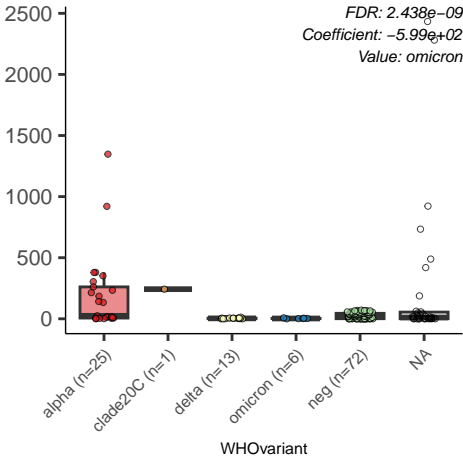


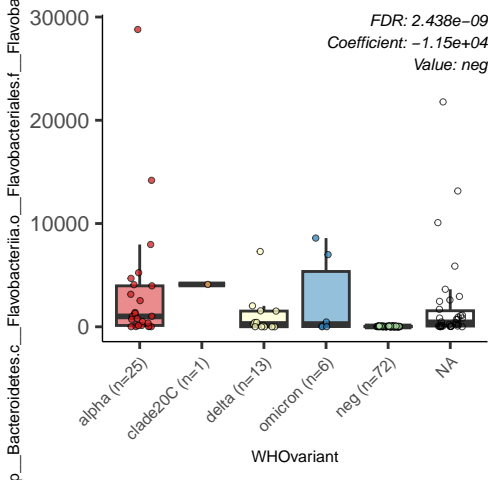
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

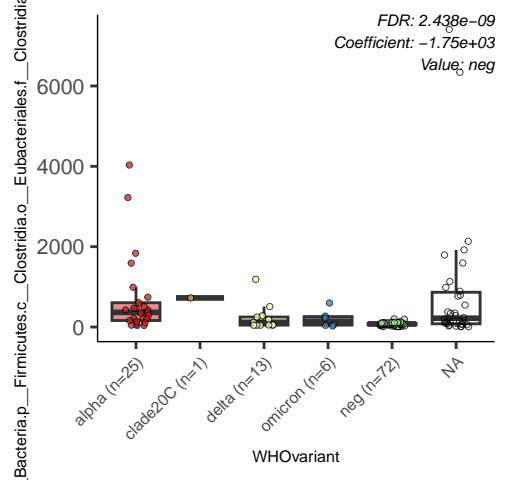
FDR: 2.273e-09
Coefficient: -4.17e+03
Value: omicron



c__Alphaproteobacteria.o__Hyphomicrobiales.f__Nitrobacteraceae.

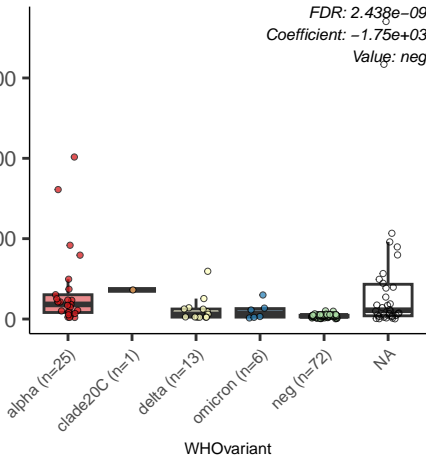


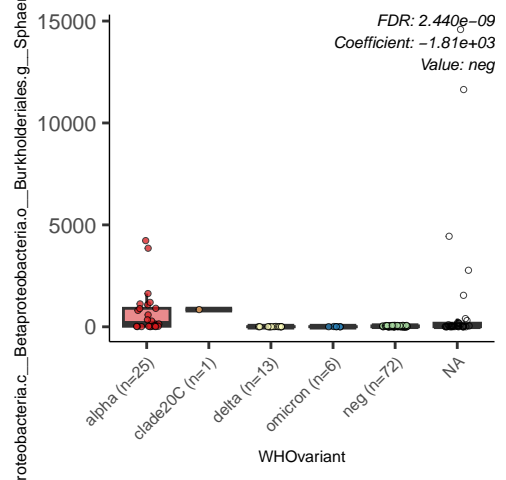




Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Ha

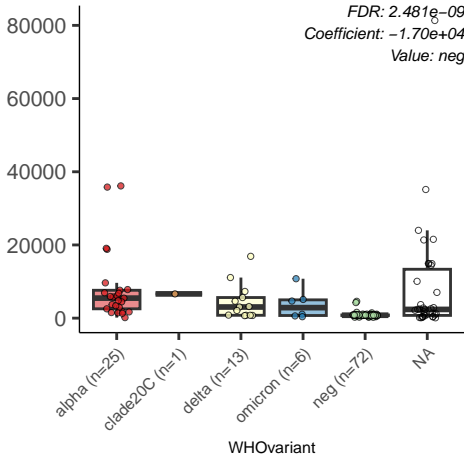
FDR: $2.438e-09$
Coefficient: $-1.75e+03$
Value: neg

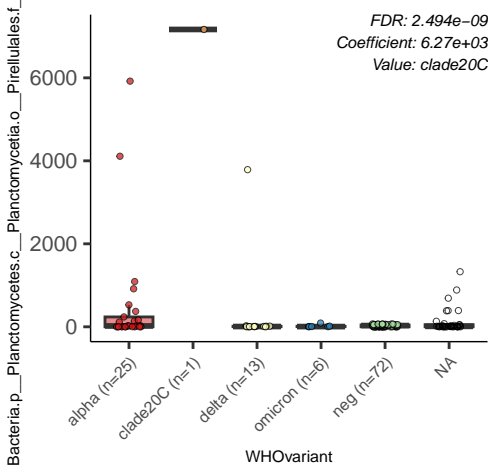


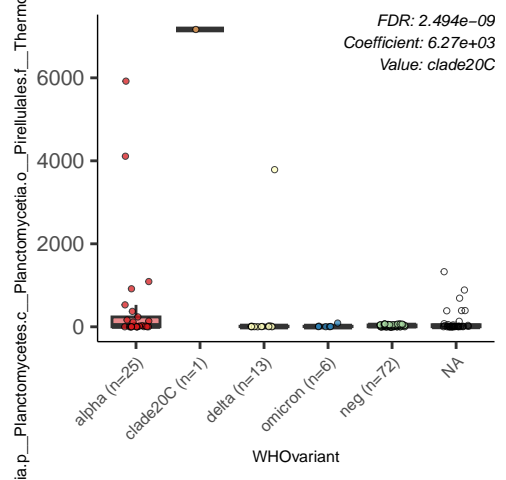


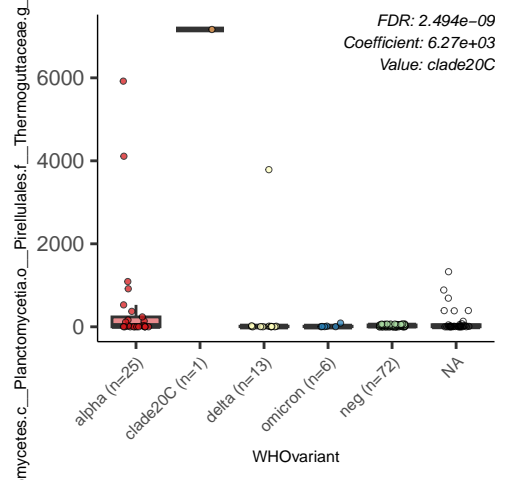
bacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellace

FDR: 2.481×10^{-9}
Coefficient: -1.70×10^4
Value: neg

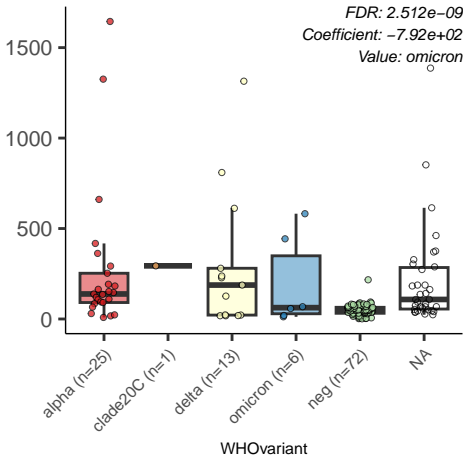






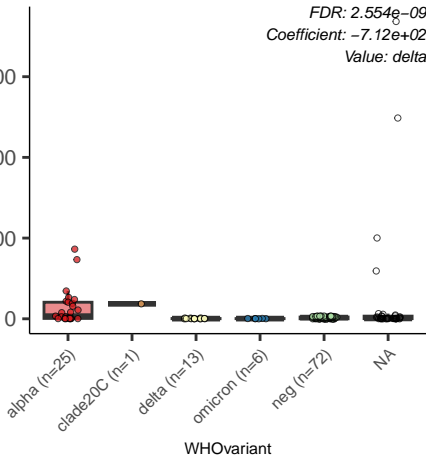


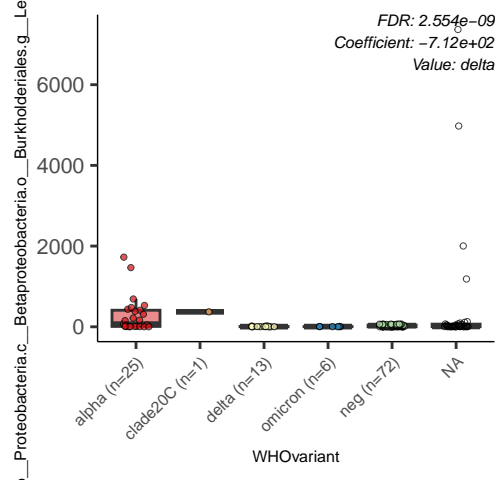
a.p__Actinobacteria.c__Actinomycetia.o__Corynebacteriales.f__No



__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder

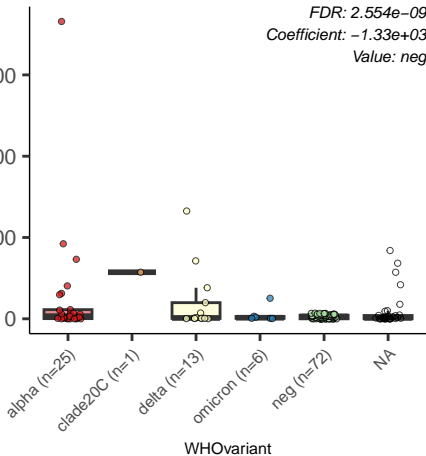
$FDR: 2.554e-09$
 $Coefficient: -7.12e+02$
 $Value: delta$

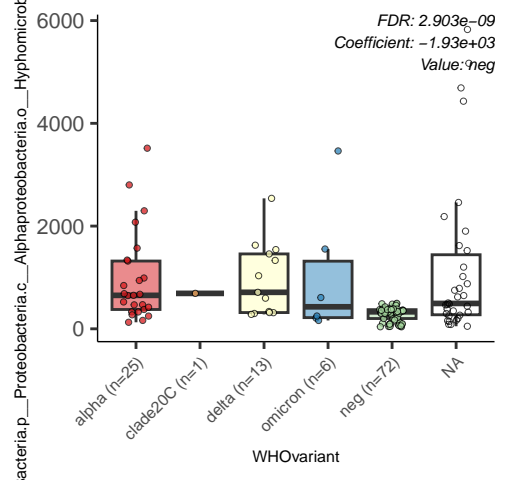




Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__A

FDR: 2.554e-09
Coefficient: -1.33e+03
Value: neg





d__Bacteria.p__Cyanobacteria.o__Pseudanabaena

FDR: $2.903e-09$
Coefficient: $-4.60e+03$
Value: neg

10000

5000

0

alpha (n=25)

clade20C (n=1)

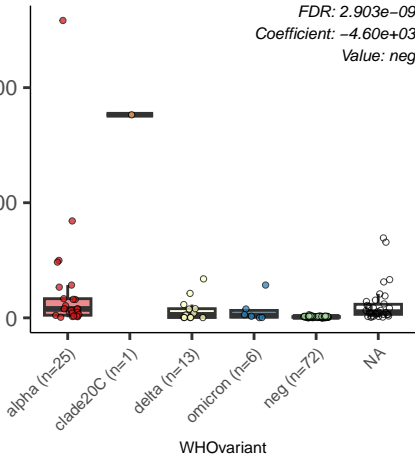
delta (n=13)

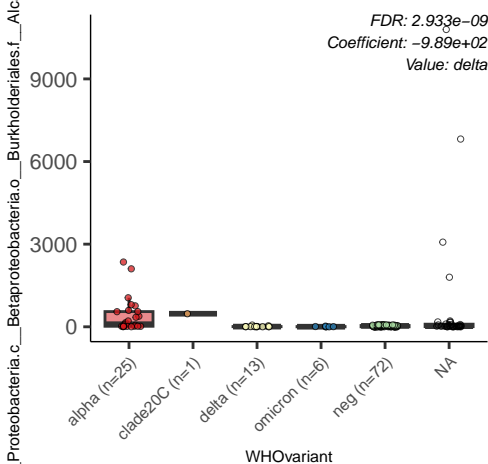
omicron (n=6)

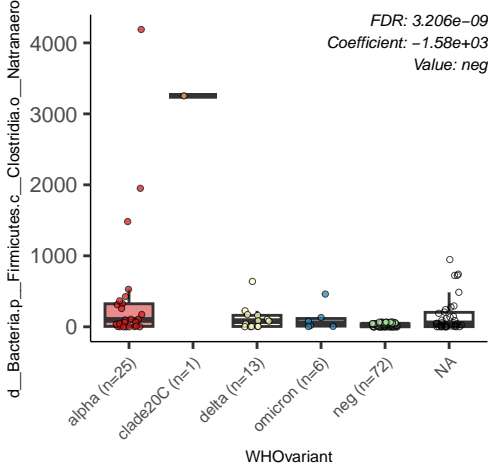
neg (n=72)

NA

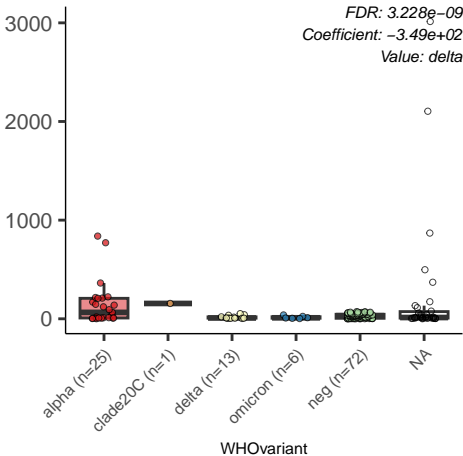
WHOvariant

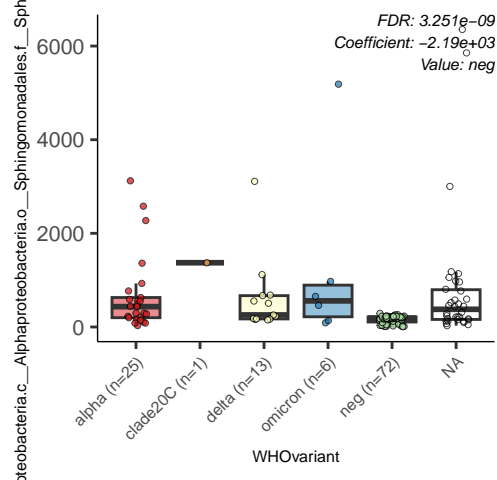




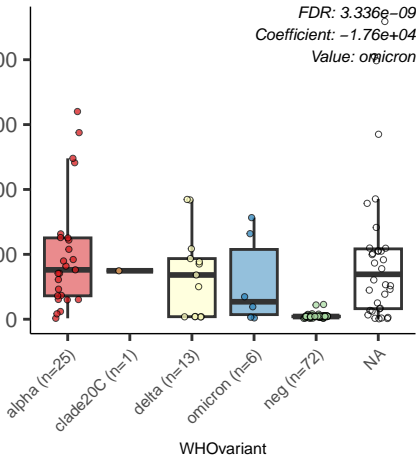


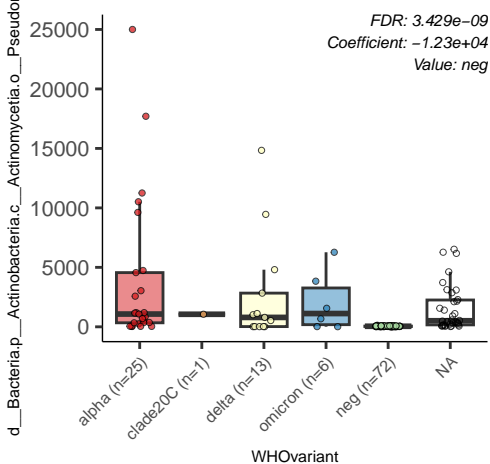
a.p._Proteobacteria.c_Alphaproteobacteria.o_Hyphomicrobiales.



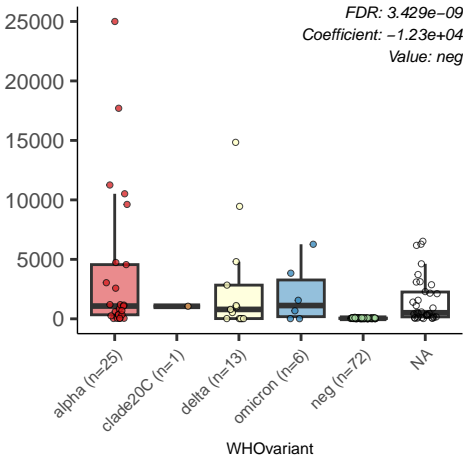


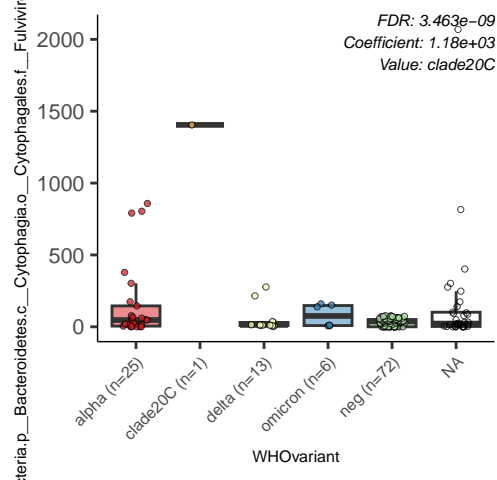
Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridia





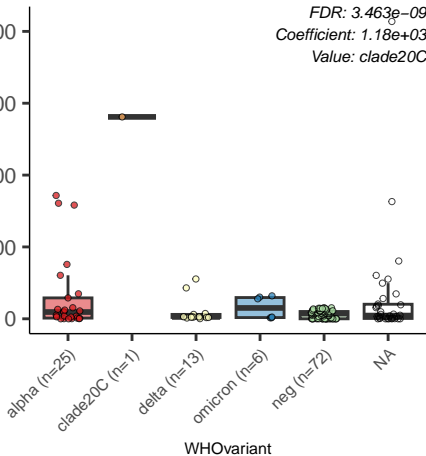
acteria.p_Actinobacteria.c_Actinomycetia.o_Pseudonocardiales.f



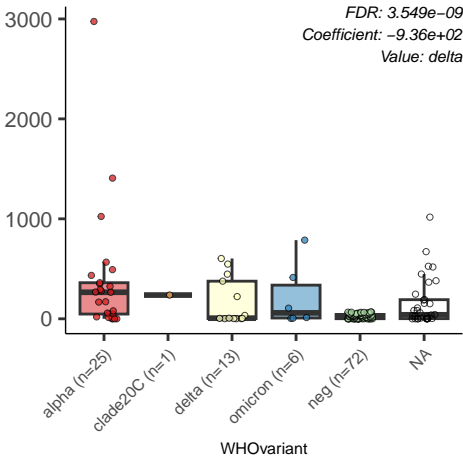


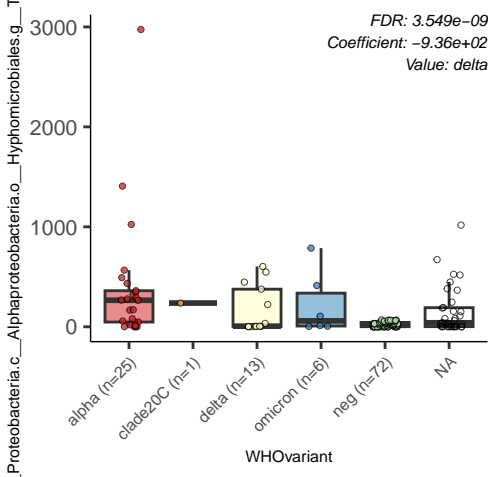
acteroidetes.c__Cytophagia.o__Cytophagales.f__Fulvvirgaceae.g

FDR: $3.463e-09$
Coefficient: $1.18e+03$
Value: clade20C

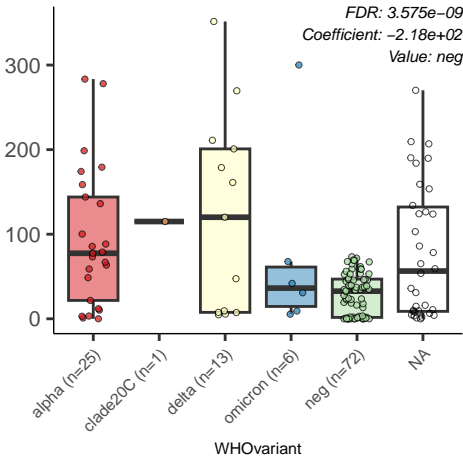


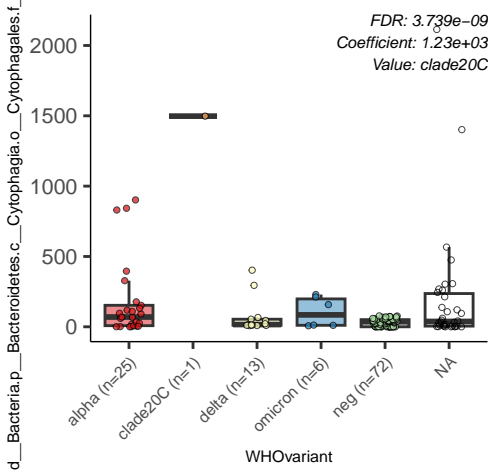
bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrob





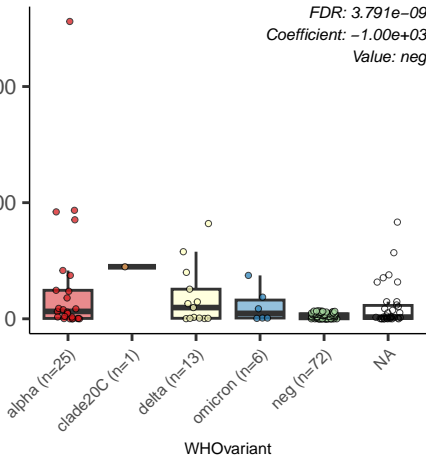
__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Planococcaceae





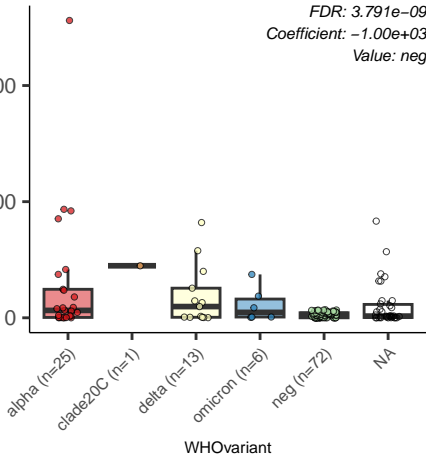
cteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira

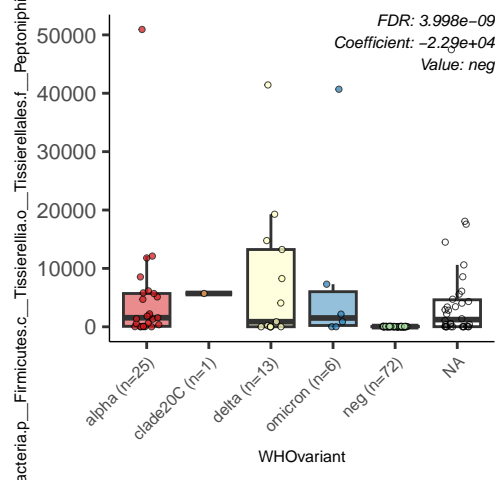
FDR: 3.791e-09
Coefficient: -1.00e+03
Value: neg

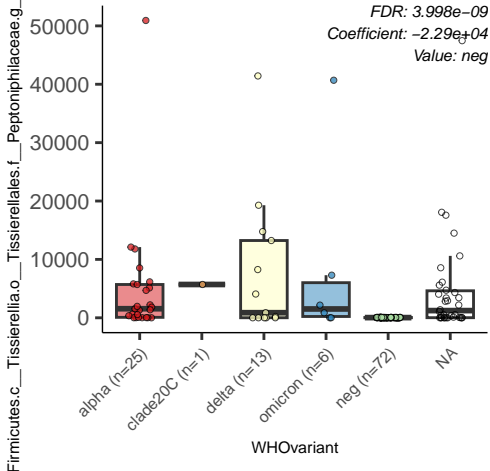


icutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Magne

FDR: 3.791e-09
Coefficient: -1.00e+03
Value: neg

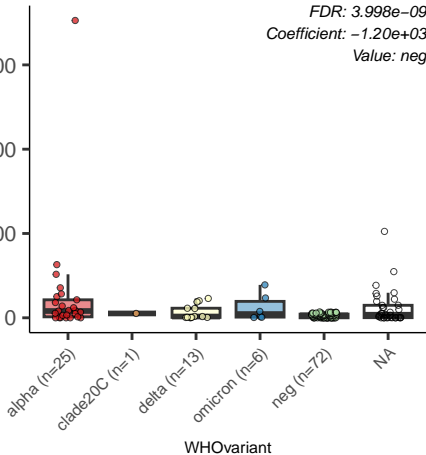






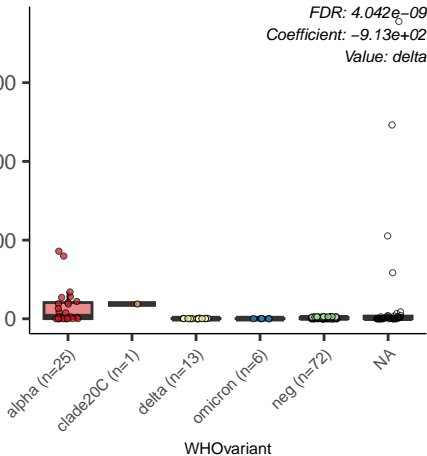
micutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Ru

FDR: 3.998e-09
Coefficient: -1.20e+03
Value: neg



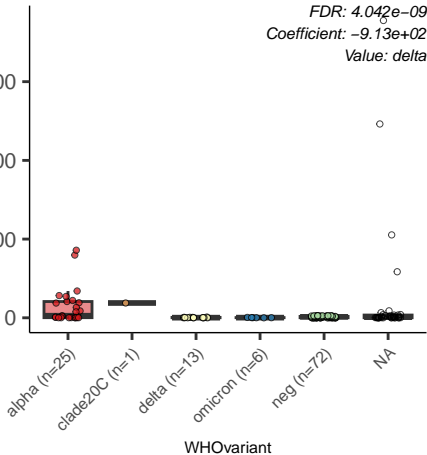
Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

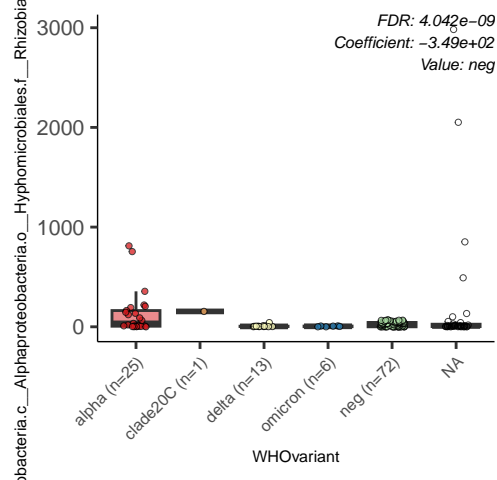
FDR: 4.042×10^{-9}
Coefficient: -9.13×10^2
Value: delta



Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g__Ideo

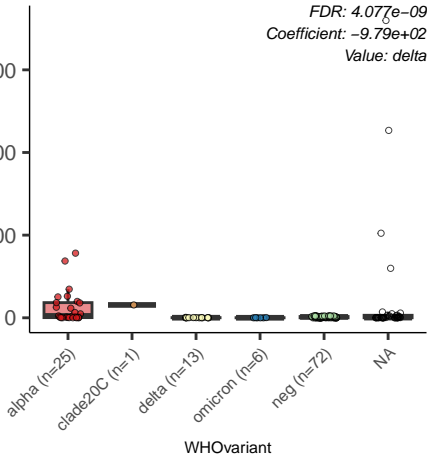
FDR: $4.042e-09$
Coefficient: $-9.13e+02$
Value: delta



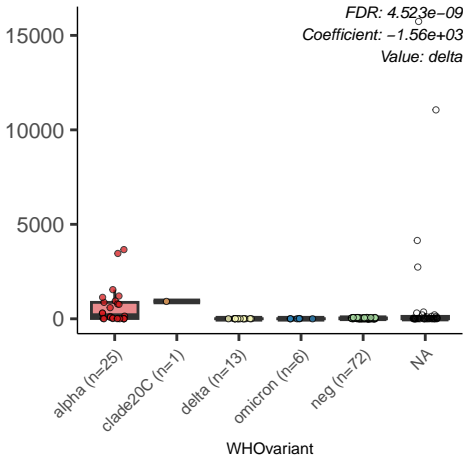


terial.c__Betaproteobacteria.o__Burkholderiales.f__Alcaligenaceae.g__

FDR: 4.077×10^{-9}
Coefficient: -9.79×10^2
Value: delta

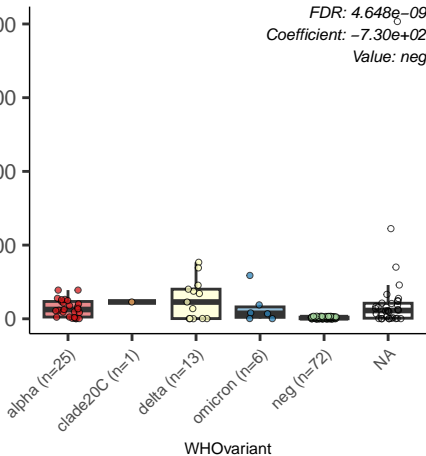


obacteria.c__Betaproteobacteria.o__Burkholderiales.f__Comamonad

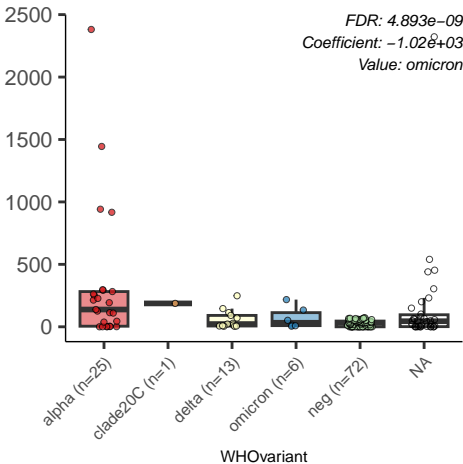


d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Listeriace

FDR: $4.648e-09$
Coefficient: $-7.30e+02$
Value: neg

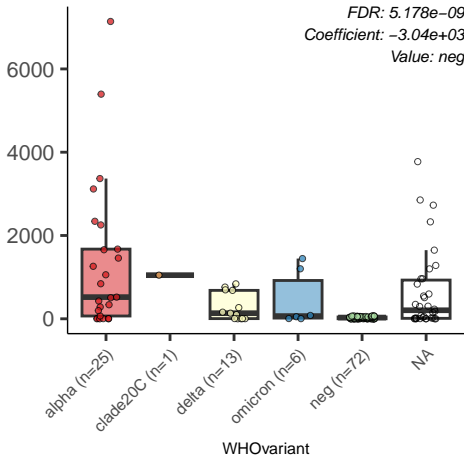


Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo



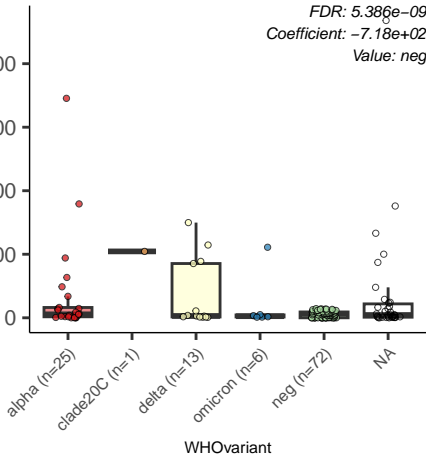
acteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospira

FDR: $5.178e-09$
Coefficient: $-3.04e+03$
Value: neg



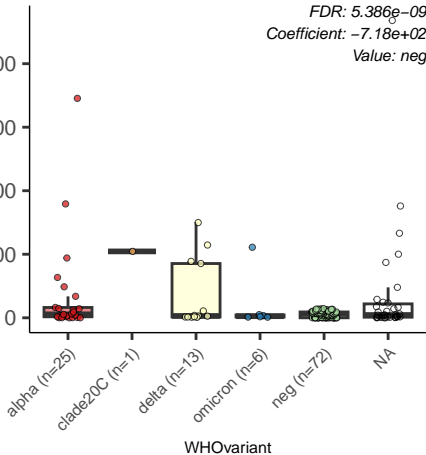
.p__Verrucomicrobia.c__Opitutae.o__Puniceicoccales.f__Puniceico

FDR: $5.386e-09$
Coefficient: $-7.18e+02$
Value: neg



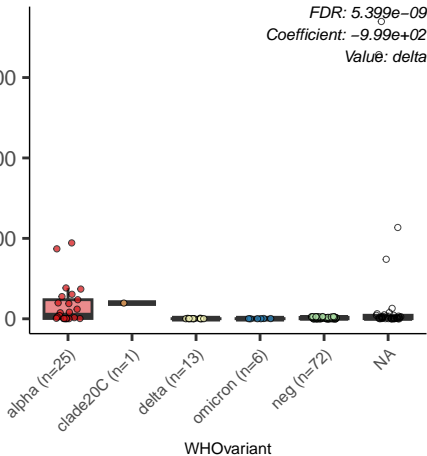
obia.c__Opitutae.o__Puniceicoccales.f__Puniceicoccaceae.g__Corr

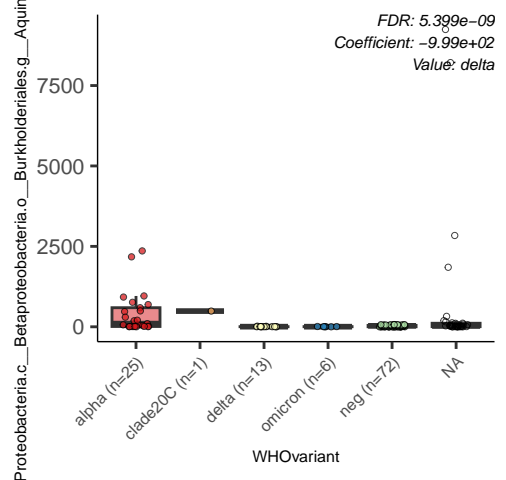
FDR: $5.386e-09$
Coefficient: $-7.18e+02$
Value: neg

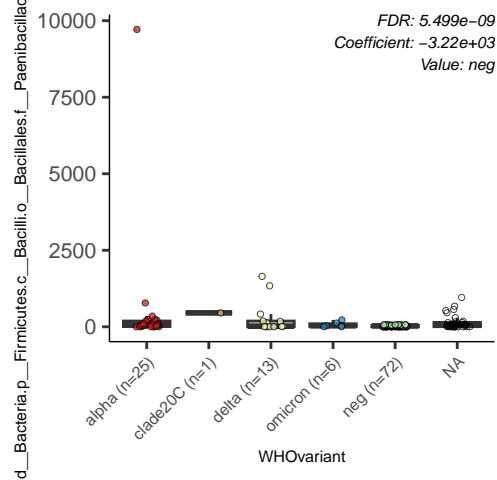


__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder

FDR: $5.399e-09$
Coefficient: $-9.99e+02$
Value: delta

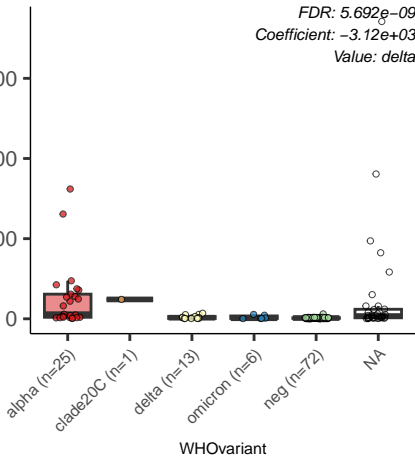


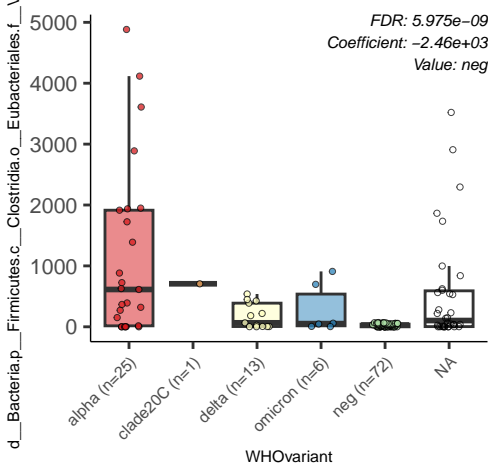


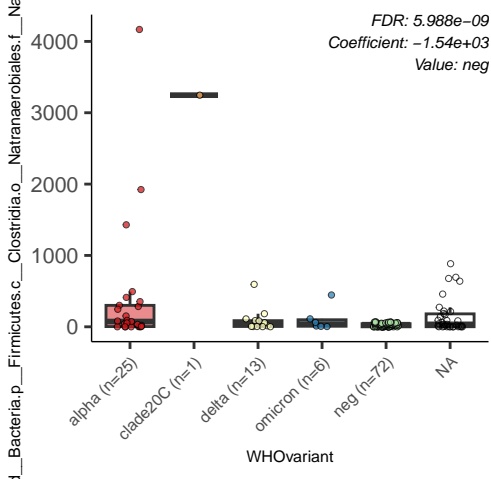


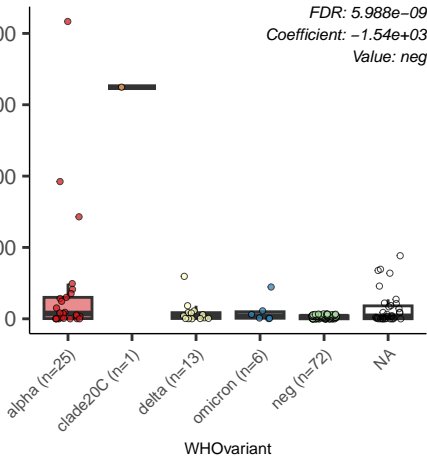
Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Nit

$FDR: 5.692e-09$
 $Coefficient: -3.12e+03$
 $Value: delta$

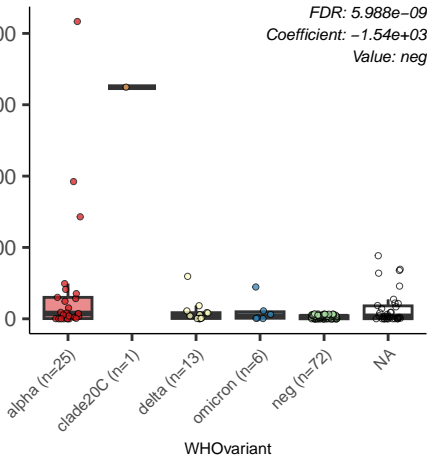


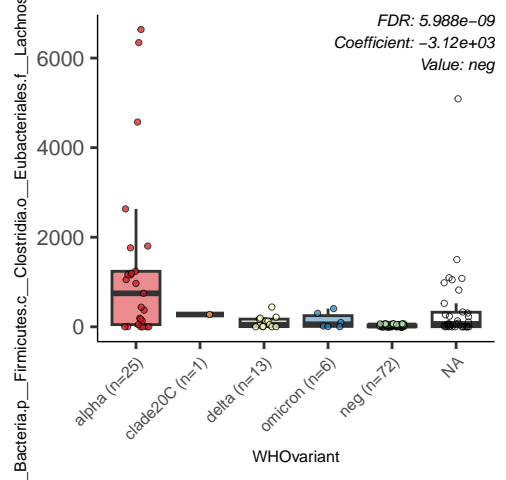




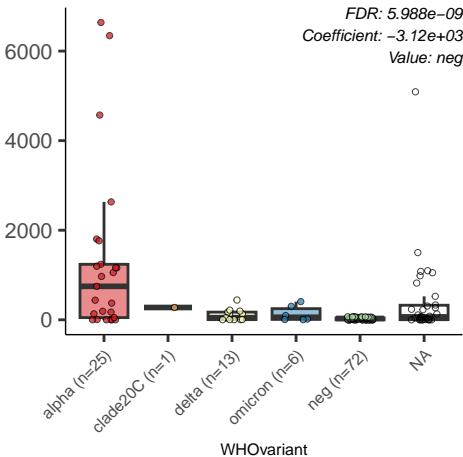


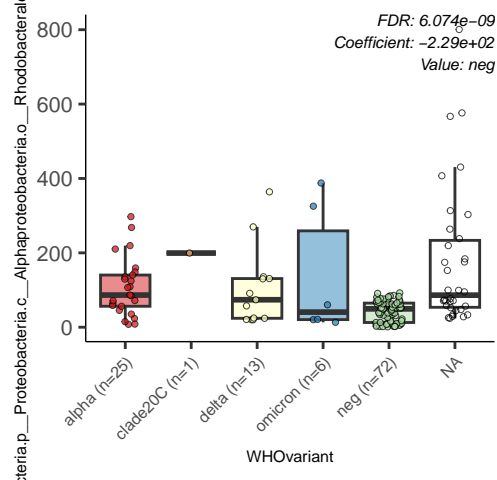
c__Clostridia.o__Natranaerobiales.f__Natranaerofabaceae.g__Natra





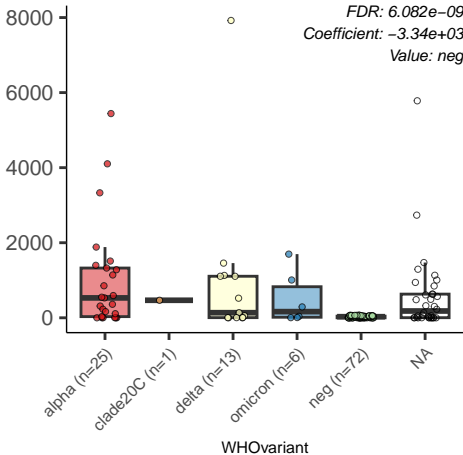
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g



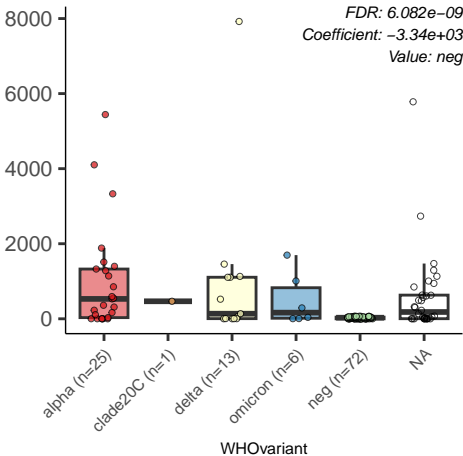


Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnos

FDR: $6.082e-09$
Coefficient: $-3.34e+03$
Value: neg

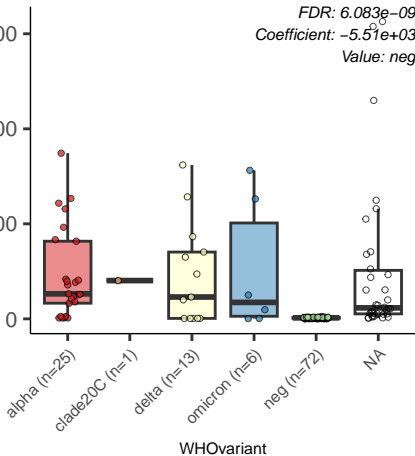


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

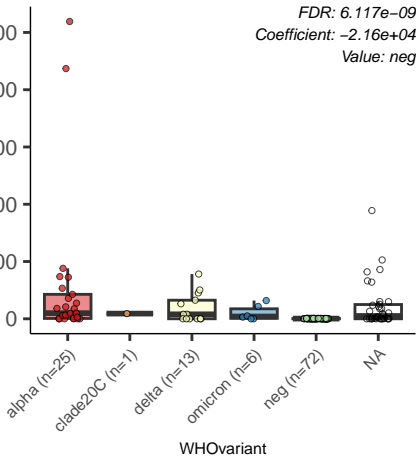


d__Bacteria.p__Proteobacteria.c__Deltaproteobacte

FDR: $6.083e-09$
Coefficient: $-5.51e+03$
Value: neg

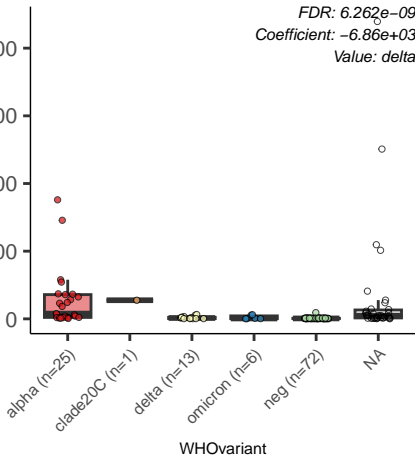


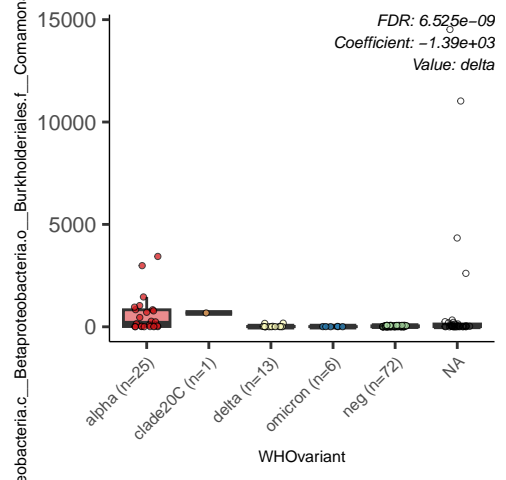
bacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae

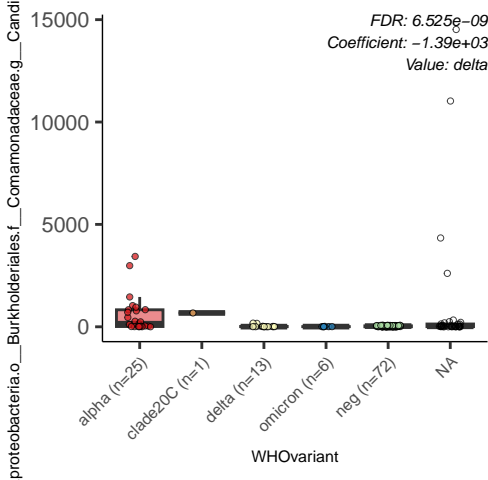


bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia

FDR: $6.262e-09$
Coefficient: $-6.86e+03$
Value: delta

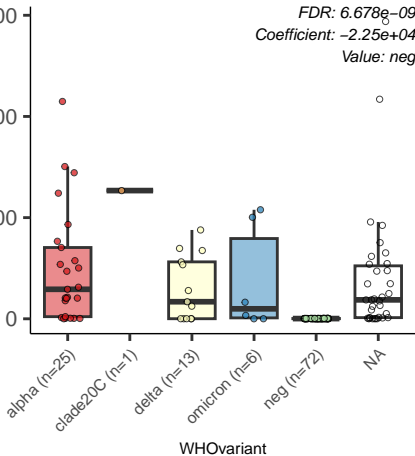






d_Bacteria.p_Tenericutes

FDR: $6.678e-09$
Coefficient: $-2.25e+04$
Value: neg



d_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Plancto

FDR: $6.766e-09$
Coefficient: $-4.97e+03$
Value: neg

10000

5000

0

alpha (n=25)

clade20C (n=1)

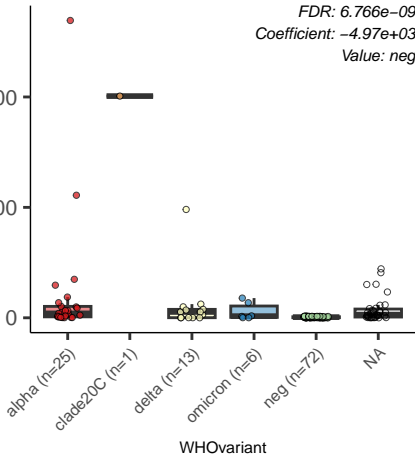
delta (n=13)

omicron (n=6)

neg (n=72)

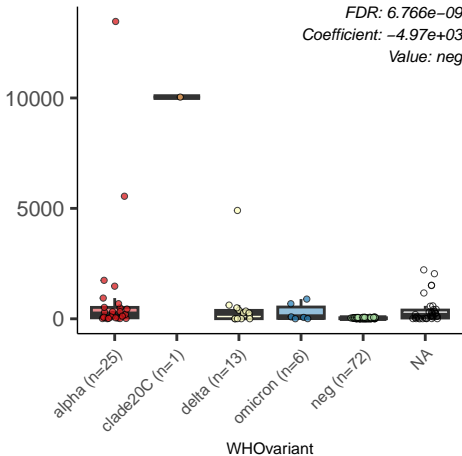
NA

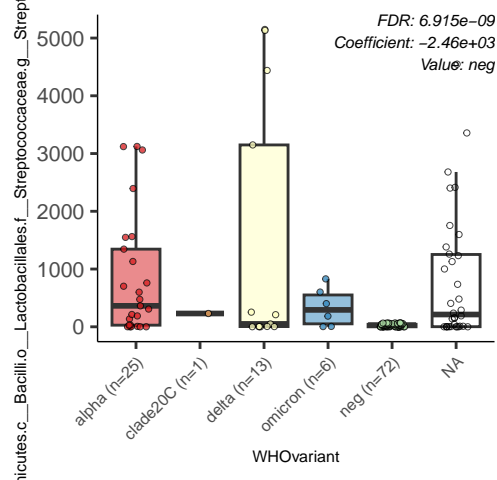
WHOvariant



bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetales

FDR: $6.766e-09$
Coefficient: $-4.97e+03$
Value: neg





a.p__Tenericutes.c__Mollicutes.o__Acholeplasma.f__Acholeplasma

1000

500

0

alpha (n=25)

clade20C (n=1)

delta (n=13)

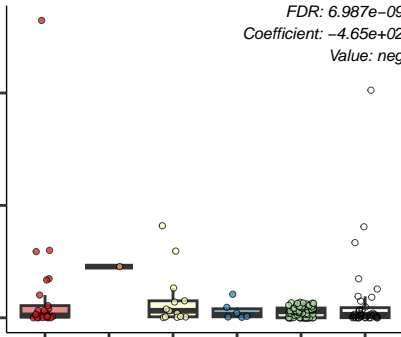
omicron (n=6)

neg (n=72)

NA

WHOvariant

FDR: $6.987e-09$
Coefficient: $-4.65e+02$
Value: neg



FDR: $6.987e-09$
Coefficient: $-4.65e+02$
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

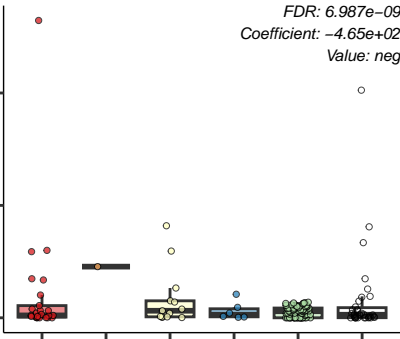
delta (n=13)

omicron (n=6)

neg (n=72)

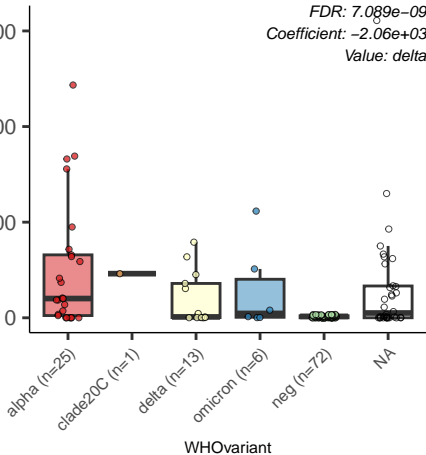
NA

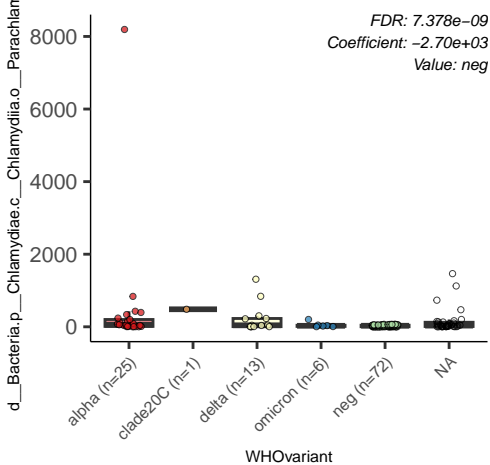
WHOvariant



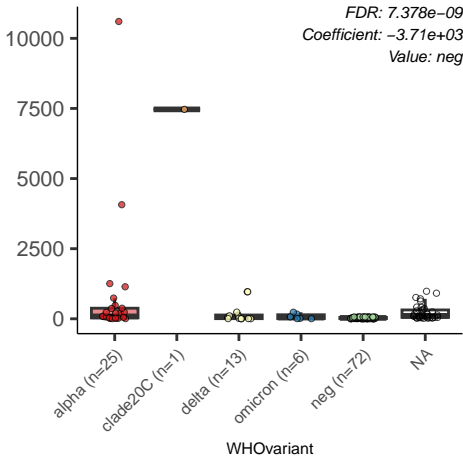
icutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Buty

FDR: $7.089e-09$
Coefficient: $-2.06e+03$
Value: delta

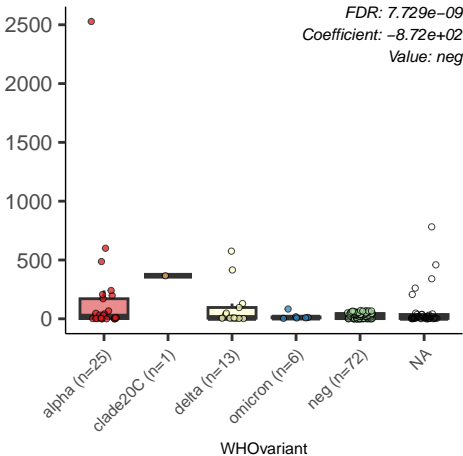




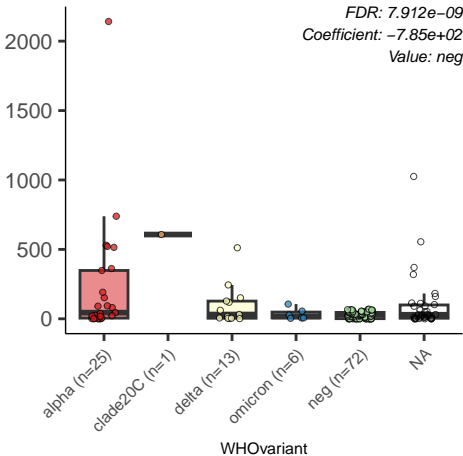
d__Bacteria.p__Cyanobacteria.o__Pseudanabaenales.f__Lept

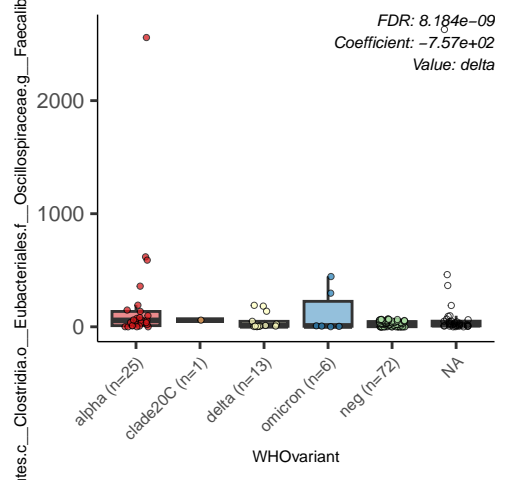


a.c._Thermoleophilia.o__Solirubrobacterales.f__Conexibacteraceae



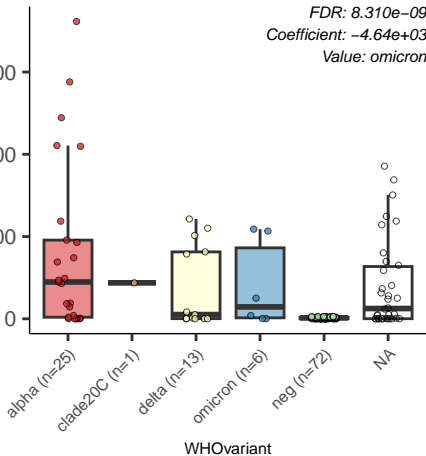
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo





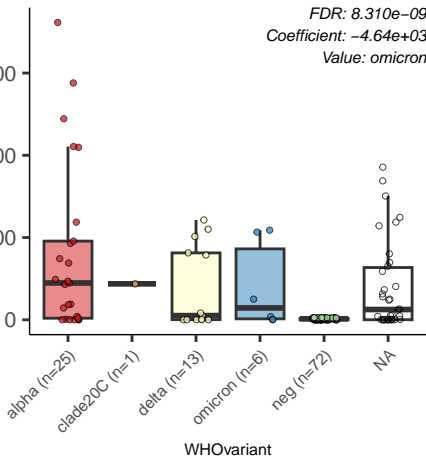
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

FDR: $8.310e-09$
Coefficient: $-4.64e+03$
Value: omicron



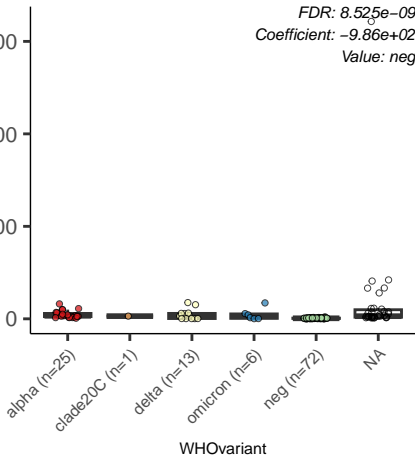
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__

FDR: 8.310e-09
Coefficient: -4.64e+03
Value: omicron



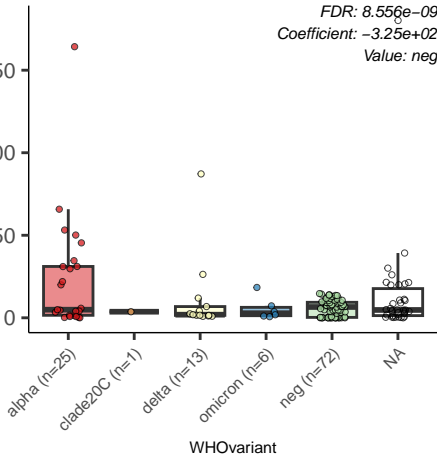
bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales

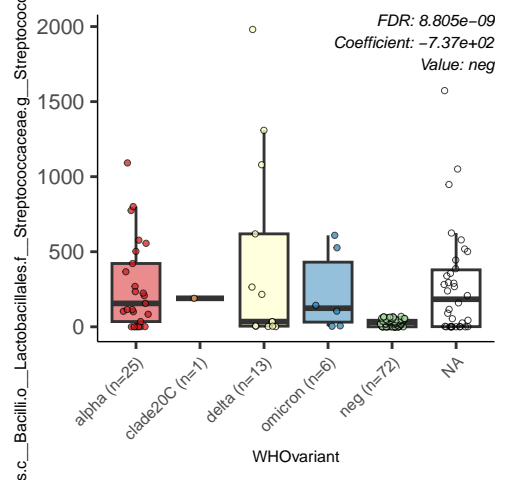
FDR: $8.525e-09$
Coefficient: $-9.86e+02$
Value: neg

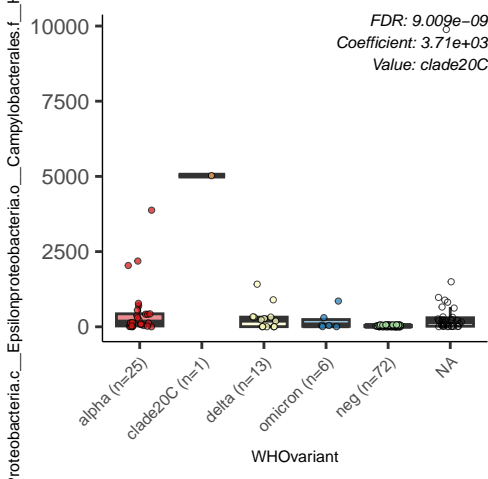


Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_Chryse

FDR: $8.556e-09$
Coefficient: $-3.25e+02$
Value: neg

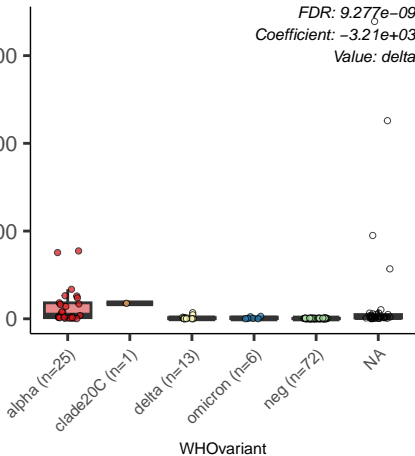


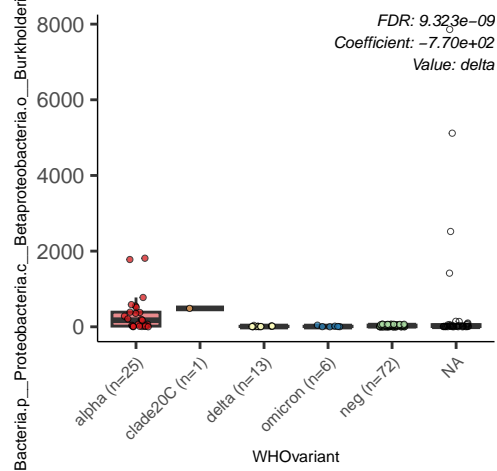




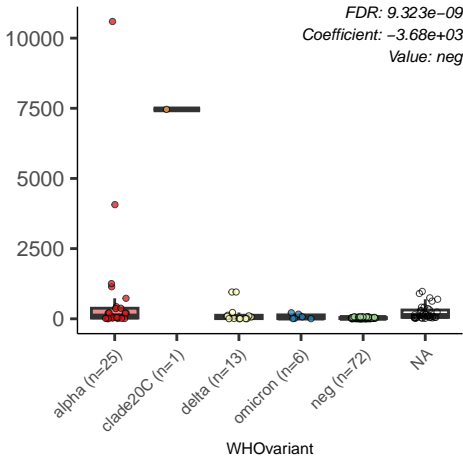
Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Com

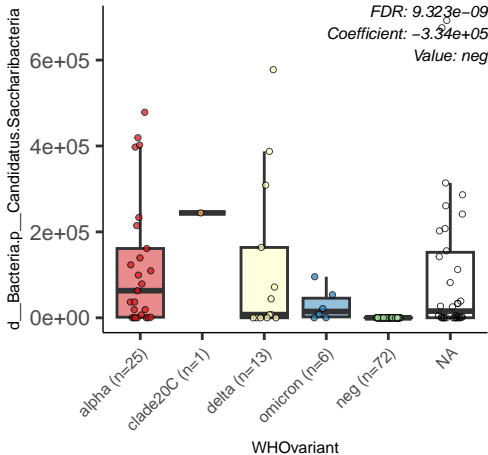
FDR: $9.277e-09$
Coefficient: $-3.21e+03$
Value: delta

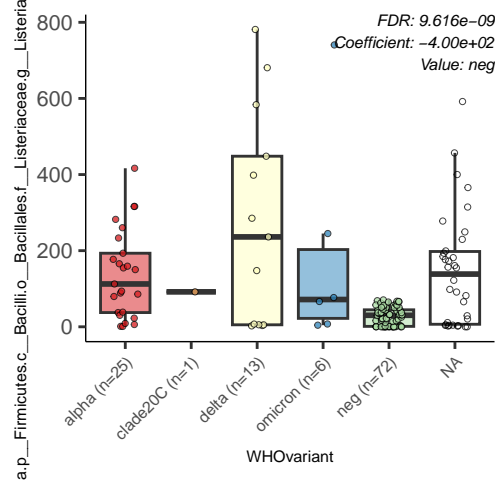


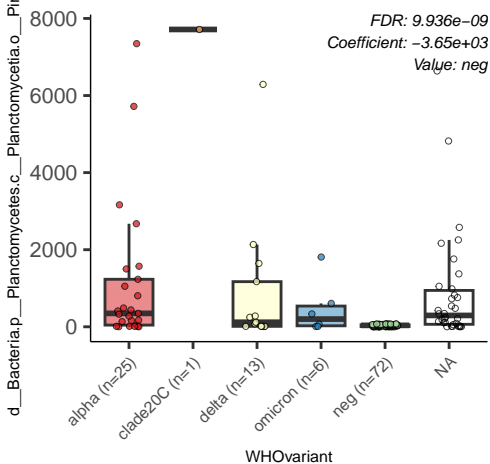


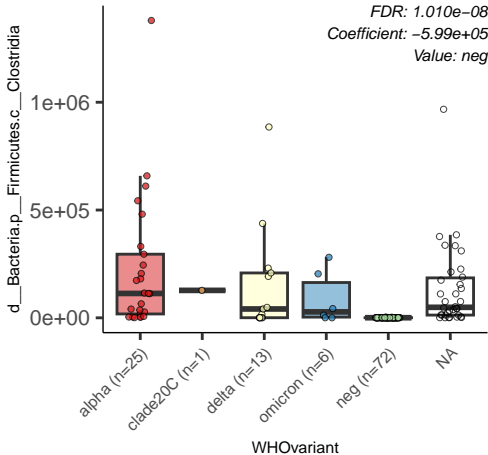
bacteria.p__Cyanobacteria.o__Pseudanabaenales.f__Leptolyngbya





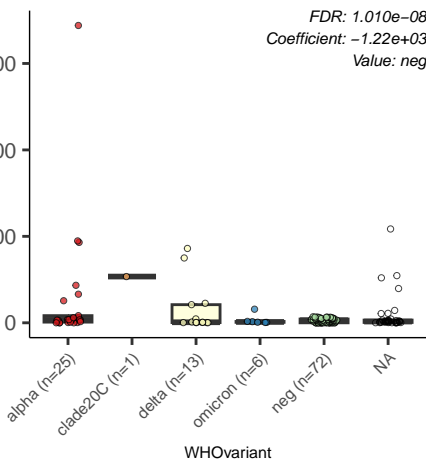


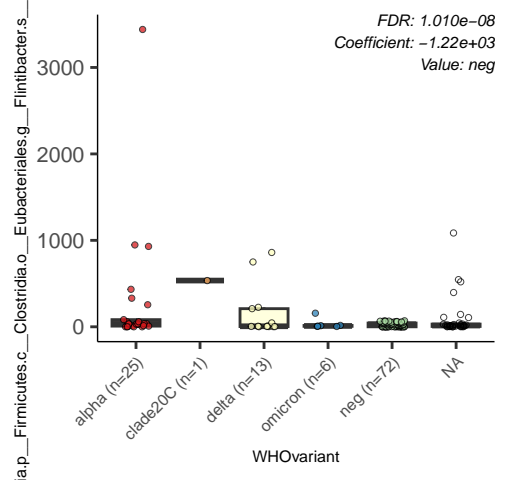




d_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.g

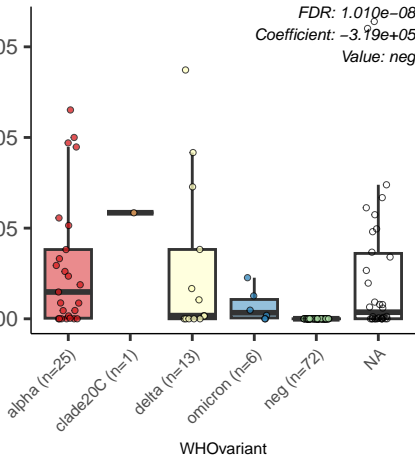
FDR: 1.010e-08
Coefficient: -1.22e+03
Value: neg



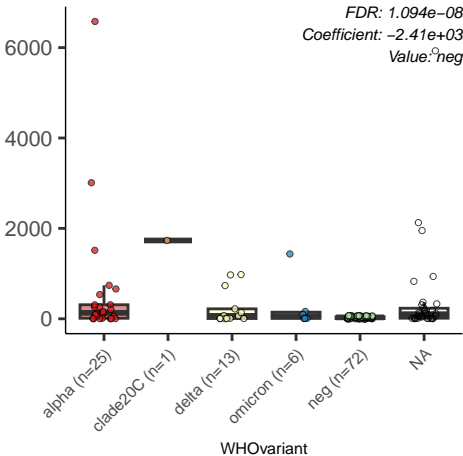


d__Bacteria.p__Candidatus.Saccharibacteria.c__Candidatus.Sa

FDR: $1.010e-08$
Coefficient: $-3.19e+05$
Value: neg

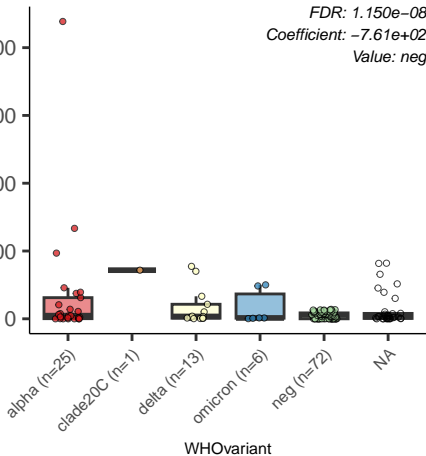


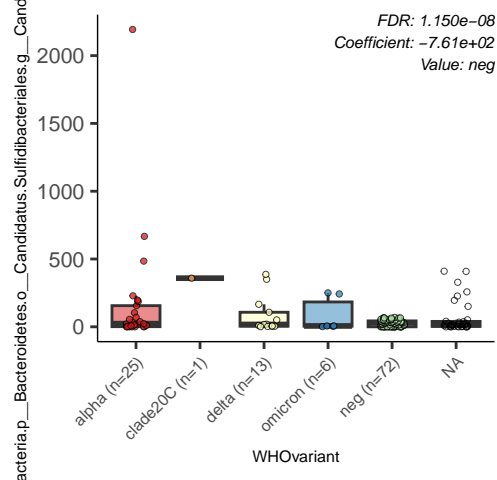
acteroidetes.c__Spingobacteriia.o__Spingobacteriales.f__Spingob



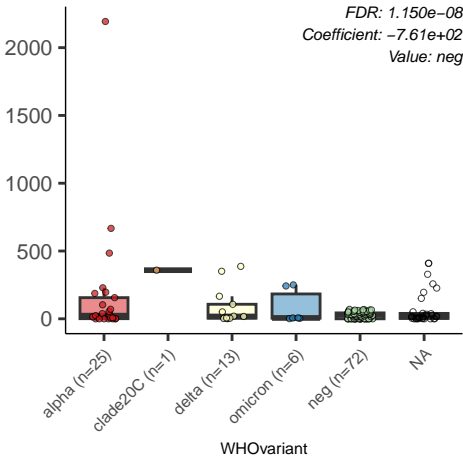
d__Bacteria.p__Bacteroidetes.o__Candidatus.Sulfidibac

FDR: $1.150e-08$
Coefficient: $-7.61e+02$
Value: neg



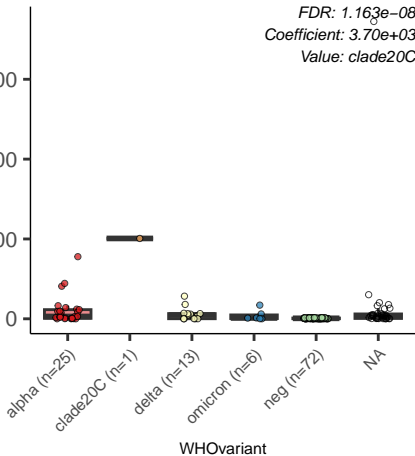


s.o___Candidatus.Sulfidibacteriales.g___Candidatus.Sulfidibacterium.



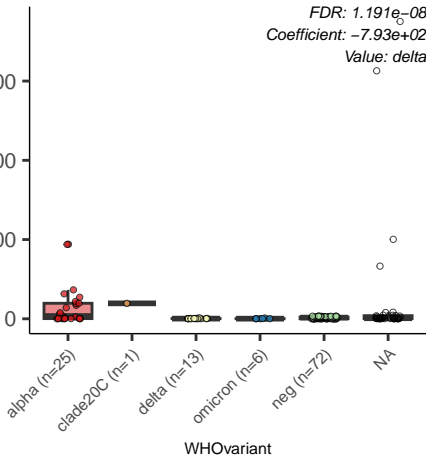
eria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacter

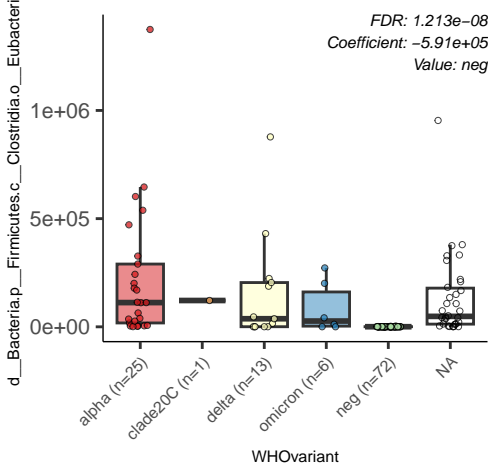
FDR: 1.163×10^{-8}
Coefficient: 3.70×10^3
Value: clade20C



Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Cor

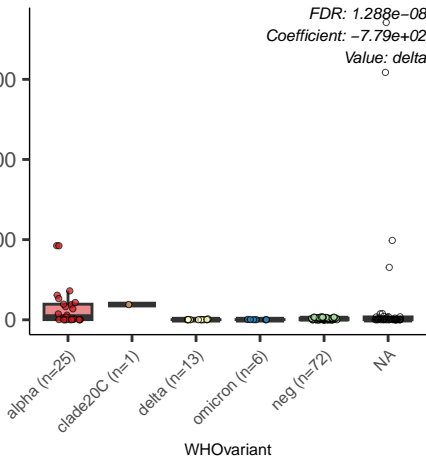
FDR: $1.191e-08$
Coefficient: $-7.93e+02$
Value: delta

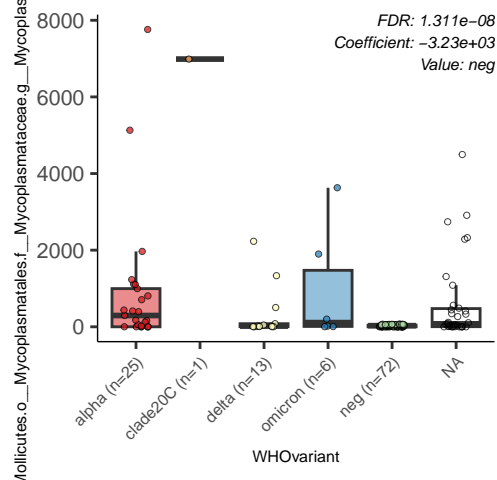




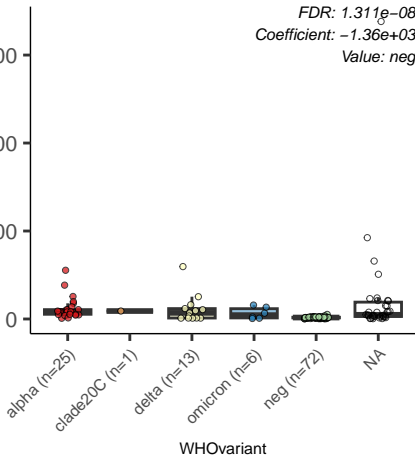
Betaproteobacteria.o__Burkholderiales.f__Comamonadaceae.g

FDR: $1.288e-08$
Coefficient: $-7.79e+02$
Value: delta





FDR: 1.311e-08
Coefficient: -1.36e+03
Value: neg



d_Bacteria.p__Chlorobi

FDR: 1.317e-08

Coefficient: -3.09e+03

Value: neg

alpha (n=25)

clade20C (n=1)

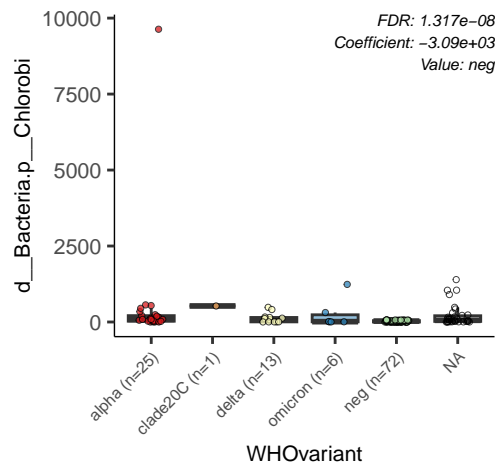
delta (n=13)

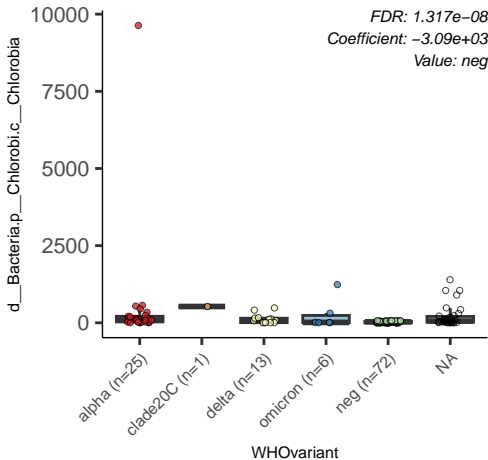
omicron (n=6)

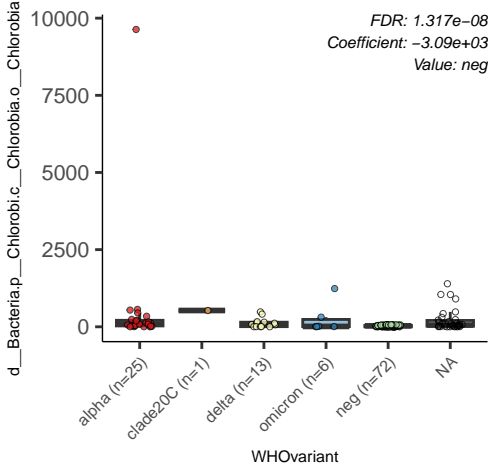
neg (n=72)

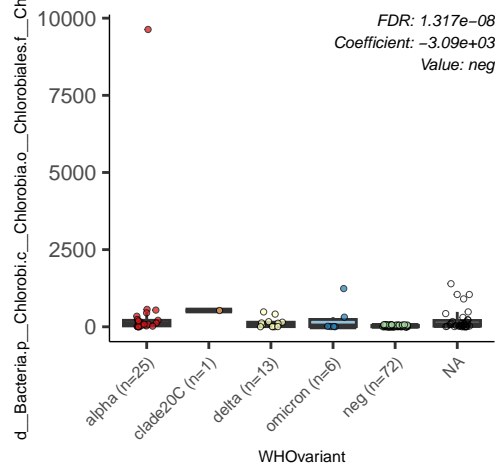
NA

WHOvariant



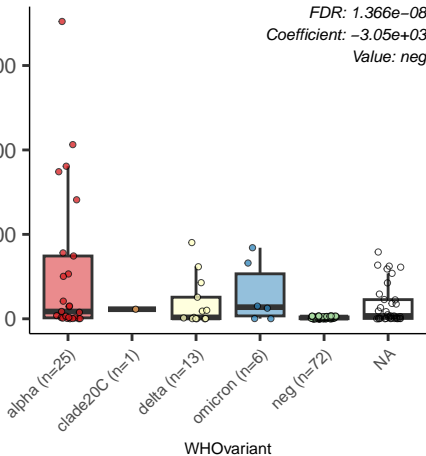






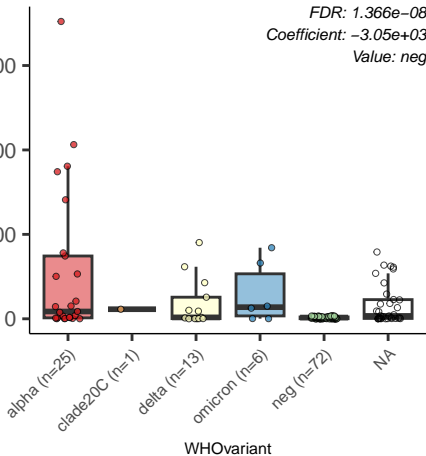
ia.p__Actinobacteria.c__Actinomycetia.o__Micrococcales.f__Micro

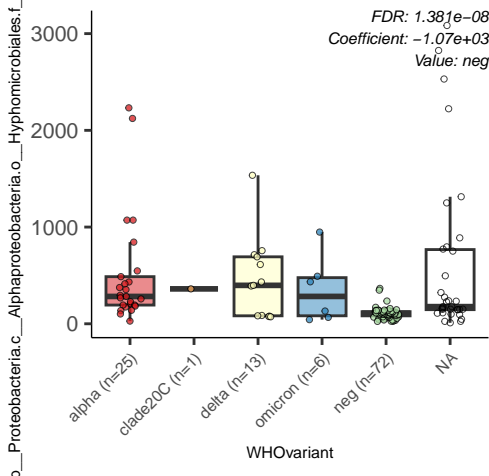
FDR: 1.366e-08
Coefficient: -3.05e+03
Value: neg



eria.c_Actinomycetia.o_Micrococcales.f_Micrococcaceae.g_Au

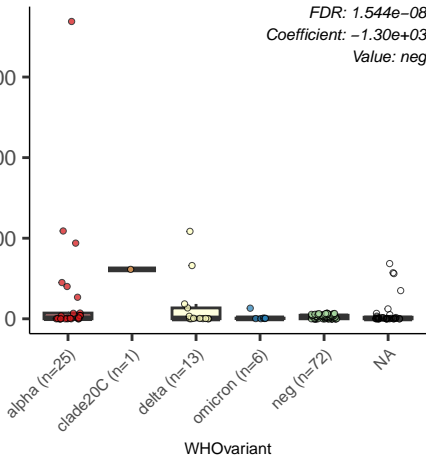
FDR: $1.366e-08$
Coefficient: $-3.05e+03$
Value: neg





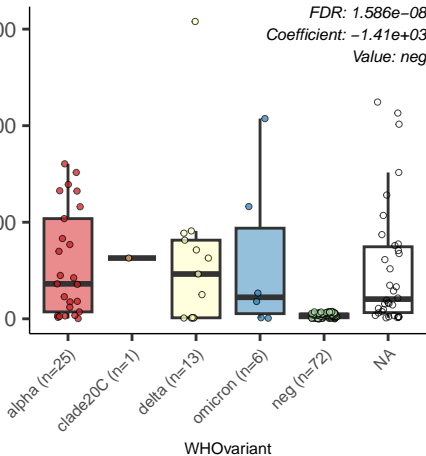
irmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Lact

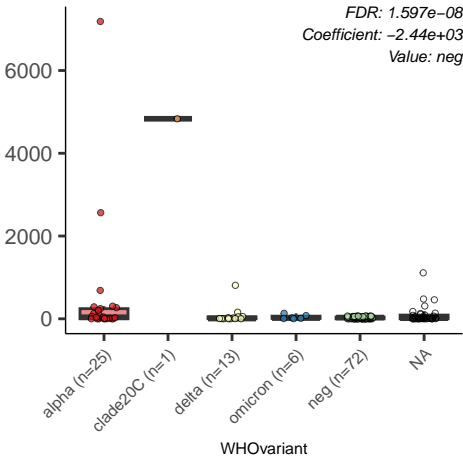
FDR: 1.544e-08
Coefficient: -1.30e+03
Value: neg

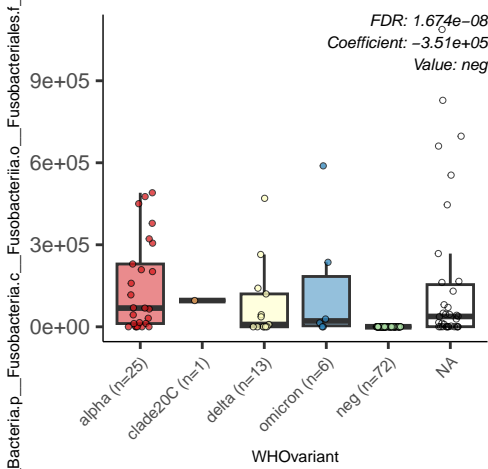


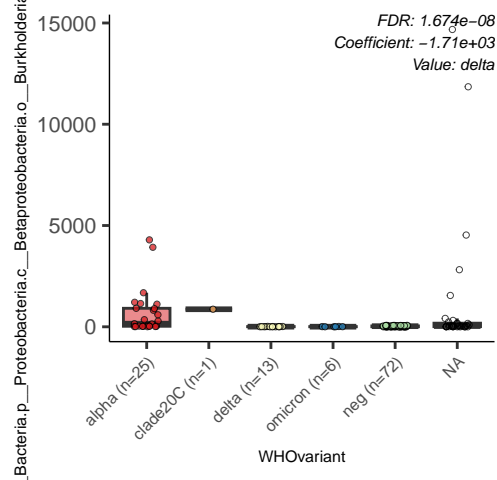
d__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerob

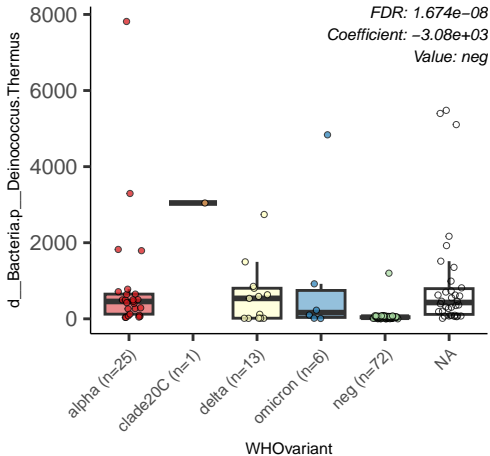
FDR: $1.586e-08$
Coefficient: $-1.41e+03$
Value: neg

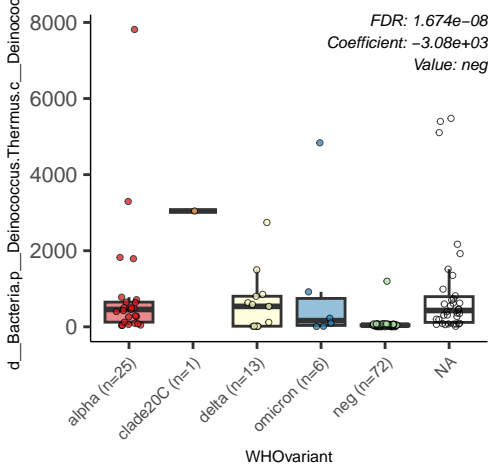


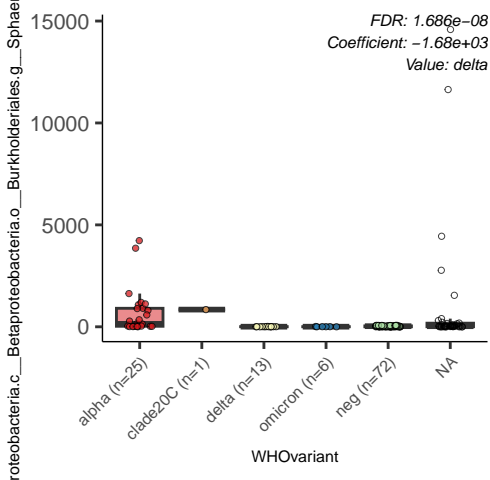




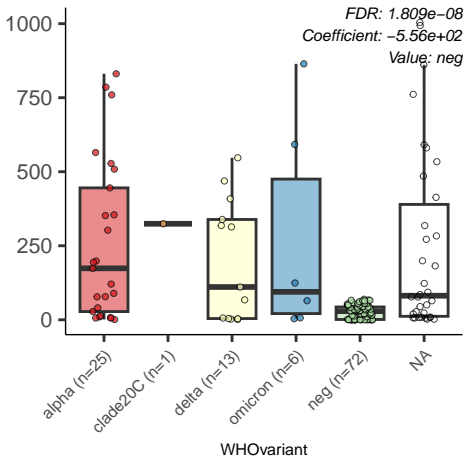






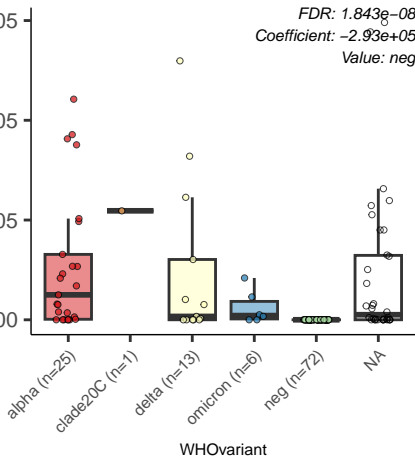


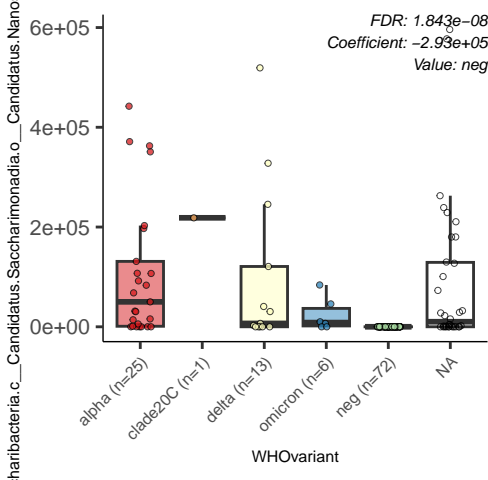
eria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterales.f__T

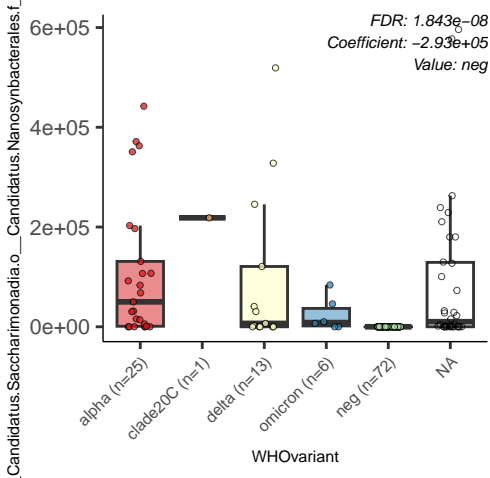


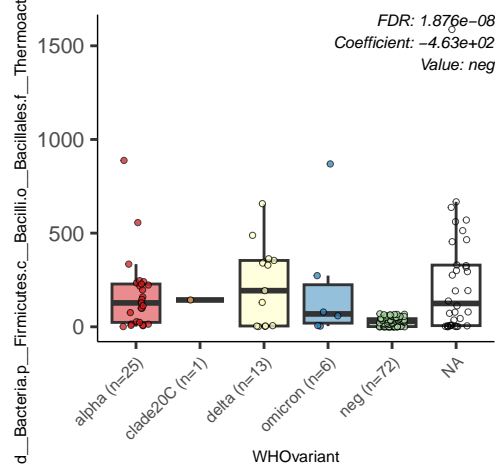
Candidatus.Saccharibacteria.c__Candidatus.Saccharimonadia.o

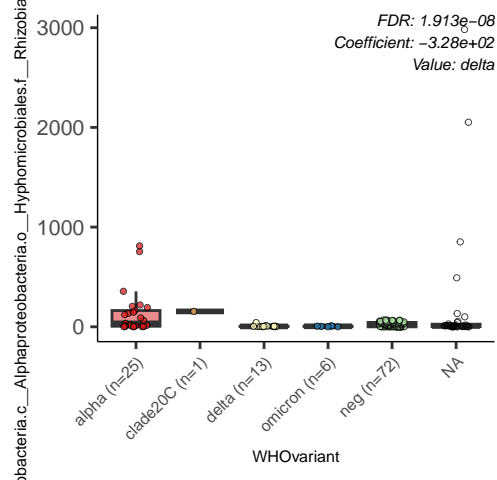
FDR: 1.843×10^{-8}
Coefficient: -2.93×10^5
Value: neg

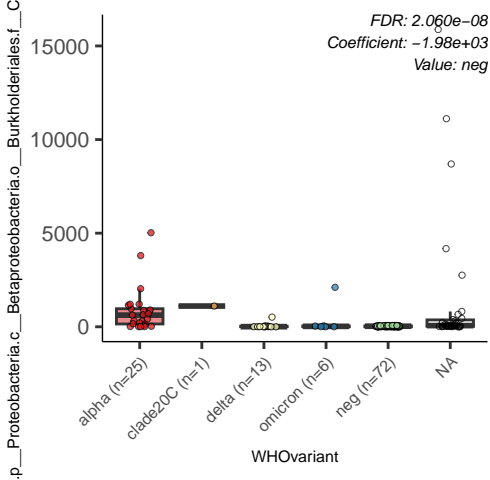


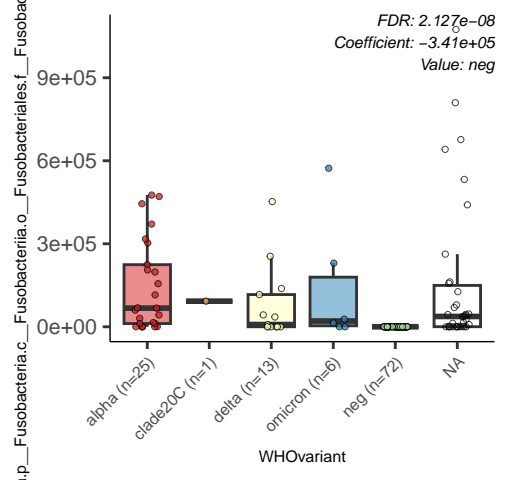


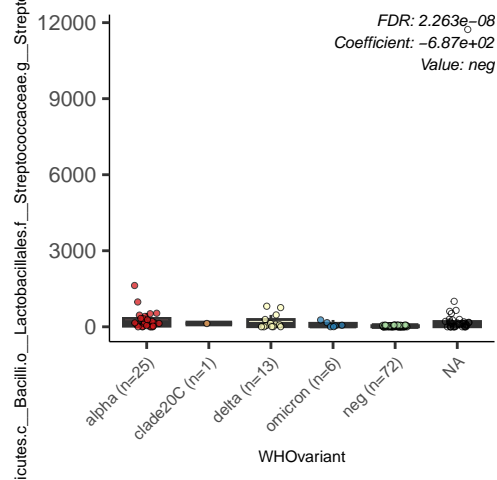






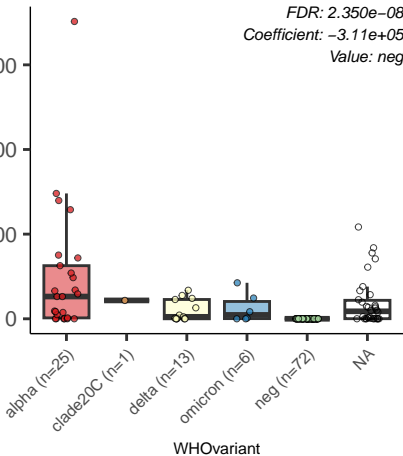




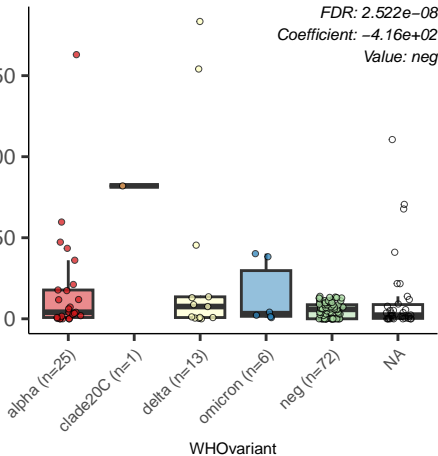


d_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_La

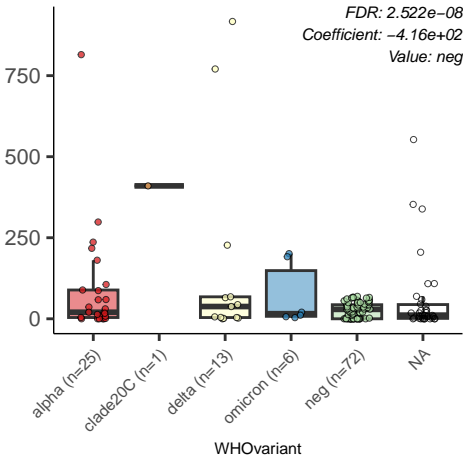
FDR: $2.350e-08$
Coefficient: $-3.11e+05$
Value: neg



Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__Mycoplasmataceae

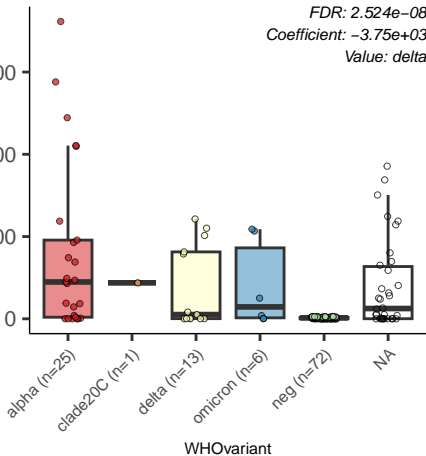


tes.o_Mycoplasmales.f_Mycoplasmataceae.g_Candidatus.Hep



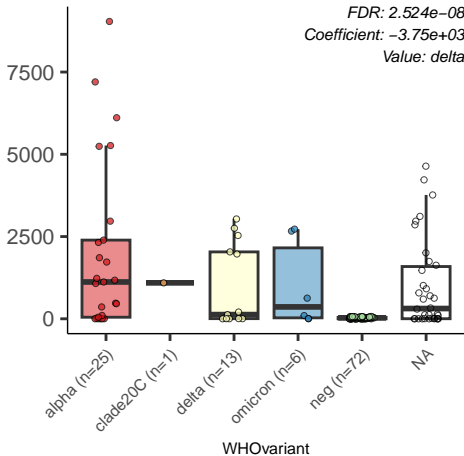
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

FDR: $2.524e-08$
Coefficient: $-3.75e+03$
Value: delta

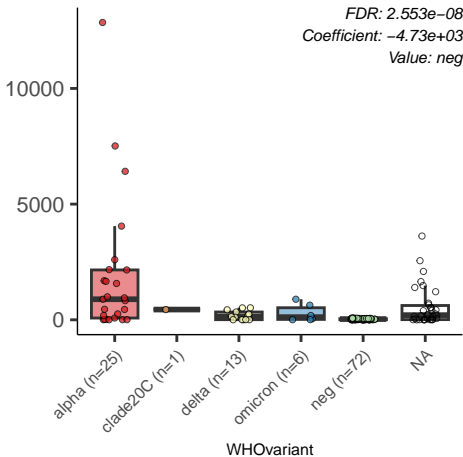


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__

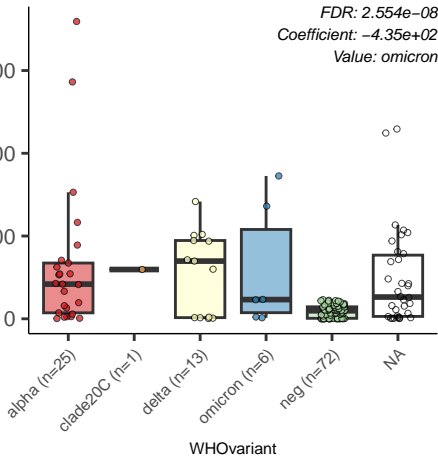
FDR: 2.524e-08
Coefficient: -3.75e+03
Value: delta



bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospir

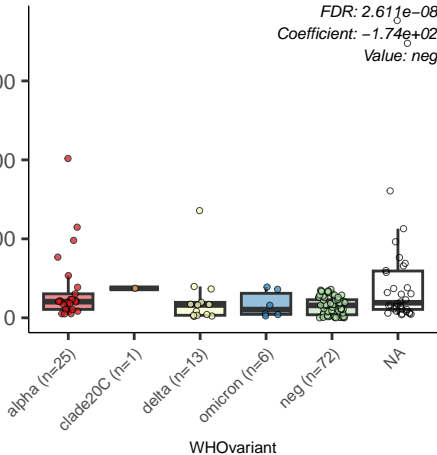


d_Bacteria.p_Firmicutes.c_Clostridia.o_Halanaero



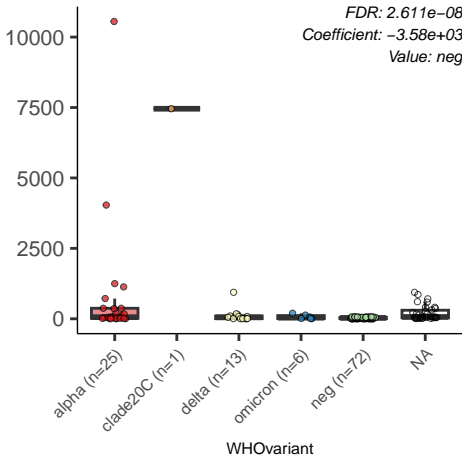
Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__C

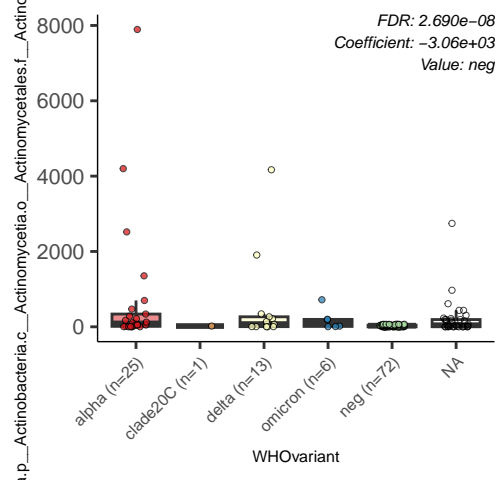
FDR: 2.611×10^{-8}
Coefficient: -1.74×10^2
Value: neg

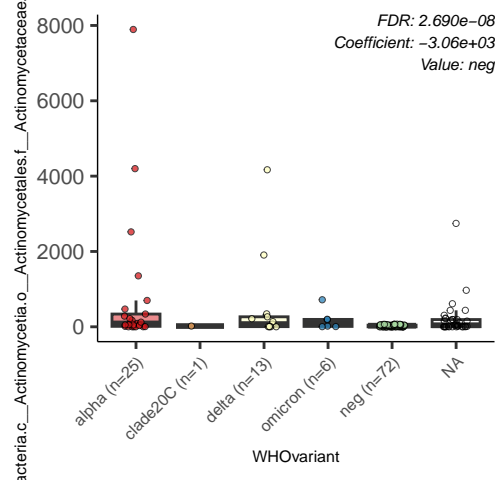


Cyanobacteria.o__Pseudanabaenales.f__Leptolyngbyaceae.g__Lep

FDR: 2.611e-08
Coefficient: -3.58e+03
Value: neg

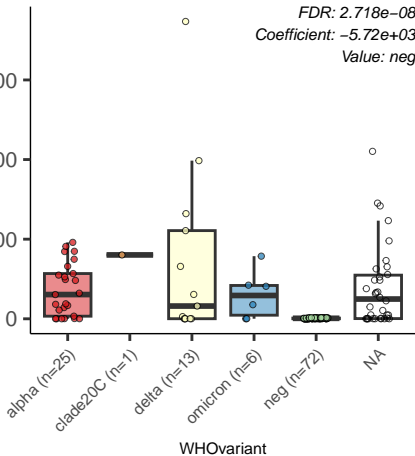


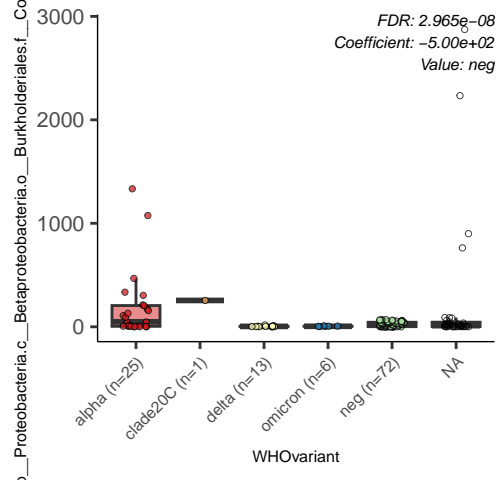


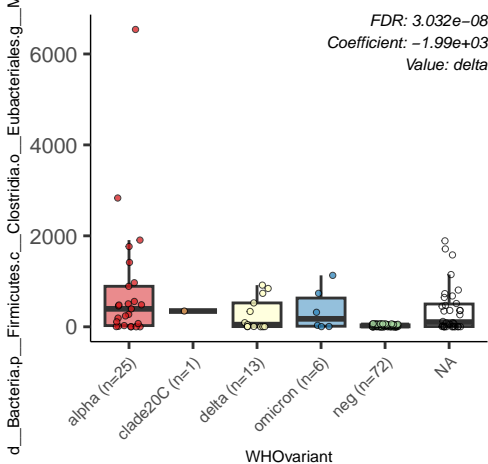


nicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

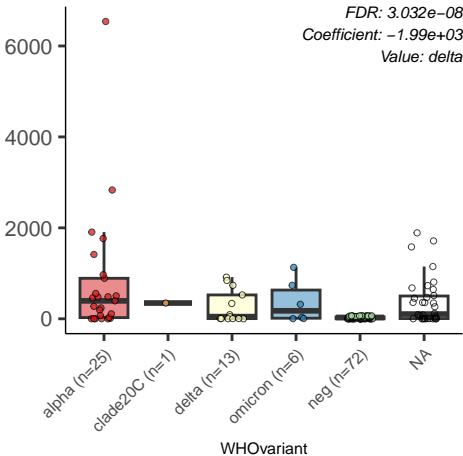
FDR: 2.718e-08
Coefficient: -5.72e+03
Value: neg



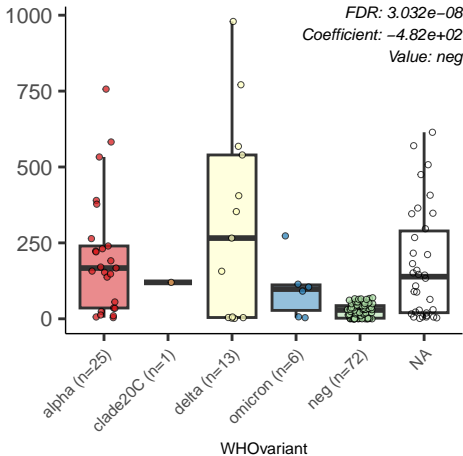




u.p__Firmicutes.c__Clostridia.o__Eubacteriales.g__Massilistercora.s

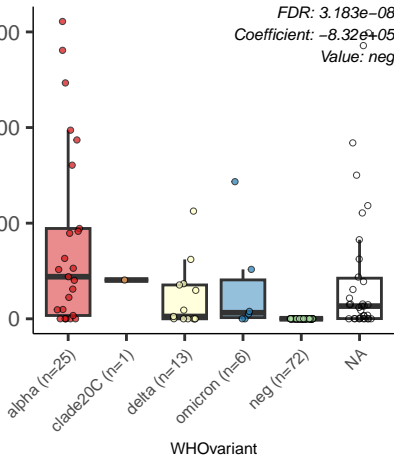


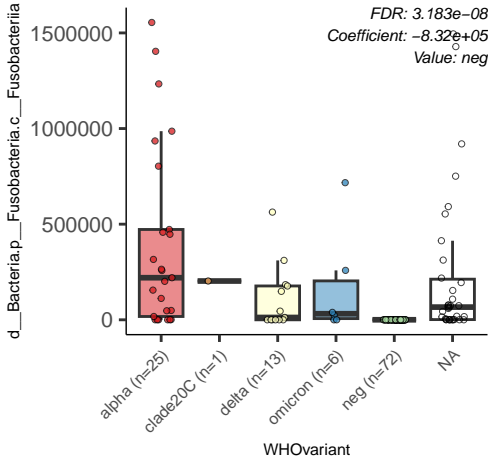
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae

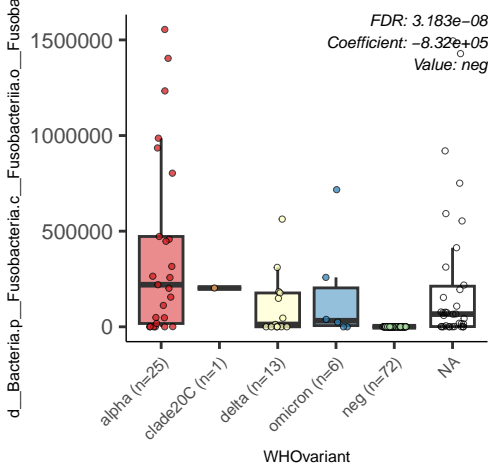


d_Bacteria.p_Fusobacteria

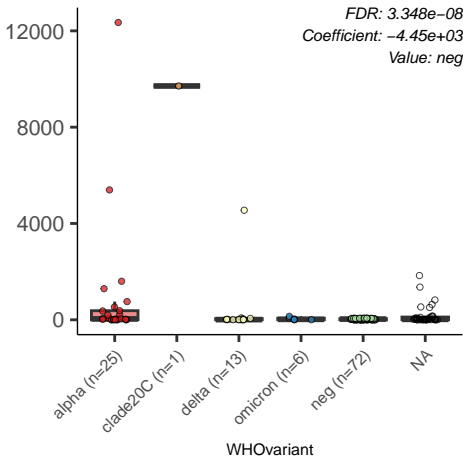
FDR: 3.183×10^{-8}
Coefficient: -8.32×10^5
Value: neg





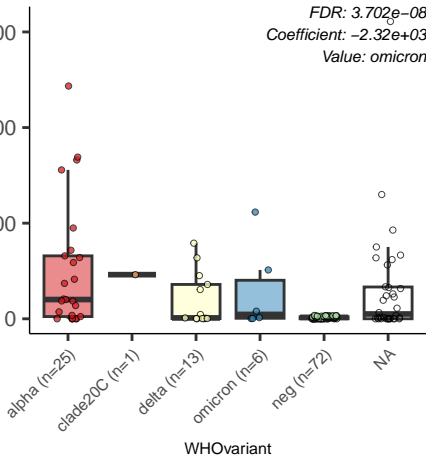


p__Planctomycetes.c__Planctomycetia.o__Planctomycetales.f__Pla

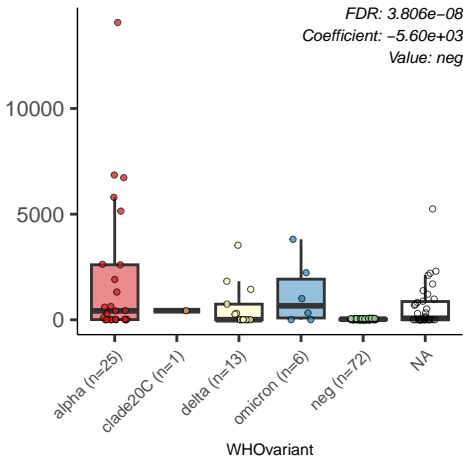


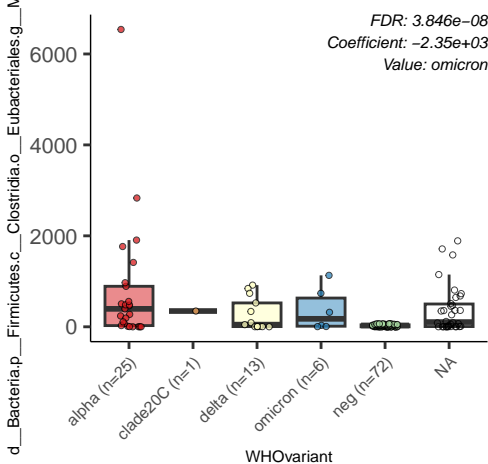
icutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Buty

FDR: $3.702e-08$
Coefficient: $-2.32e+03$
Value: omicron



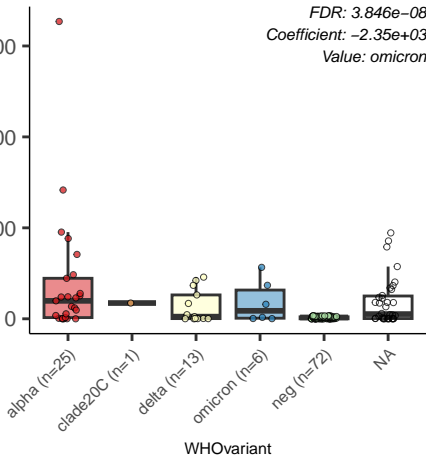
Actinomycetia.o_Pseudonocardiales.f_Pseudonocardaceae.g





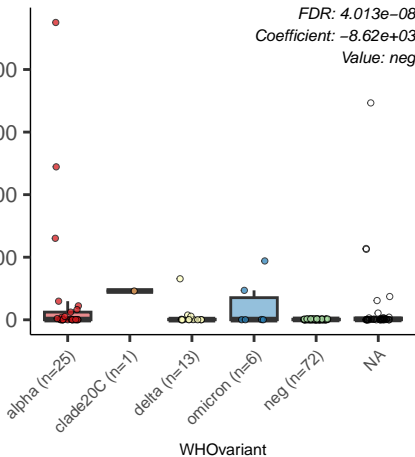
u.p__Firmicutes.c__Clostridia.o__Eubacteriales.g__Massilistercora.s

FDR: $3.846e-08$
Coefficient: $-2.35e+03$
Value: omicron

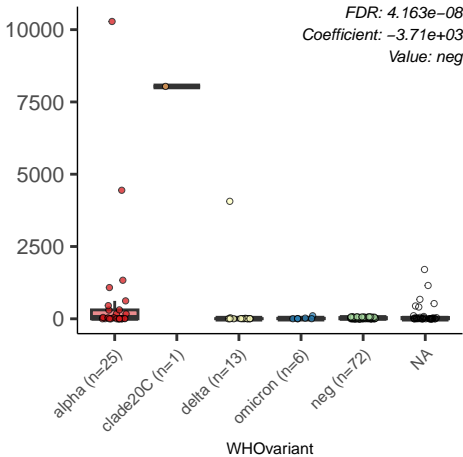


etes.c_Flavobacteriia.o_Flavobacteriales.f_Flavobacteriaceae.g

FDR: $4.013e-08$
Coefficient: $-8.62e+03$
Value: neg

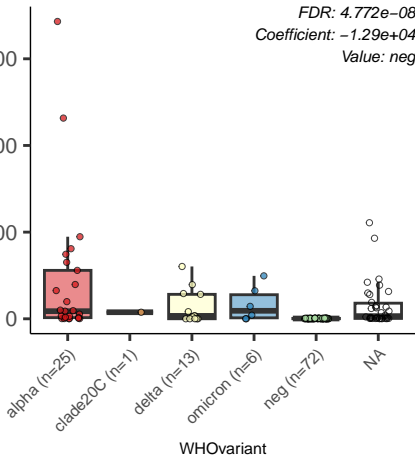


omyces.c__Planctomycetia.o__Planctomycetales.f__Planctomycet



Actinobacteria.c_Actinomycetia.o_Corynebacteriales.f_Mycoba

FDR: $4.772e-08$
Coefficient: $-1.29e+04$
Value: neg



d__Bacteria.p__Gemmatimonadetes

FDR: $4.776e-08$
Coefficient: $-6.20e+02$
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

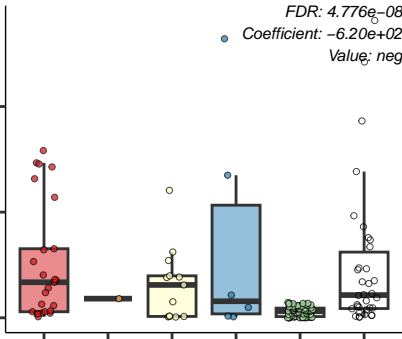
delta (n=13)

omicron (n=6)

neg (n=72)

NA

WHOvariant



d__Bacteria.p__Gemmatimonadetes.c__Gemmatimonada

FDR: $4.776e-08$
Coefficient: $-6.20e+02$
Value: neg

1000
500
0

alpha (n=25)

clade20C (n=1)

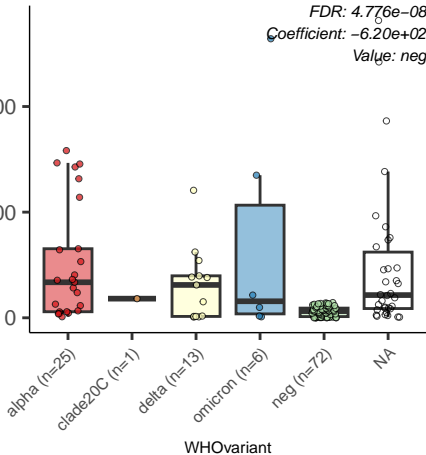
delta (n=13)

omicron (n=6)

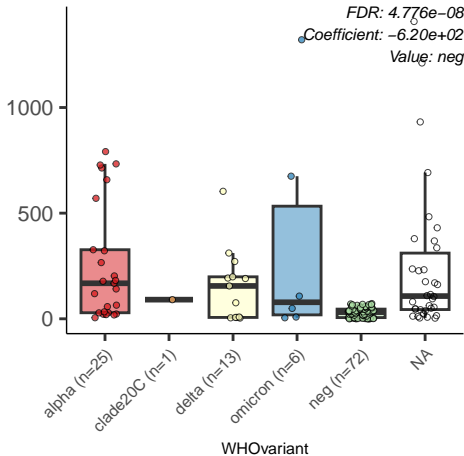
neg (n=72)

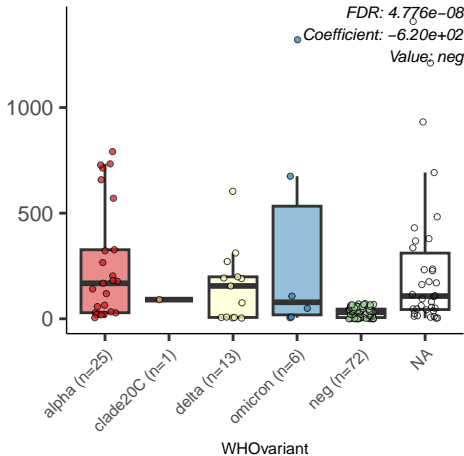
NA

WHOvariant

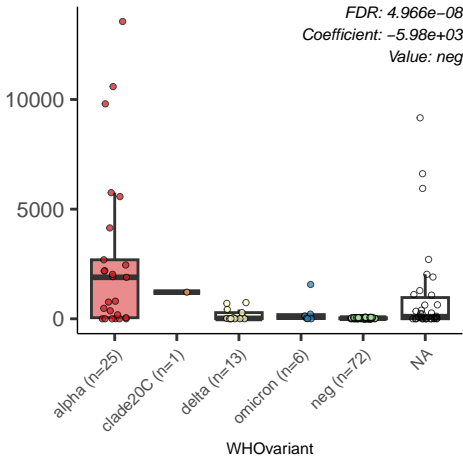


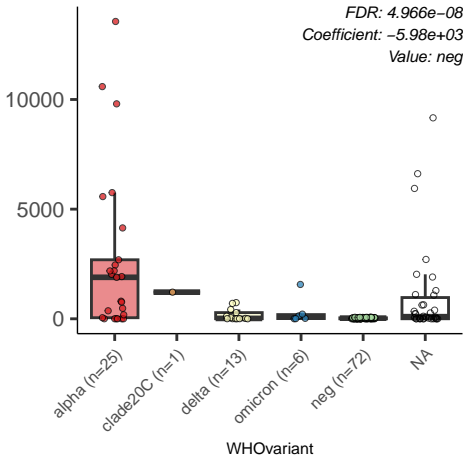
d_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ge

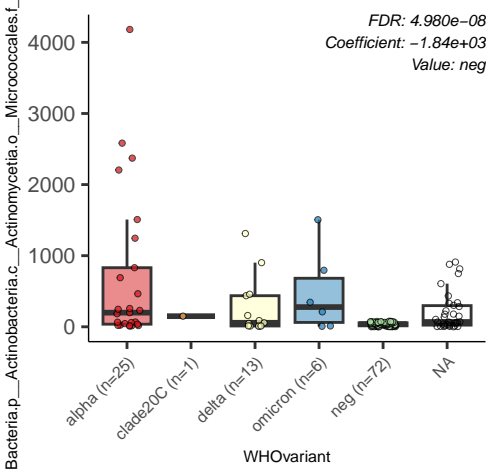




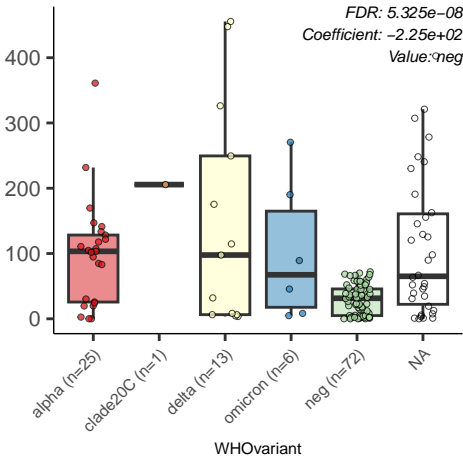
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospir





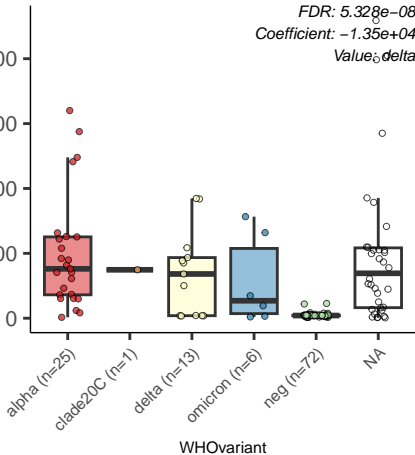


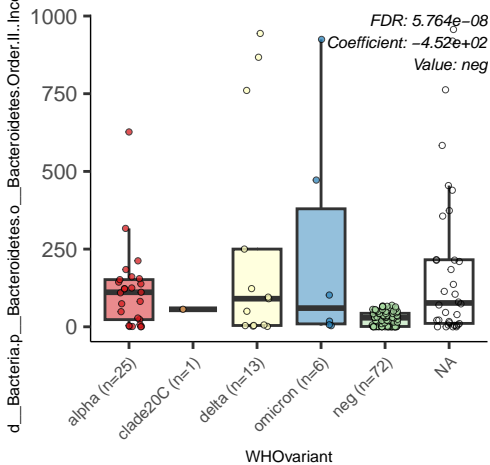
d__Bacteria.p__Cyanobacteria.o__Oscillatoriales.f__Oscillatoriaceae

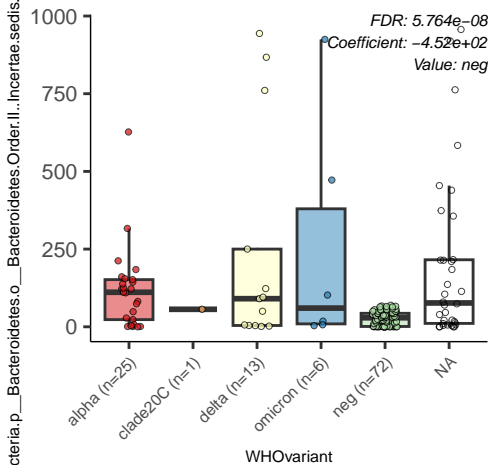


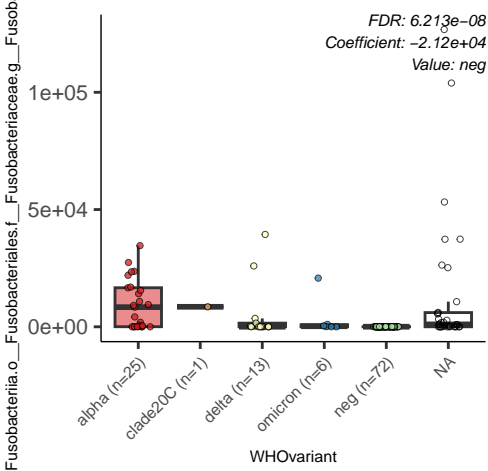
Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridia

FDR: 5.328×10^{-8}
Coefficient: -1.35×10^4
Value_{delta}



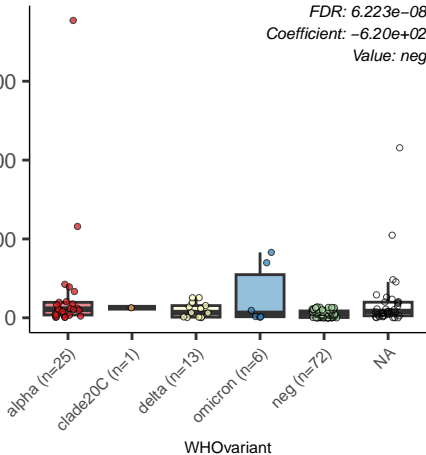




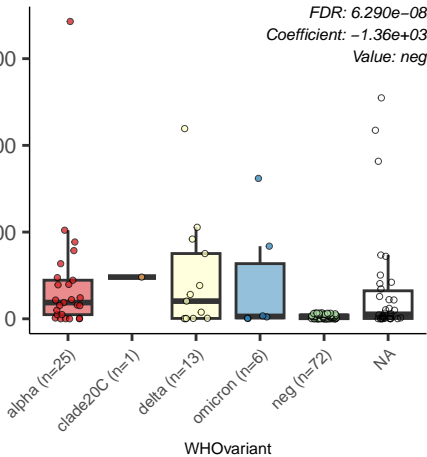


d_Bacteria.p_Cyanobacteria.o_Oscillatoriales.f_Microo

FDR: 6.223e-08
Coefficient: -6.20e+02
Value: neg

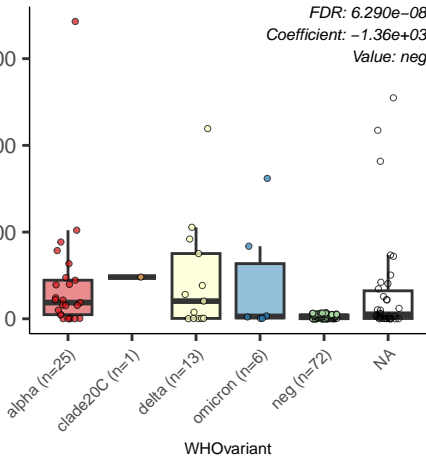


d_Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Chr

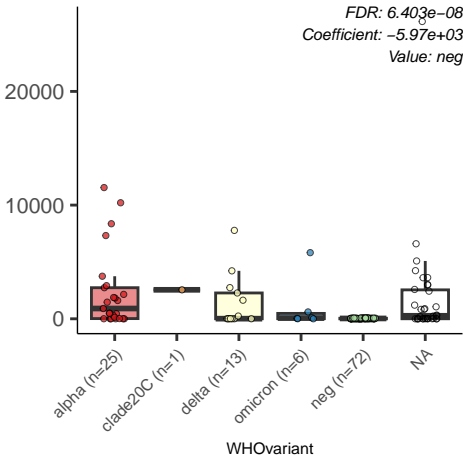


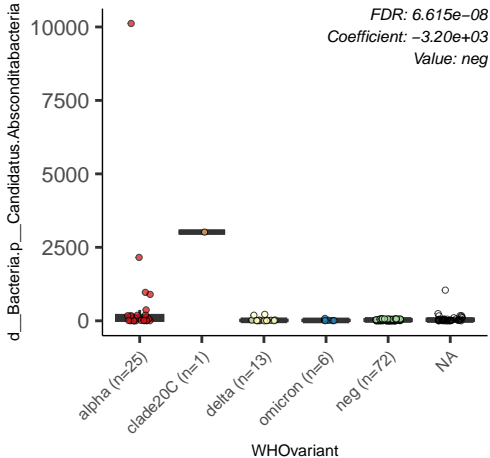
eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Christensenell

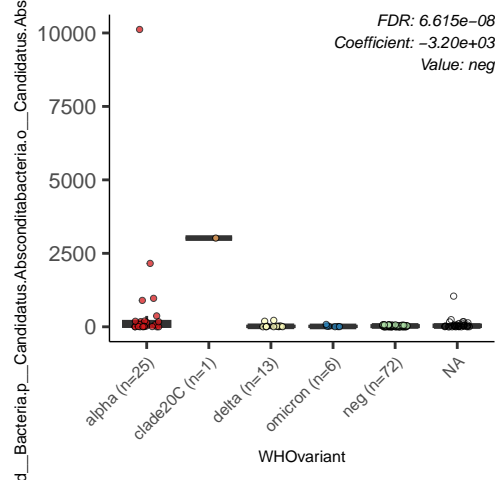
FDR: $6.290e-08$
Coefficient: $-1.36e+03$
Value: neg



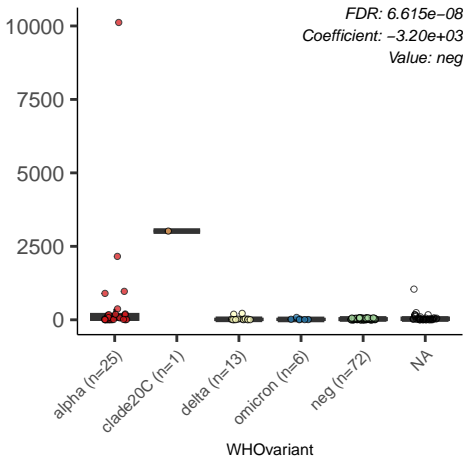
rmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Bu



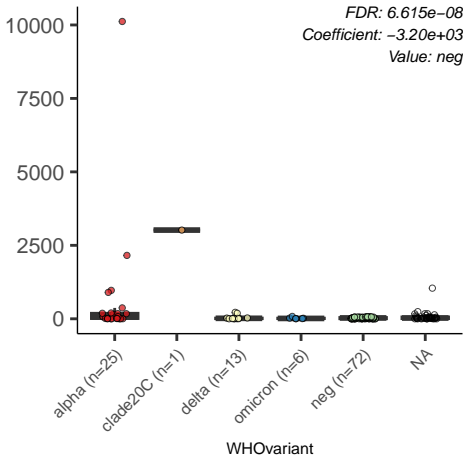


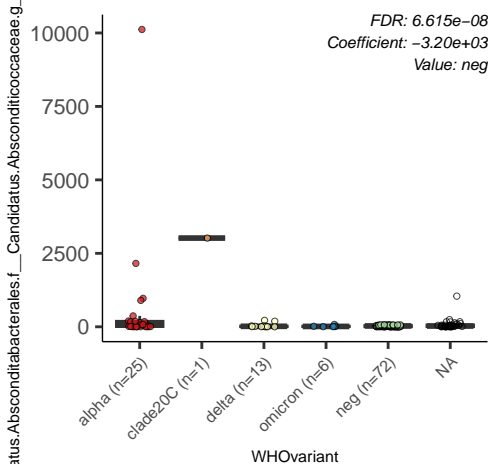


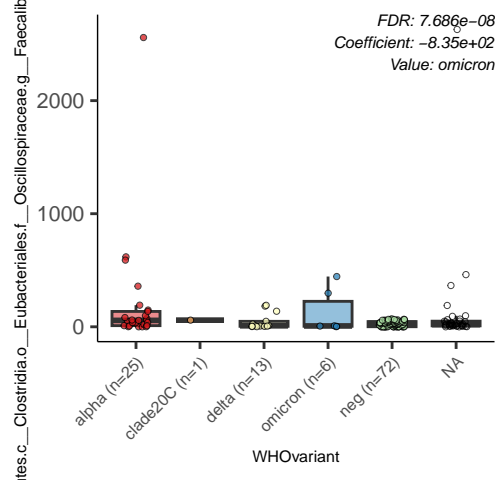
candidatus.Absconditabacteria.o__Candidatus.Absconditabacterales.

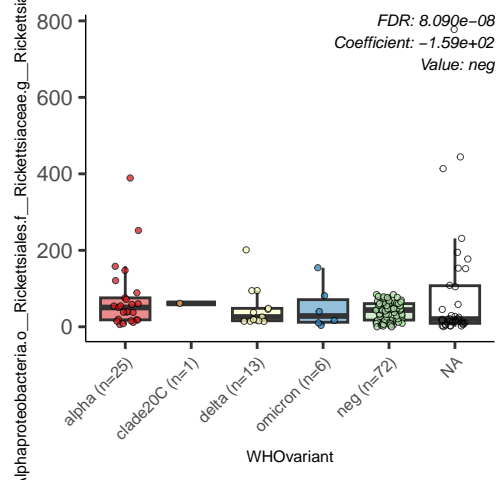


nditabacteria.o__Candidatus.Absconditabacterales.f__Candidatus.A

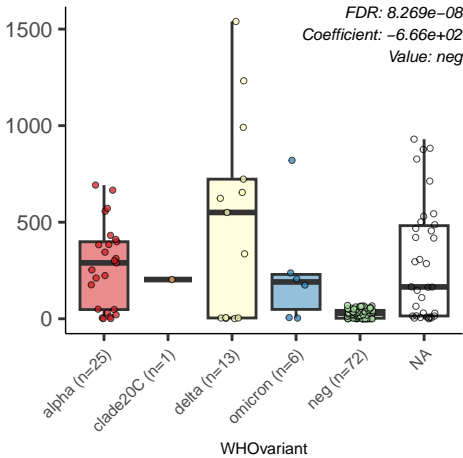






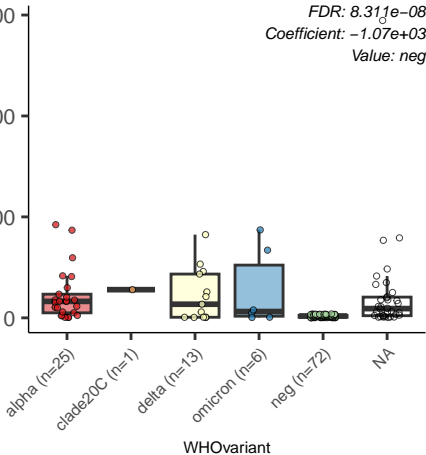


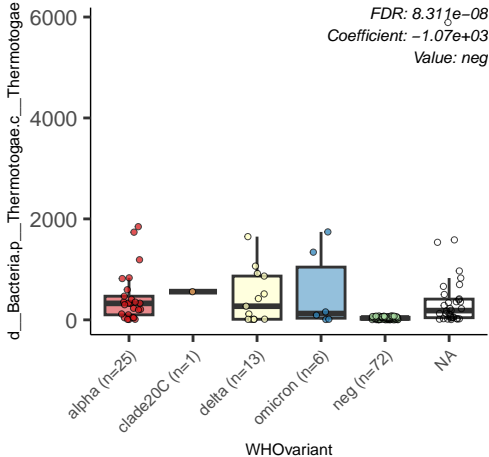
cteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bac

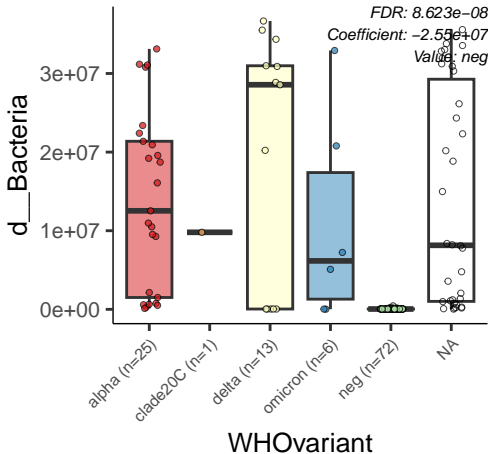


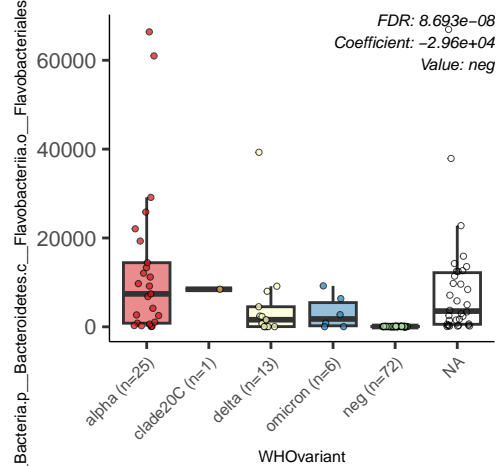
d__Bacteria.p__Thermotogae

FDR: $8.311e-08$
Coefficient: $-1.07e+03$
Value: neg



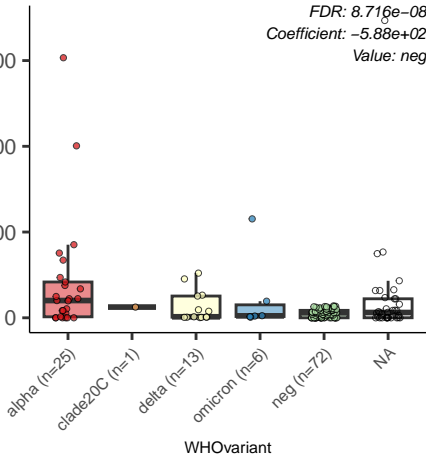


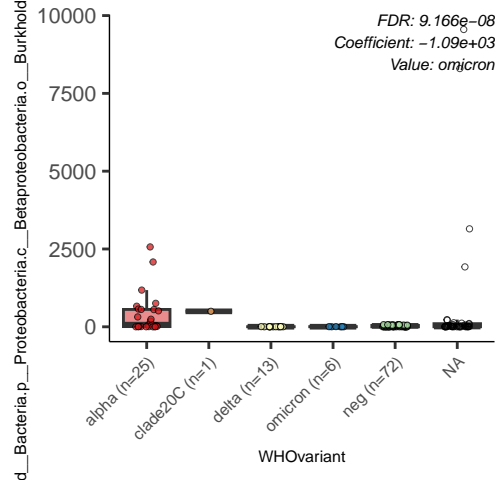




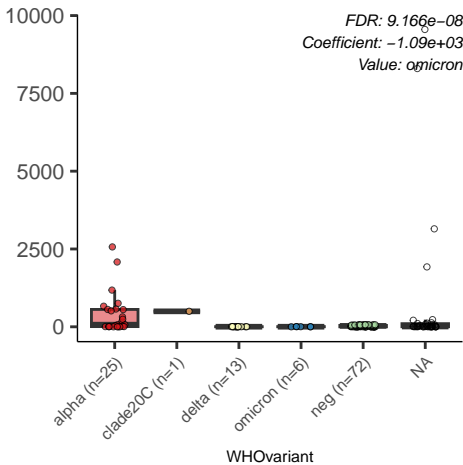
c__Clostridia.o__Eubacteriales.f__Desulfitobacteriaceae.g__Desulf

FDR: 8.716e-08
Coefficient: -5.88e+02
Value: neg



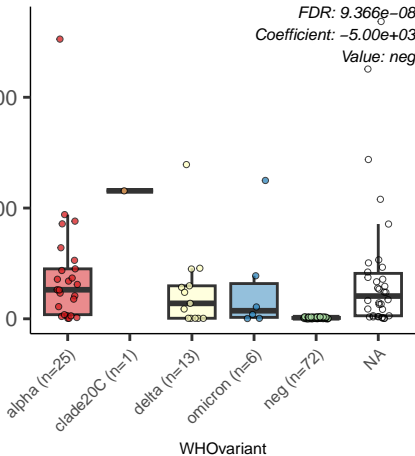


p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g__lr



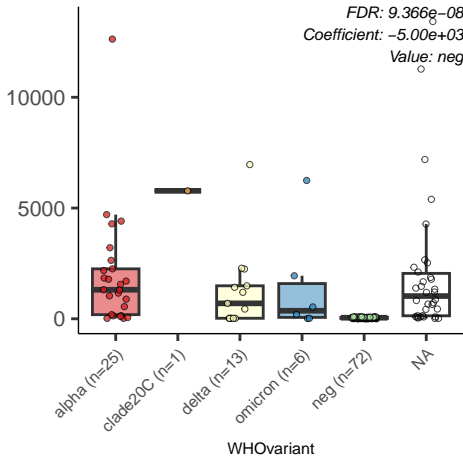
d__Bacteria.p__Bacteroidetes.c__Sphingobacteriia

FDR: $9.366e-08$
Coefficient: $-5.00e+03$
Value: neg

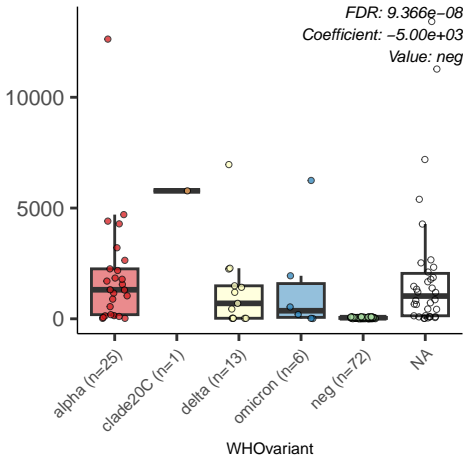


d__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphing

FDR: $9.366e-08$
Coefficient: $-5.00e+03$
Value: neg

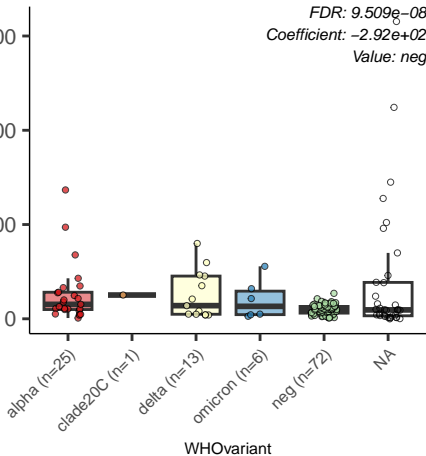


acteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales

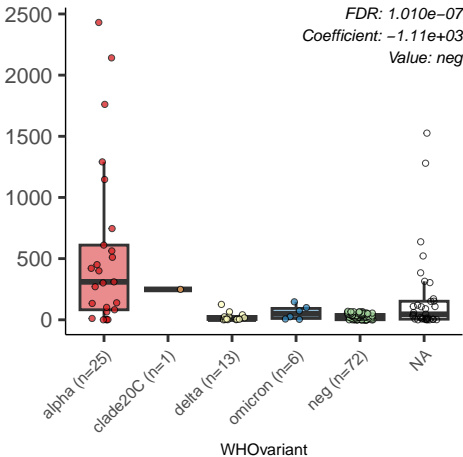


bacteria.o__Synechococcales.f__Synechococcaceae.g__Synecho

FDR: $9.509e-08$
Coefficient: $-2.92e+02$
Value: neg

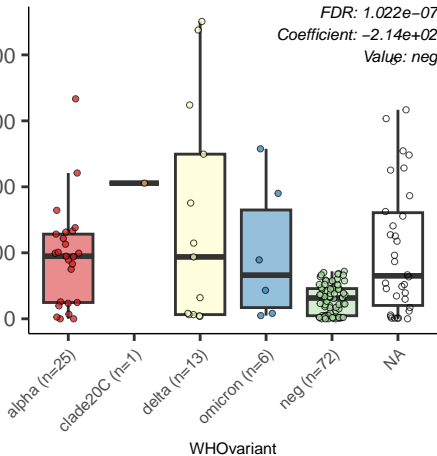


bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae.g



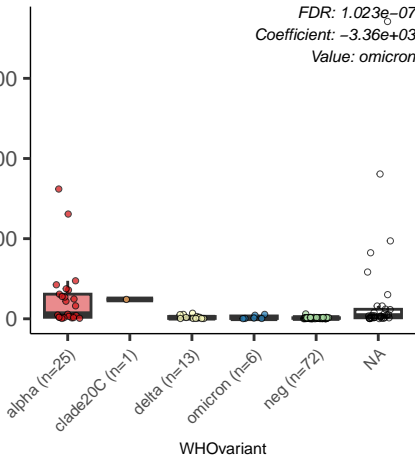
o__Cyanobacteria.o__Oscillatoriales.f__Oscillatoriaceae.g__Oscillatoria

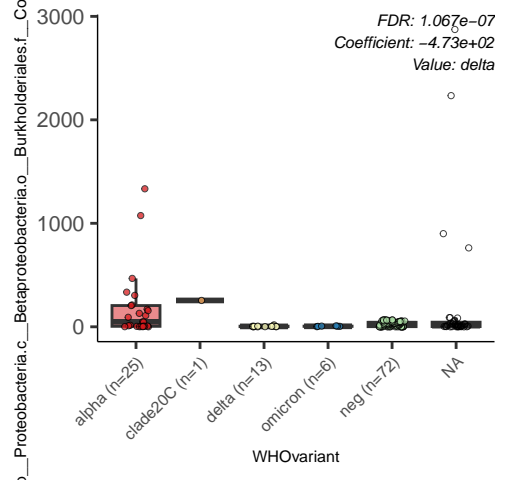
FDR: 1.022e-07
Coefficient: -2.14e+02
Value: neg

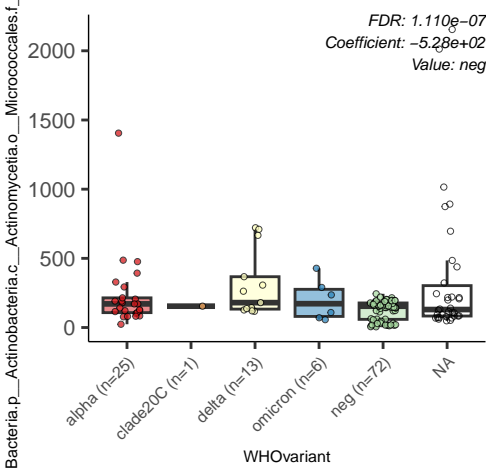


Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Nit

FDR: 1.023×10^{-7}
Coefficient: -3.36×10^3
Value: omicron

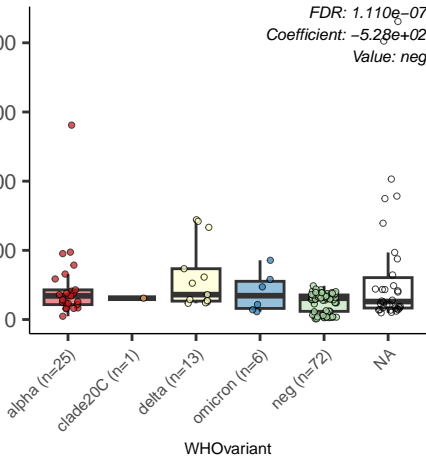






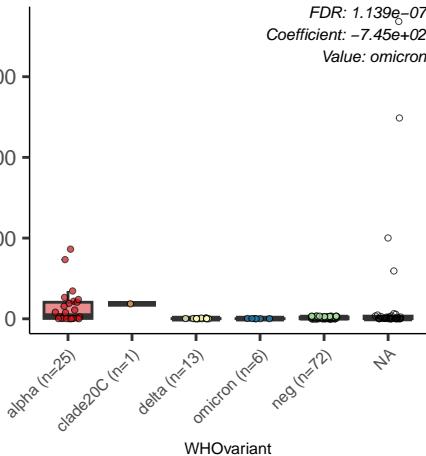
u.p__Actinobacteria.c__Actinomycetia.o__Micrococcales.f__Brevibac

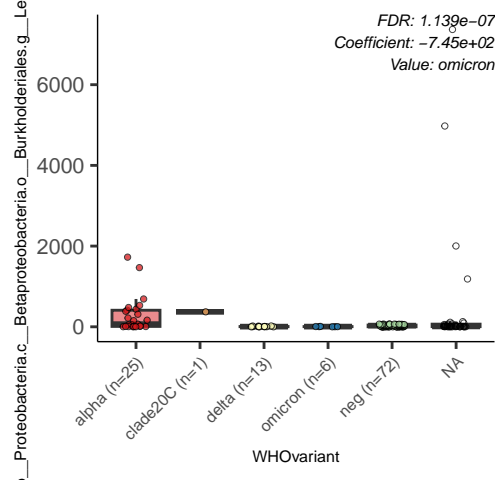
FDR: $1.110e-07$
Coefficient: $-5.28e+02$
Value: neg

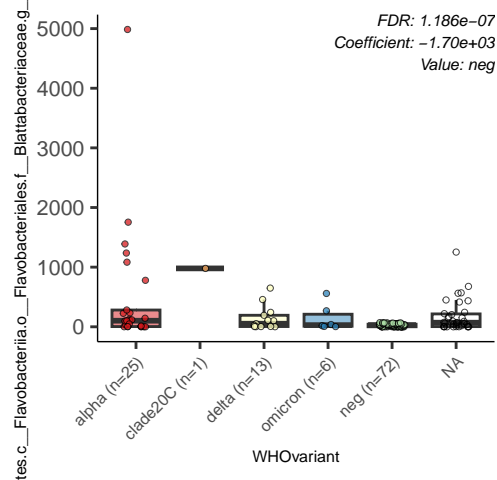


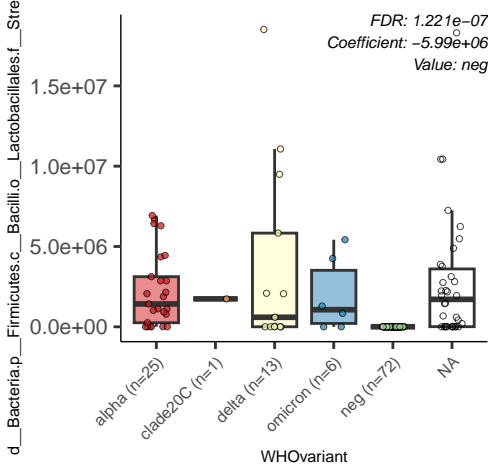
Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

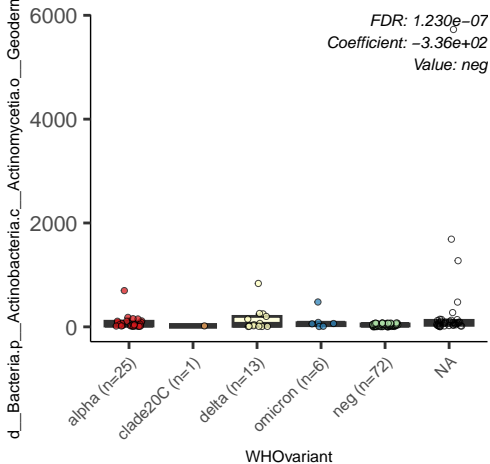
FDR: $1.139e-07$
Coefficient: $-7.45e+02$
Value: omicron

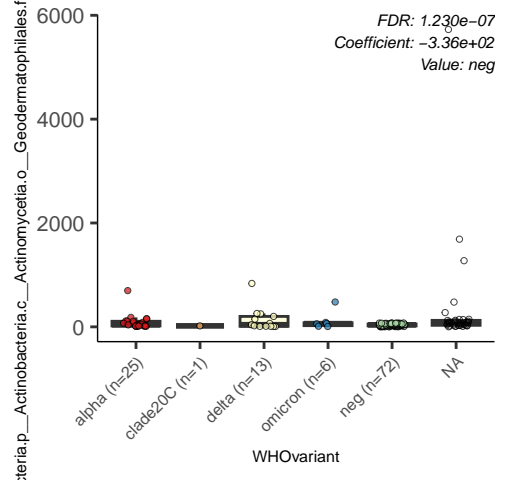






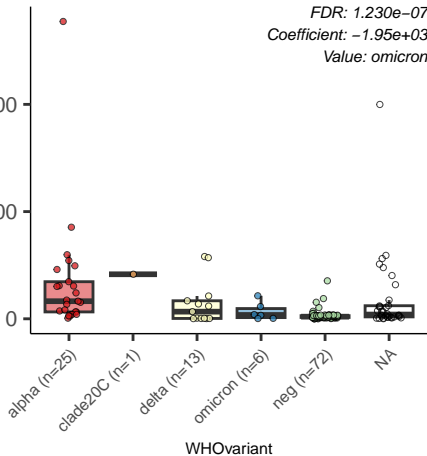


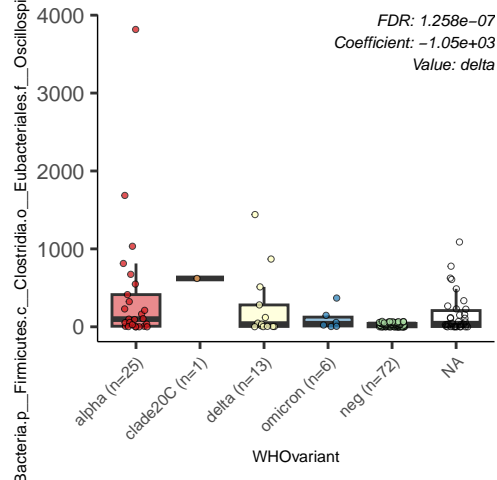




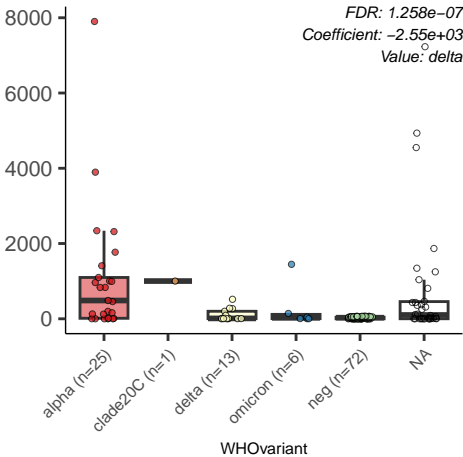
es.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g__Anaeroco

FDR: 1.230e-07
Coefficient: -1.95e+03
Value: omicron

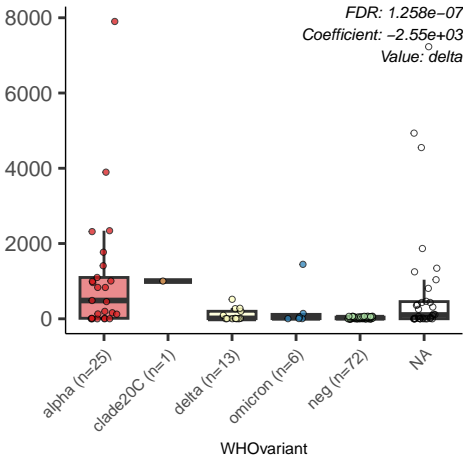


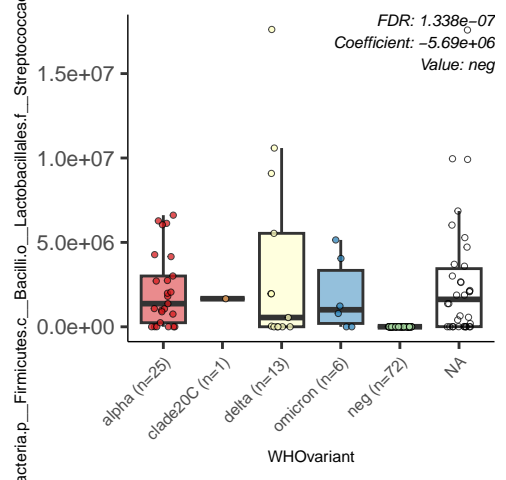


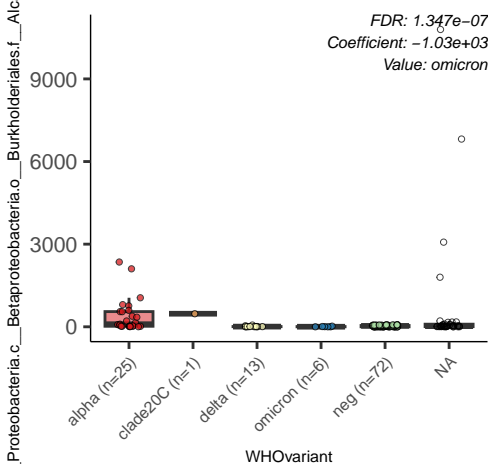
Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnos



p_Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae

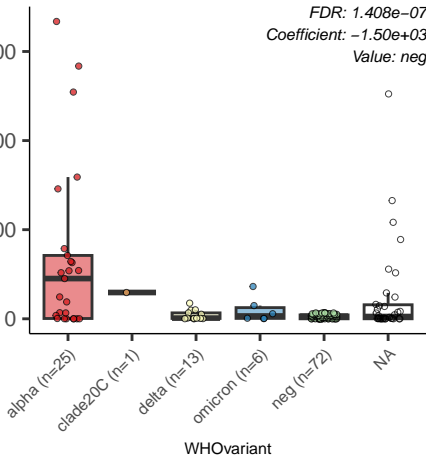


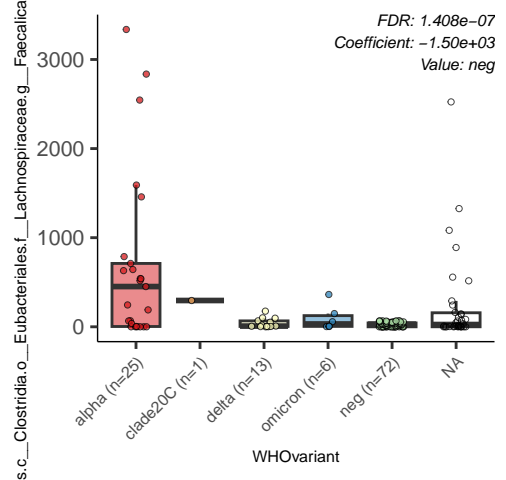




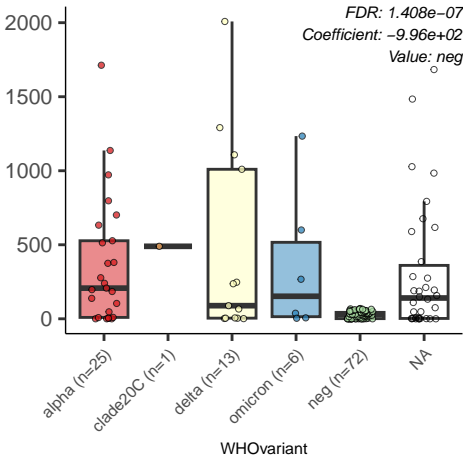
cteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospira

FDR: 1.408e-07
Coefficient: -1.50e+03
Value: neg

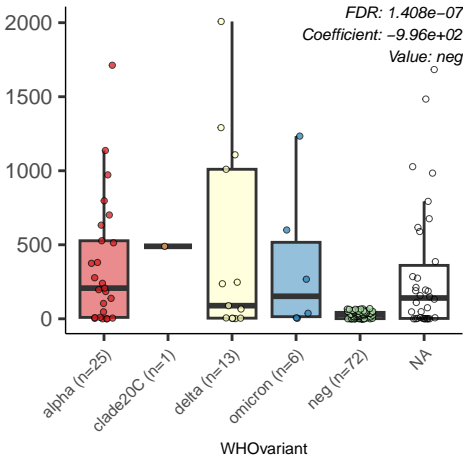


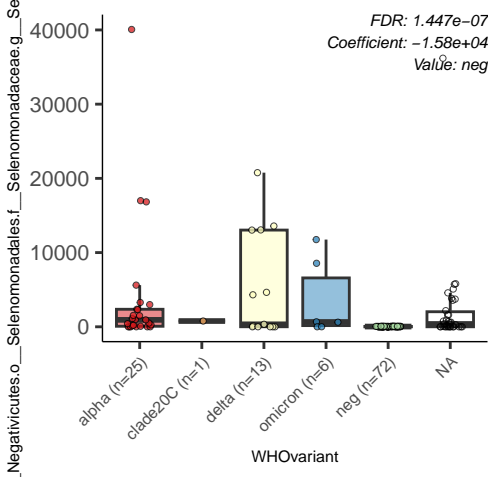


cteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Lactobacillace



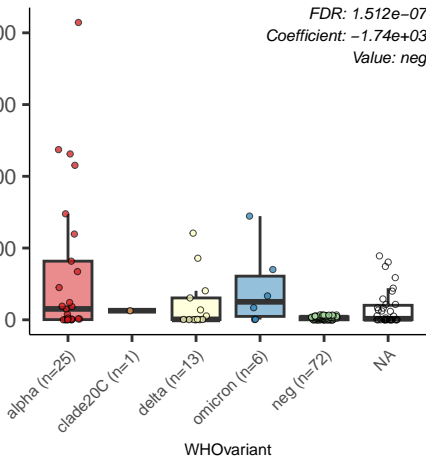
tes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Acetillactob

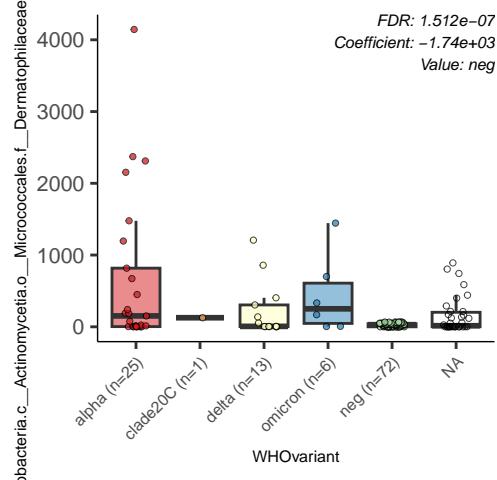


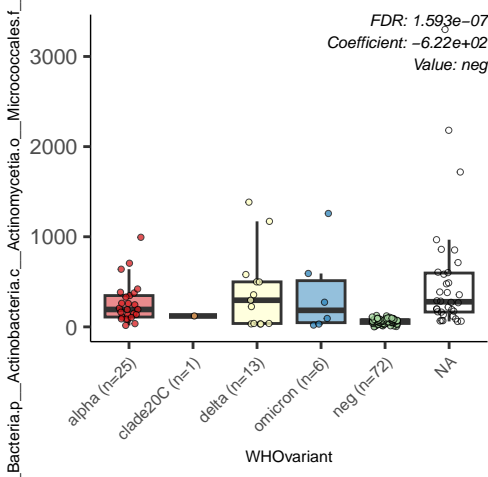


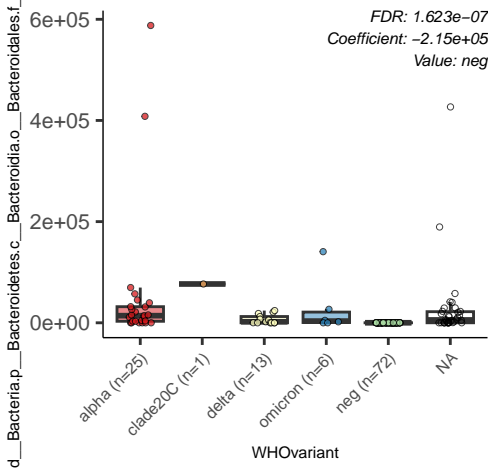
ria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Derma

FDR: 1.512e-07
Coefficient: -1.74e+03
Value: neg



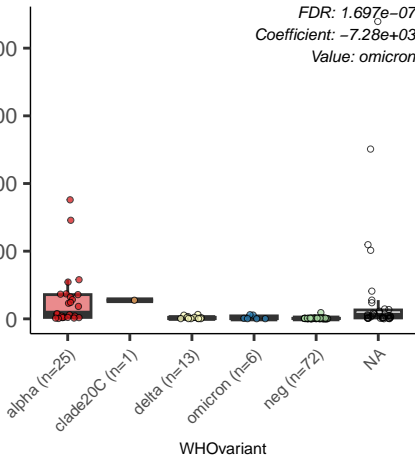






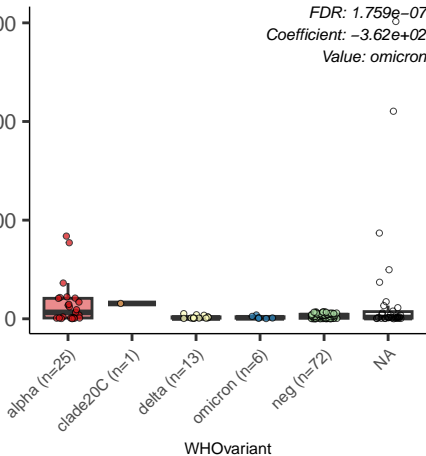
cteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia

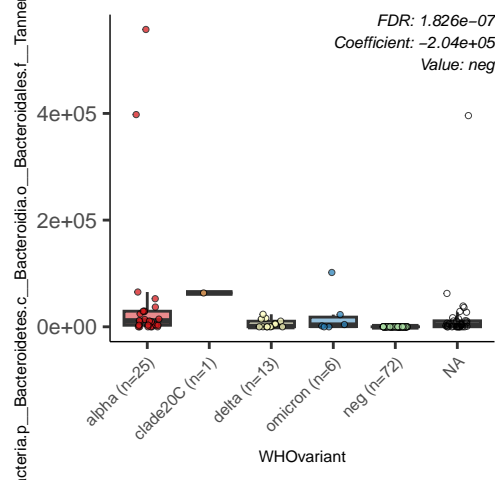
FDR: $1.697e-07$
Coefficient: $-7.28e+03$
Value: omicron

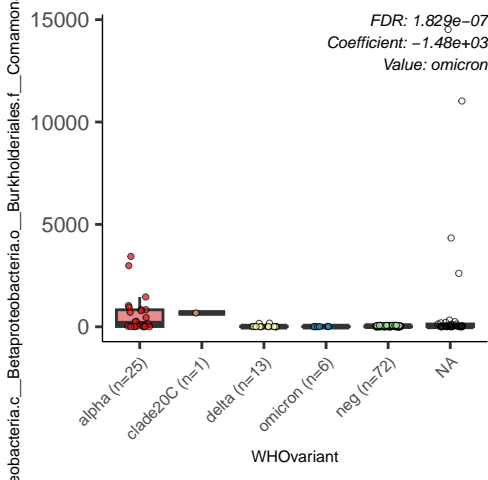


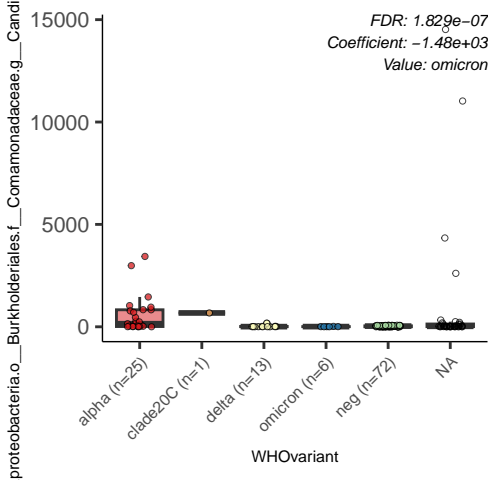
a.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.

FDR: $1.759e-07$
Coefficient: $-3.62e+02$
Value: omicron

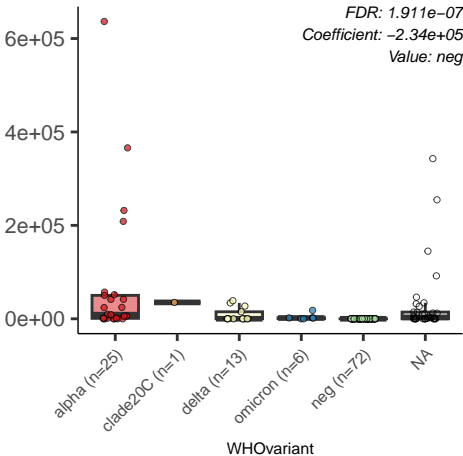


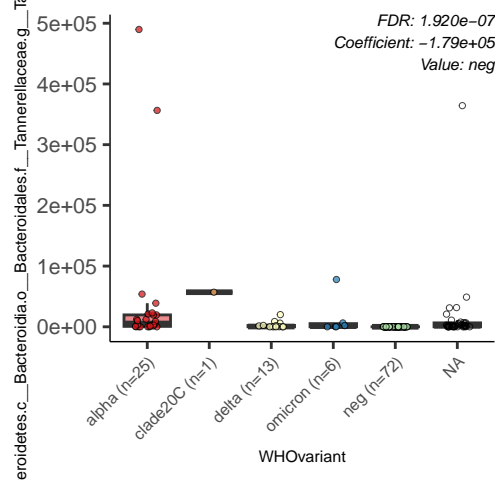




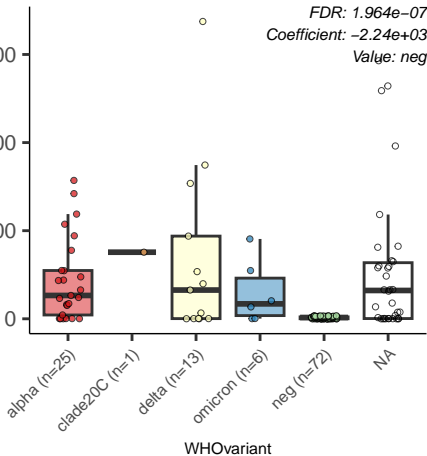


ria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae.g__Le

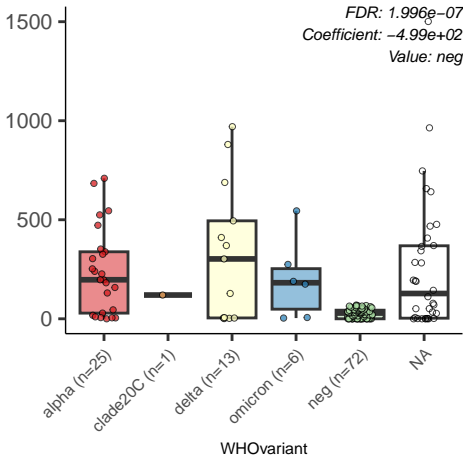


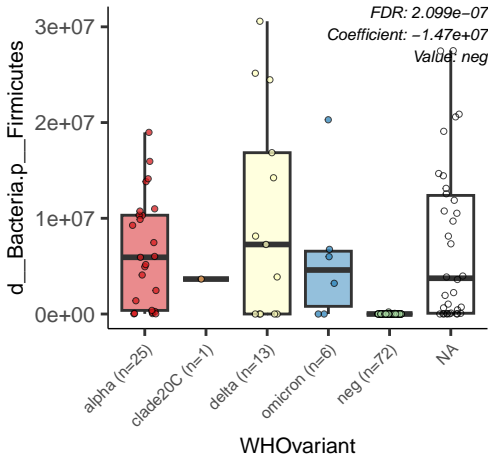


phylum: Bacteroidetes, class: Sphingobacteriia, order: Sphingobacteriales, family: Sphingobacteriaceae, genus: Sphingobacterium, species: Sphingobacterium



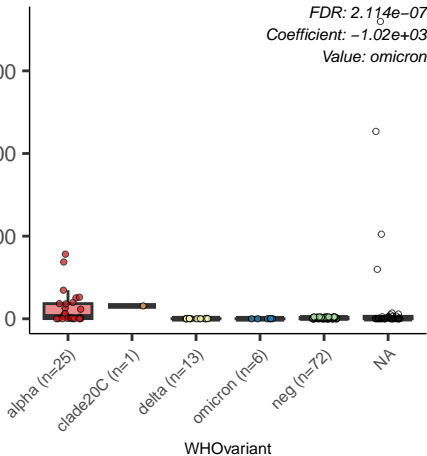
teria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Baci



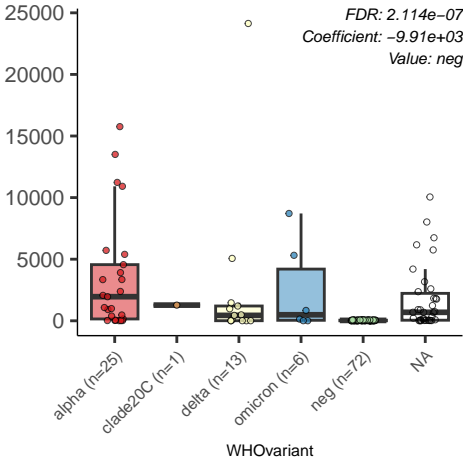


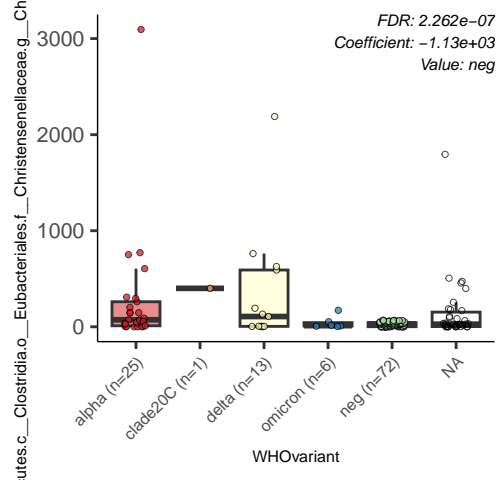
terial.c__Betaproteobacteria.o__Burkholderiales.f__Alcaligenaceae.g__

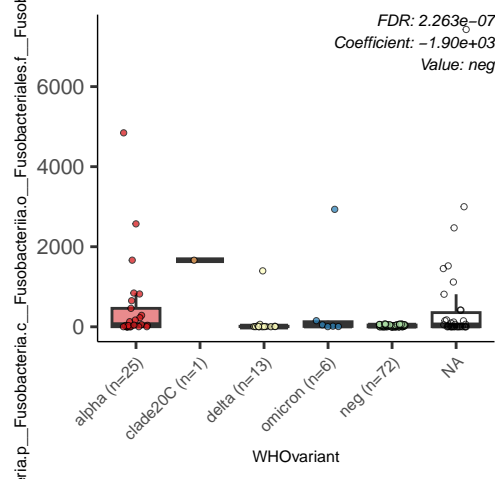
FDR: 2.114×10^{-7}
Coefficient: -1.02×10^3
Value: omicron



_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnos

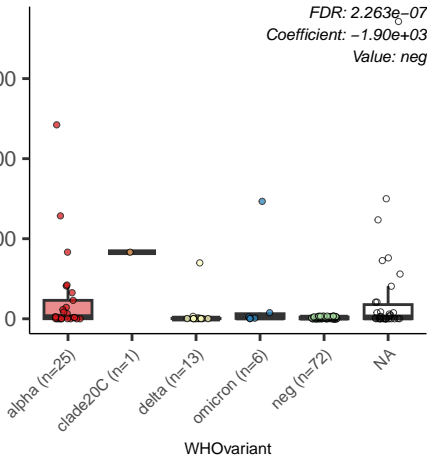






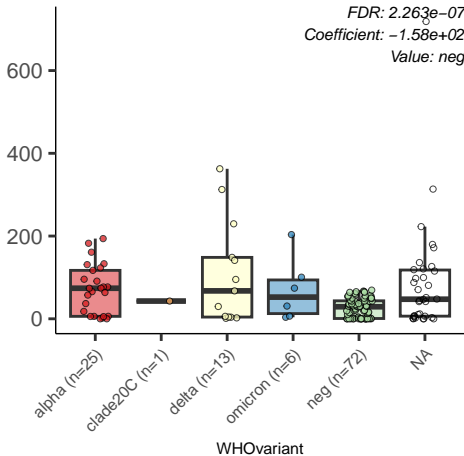
bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae

FDR: $2.263e-07$
Coefficient: $-1.90e+03$
Value: neg



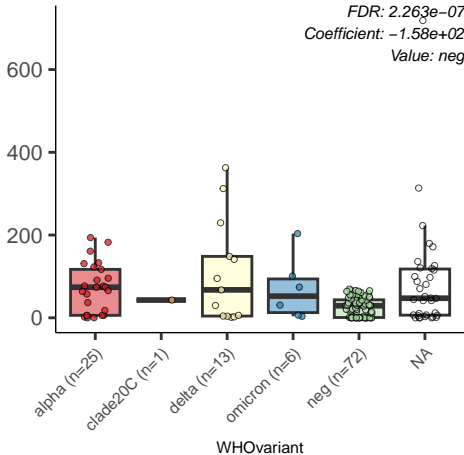
d_Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae

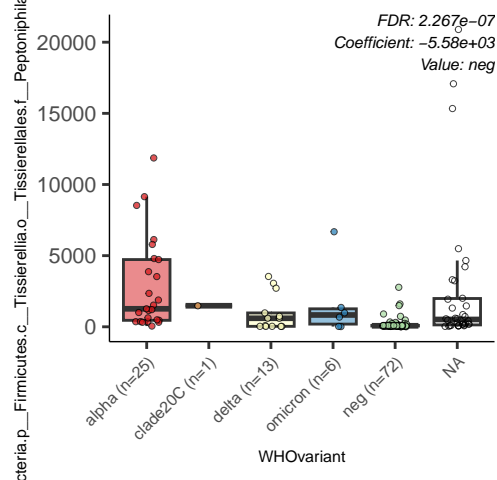
FDR: $2.263e-07$
Coefficient: $-1.58e+02$
Value: neg



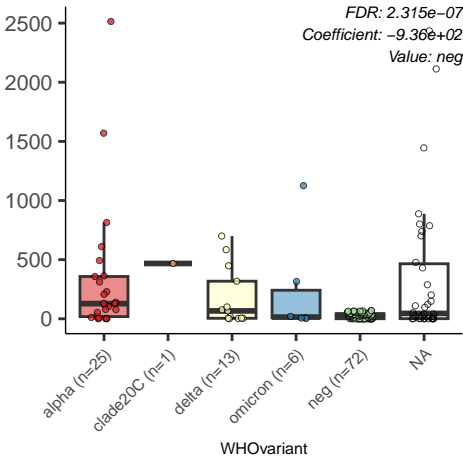
p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g_Weizmann

FDR: $2.263e-07$
Coefficient: $-1.58e+02$
Value: neg

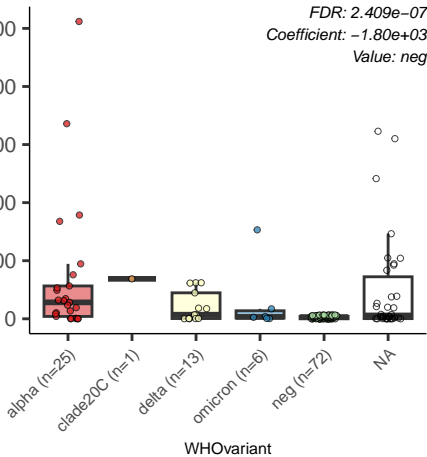


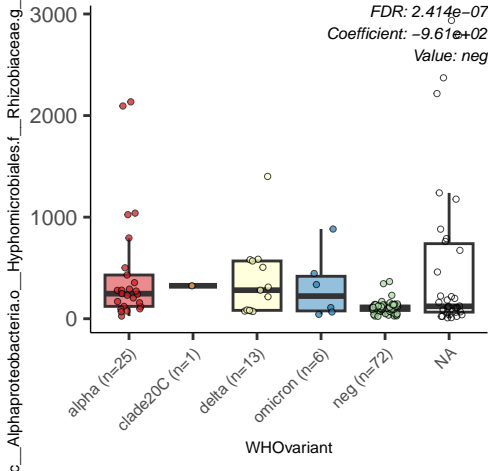


a.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Desulfitobacteria



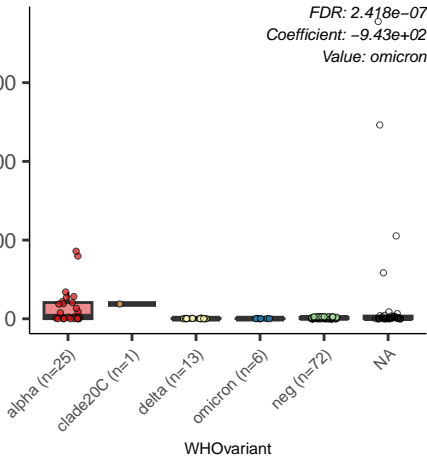
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiace





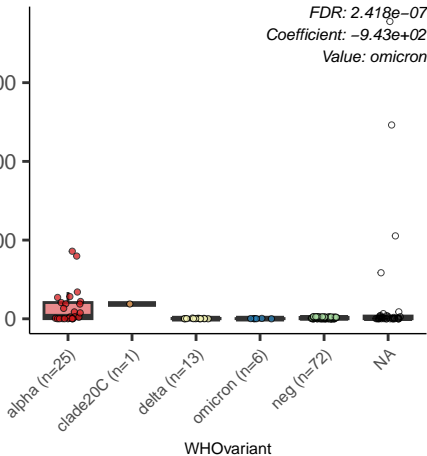
Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

FDR: $2.418e-07$
Coefficient: $-9.43e+02$
Value: omicron

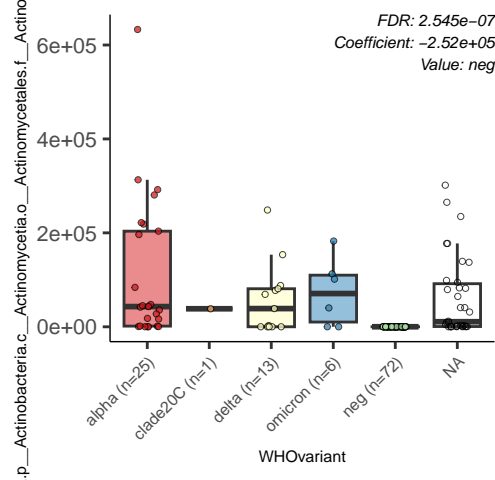


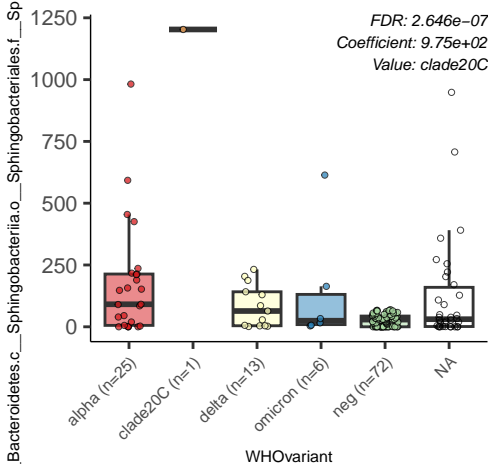
Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g__Ideo

FDR: $2.418e-07$
Coefficient: $-9.43e+02$
Value: omicron

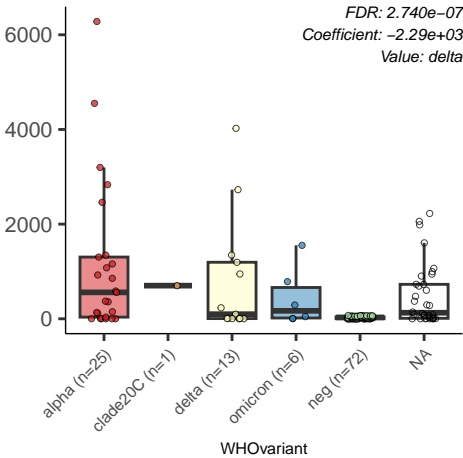


Value: neg

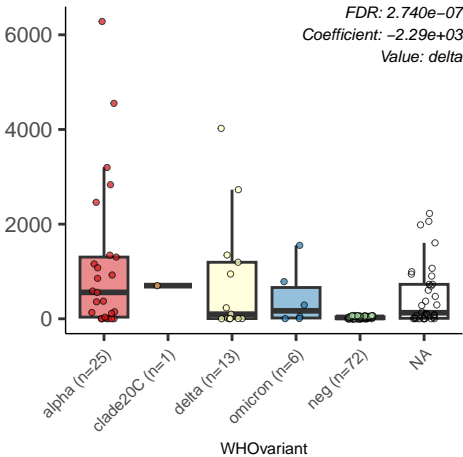




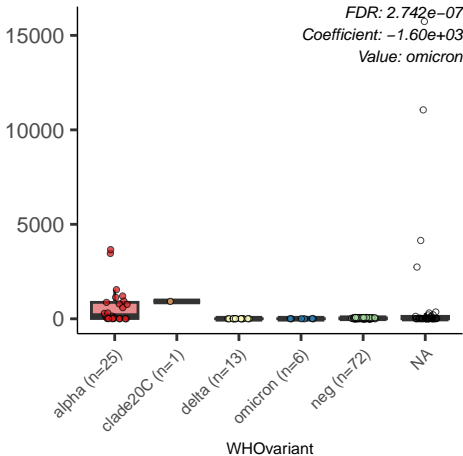
eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospira



icutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Anaer

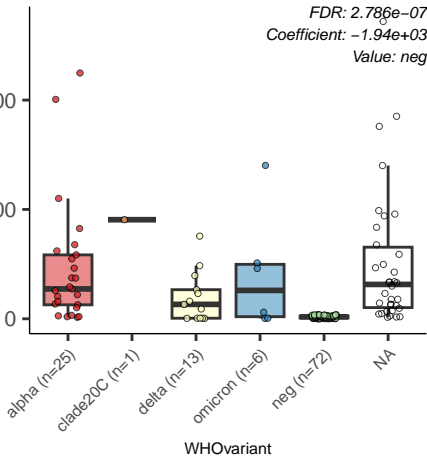


obacteria.c__Betaproteobacteria.o__Burkholderiales.f__Comamonad



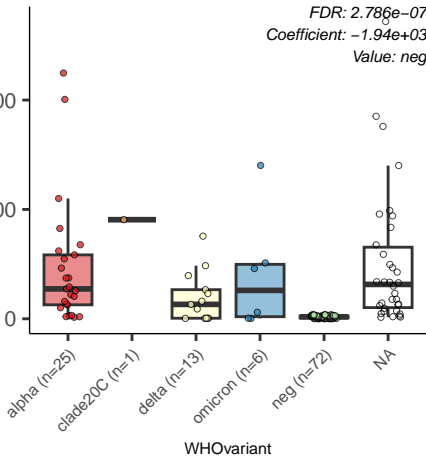
d_Bacteria.p_Bacteroidetes.c_Chitinophagia

FDR: $2.786e-07$
Coefficient: $-1.94e+03$
Value: neg



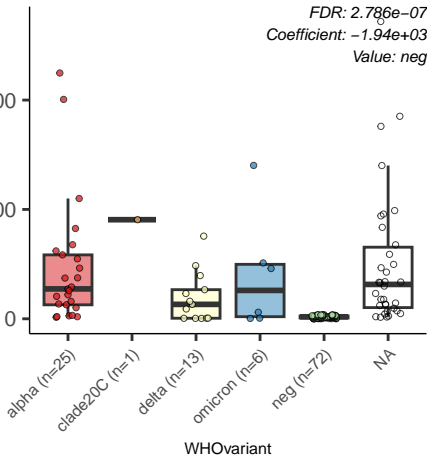
d_Bacteria.p_Bacteroidetes.c__Chitinophagia.o__Chitin

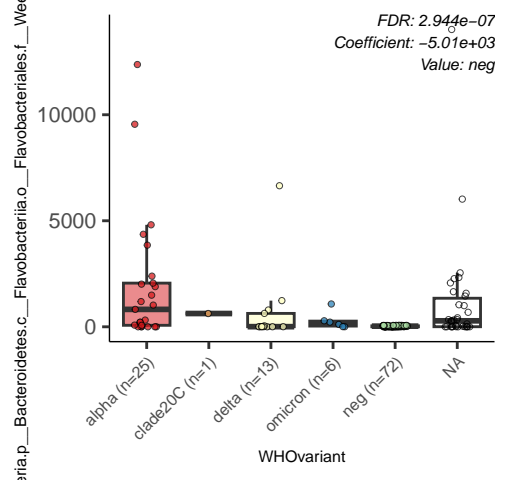
FDR: $2.786e-07$
Coefficient: $-1.94e+03$
Value: neg

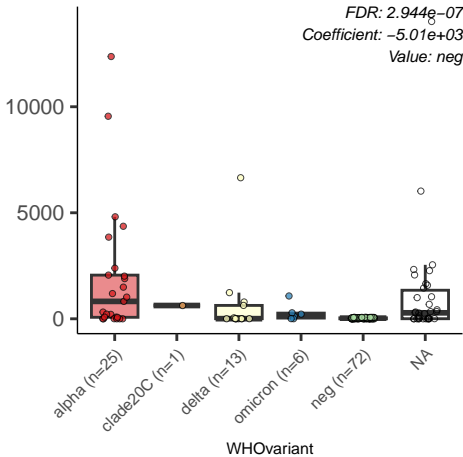


_Bacteria.p__Bacteroidetes.c__Chitinophagia.o__Chitinophagales.f

FDR: $2.786e-07$
Coefficient: $-1.94e+03$
Value: neg

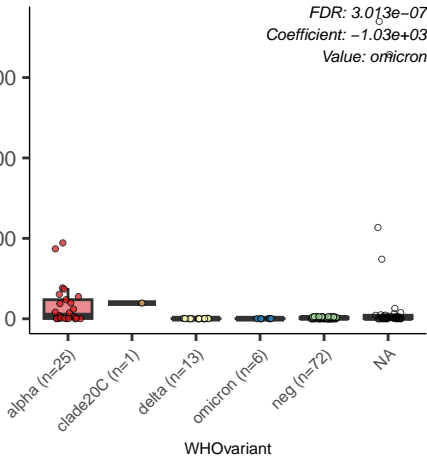






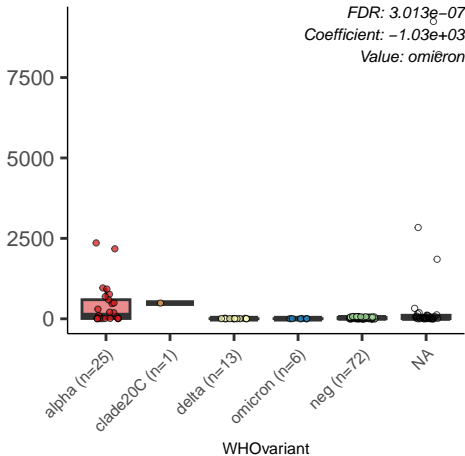
Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

FDR: $3.013e-07$
Coefficient: $-1.03e+03$
Value: omicron



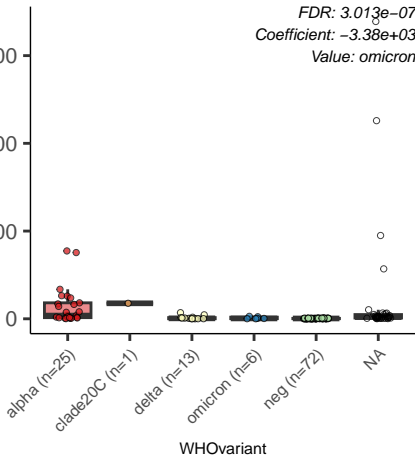
Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g__Aquim

FDR: $3.013e-07$
Coefficient: $-1.03e+03$
Value: omiëron

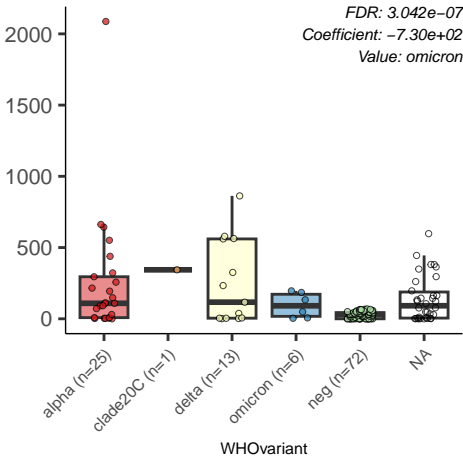


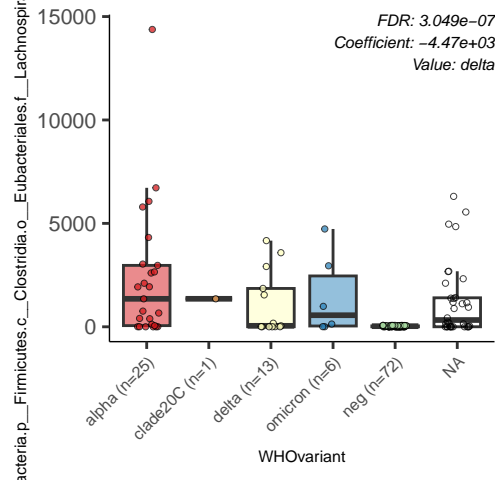
Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Com

FDR: $3.013e-07$
Coefficient: $-3.38e+03$
Value: omicron



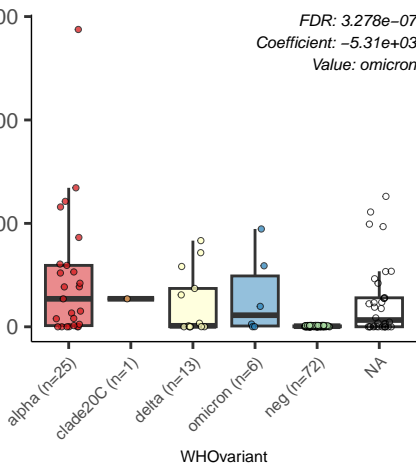
acteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Enterococcaceae

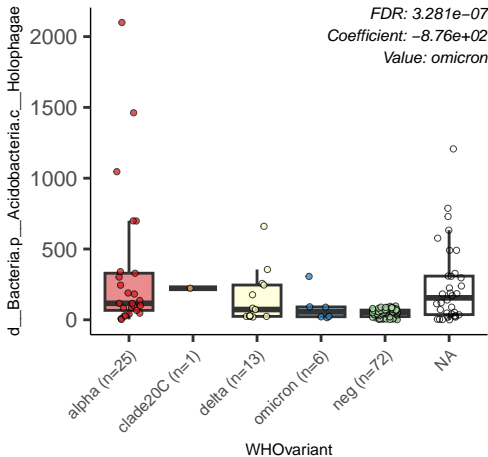




bacteria.p_Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospir

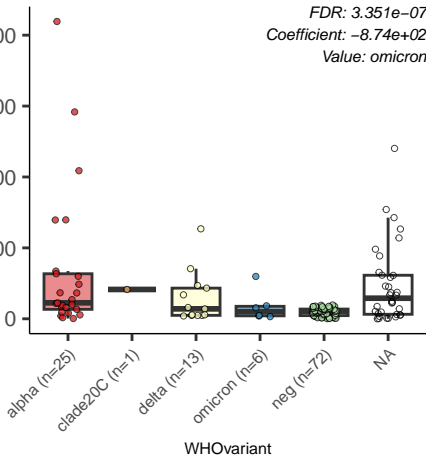
FDR: 3.278e-07
Coefficient: -5.31e+03
Value: omicron

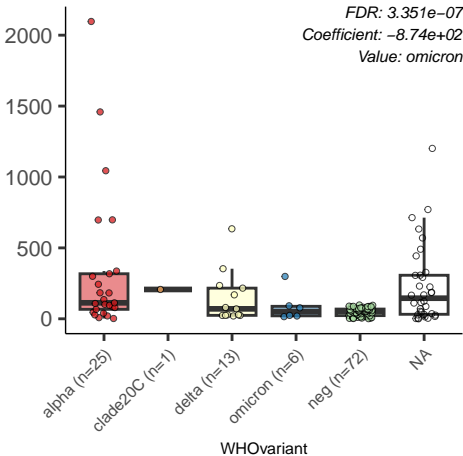




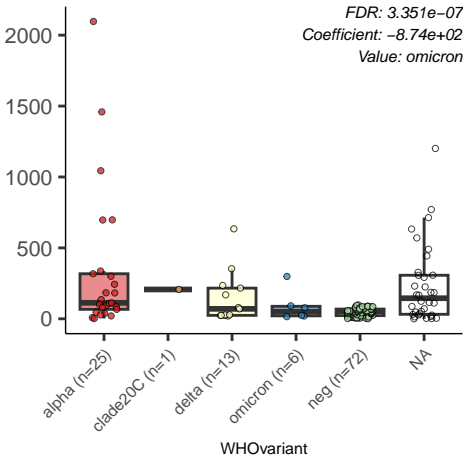
d__Bacteria.p__Acidobacteria.c__Holophagae.o__Acanthopile

FDR: $3.351e-07$
Coefficient: $-8.74e+02$
Value: omicron

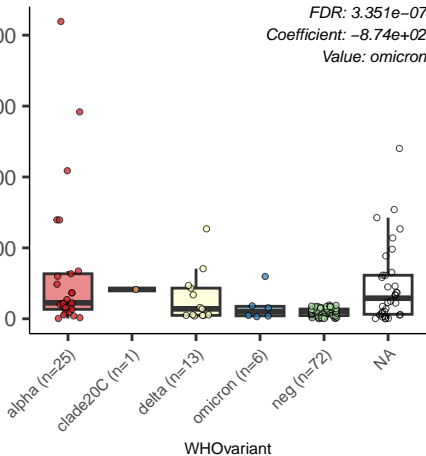




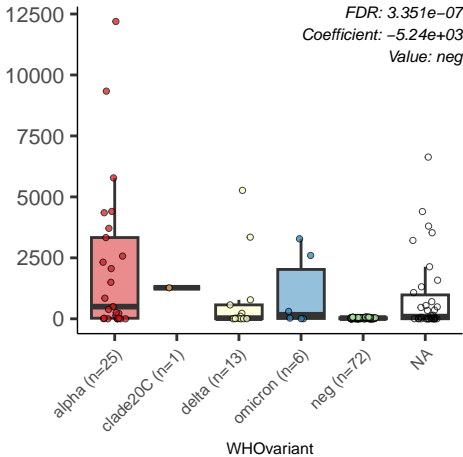
cidobacteria.c__Holophagae.o__Acanthopleuribacterales.f__Acanth



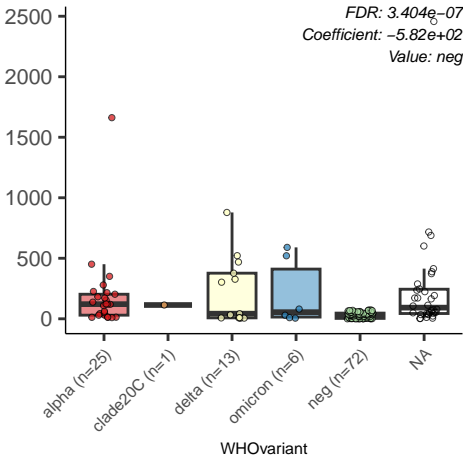
FDR: $3.351e-07$
Coefficient: $-8.74e+02$
Value: omicron

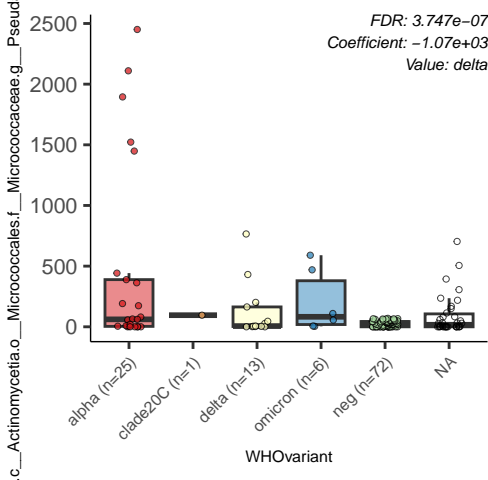


teroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_E

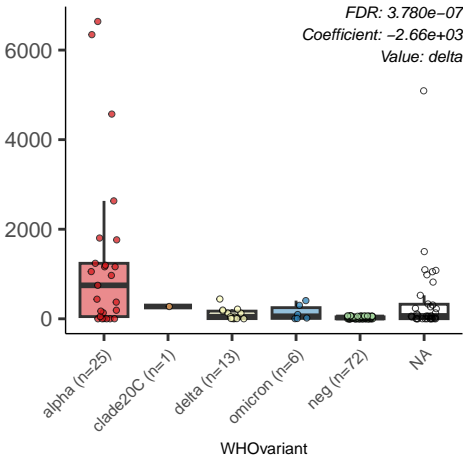


acteroidetes.c__Sphingobacteriia.o__Sphingobacteriales.f__Sphing

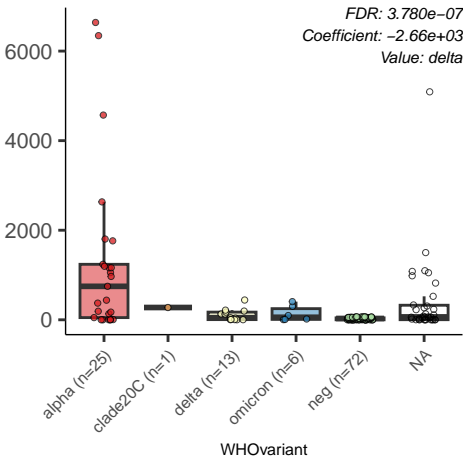


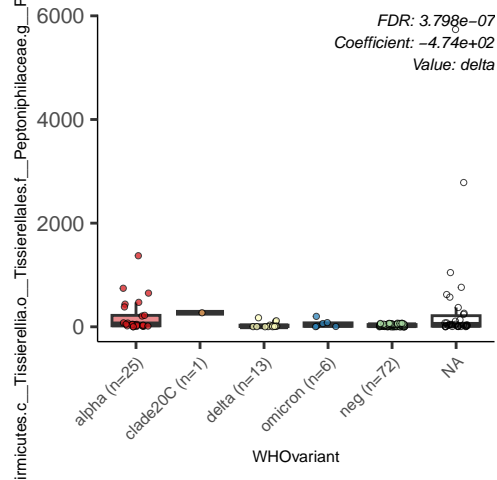


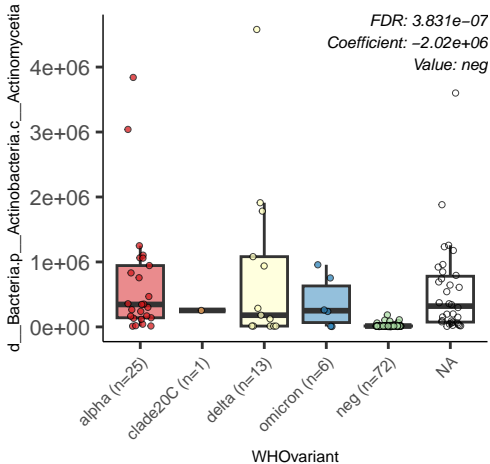
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnos



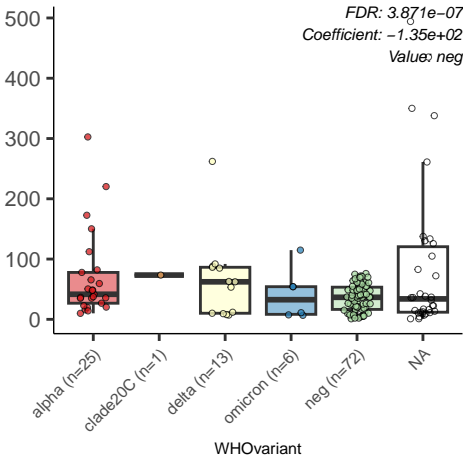
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g





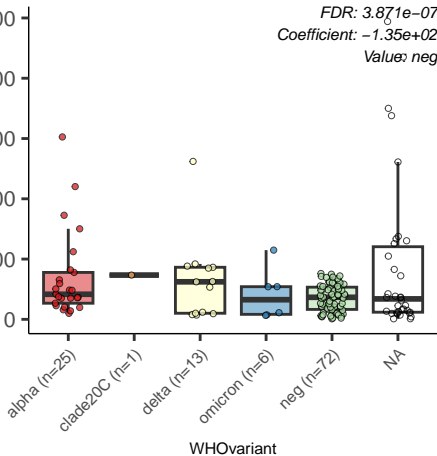


ria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g



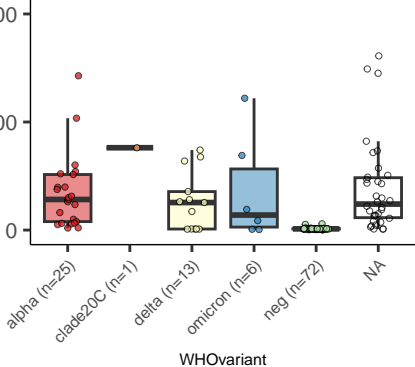
ia.c__Betaproteobacteria.o__Burkholderiales.g__Candidatus.Lichthys

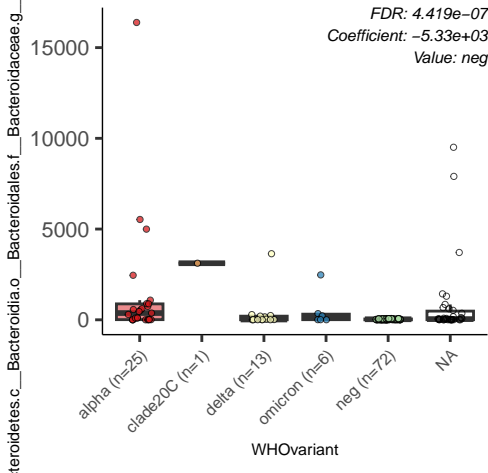
FDR: $3.871e-07$
Coefficient: $-1.35e+02$
Value: neg

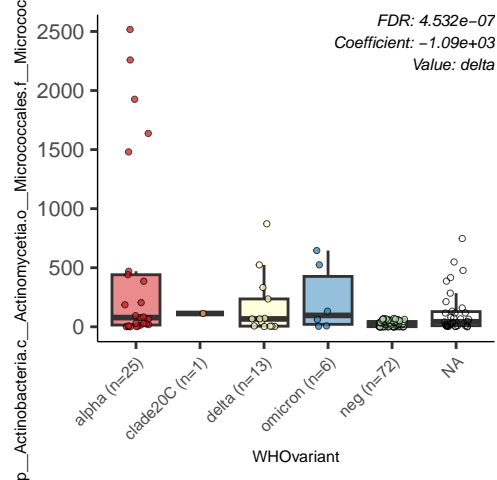


d_Bacteria.p__Cyanobacteria

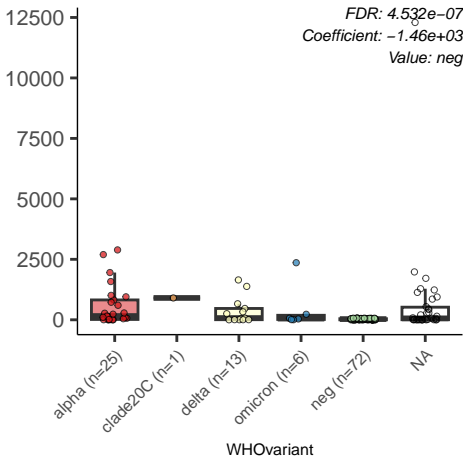
FDR: 4.184×10^{-7}
Coefficient: -1.91×10^4
Value: neg

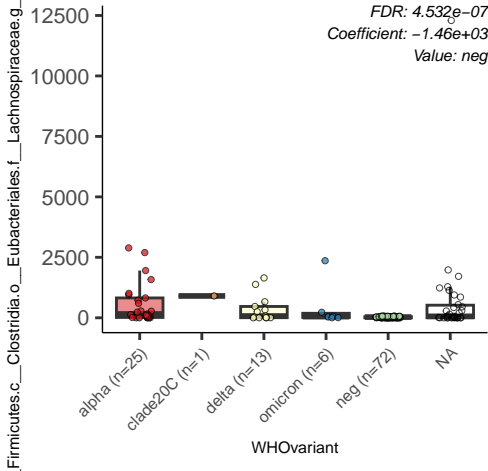




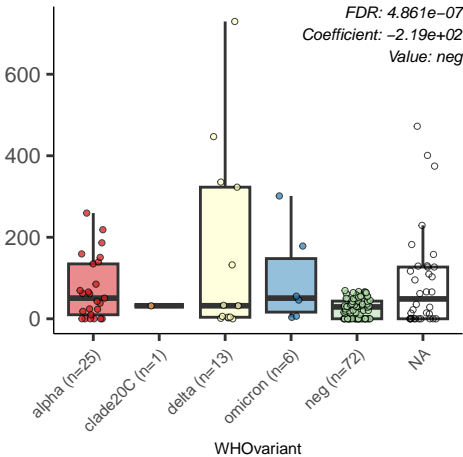


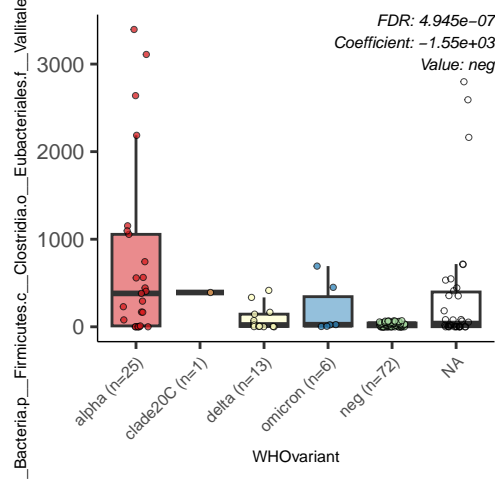
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp





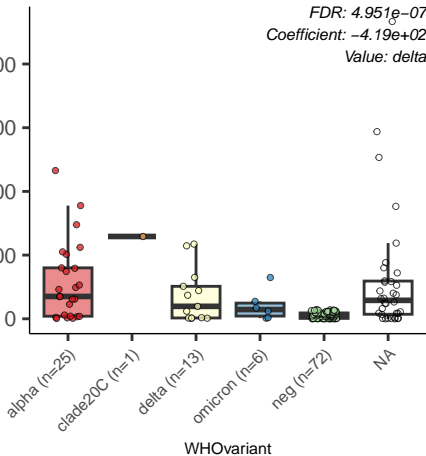
icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus





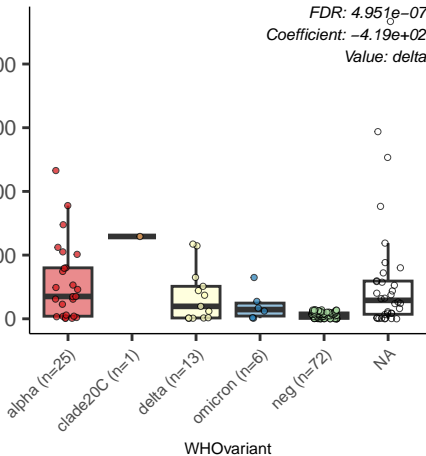
Bacteria.p__Tenericutes.c__Mollicutes.o__Entomoplasmatales.f

FDR: $4.951e-07$
Coefficient: $-4.19e+02$
Value: delta

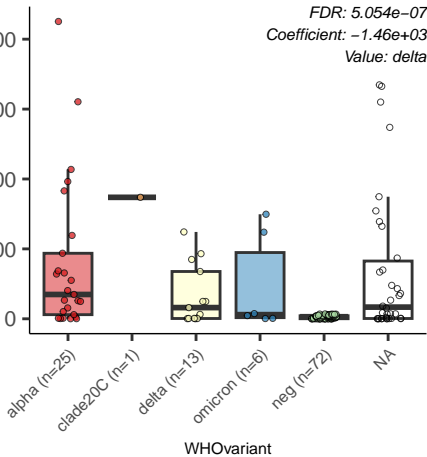


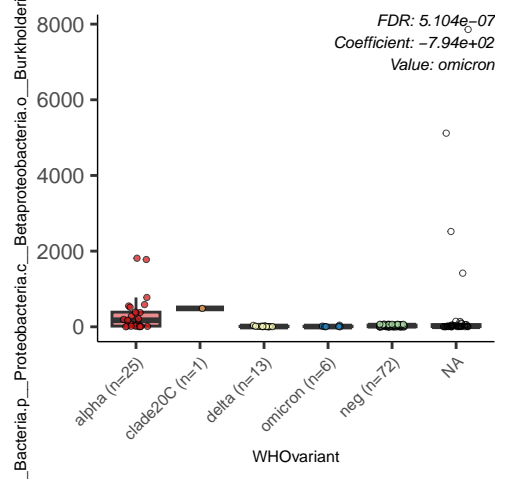
ia.p__Tenericutes.c__Mollicutes.o__Entomoplasmatales.f__Spiroplasma

FDR: $4.951e-07$
Coefficient: $-4.19e+02$
Value: delta



d_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Desu





FDR: 5.189e-07
Coefficient: -4.78e+02
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

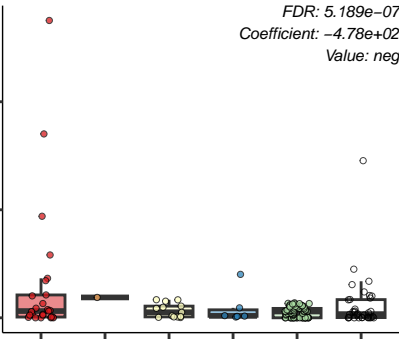
delta (n=13)

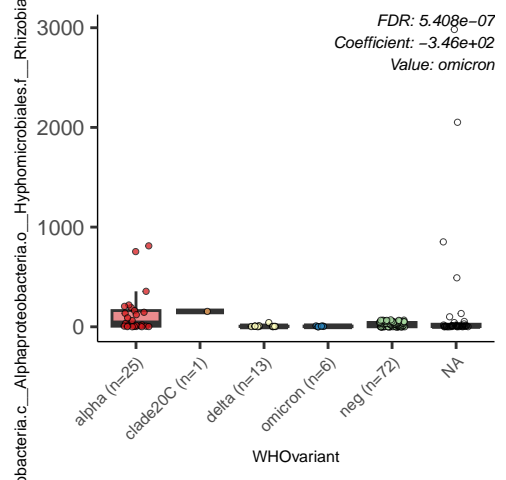
omicron (n=6)

neg (n=72)

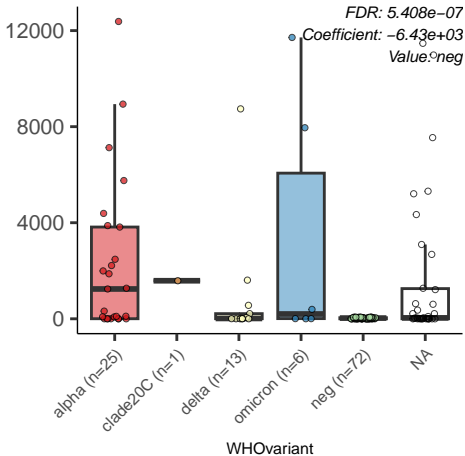
NA

WHOvariant



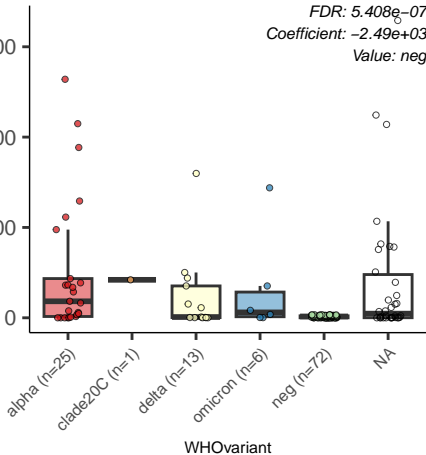


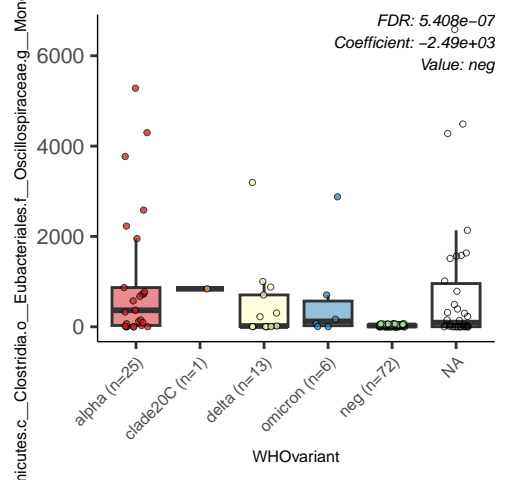
ria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flav



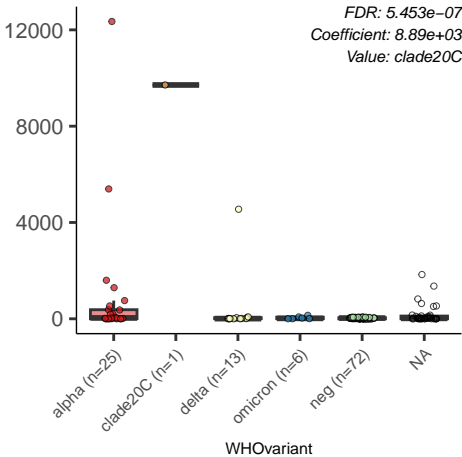
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospir

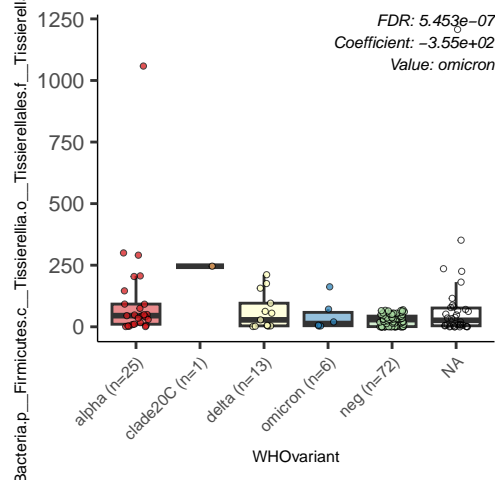
FDR: 5.408e-07
Coefficient: -2.49e+03
Value: neg





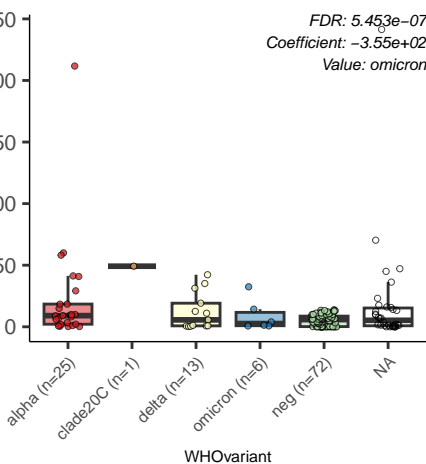
p__Planctomycetes.c__Planctomycetia.o__Planctomycetales.f__Pla



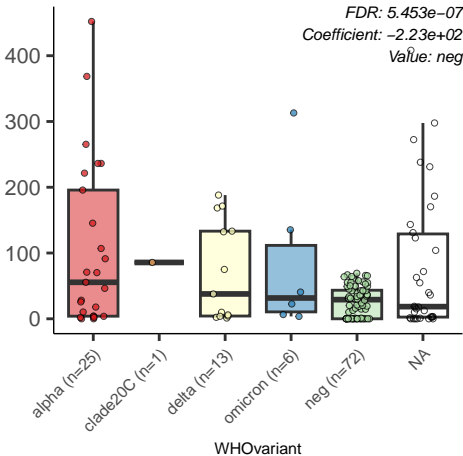


Firmicutes.c__Tissierellia.o__Tissierellales.f__Tissierellaceae.g__G

FDR: 5.453e-07
Coefficient: -3.55e+02
Value: omicron

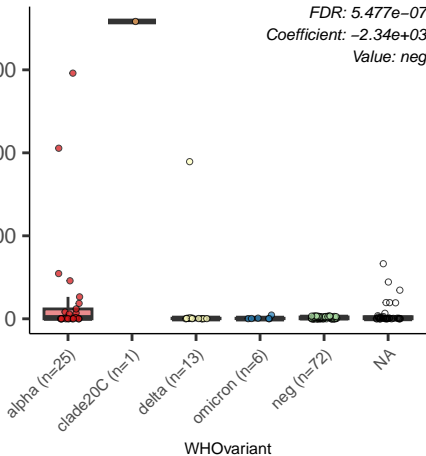


Firmicutes.c__Clostridia.o__Thermoanaerobacterales.f__Thermo

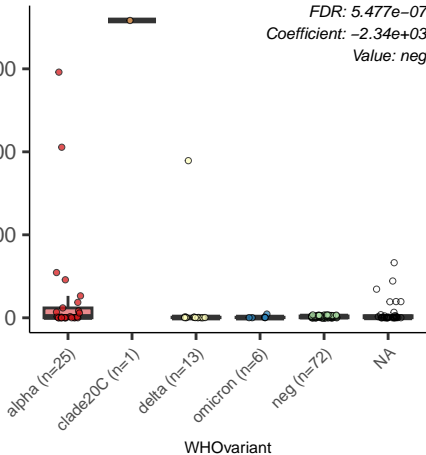


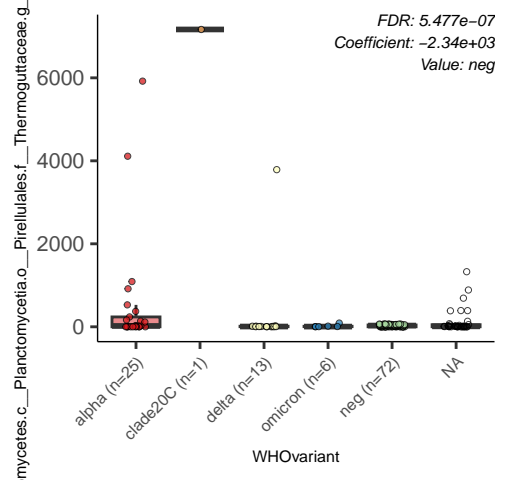
Bacteria.p_Planctomycetes.c_Planctomycetia.o_Pirellulales.f

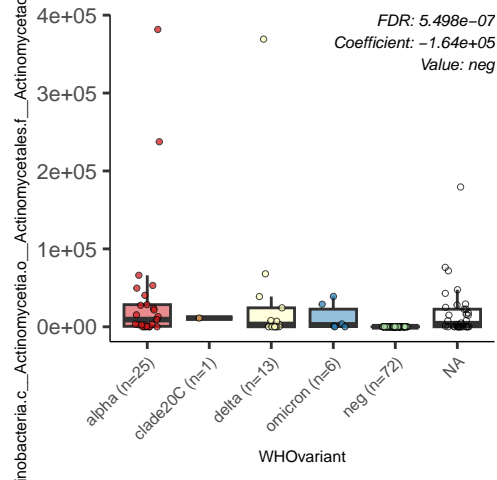
FDR: 5.477e-07
Coefficient: -2.34e+03
Value: neg

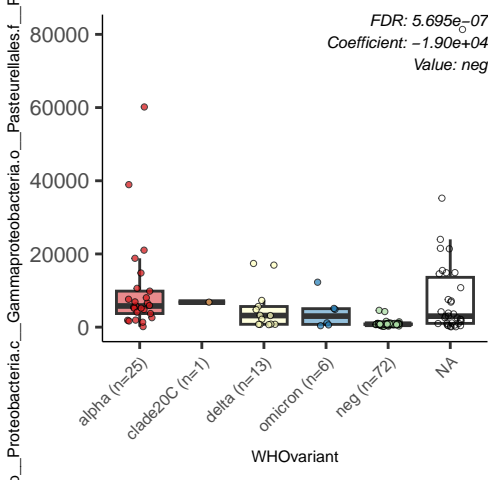


FDR: 5.477e-07
Coefficient: -2.34e+03
Value: neg



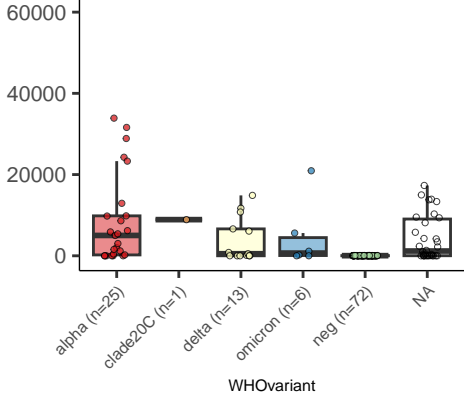


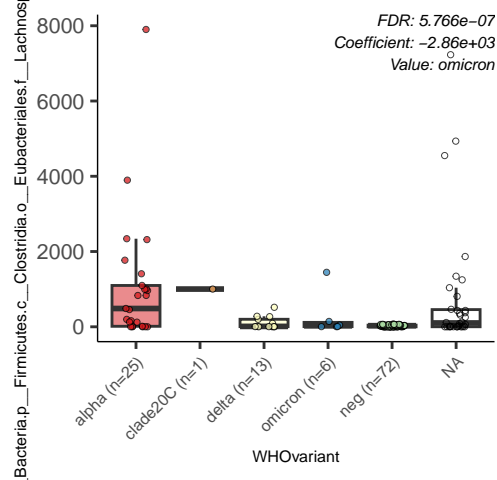




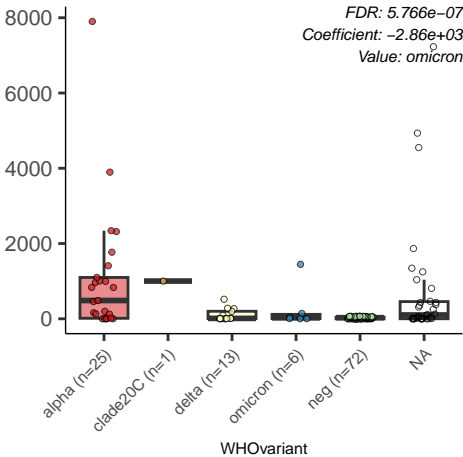
bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

FDR: 5.696e-07
Coefficient: -1.56e+04
Value: delta

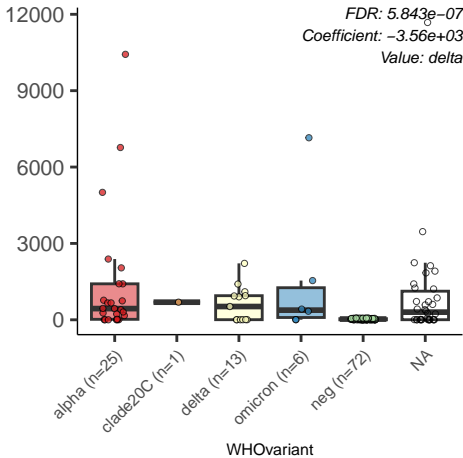


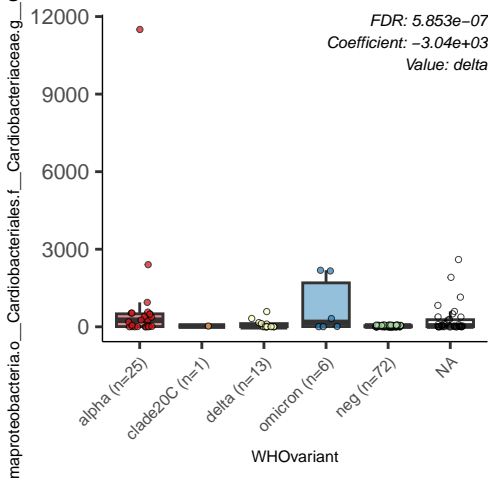


p_Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae

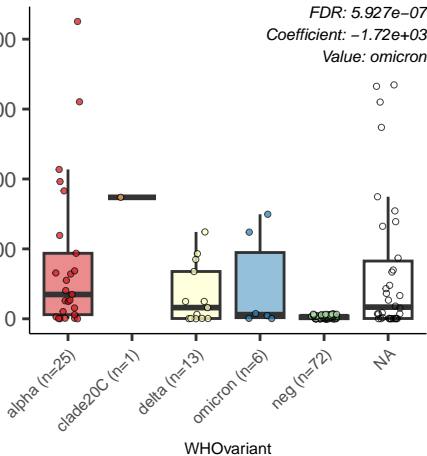


bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae



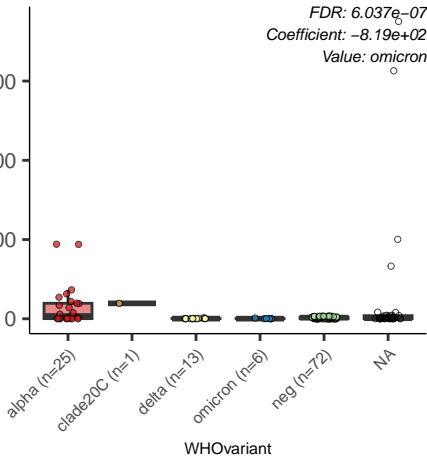


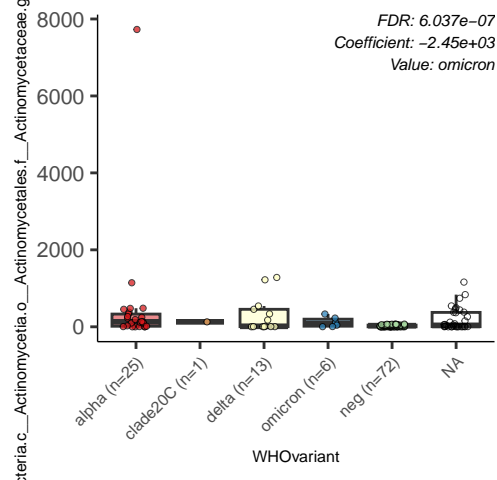
d_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Des



Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Com

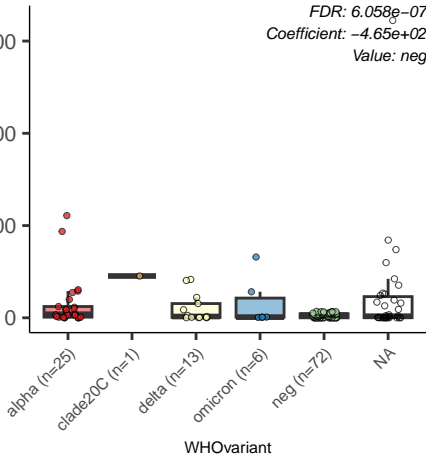
FDR: $6.037e-07$
Coefficient: $-8.19e+02$
Value: omicron





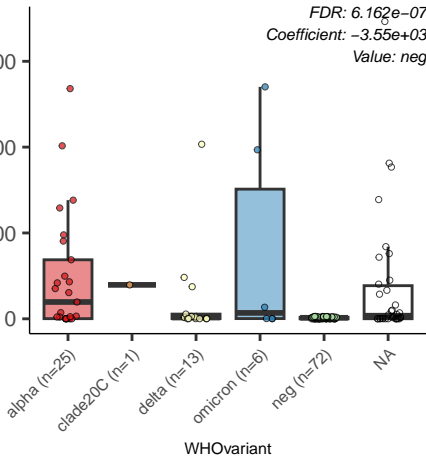
cutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Lachnospiraceae

$FDR: 6.058e-07$
 $Coefficient: -4.65e+02$
 $Value: neg$

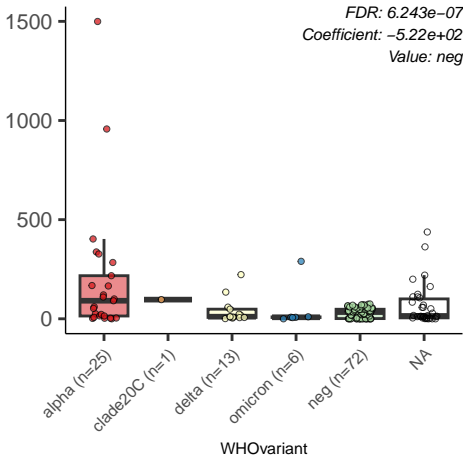


iria.p__Tenericutes.c__Mollicutes.o__Mycoplasmales.f__Mycoplasma

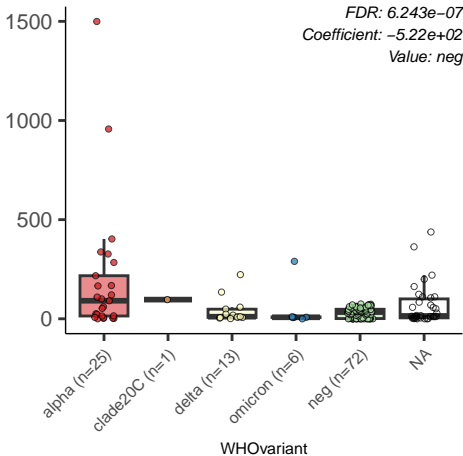
FDR: 6.162×10^{-7}
Coefficient: -3.55×10^3
Value: neg



eria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Oscillospirac

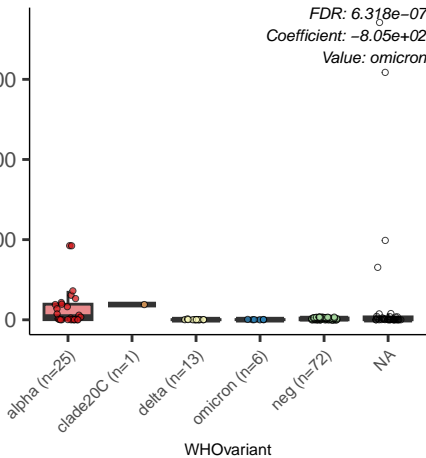


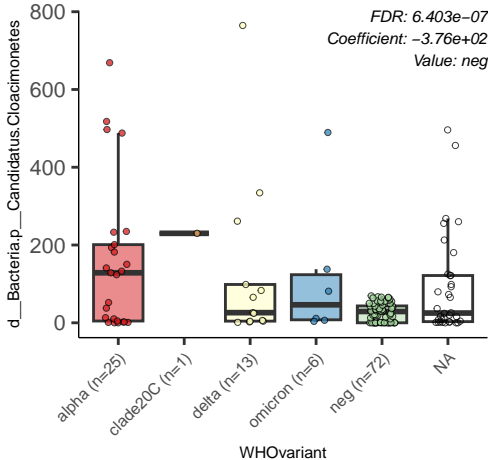
s.c._Clostridia.o_Eubacteriales.f_Oscillospiraceae.g_Ruthenib

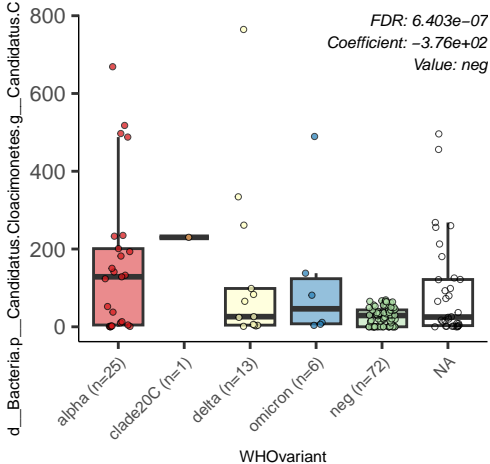


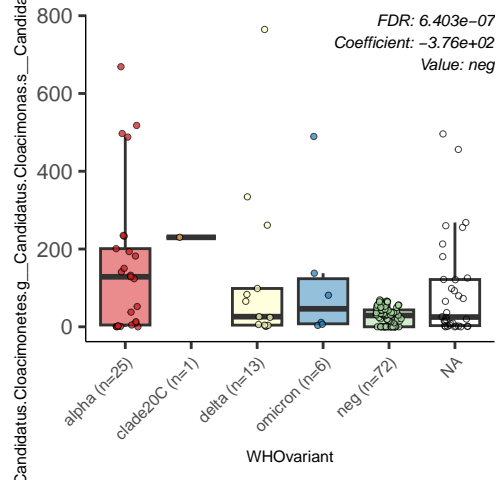
Betaproteobacteria.o__Burkholderiales.f__Comamonadaceae.g

FDR: $6.318e-07$
Coefficient: $-8.05e+02$
Value: omicron

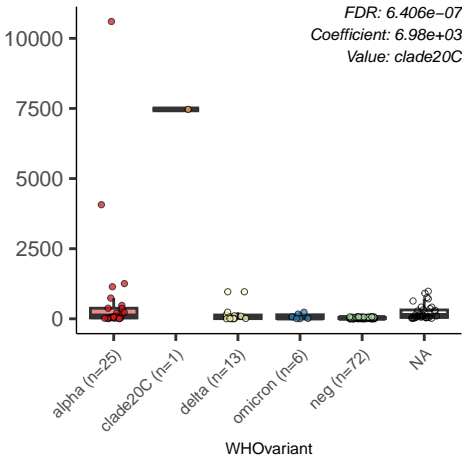




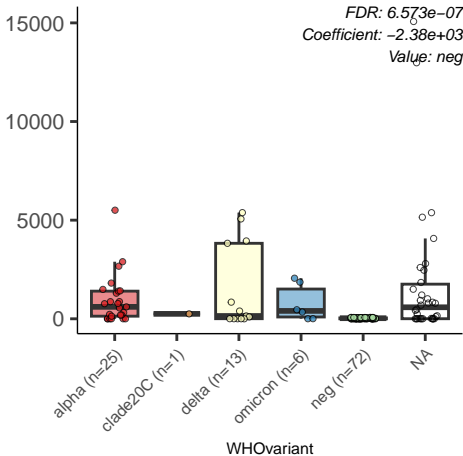




d__Bacteria.p__Cyanobacteria.o__Pseudanabaenales.f__Lept

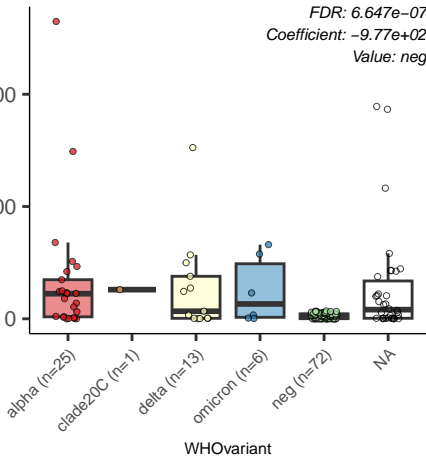


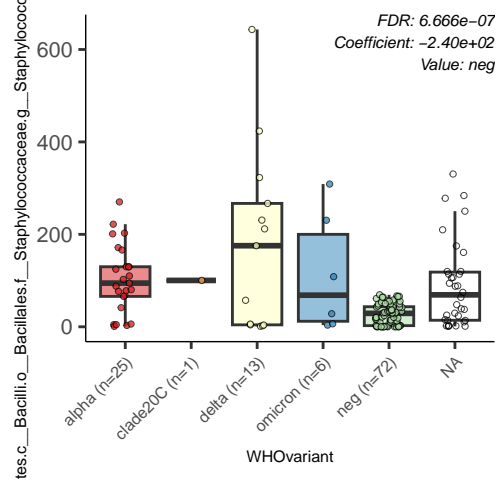
Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__St

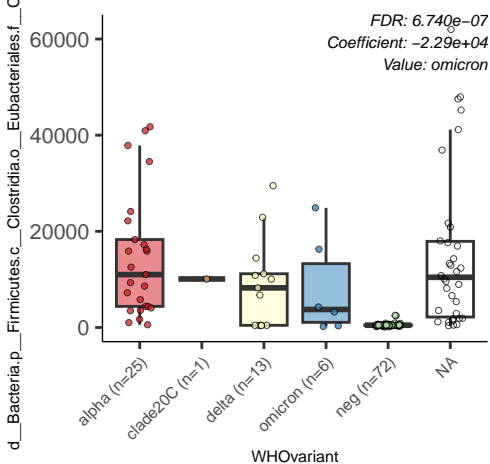


d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Marinifilum

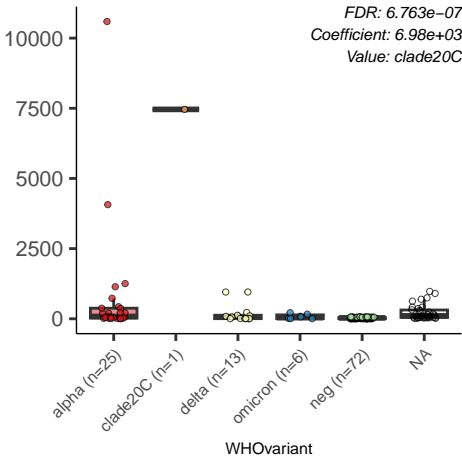
FDR: 6.647×10^{-7}
Coefficient: -9.77×10^2
Value: neg

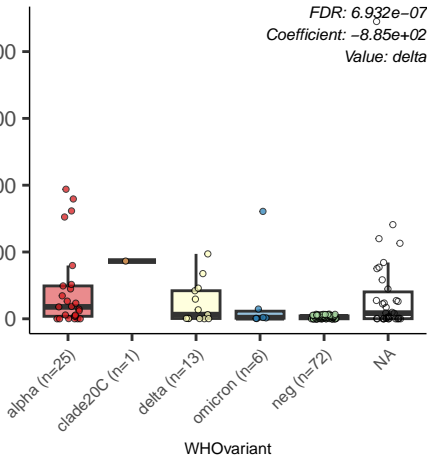






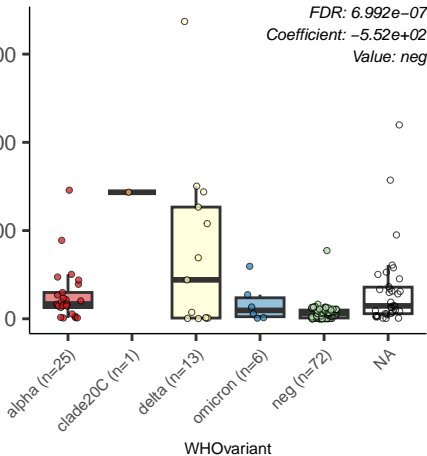
bacteria.p__Cyanobacteria.o__Pseudanabaenales.f__Leptolyngbya

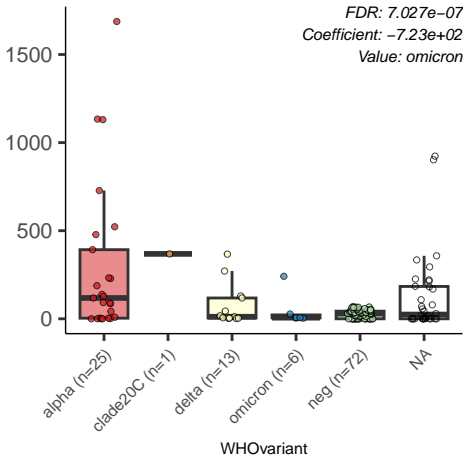




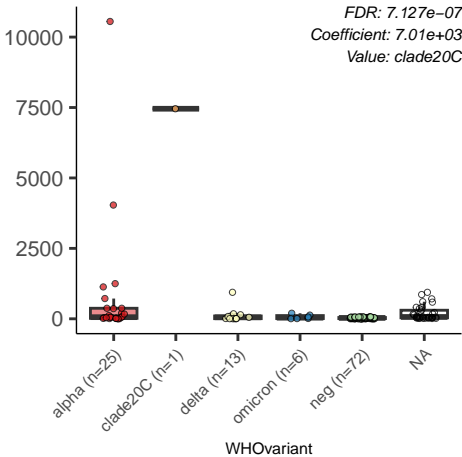
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Aerococca

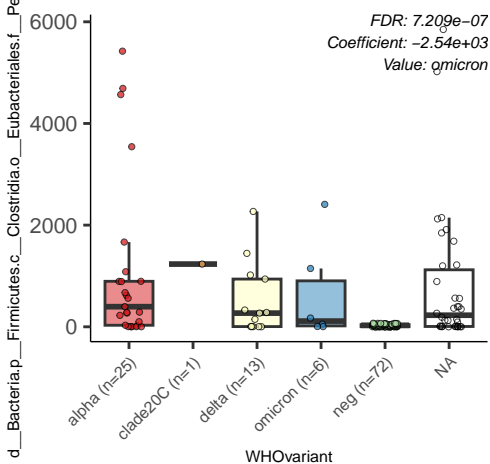
FDR: $6.992e-07$
Coefficient: $-5.52e+02$
Value: neg



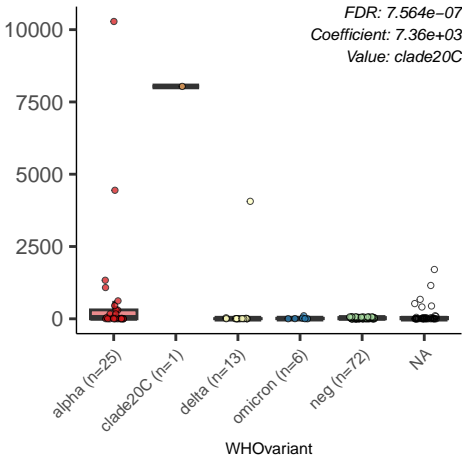


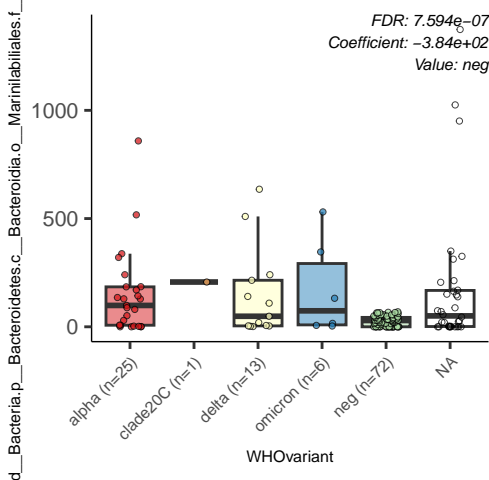
Cyanobacteria.o__Pseudanabaenales.f__Leptolyngbyaceae.g__Lep

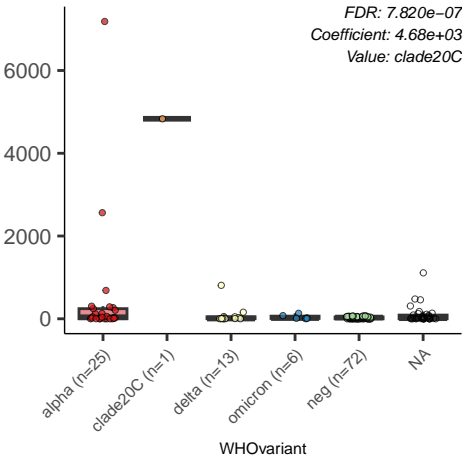


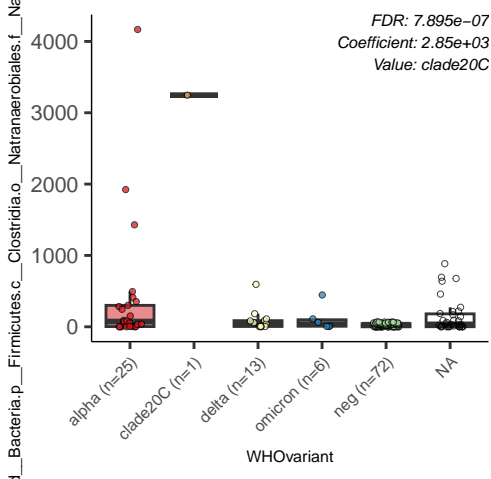


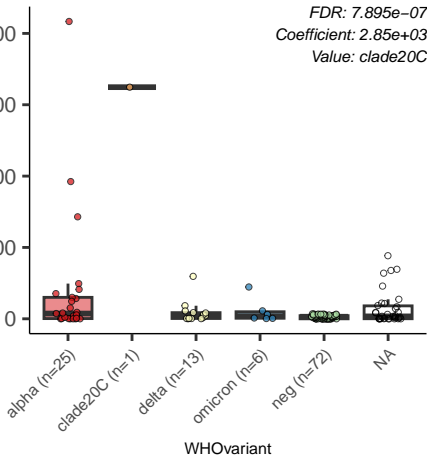
omyces.c__Planctomycetia.o__Planctomycetales.f__Planctomycet



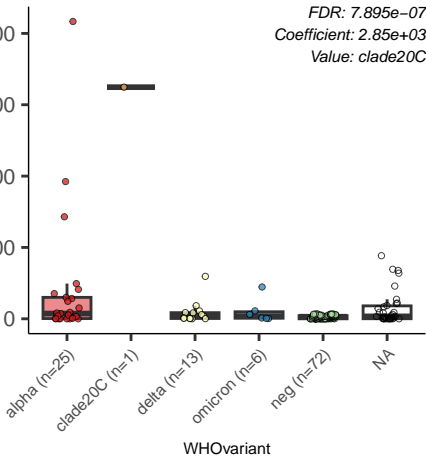






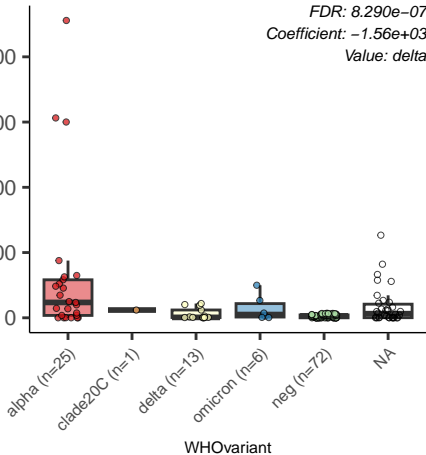


Value: clade20C



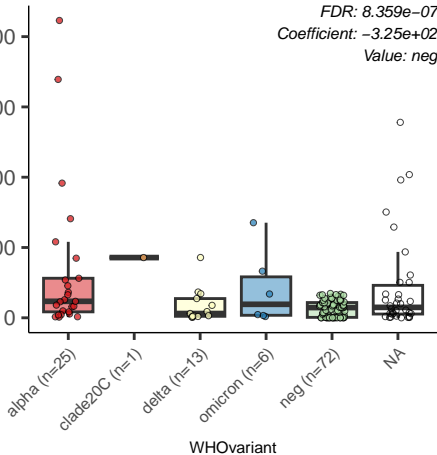
rmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Ar

FDR: 8.290e-07
Coefficient: -1.56e+03
Value: delta

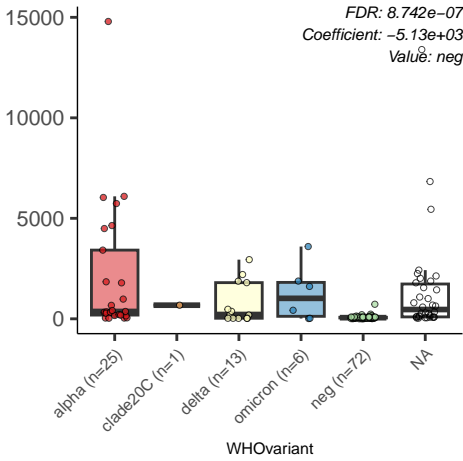


__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales

FDR: $8.359e-07$
Coefficient: $-3.25e+02$
Value: neg

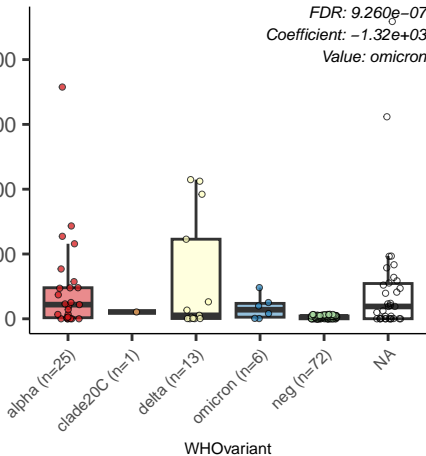


Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales



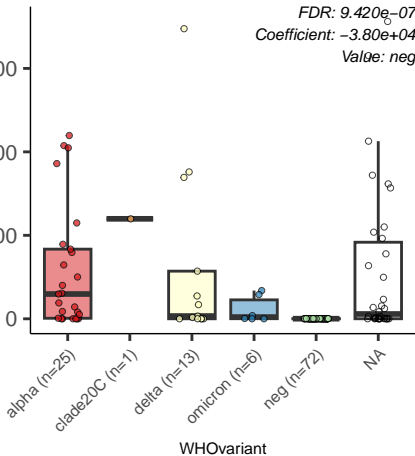
irmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str

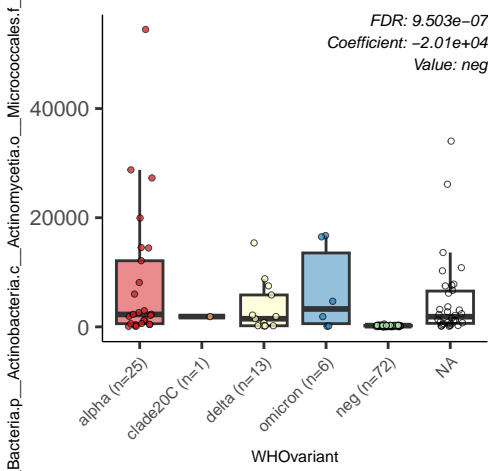
FDR: $9.260e-07$
Coefficient: $-1.32e+03$
Value: omicron

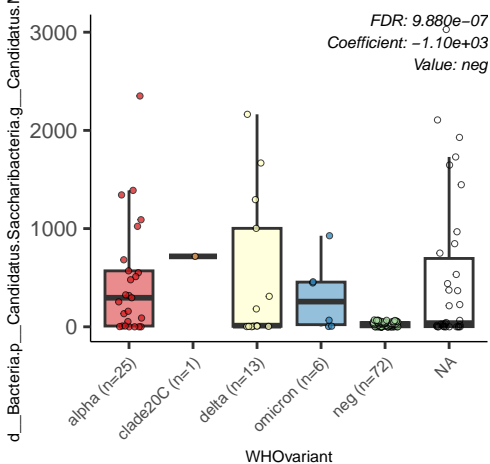


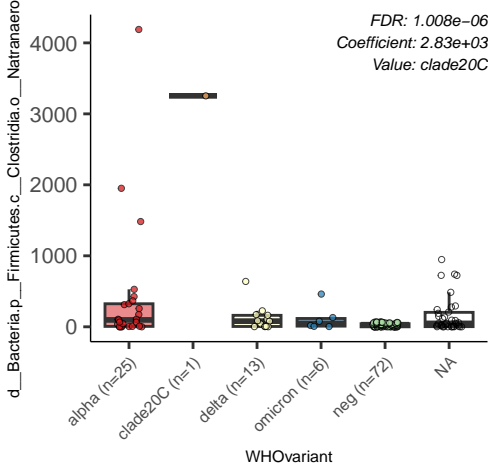
charimonadia.o__Candidatus.Nanosynbacterales.f__Candidatus.Na

$FDR: 9.420e-07$
 $Coefficient: -3.80e+04$
 $Value: neg$



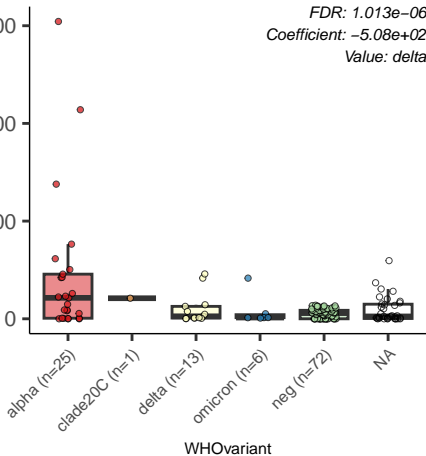


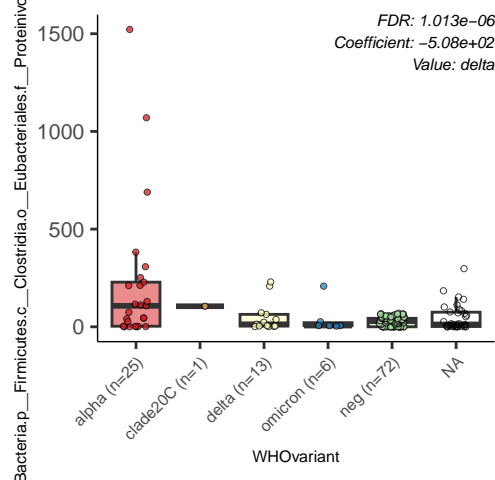


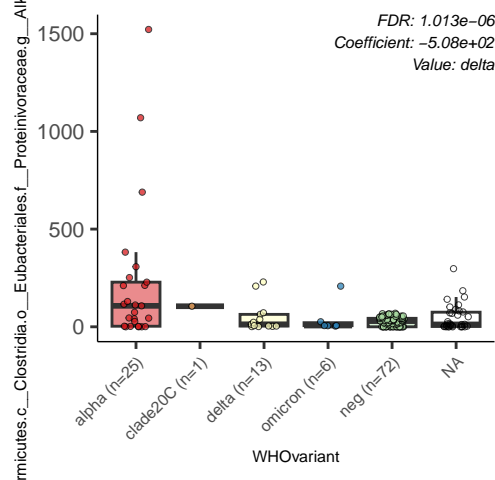


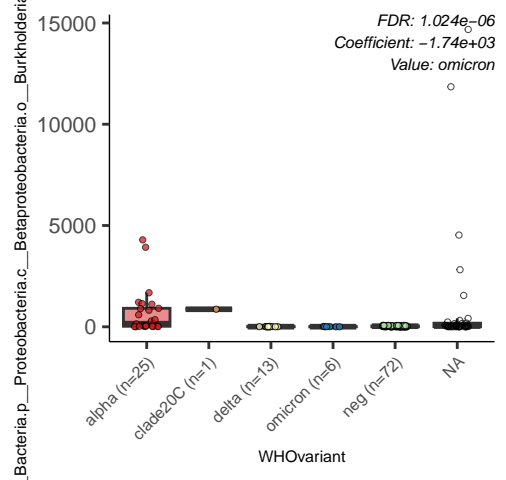
d__Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Pr

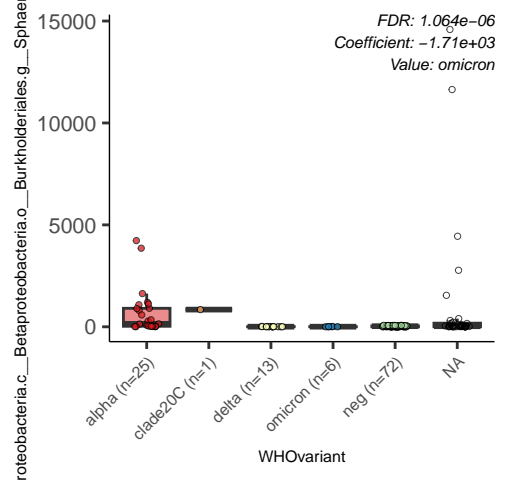
FDR: 1.013e-06
Coefficient: -5.08e+02
Value: delta

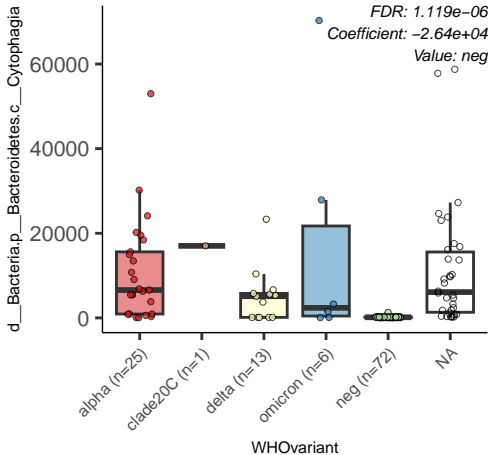


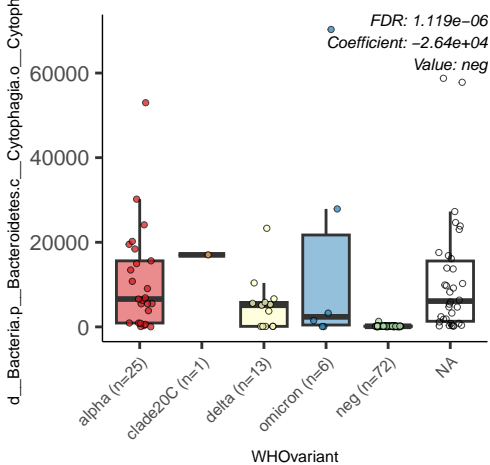


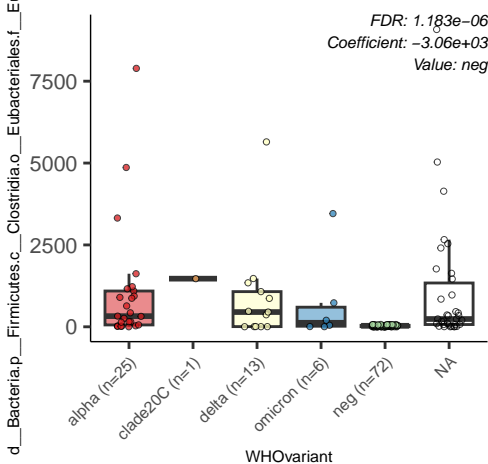


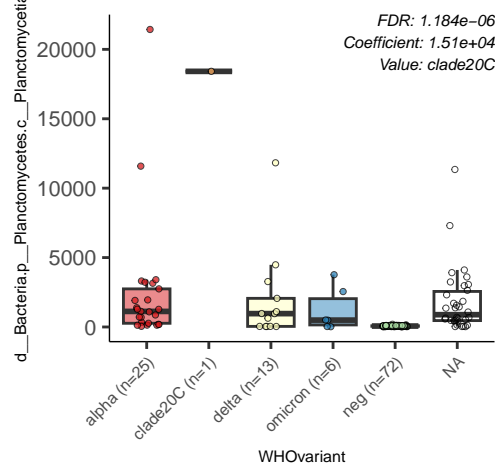


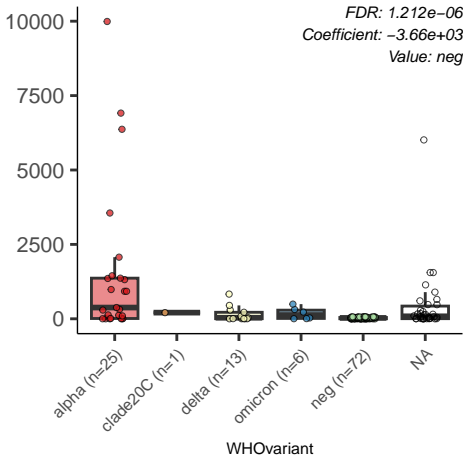






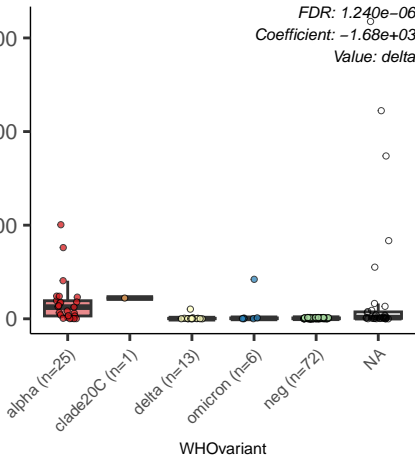




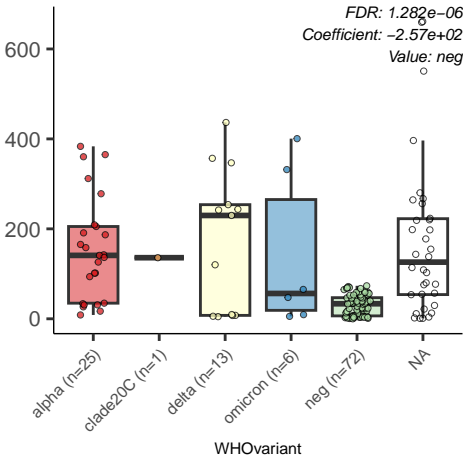


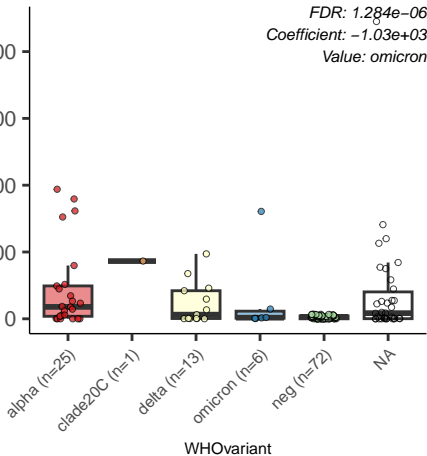
.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__C

FDR: $1.240e-06$
Coefficient: $-1.68e+03$
Value: delta



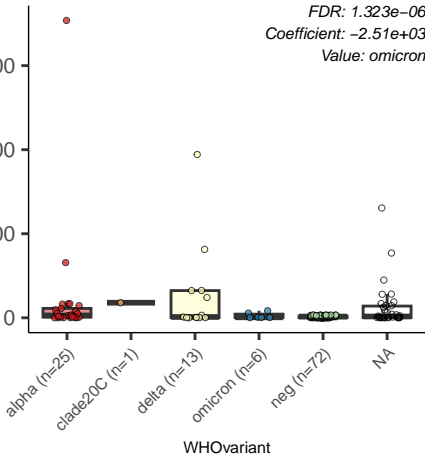
Bacteria.p_Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.g





Actinomycetia.o__Pseudonocardiales.f__Pseudonocardaceae.g__S

FDR: 1.323e-06
Coefficient: -2.51e+03
Value: omicron



d_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Plancto

FDR: $1.414e-06$
Coefficient: $9.02e+03$
Value: clade20C

10000

5000

0

alpha (n=25)

clade20C (n=1)

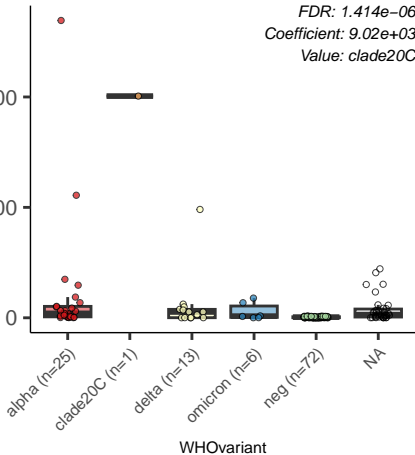
delta (n=13)

omicron (n=6)

neg (n=72)

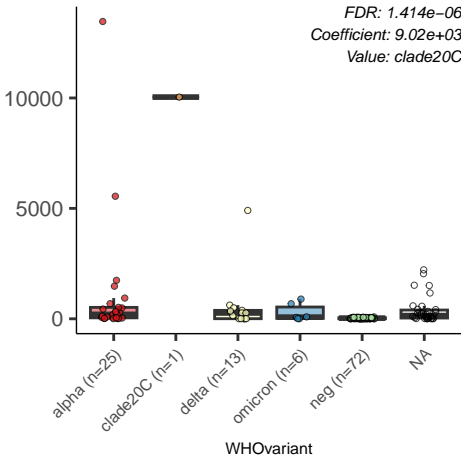
NA

WHOvariant



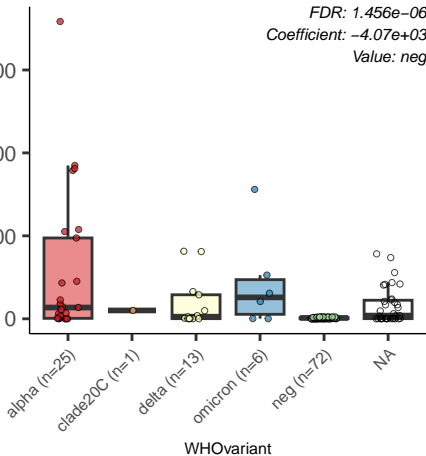
bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetales

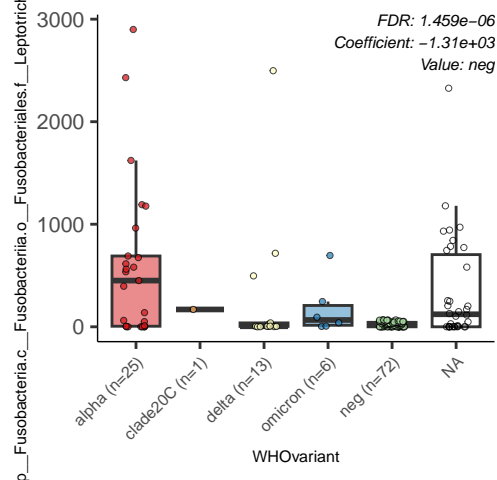
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Coefficient: $9.02e+03$
Value: clade20C

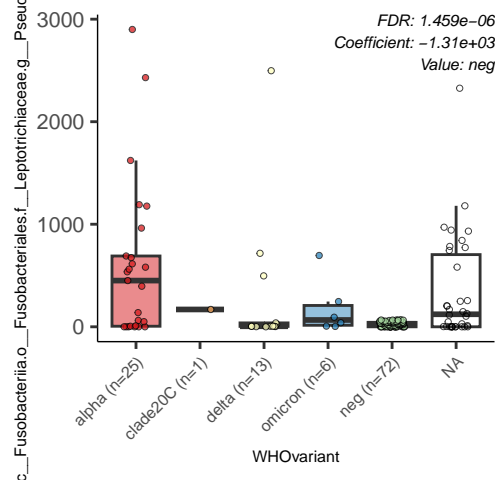


acteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae

FDR: $1.456e-06$
Coefficient: $-4.07e+03$
Value: neg

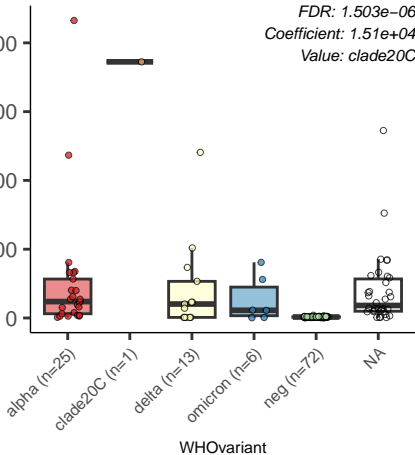


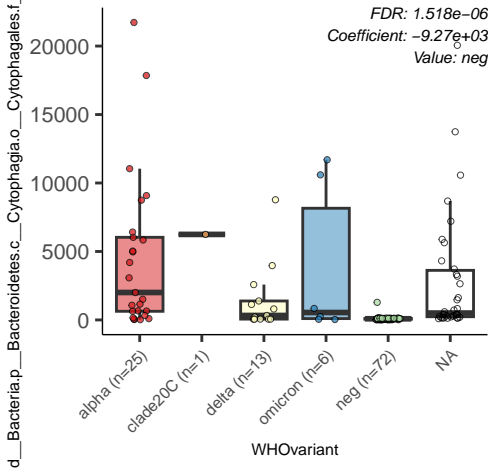


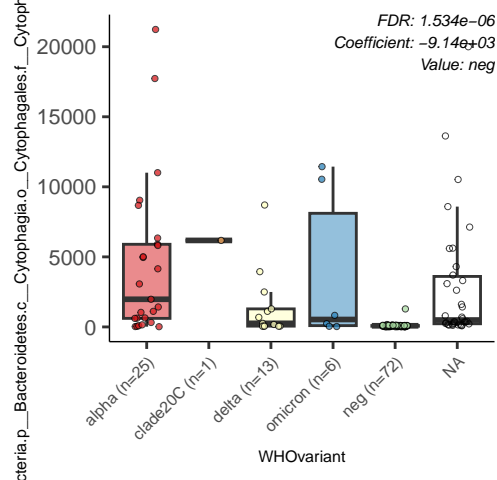


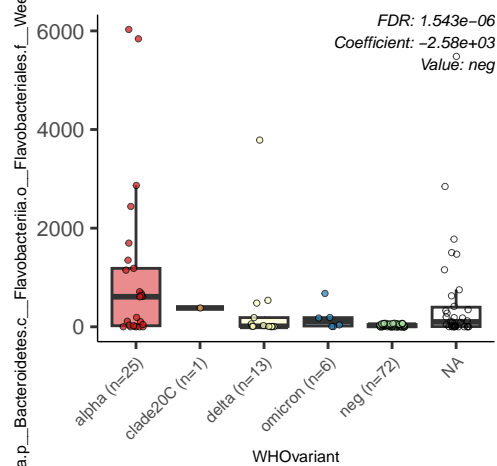
d__Bacteria.p__Planctomycetes

FDR: 1.503e-06
Coefficient: 1.51e+04
Value: clade20C

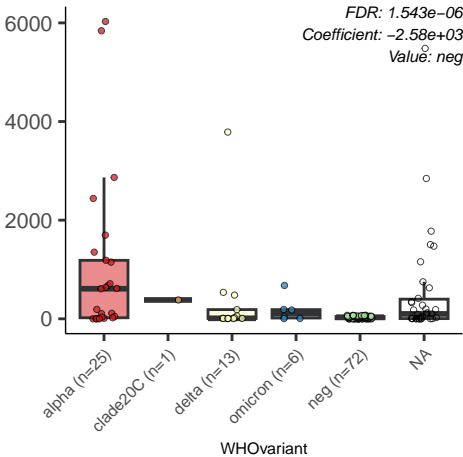




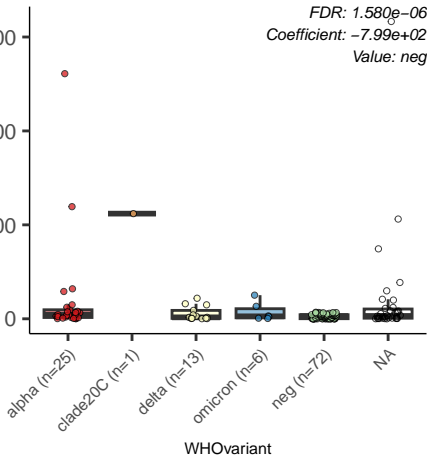


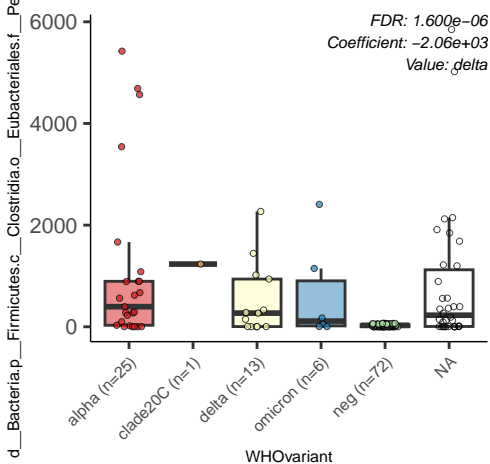


oidetes.c__Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae.g



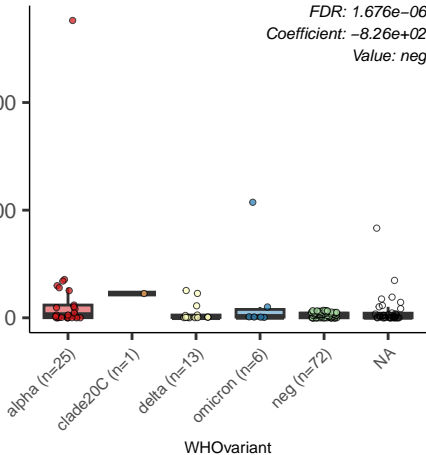
p__Bacteroidetes.c__Chitinophagia.o__Chitinophagales.f__Chitinop

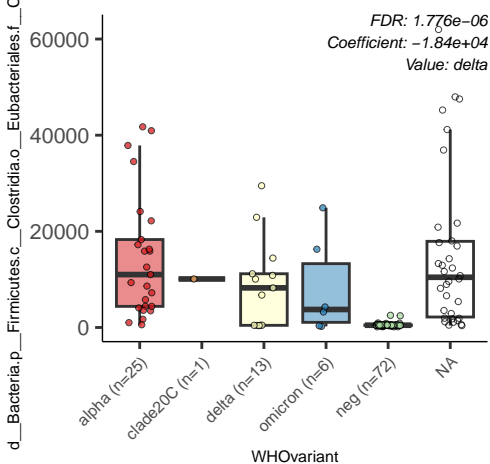




es.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g__Tre

FDR: 1.676e-06
Coefficient: -8.26e+02
Value: neg





d_Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Des

FDR: $1.794e-06$
Coefficient: $-2.95e+03$
Value: neg

10000

5000

0

alpha (n=25)

clade20C (n=1)

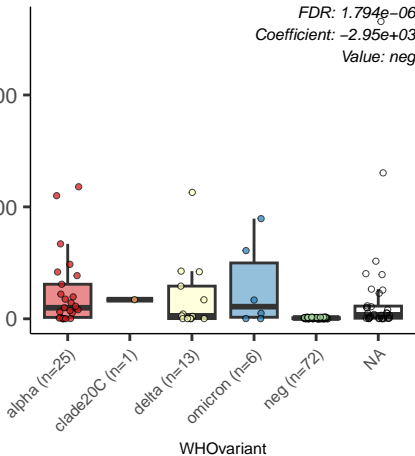
delta (n=13)

omicron (n=6)

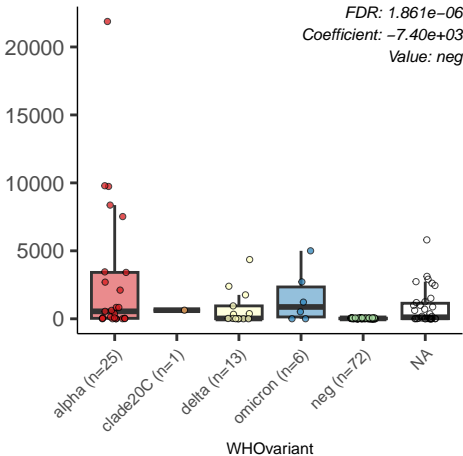
neg (n=72)

NA

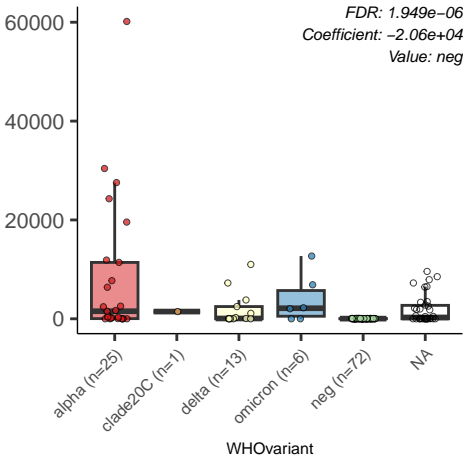
WHOvariant

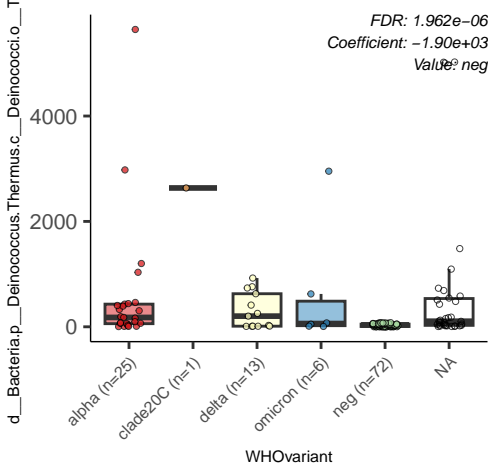


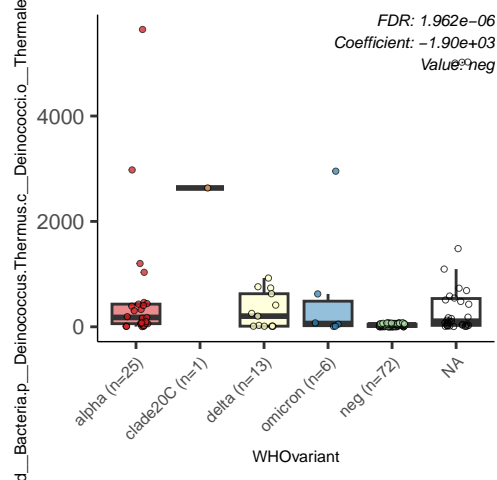
ctinobacteria.c__Actinomycetia.o__Pseudonocardiales.f__Pseudonoc

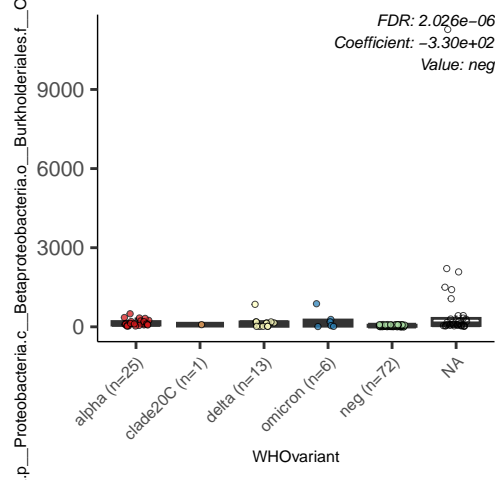


acteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae.g



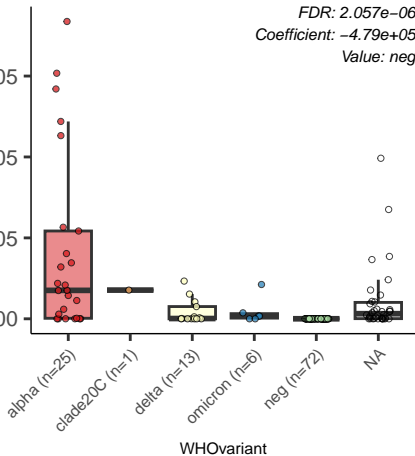






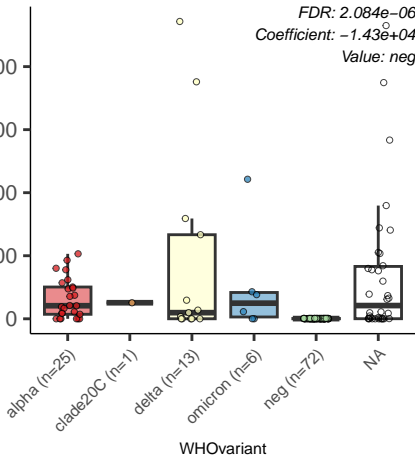
__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f

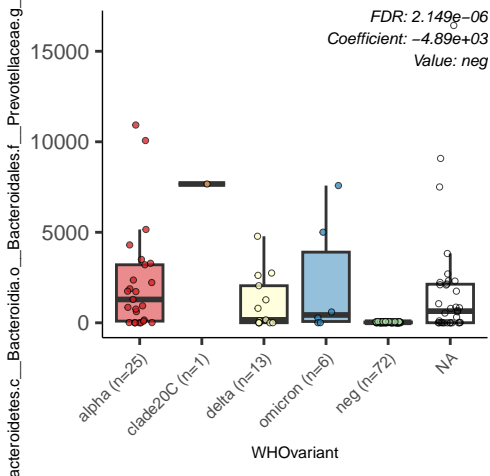
FDR: 2.057e-06
Coefficient: -4.79e+05
Value: neg

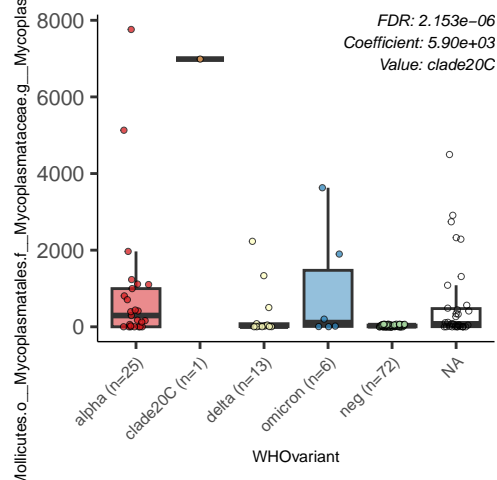


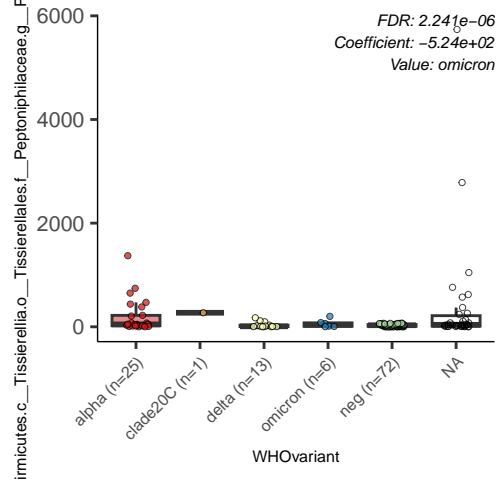
Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str

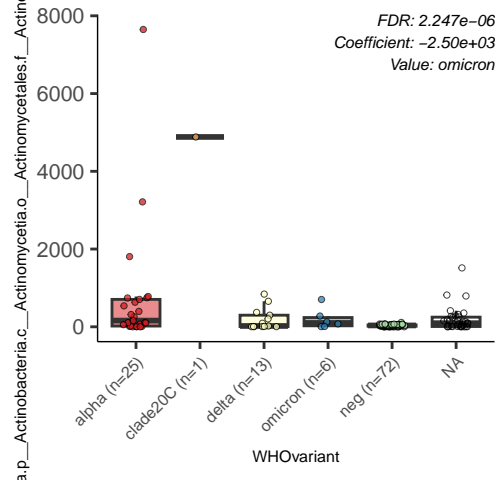
FDR: 2.084e-06
Coefficient: -1.43e+04
Value: neg

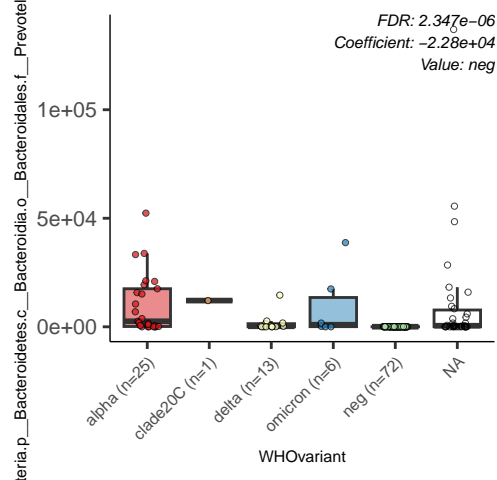












FDR: $2.347e-06$
Coefficient: $-2.28e+04$
Value: neg

1e+05

5e+04

0e+00

alpha (n=25)

clade20C (n=1)

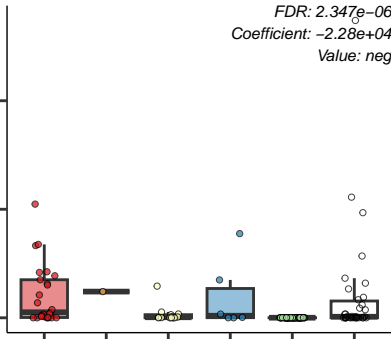
delta (n=13)

omicron (n=6)

neg (n=72)

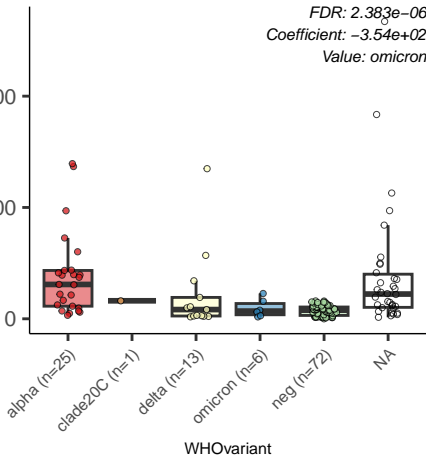
NA

WHOvariant

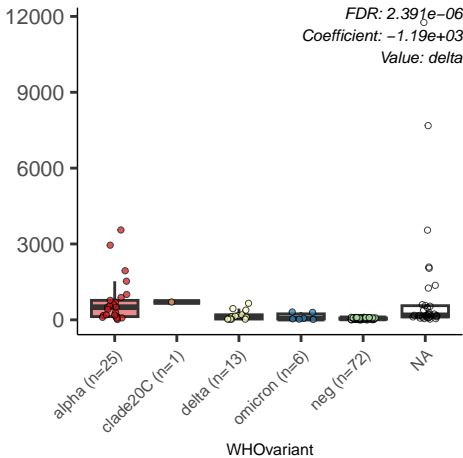


i.p._Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Weeks

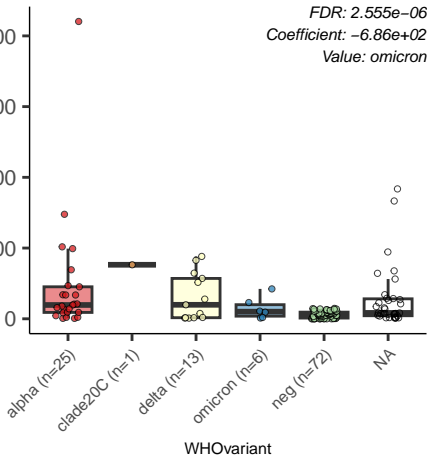
FDR: $2.383e-06$
Coefficient: $-3.54e+02$
Value: omicron

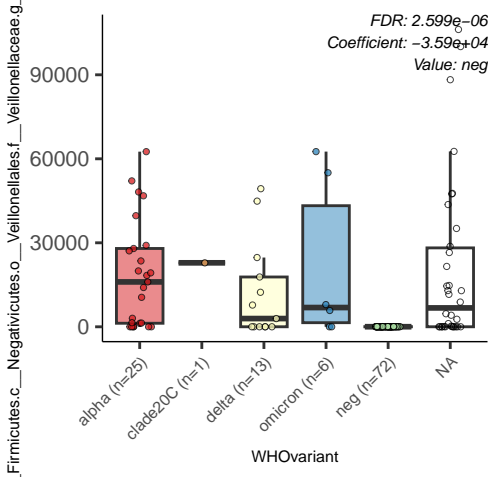


Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia



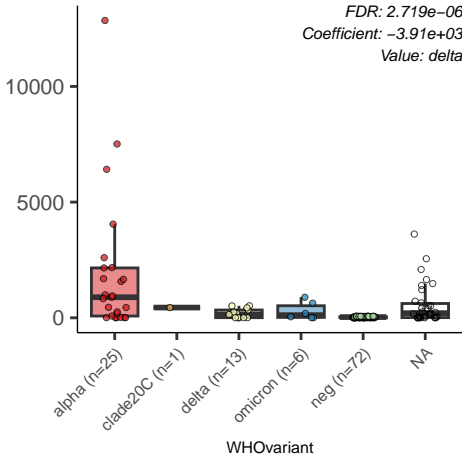
d__Bacteria.p__Firmicutes.c__Tissierellia.g__Ezakiell



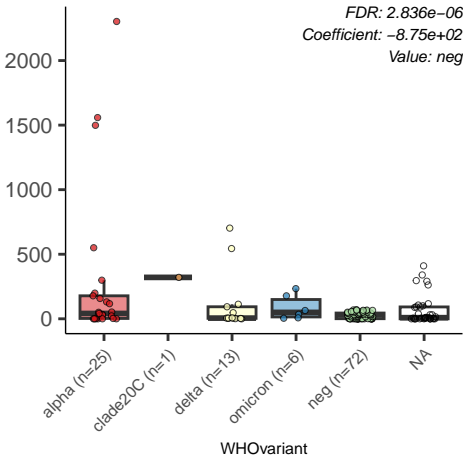


bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospir

FDR: 2.719e-06
Coefficient: -3.91e+03
Value: delta

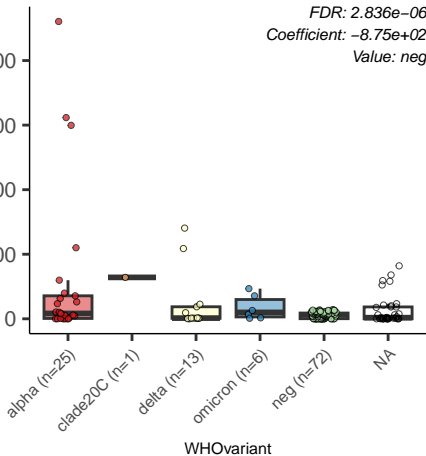


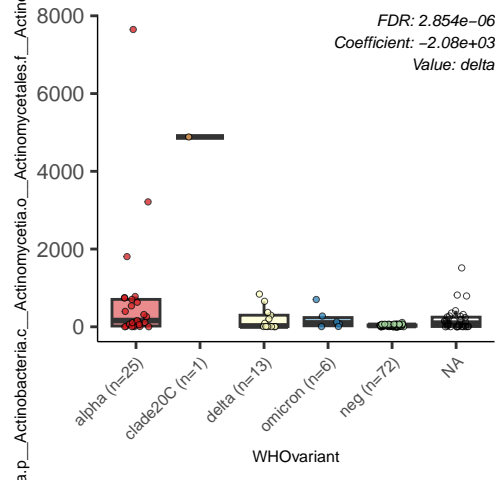
eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira



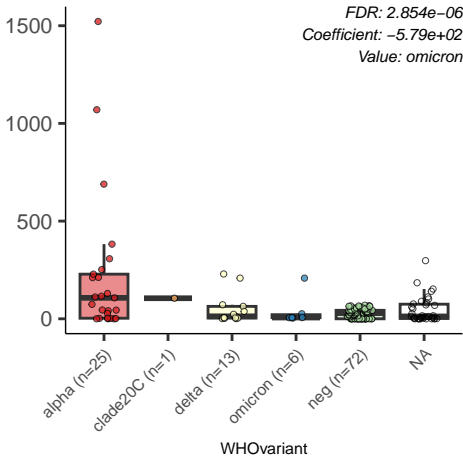
Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Pseudoclostridium

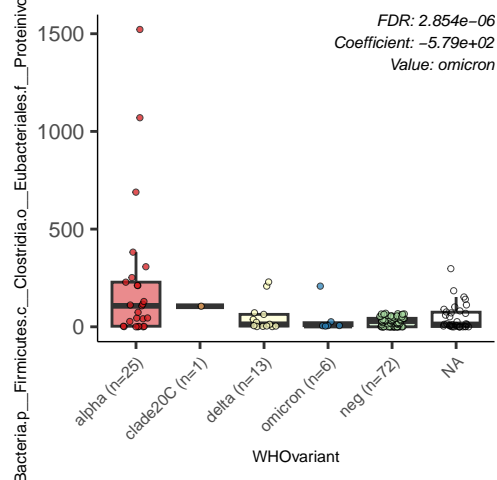
FDR: 2.836e-06
Coefficient: -8.75e+02
Value: neg

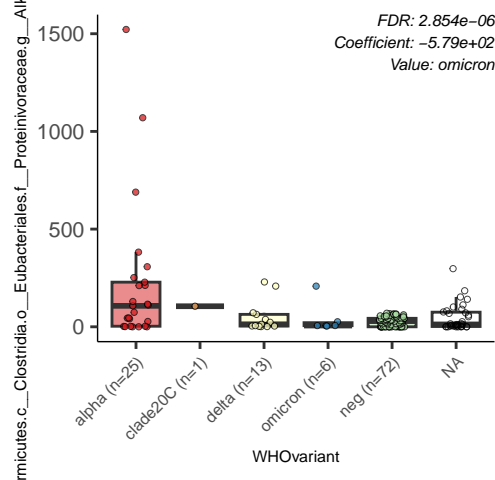




d__Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Pr

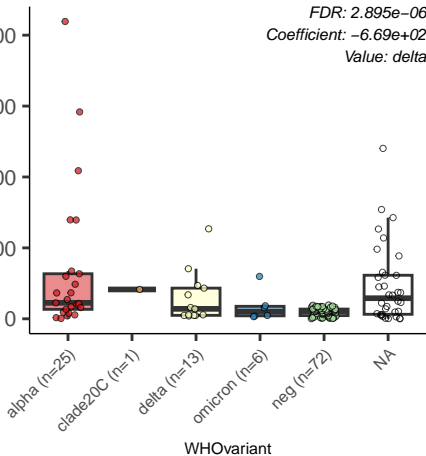




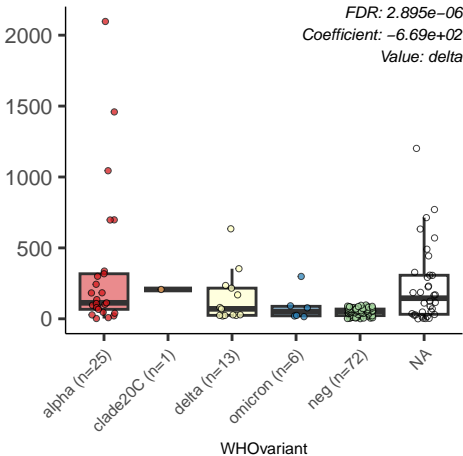


d__Bacteria.p__Acidobacteria.c__Holophagae.o__Acanthopile

FDR: 2.895e-06
Coefficient: -6.69e+02
Value: delta

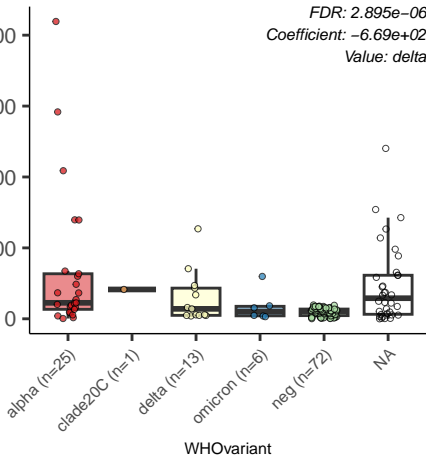


ia.p__Acidobacteria.c__Holophagae.o__Acanthopleuribacteriales.f

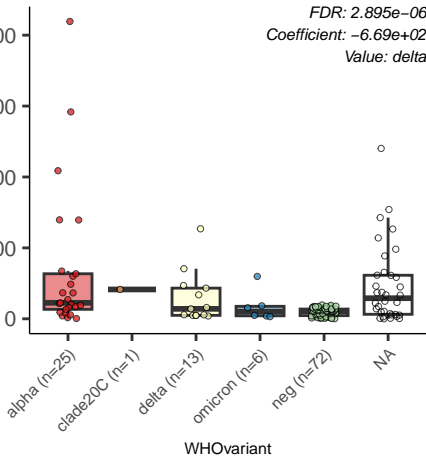


cidobacteria.c__Holophagae.o__Acanthopleuribacterales.f__Acanth

FDR: 2.895e-06
Coefficient: -6.69e+02
Value: delta



FDR: $2.895e-06$
Coefficient: $-6.69e+02$
Value: delta



bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

60000
40000
20000
0

alpha (n=25)

clade20C (n=1)

delta (n=13)

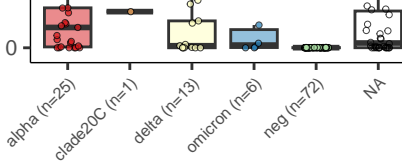
omicron (n=6)

neg (n=72)

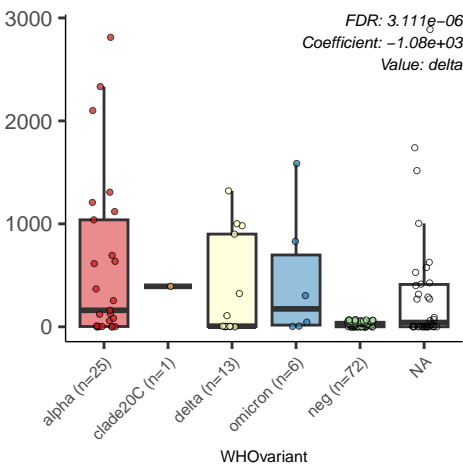
NA

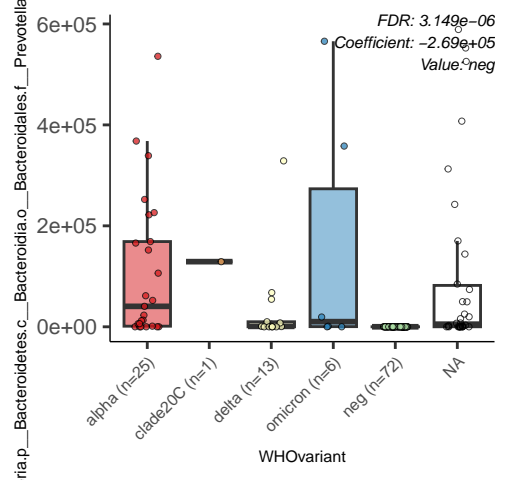
WHOvariant

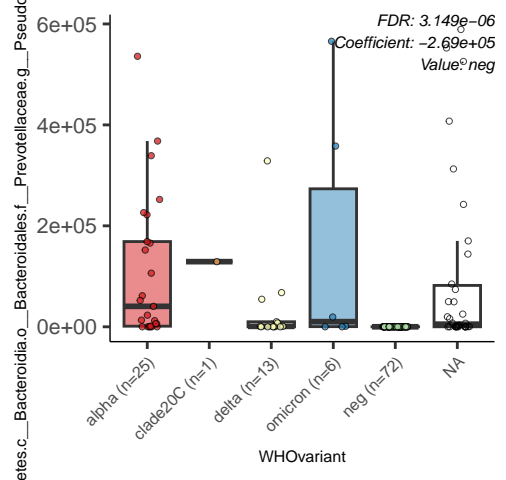
FDR: $2.994e-06$
Coefficient: $-1.73e+04$
Value: omicron



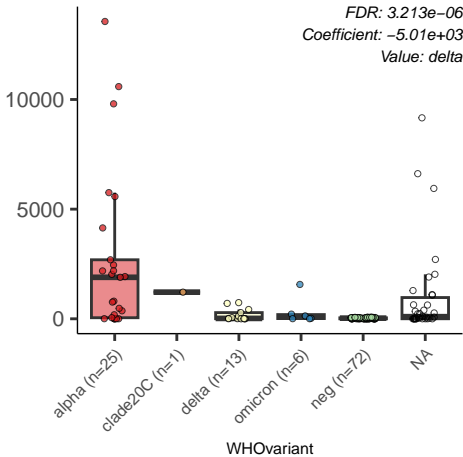
... Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Caproicibact

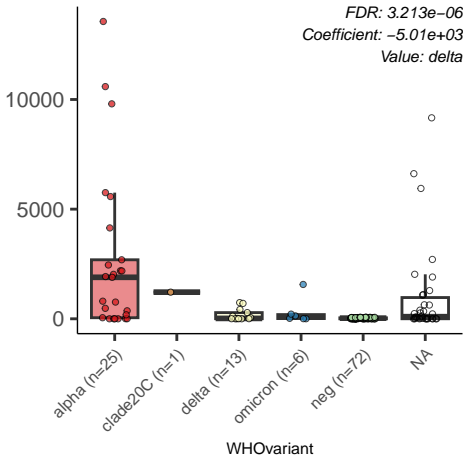


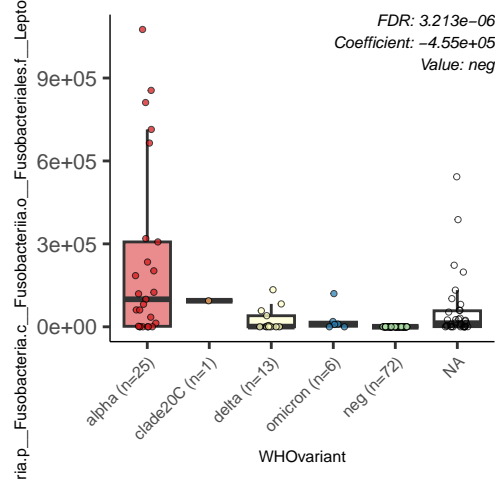


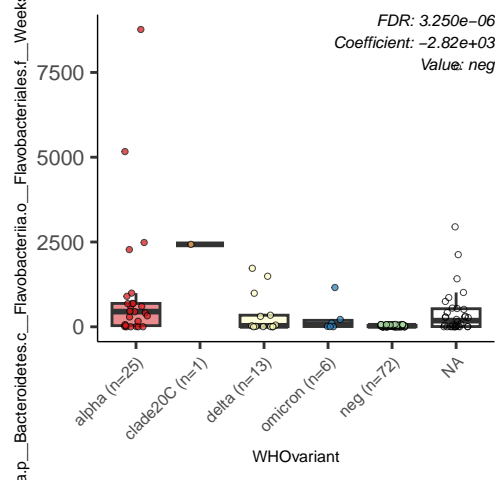


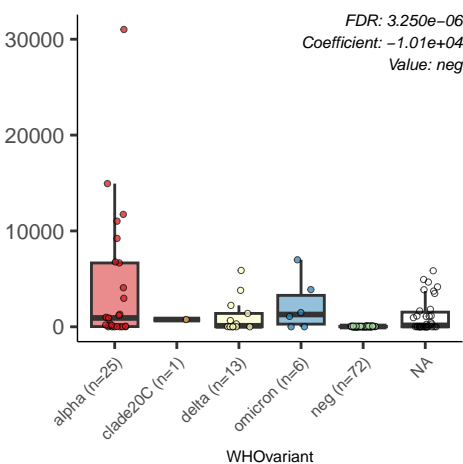
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospir



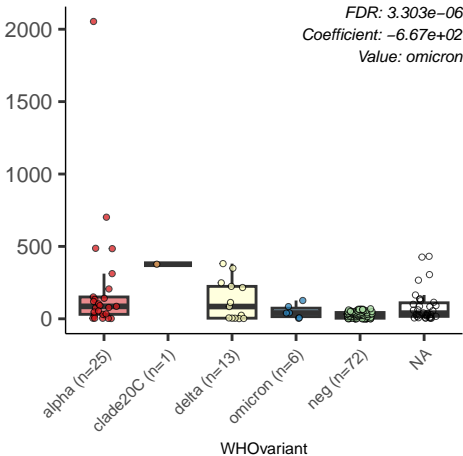






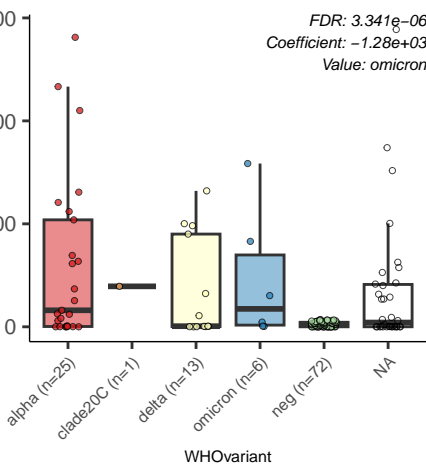


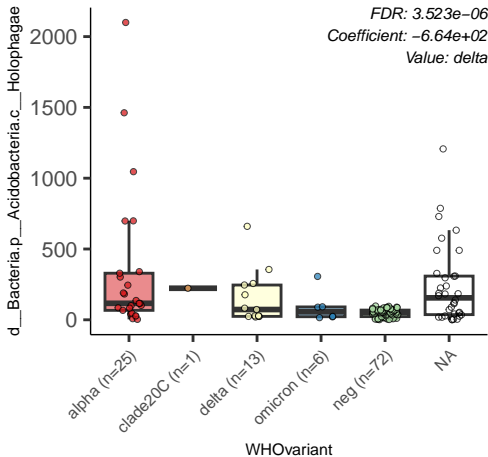
d_Bacteria.p_Firmicutes.c_Tissierellia.g_Ezakiella.s_Ezak



... Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Caproicibact

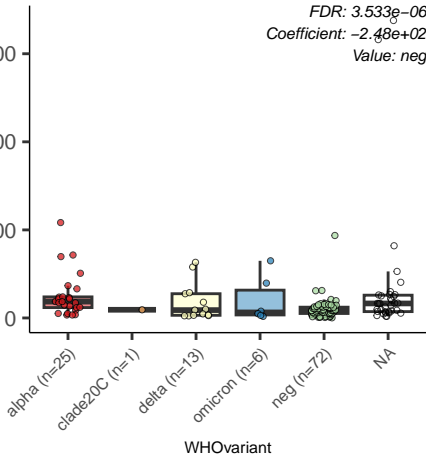
FDR: 3.341×10^{-6}
Coefficient: -1.28×10^3
Value: omicron

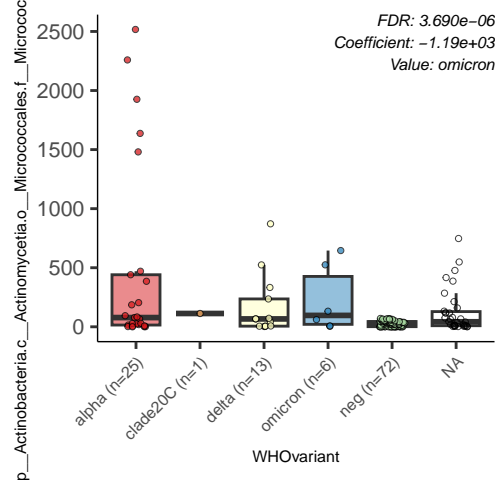




Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriale

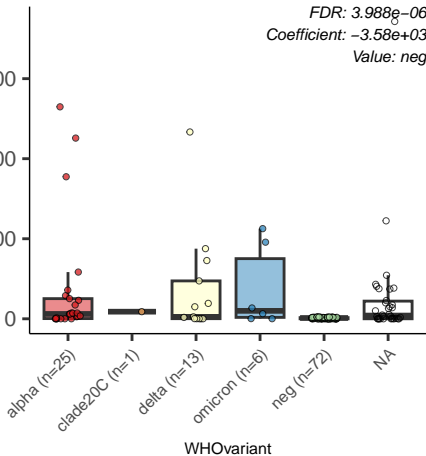
FDR: $3.533e-06$
Coefficient: $-2.48e+02$
Value: neg





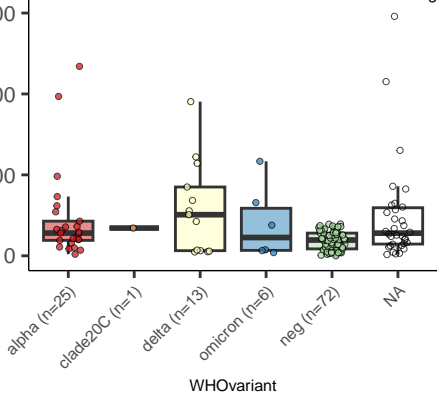
Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g__Se

FDR: $3.988e-06$
Coefficient: $-3.58e+03$
Value: neg

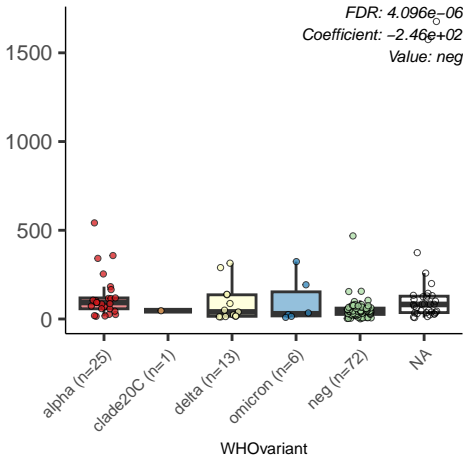


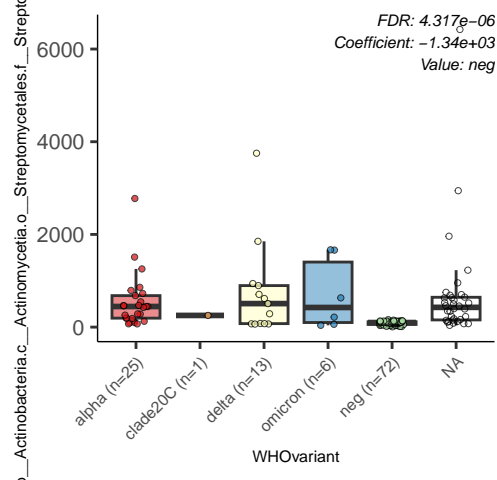
d__Bacteria.p__Armatimonadetes

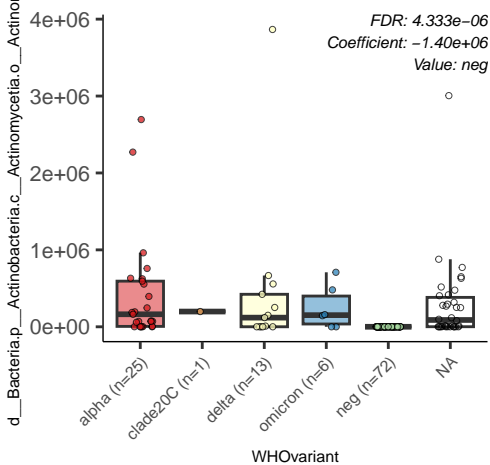
FDR: $4.086e-06$
Coefficient: $-1.94e+02$
Value: neg



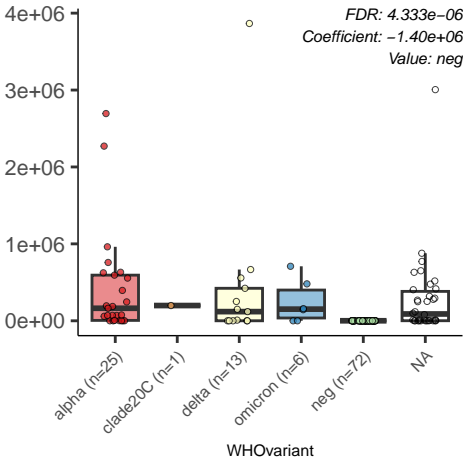
Actinobacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales.f_G



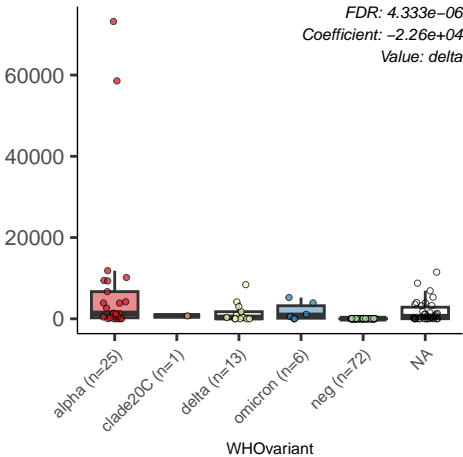




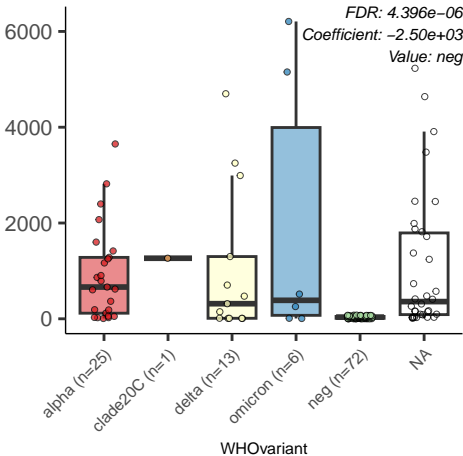
Bacteria.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f



a.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae.g_A

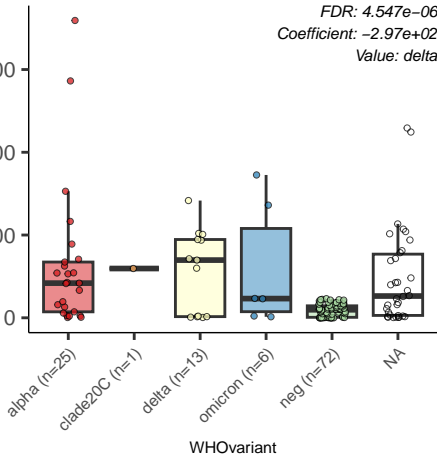


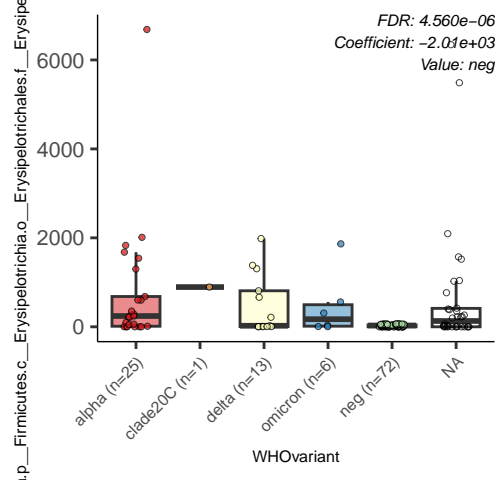
d_Bacteria.p__Chloroflexi

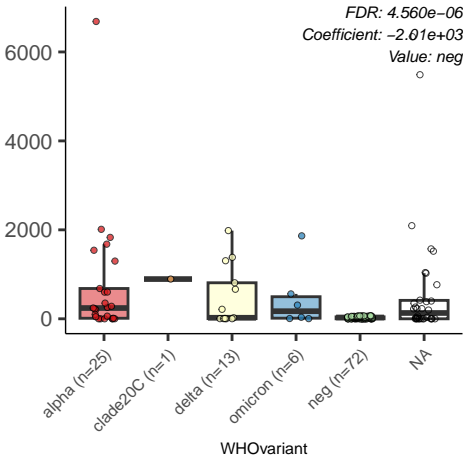


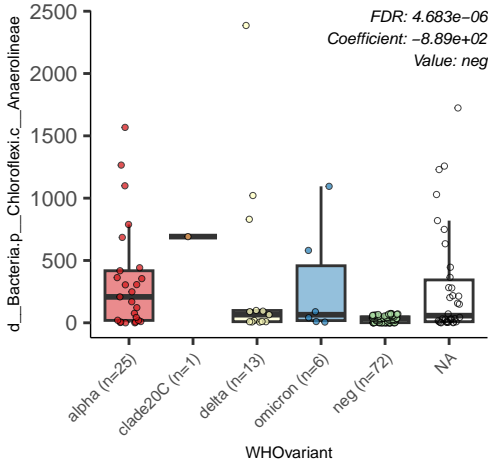
d_Bacteria.p_Firmicutes.c_Clostridia.o_Halanaero

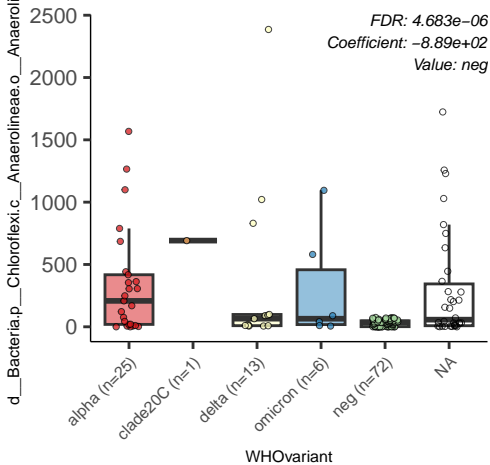
FDR: $4.547e-06$
Coefficient: $-2.97e+02$
Value: delta

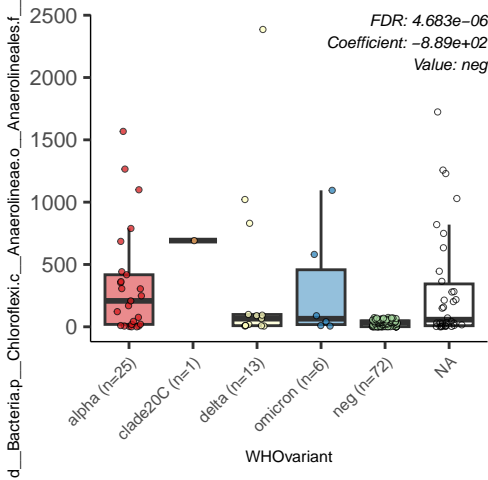


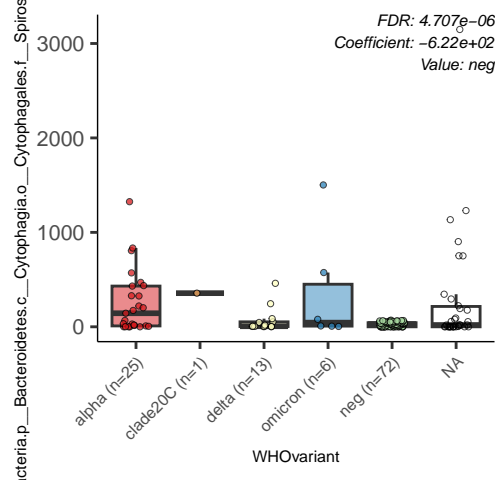






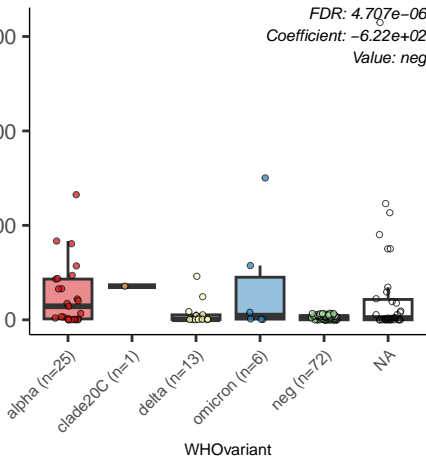






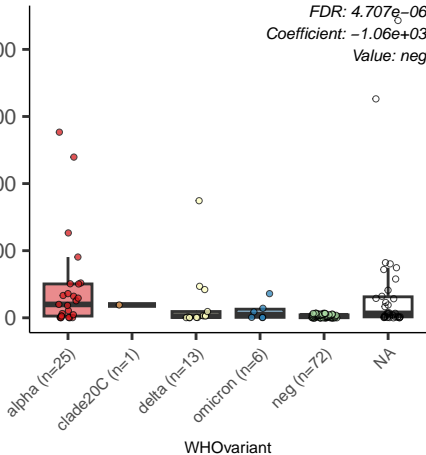
cteroidetes.c__Cytophagia.o__Cytophagales.f__Spirosomaceae.g

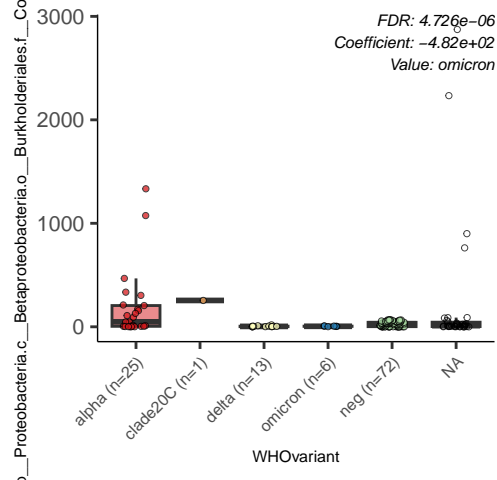
FDR: $4.707e-06$
Coefficient: $-6.22e+02$
Value: neg



eria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__We

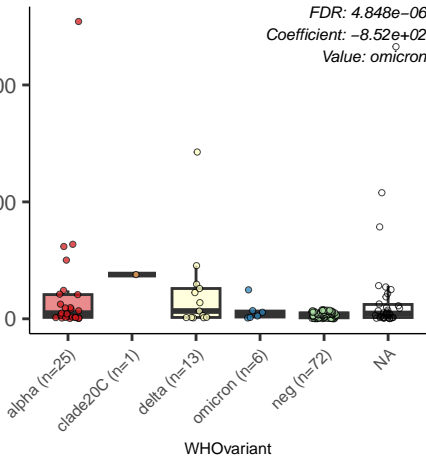
FDR: $4.707e-06$
Coefficient: $-1.06e+03$
Value: neg





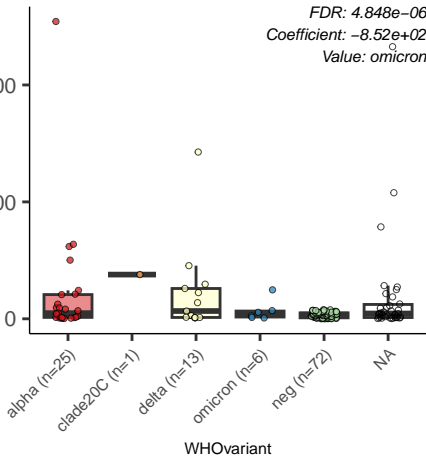
cteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubrobacterales

FDR: $4.848e-06$
Coefficient: $-8.52e+02$
Value: omicron

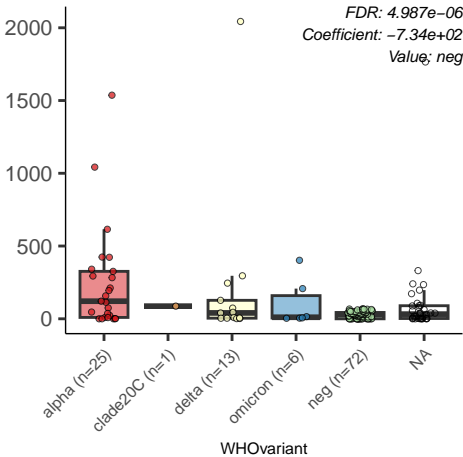


Actinobacteria.c__Thermoleophila.o__Solirubrobacterales.f__Con

FDR: $4.848e-06$
Coefficient: $-8.52e+02$
Value: omicron

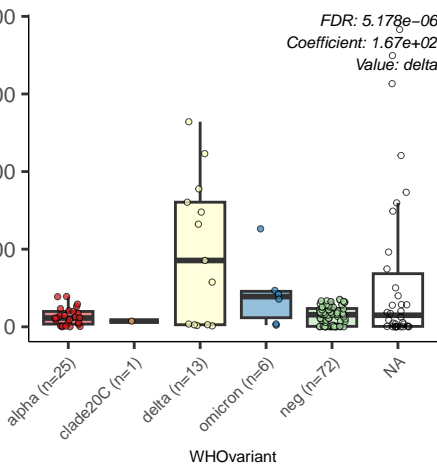


Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo



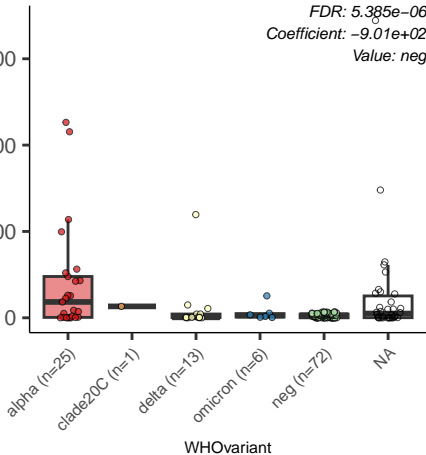
ia.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g_Bacillus

FDR: $5.178e-06$
Coefficient: $1.67e+02$
Value: delta



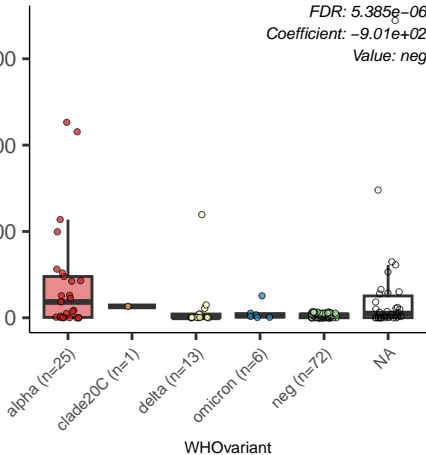
Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Flavobac

FDR: $5.385e-06$
Coefficient: $-9.01e+02$
Value: neg



c_Flavobacteriia.o_Flavobacteriales.f_Flavobacteriaceae.g_Am

FDR: $5.385e-06$
Coefficient: $-9.01e+02$
Value: neg

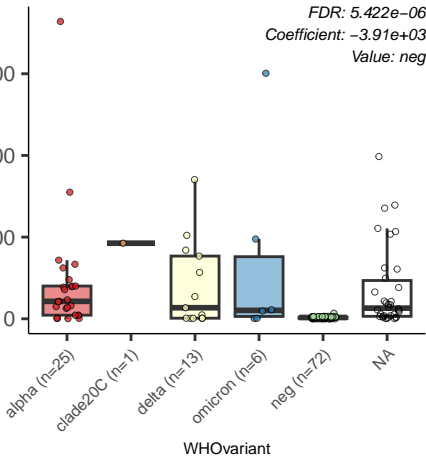


d__Bacteria.p__Verrucomicrobia

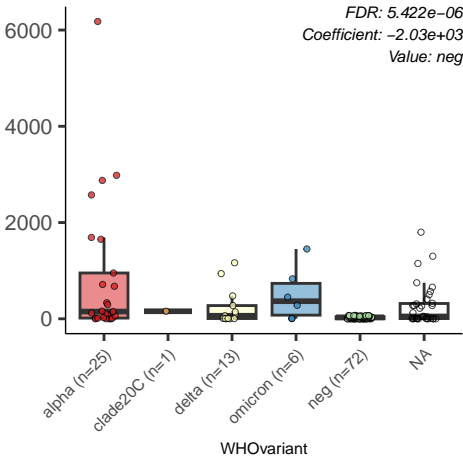
FDR: 5.422e-06

Coefficient: -3.91e+03

Value: neg

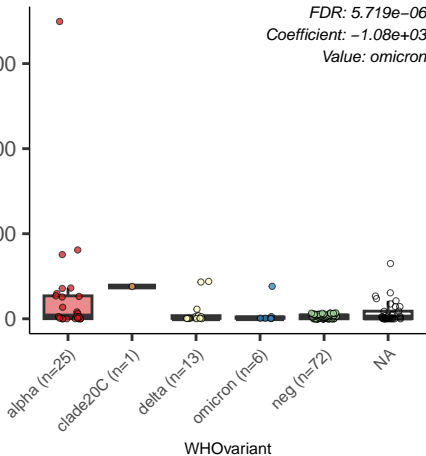


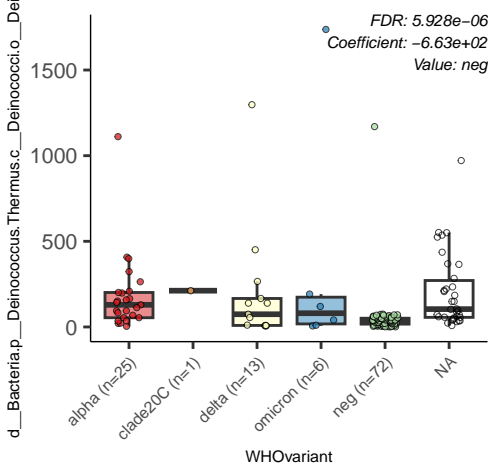
bacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae



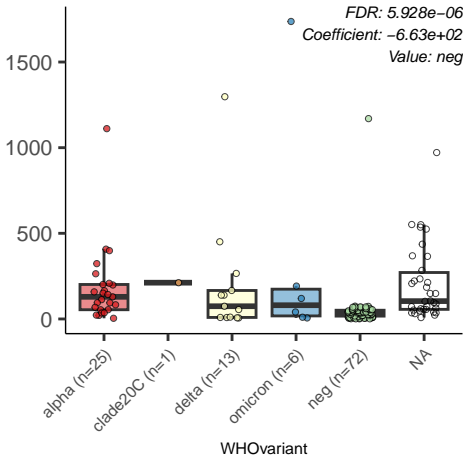
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Cl

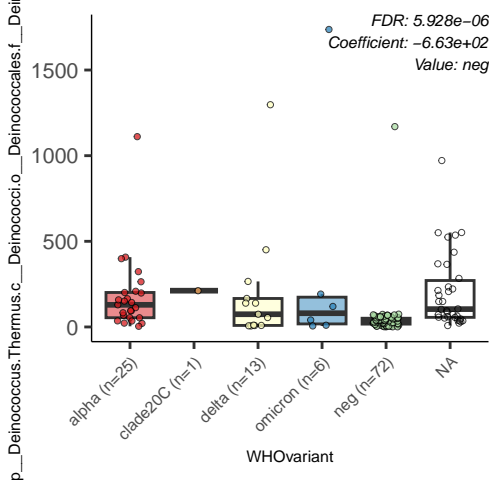
FDR: 5.719e-06
Coefficient: -1.08e+03
Value: omicron

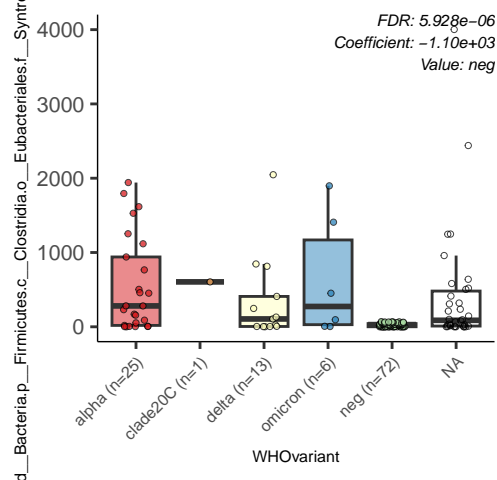




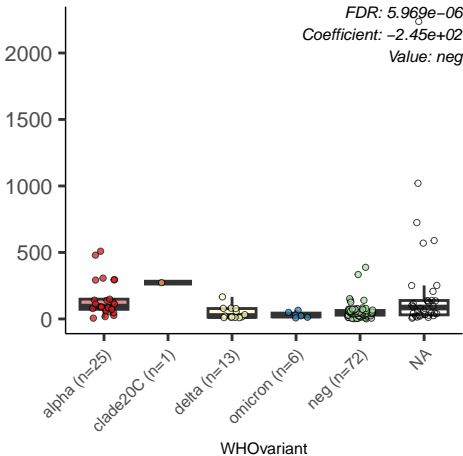
Bacteria.p__Deinococcus.Thermus.c__Deinococci.o__Deinococcaceae

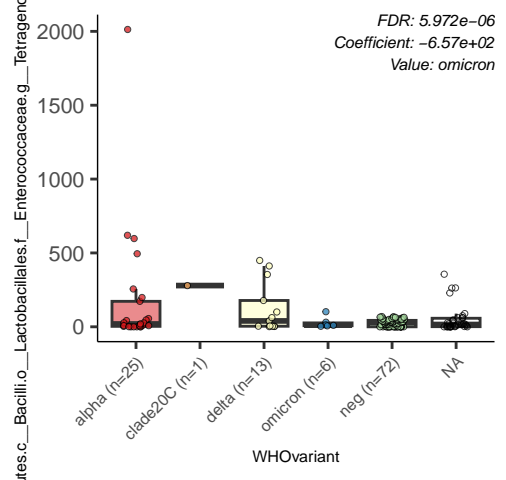


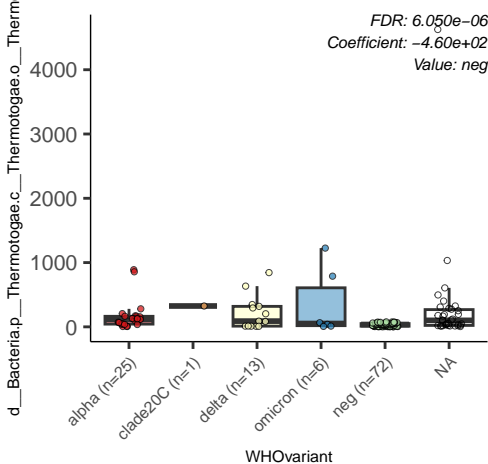




ria.c__Actinomycetia.o__Propionibacteriales.f__Propionibacteriaceae

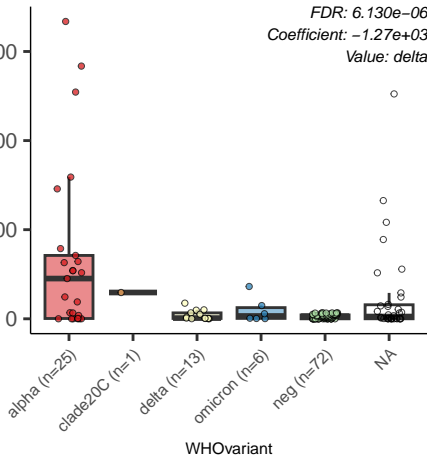






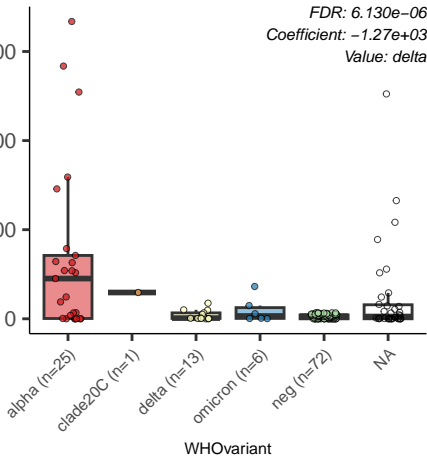
cteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospira

FDR: 6.130×10^{-6}
Coefficient: -1.27×10^3
Value: delta

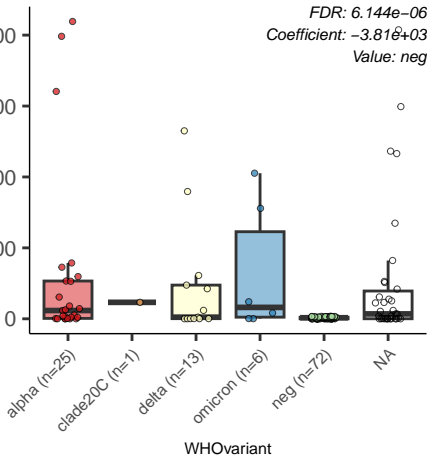


s.c._Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Faecalica

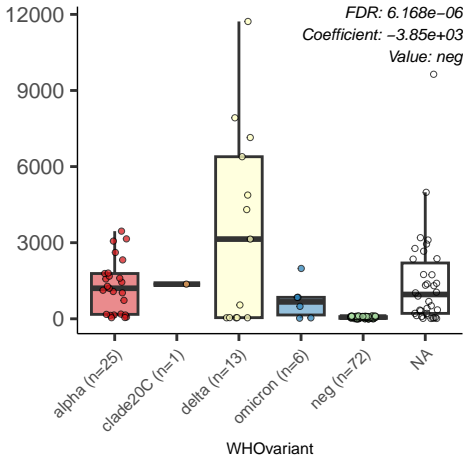
FDR: 6.130e-06
Coefficient: -1.27e+03
Value: delta

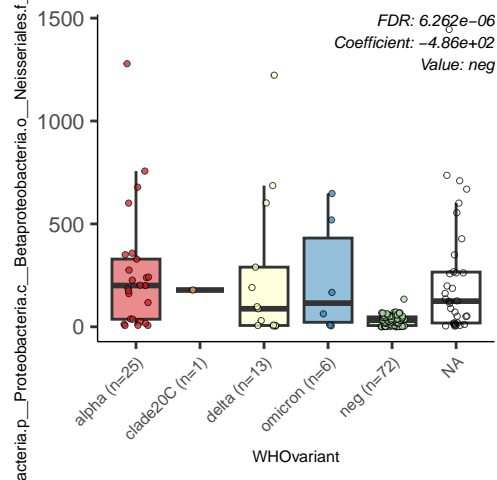


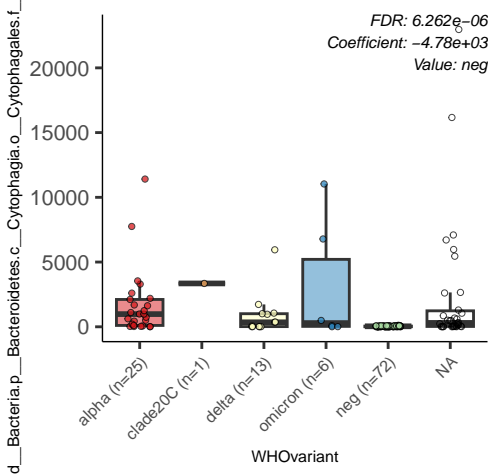
es.c__Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g

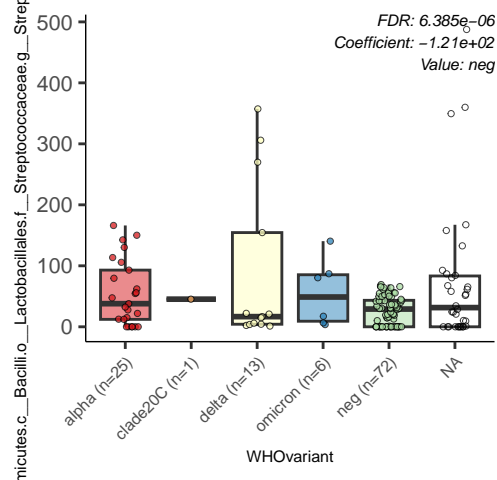


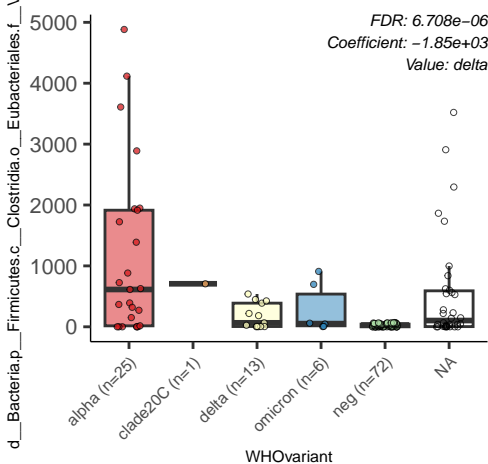
d_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Ent



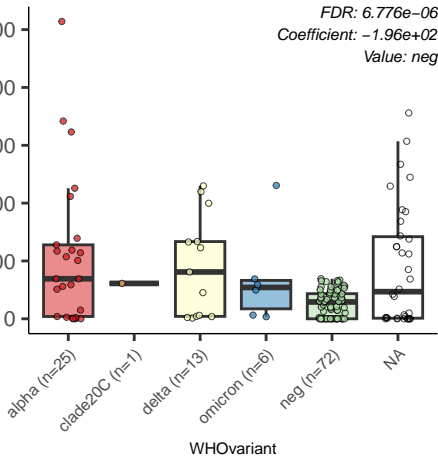


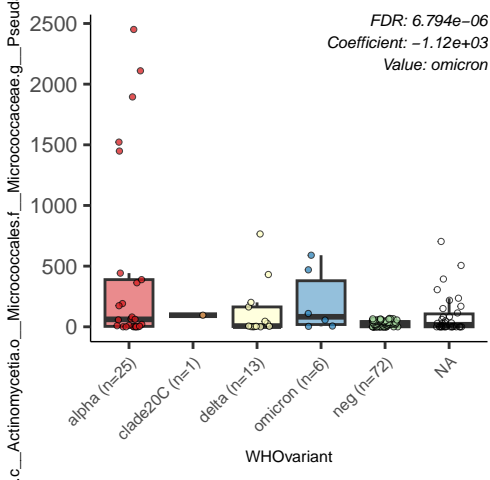






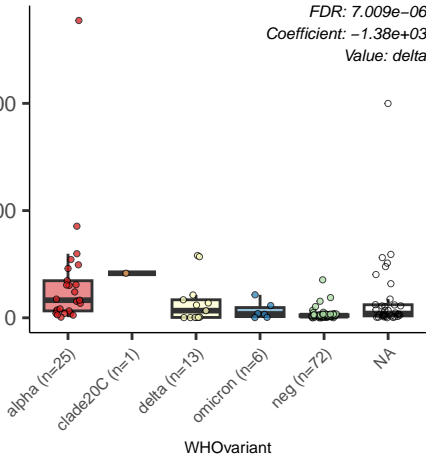
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__B



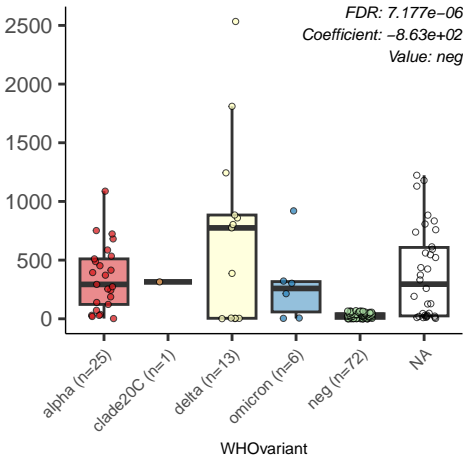


es.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g__Anaeroc

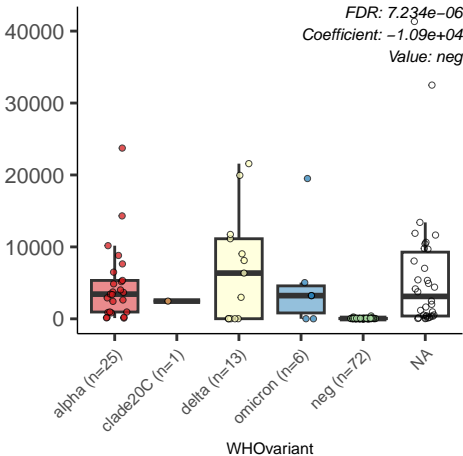
FDR: 7.009e-06
Coefficient: -1.38e+03
Value: delta



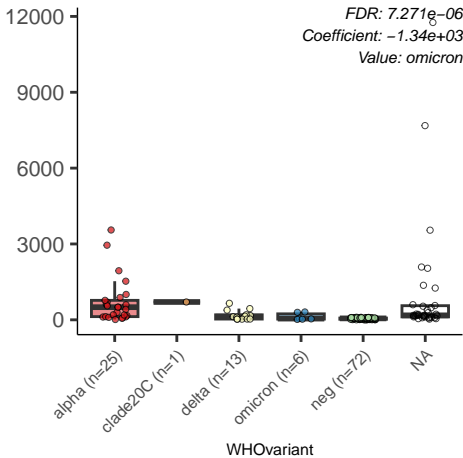
acteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bac

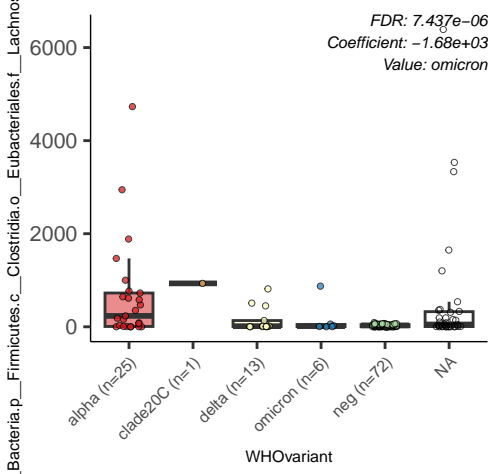


d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae

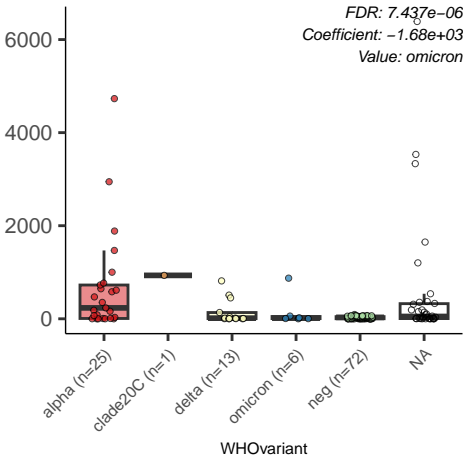


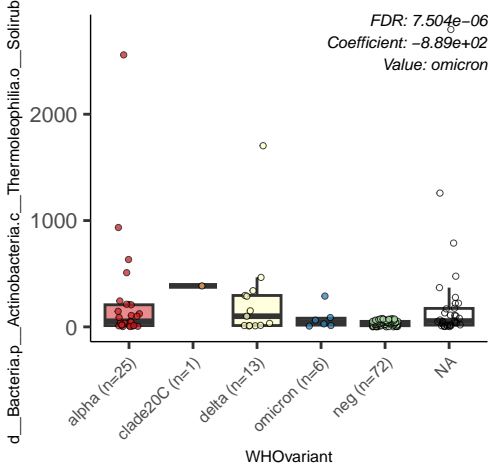
Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia



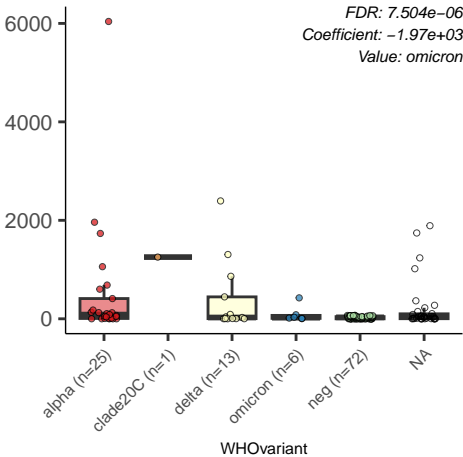


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g



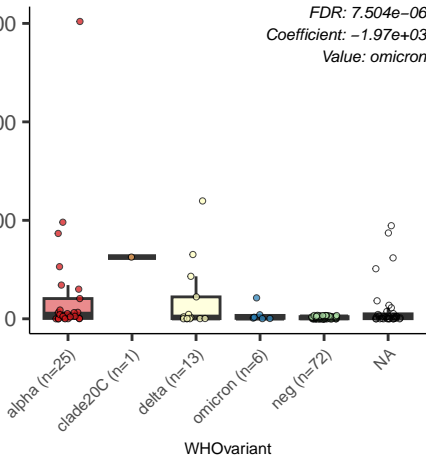


bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospir

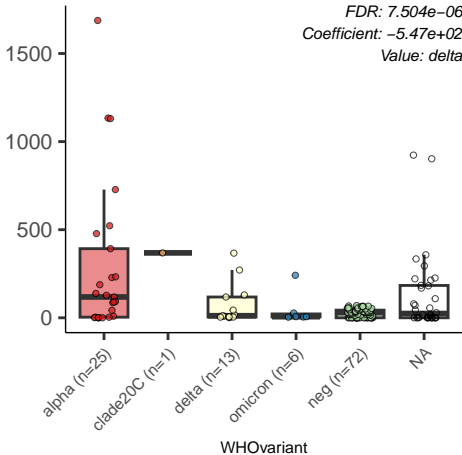


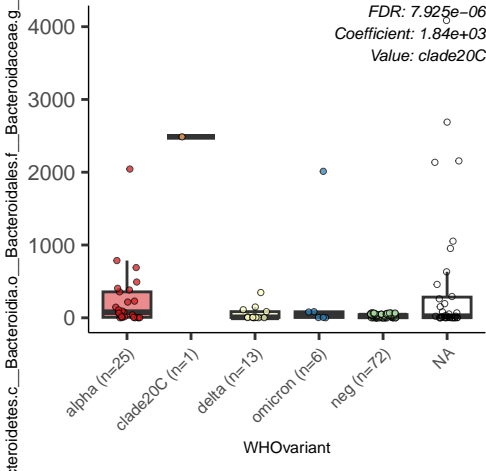
micutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Fas

FDR: $7.504e-06$
Coefficient: $-1.97e+03$
Value: omicron

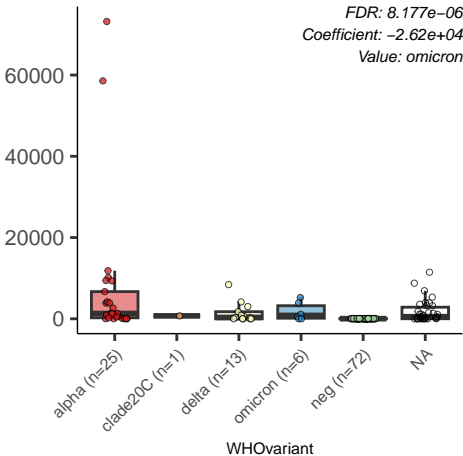


FDR: $7.504e-06$
Coefficient: $-5.47e+02$
Value: delta

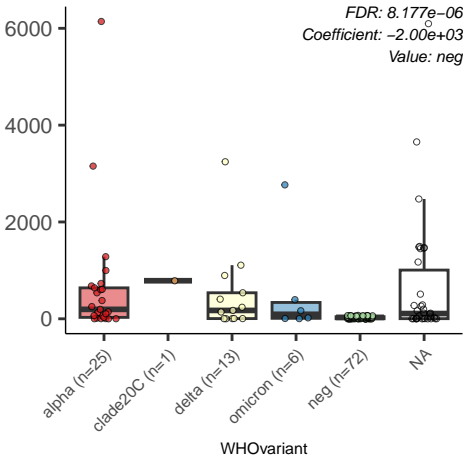




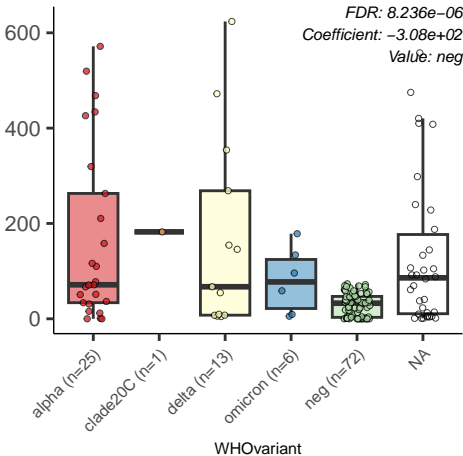
a.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae.g_A

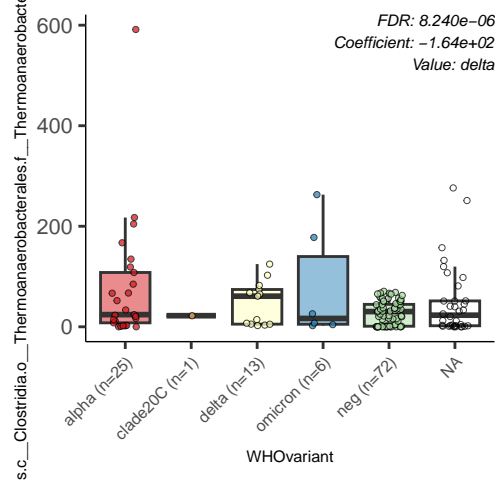


bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteri

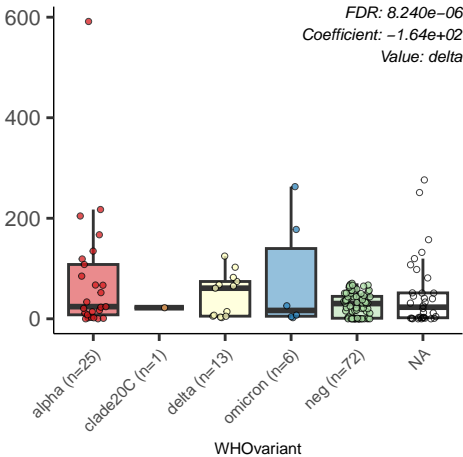


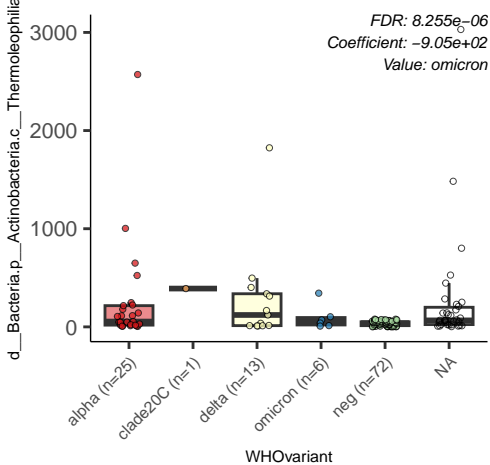
irmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Lac





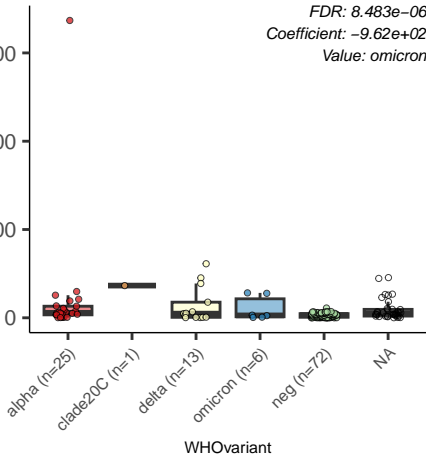
ia.o__Thermoanaerobacterales.f__Thermoanaerobacterales.Family





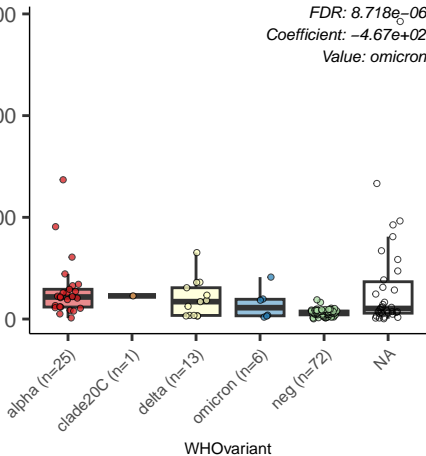
eria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiale

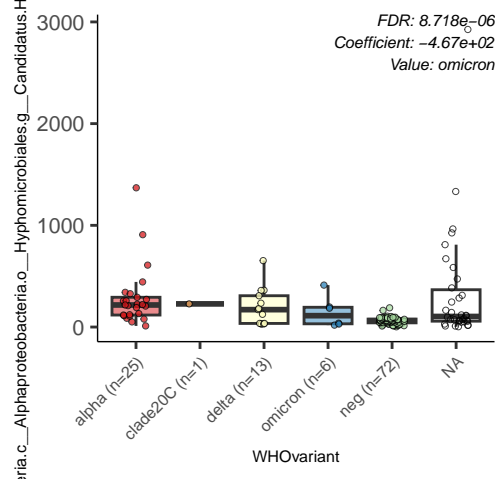
FDR: 8.483e-06
Coefficient: -9.62e+02
Value: omicron



ria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales

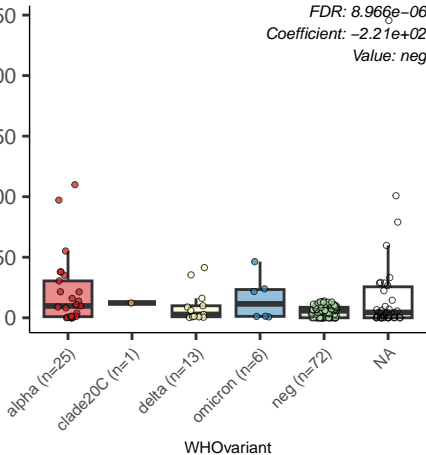
FDR: $8.718e-06$
Coefficient: $-4.67e+02$
Value: omicron

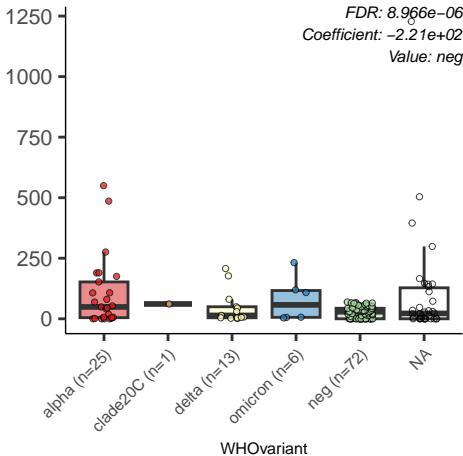


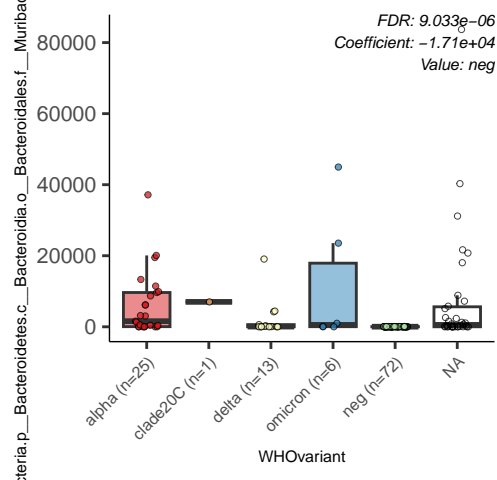


terial.p__Bacteroidetes.c__Bacteroidia.o__Marinilabiales.f__Marinil

FDR: 8.966e-06
Coefficient: -2.21e+02
Value: neg







d__Bacteria.p__Cyanobacteria.o__Pseudanabaena

FDR: $9.100e-06$
Coefficient: $7.46e+03$
Value: clade20C

10000

5000

alpha (n=25)

clade20C (n=1)

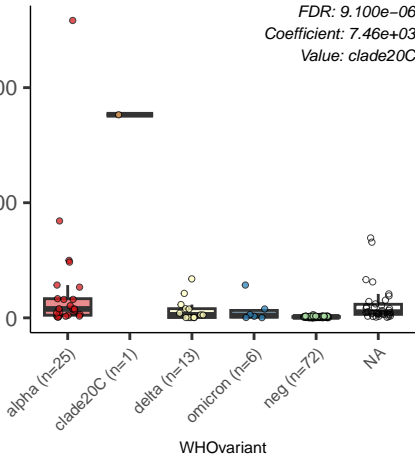
delta (n=13)

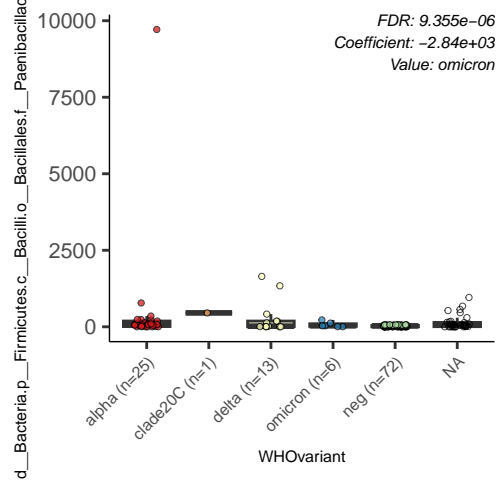
omicron (n=6)

neg (n=72)

NA

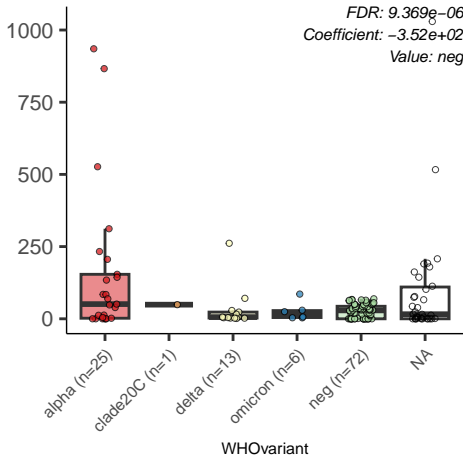
WHOvariant



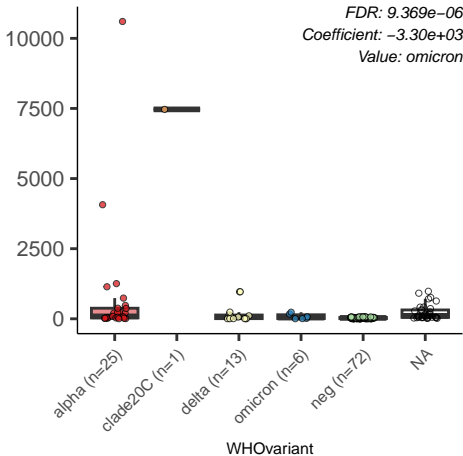


Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae.g__Elizabeth

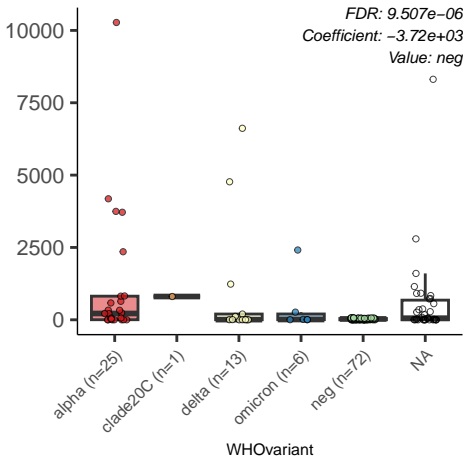
FDR: $9.369e-06$
Coefficient: $-3.52e+02$
Value: neg

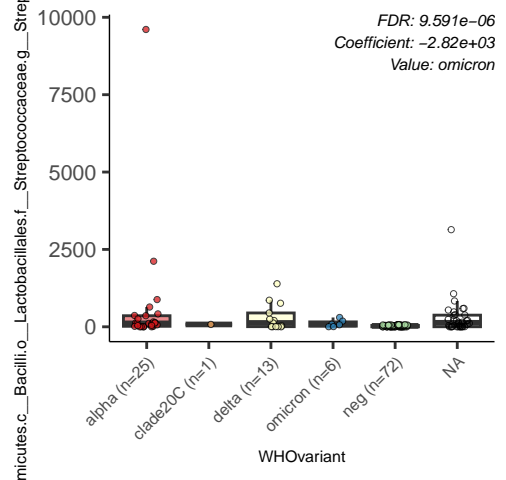


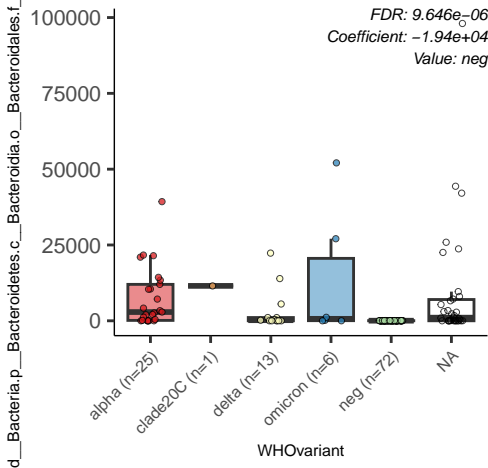
d__Bacteria.p__Cyanobacteria.o__Pseudanabaenales.f__Lept

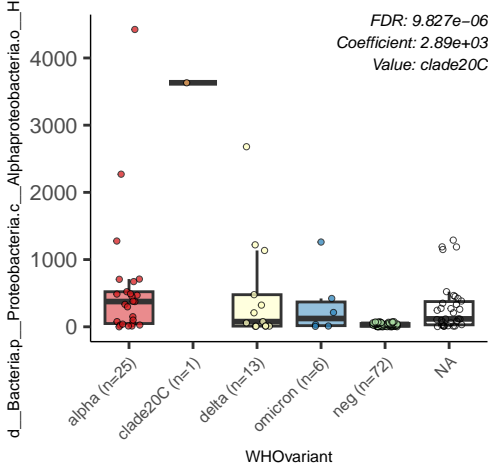


monadia.o__Candidatus.Nanosynbacterales.f__Candidatus.Nanosyn



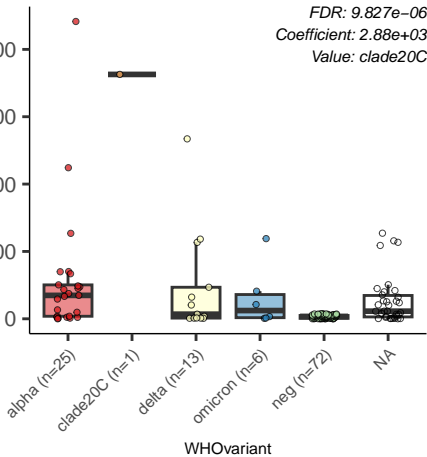


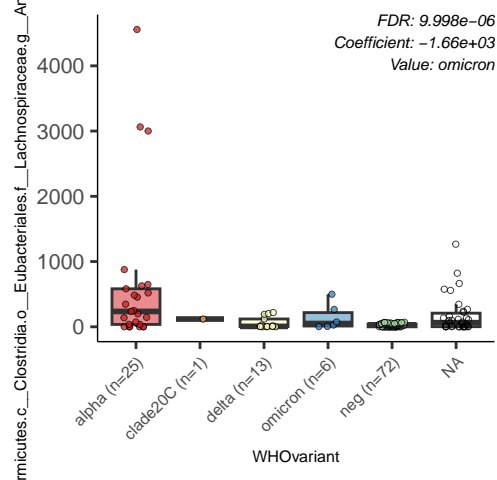




Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Holosporal

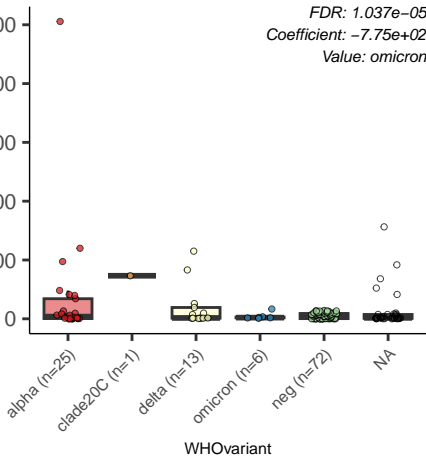
FDR: $9.827e-06$
Coefficient: $2.88e+03$
Value: clade20C

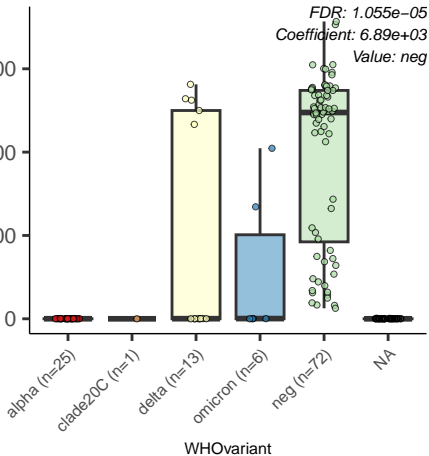




a.c._Thermoleophilia.o__Solirubrobacterales.f__Conexibacteraceae

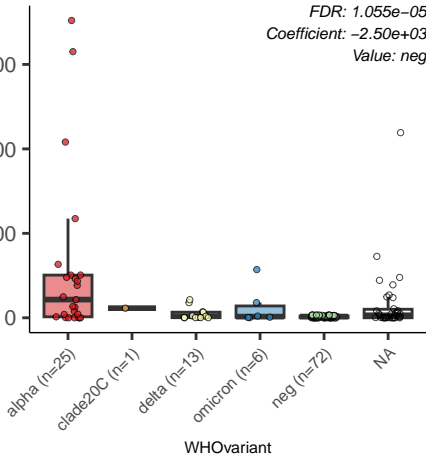
FDR: 1.037e-05
Coefficient: -7.75e+02
Value: omicron

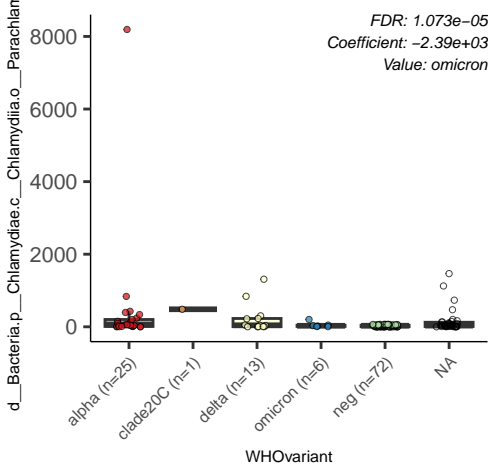




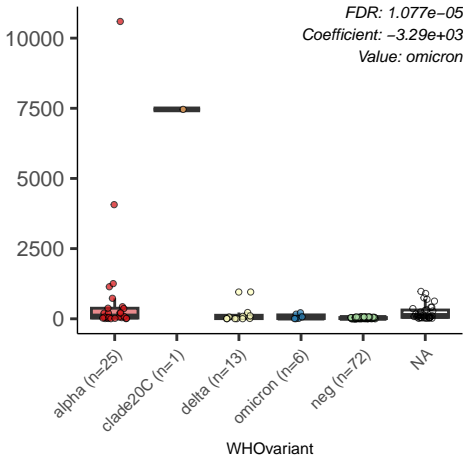
rmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clost

FDR: $1.055e-05$
Coefficient: $-2.50e+03$
Value: neg





3acteria.p__Cyanobacteria.o__Pseudanabaenales.f__Leptolyngbya



d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae

FDR: 1.079×10^{-5}
Coefficient: -5.19×10^2
Value: neg

2000
1000
0

alpha (n=25)

clade20C (n=1)

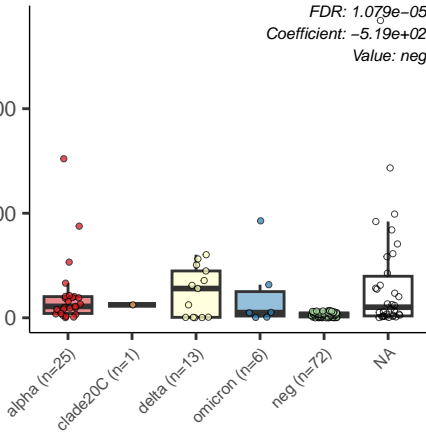
delta (n=13)

omicron (n=6)

neg (n=72)

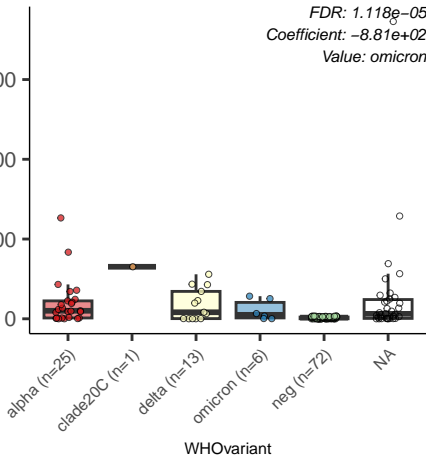
NA

WHOvariant

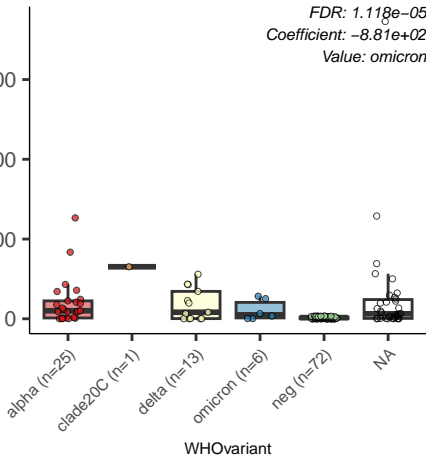


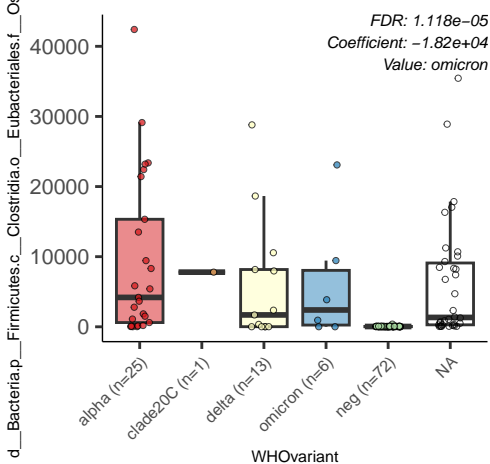
d__Bacteria.p__Tenericutes.c__Mollicutes.o__Acholeplas

FDR: $1.118e-05$
Coefficient: $-8.81e+02$
Value: omicron



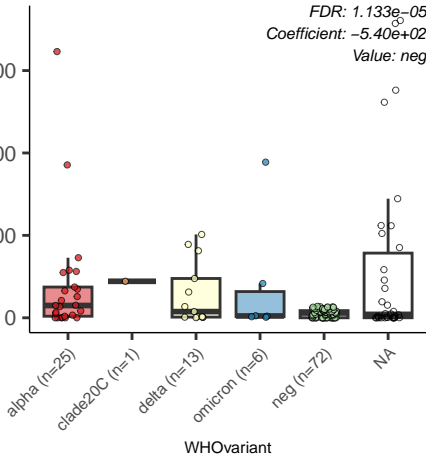
FDR: 1.118×10^{-5}
Coefficient: -8.81×10^2
Value: omicron





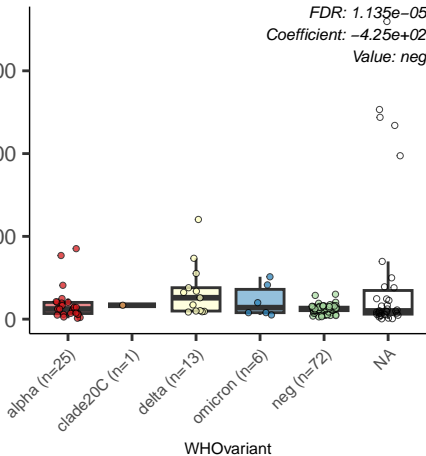
c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII...Incerta

FDR: $1.133e-05$
Coefficient: $-5.40e+02$
Value: neg

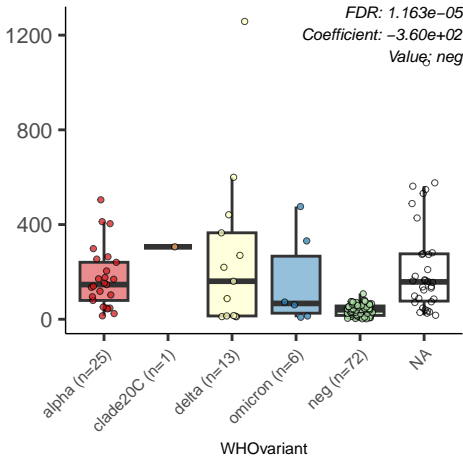


o__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Bu

FDR: $1.135e-05$
Coefficient: $-4.25e+02$
Value: neg

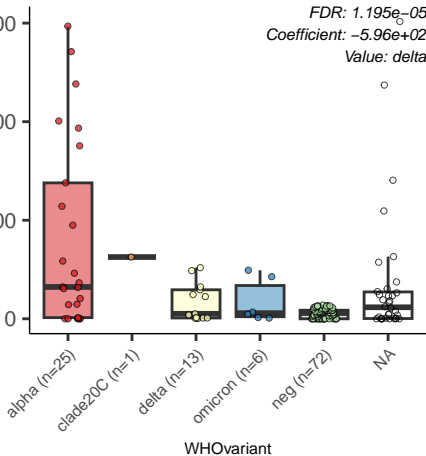


d_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__



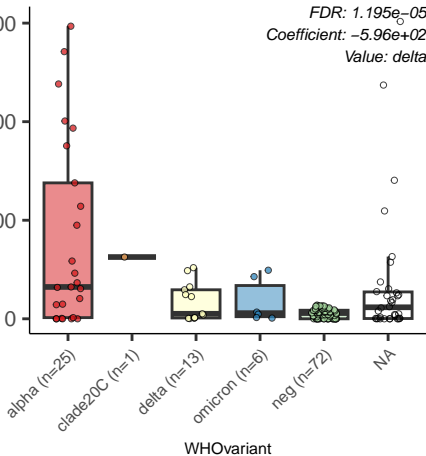
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f__Vallitale

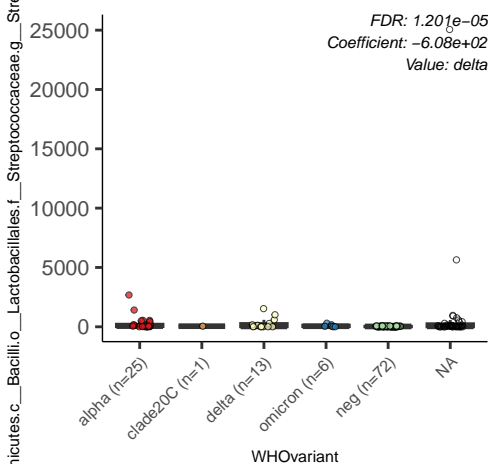
FDR: $1.195e-05$
Coefficient: $-5.96e+02$
Value: delta



Firmicutes.c__Clostridia.o__Eubacteriales.f__Vallitaleaceae.g__Pet

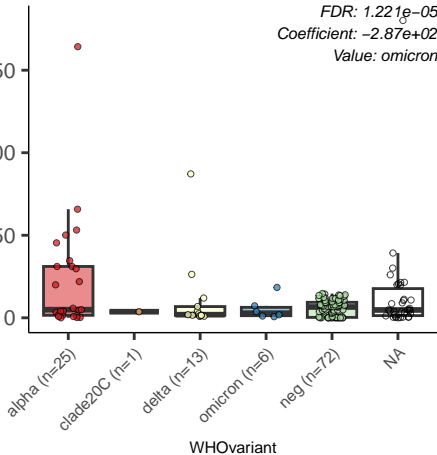
FDR: 1.195e-05
Coefficient: -5.96e+02
Value: delta

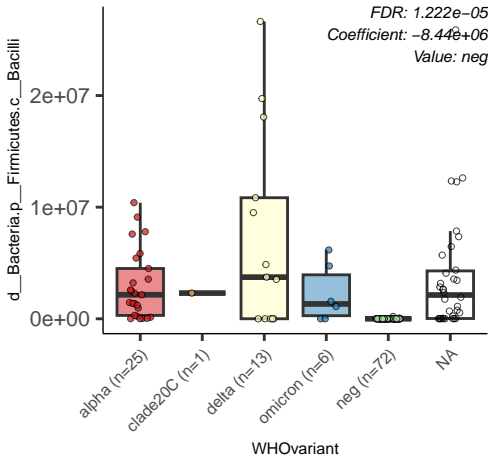


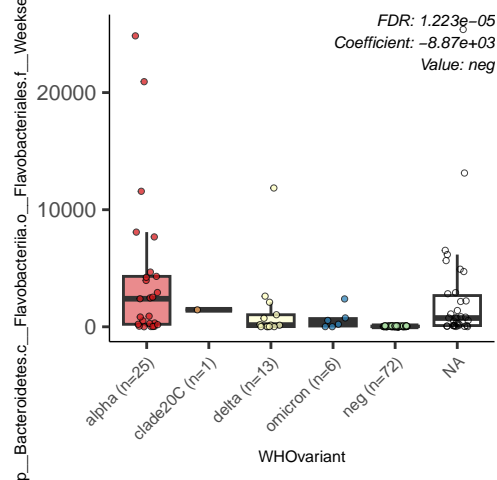


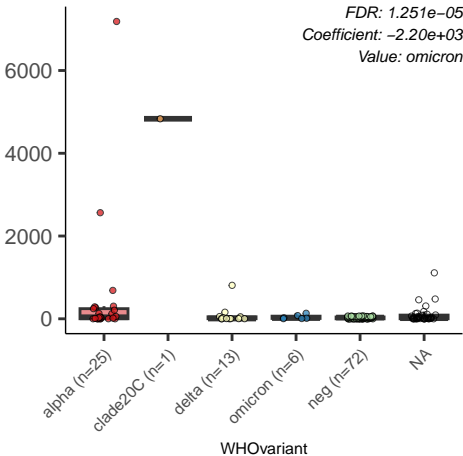
Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_Chryse

FDR: $1.221e-05$
Coefficient: $-2.87e+02$
Value: omicron



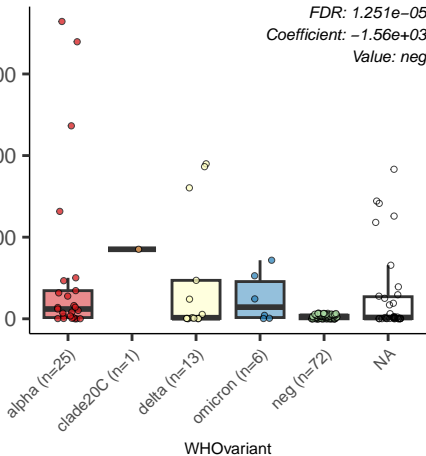


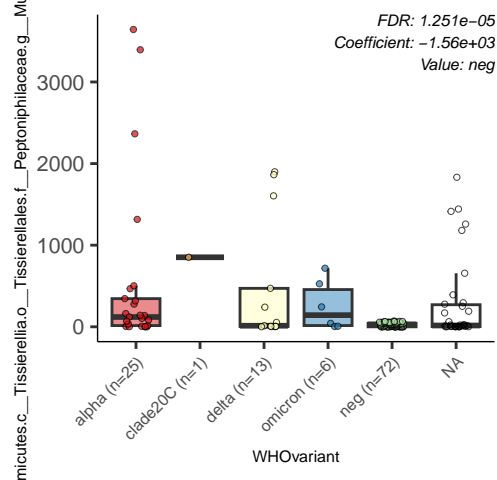




bacteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniph

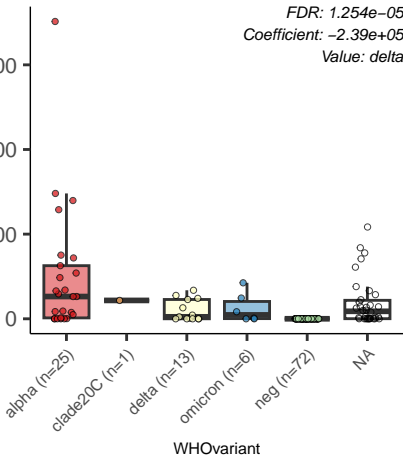
FDR: 1.251e-05
Coefficient: -1.56e+03
Value: neg

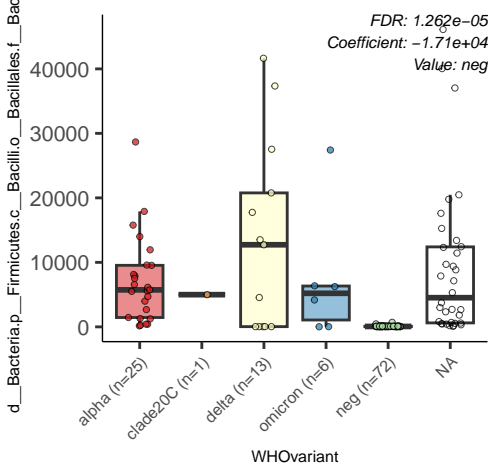




d_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_La

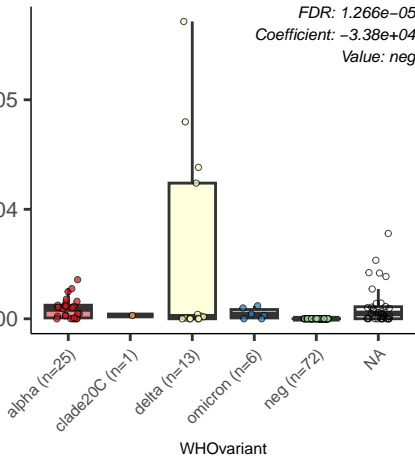
FDR: $1.254e-05$
Coefficient: $-2.39e+05$
Value: delta

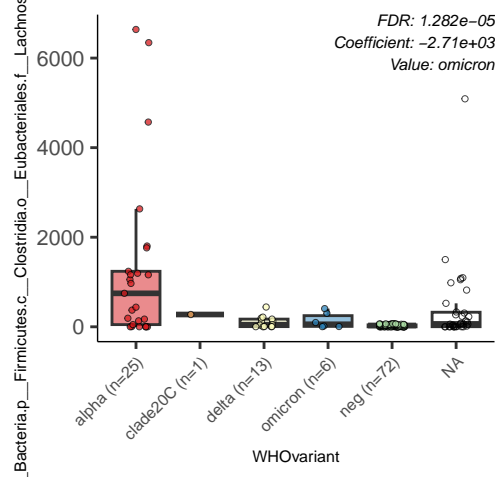




micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

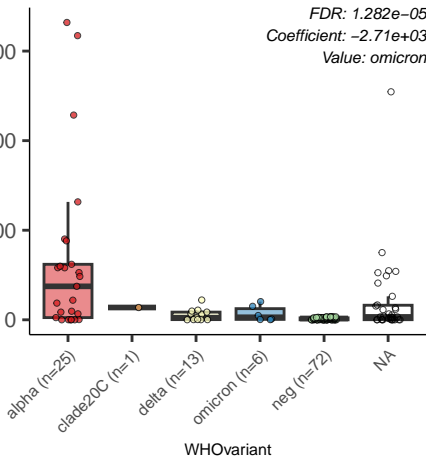
FDR: 1.266e-05
Coefficient: -3.38e+04
Value: neg

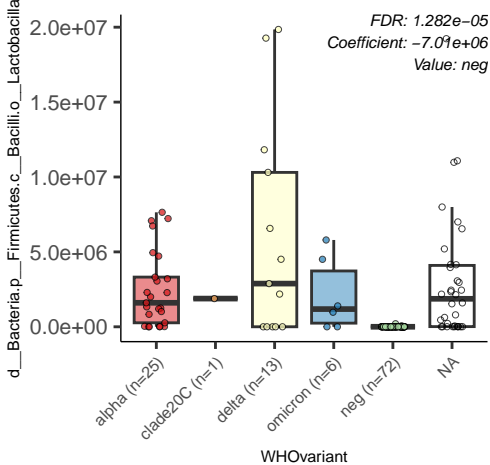




Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

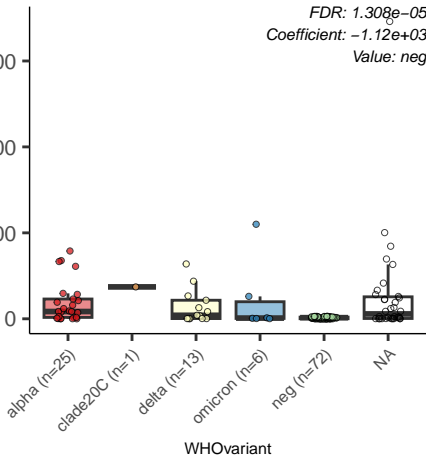
FDR: 1.282e-05
Coefficient: -2.71e+03
Value: omicron





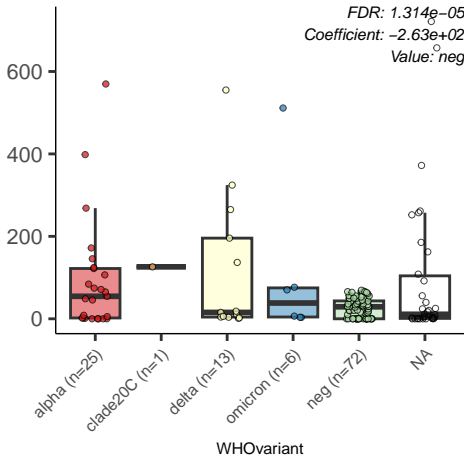
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospir

FDR: 1.308e-05
Coefficient: -1.12e+03
Value: neg



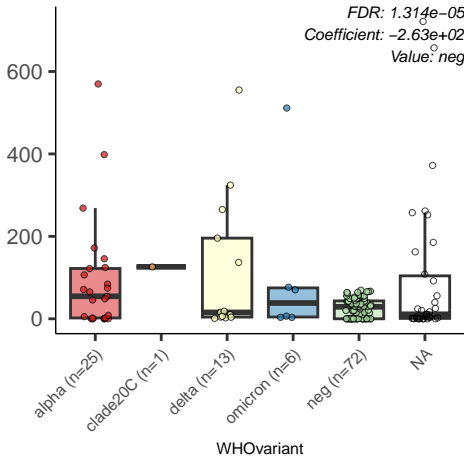
l_Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__N

FDR: $1.314e-05$
Coefficient: $-2.63e+02$
Value: neg



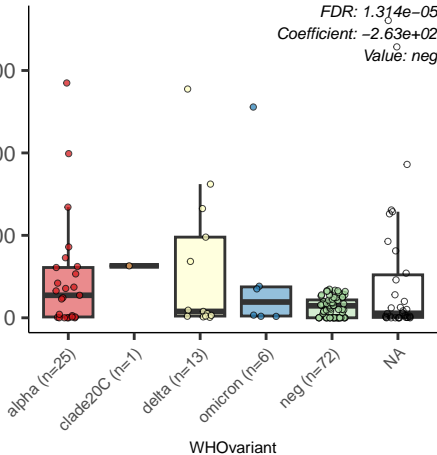
ia.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Mangrovi

FDR: $1.314e-05$
Coefficient: $-2.63e+02$
Value: neg



bidetes.c__Cytophagia.o__Cytophagales.f__Mangrovivirgaceae.g

FDR: $1.314e-05$
Coefficient: $-2.63e+02$
Value: neg



d__Bacteria.p__Actinobacteria.c__Actinomycetia.o__Strepto

FDR: $1.397e-05$
Coefficient: $-1.53e+03$
Value: neg

10000

5000

0

alpha (n=25)

clade20C (n=1)

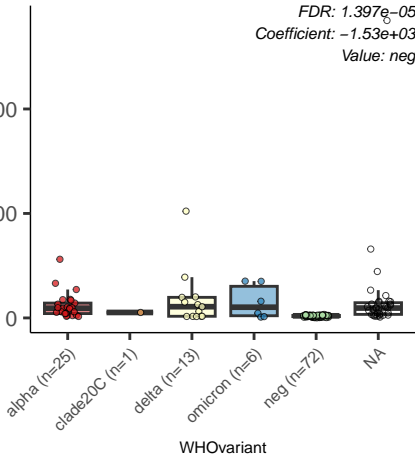
delta (n=13)

omicron (n=6)

neg (n=72)

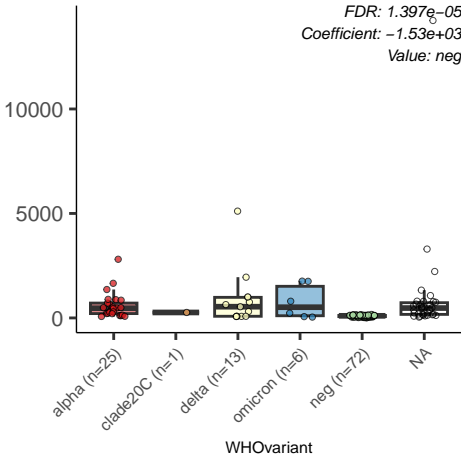
NA

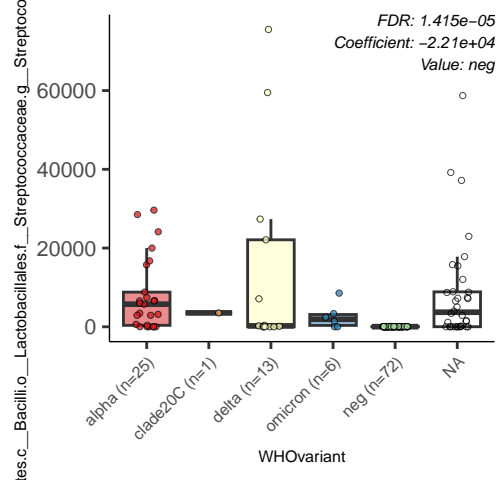
WHOvariant



Bacteria.p_Actinobacteria.c_Actinomycetia.o_Streptomycetales.f

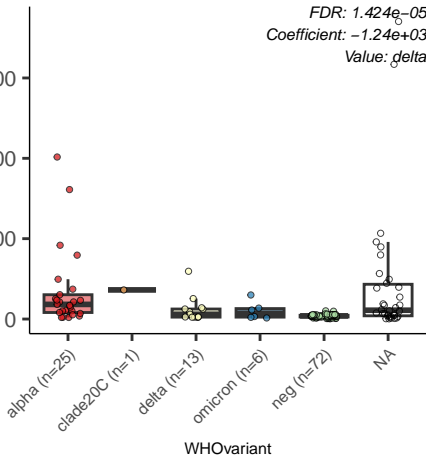
FDR: $1.397e-05$
Coefficient: $-1.53e+03$
Value: neg





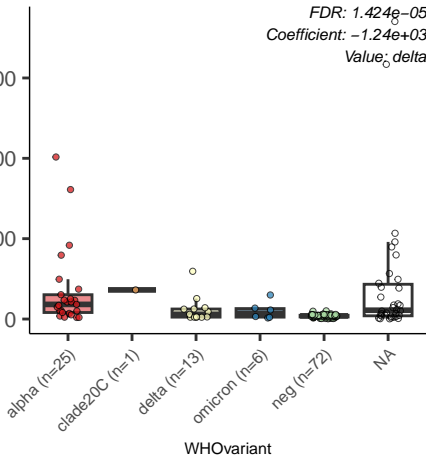
Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridia

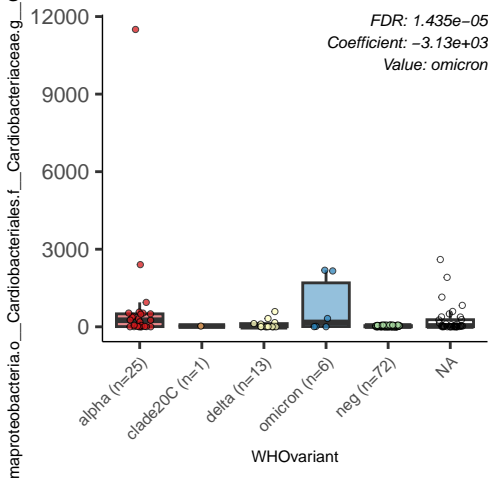
FDR: $1.424e-05$
Coefficient: $-1.24e+03$
Value: δ

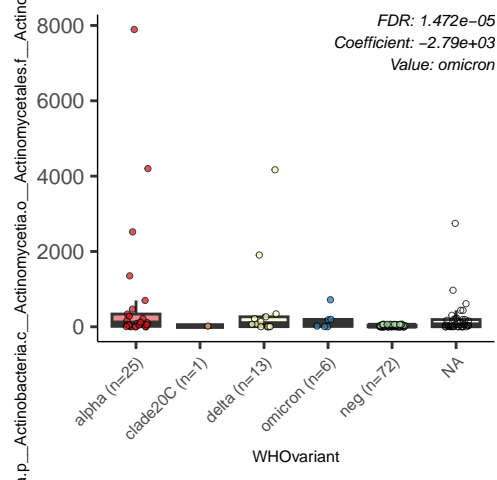


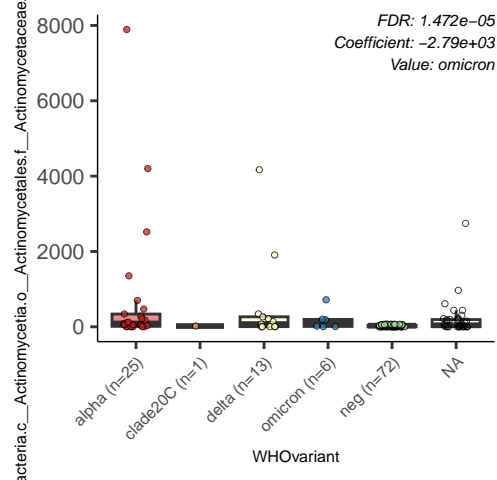
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Ha

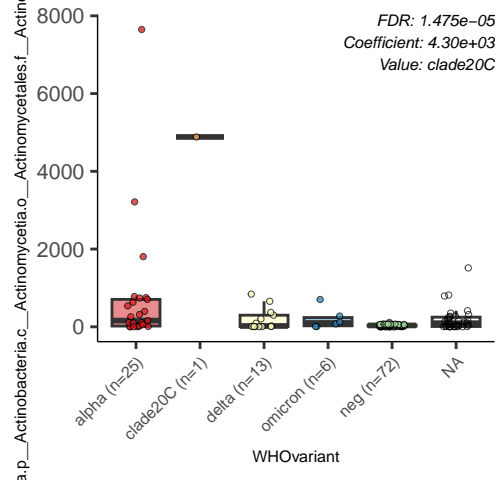
FDR: $1.424e-05$
Coefficient: $-1.24e+03$
Value: delta

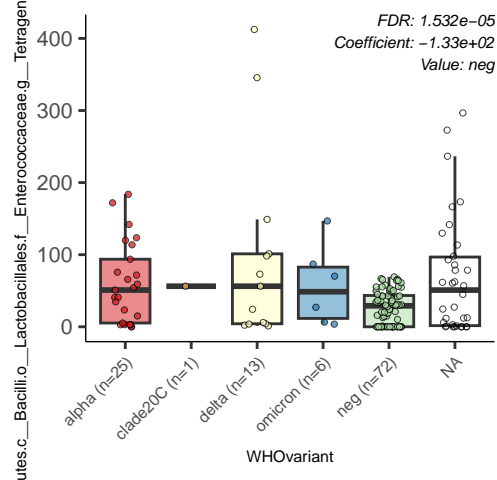


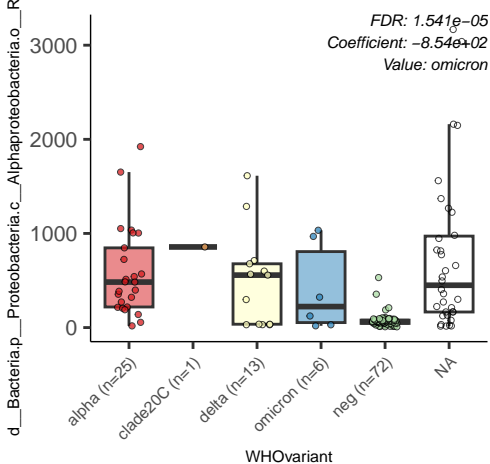




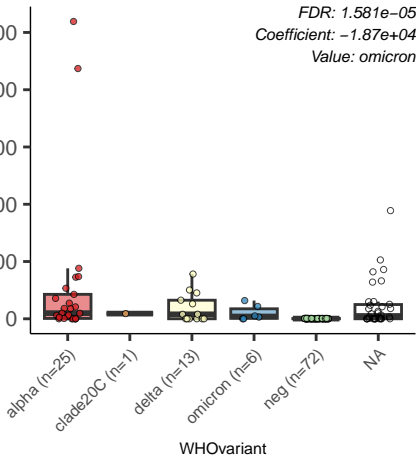




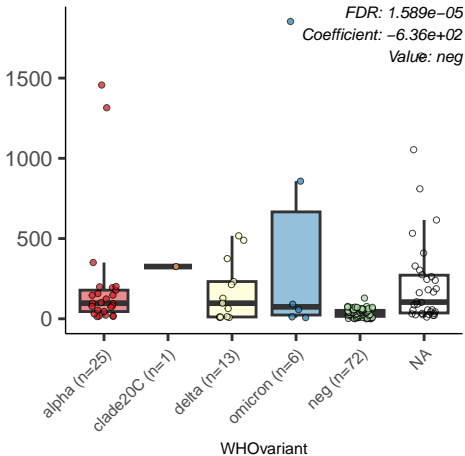




bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

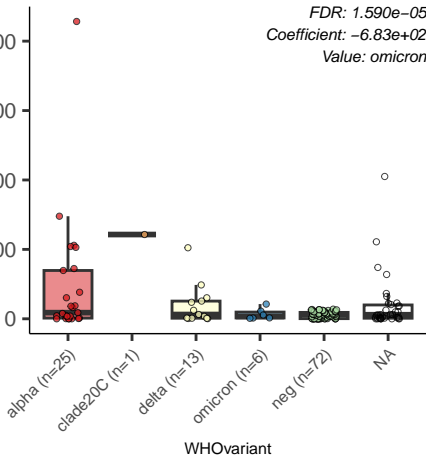


bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirilla



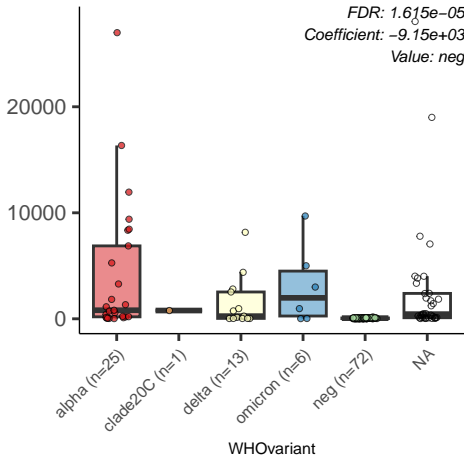
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo

FDR: 1.590e-05
Coefficient: -6.83e+02
Value: omicron

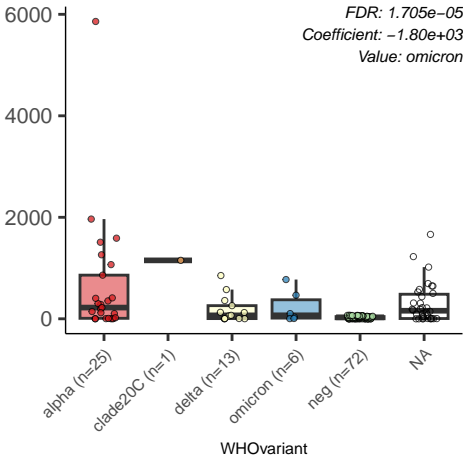


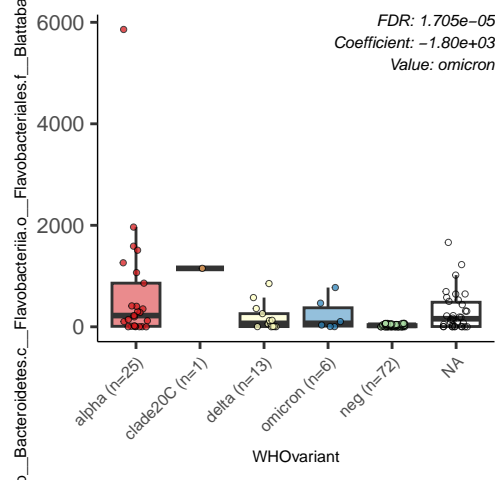
p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Microb

FDR: $1.615e-05$
Coefficient: $-9.15e+03$
Value: neg



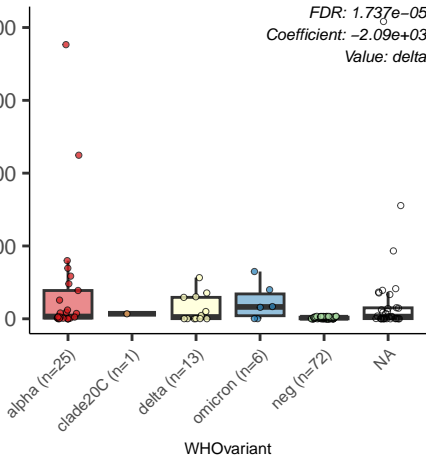
Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f





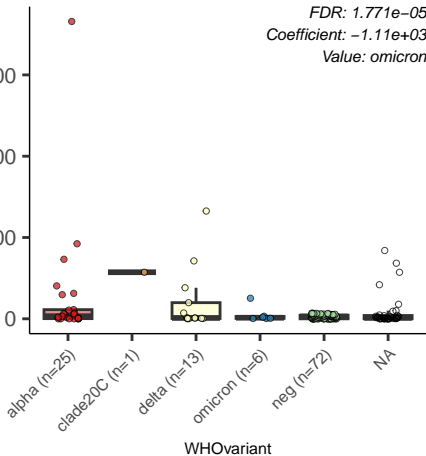
bacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae

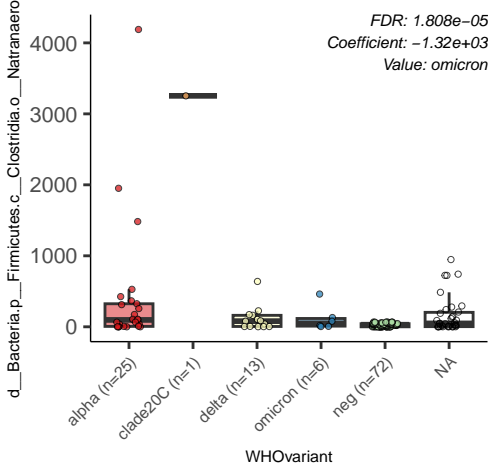
FDR: $1.737e-05$
Coefficient: $-2.09e+03$
Value: delta



Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__A

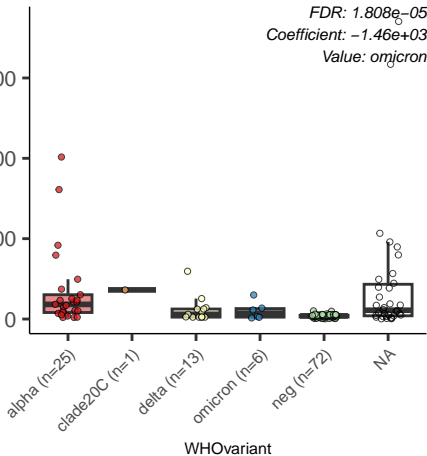
FDR: 1.771e-05
Coefficient: -1.11e+03
Value: omicron





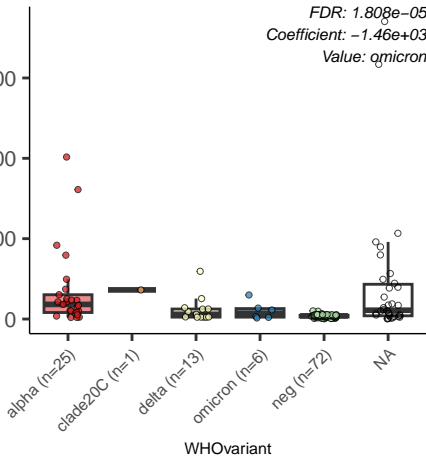
Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridia

FDR: $1.808e-05$
Coefficient: $-1.46e+03$
Value: omicron



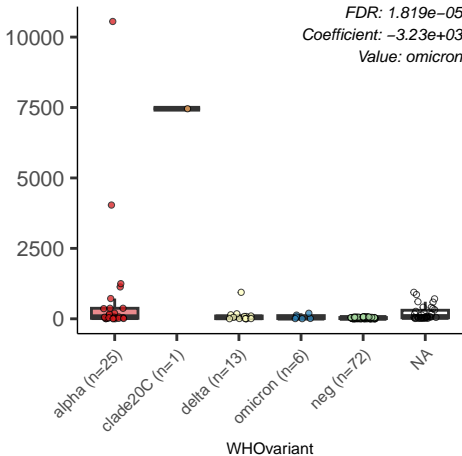
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Ha

FDR: $1.808e-05$
Coefficient: $-1.46e+03$
Value: omicron

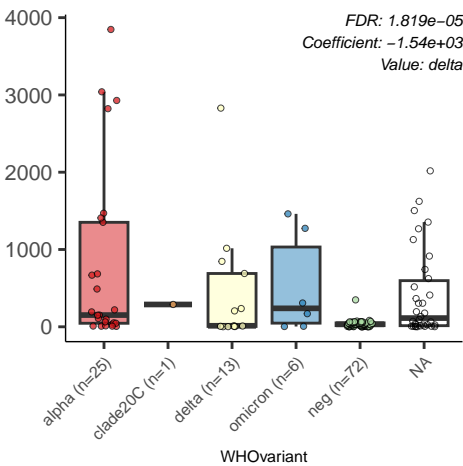


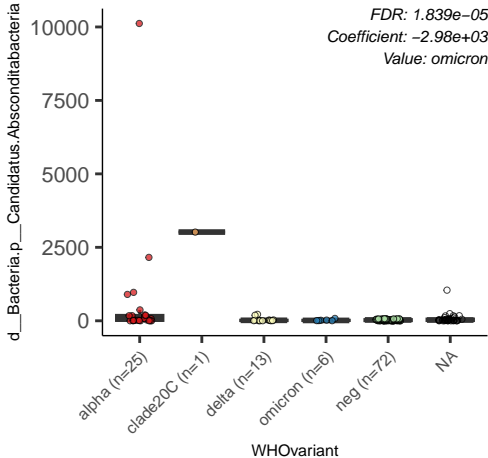
Cyanobacteria.o__Pseudanabaenales.f__Leptolyngbyaceae.g__Lep

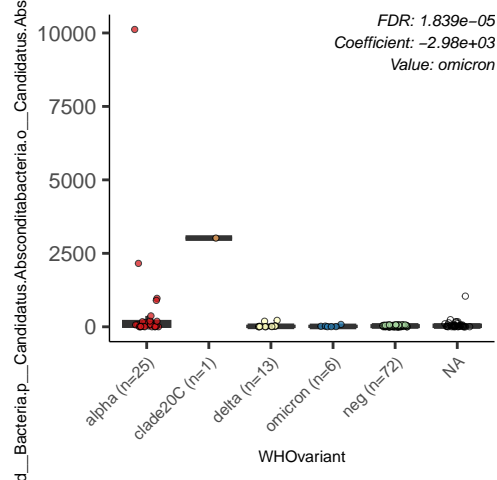
FDR: 1.819e-05
Coefficient: -3.23e+03
Value: omicron



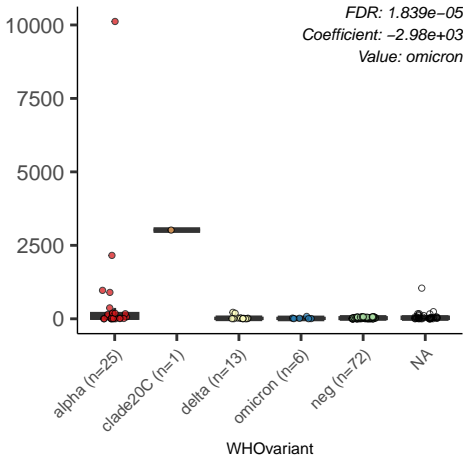
o_Actinobacteria.c_Actinomycetia.o_Streptosporangiales.f_No

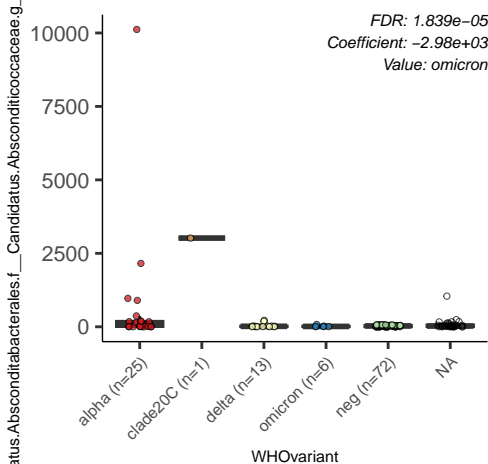






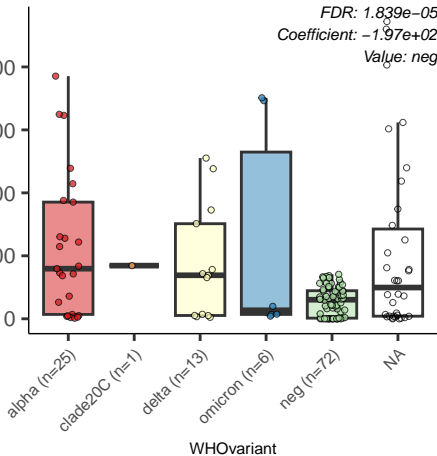
nditabacteria.o__Candidatus.Absconditabacterales.f__Candidatus.A

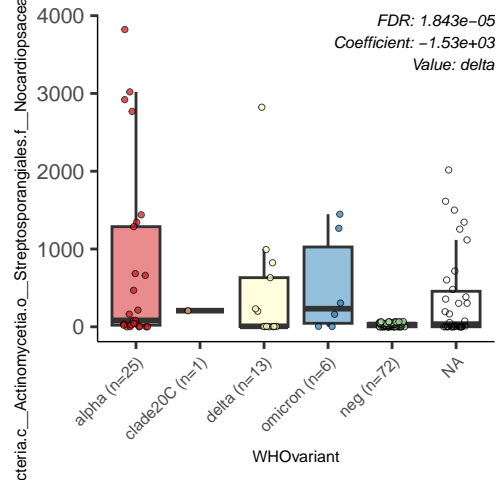




3acteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotricha

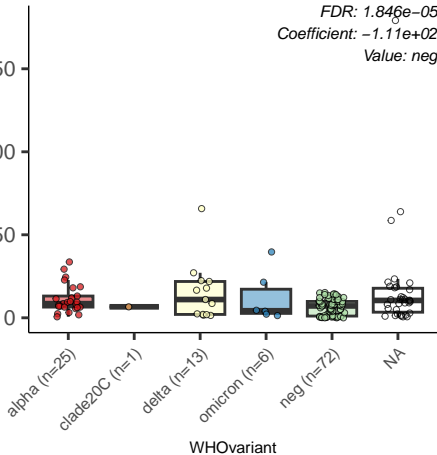
FDR: $1.839e-05$
Coefficient: $-1.97e+02$
Value: neg

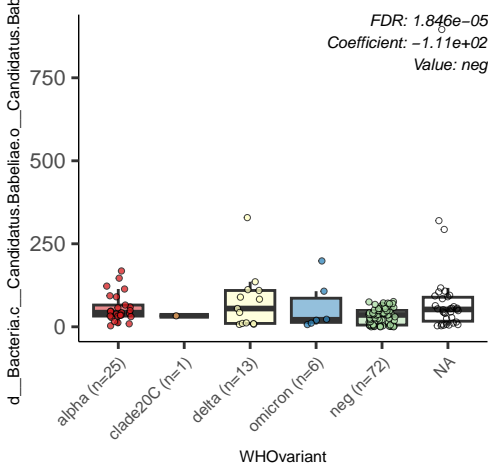


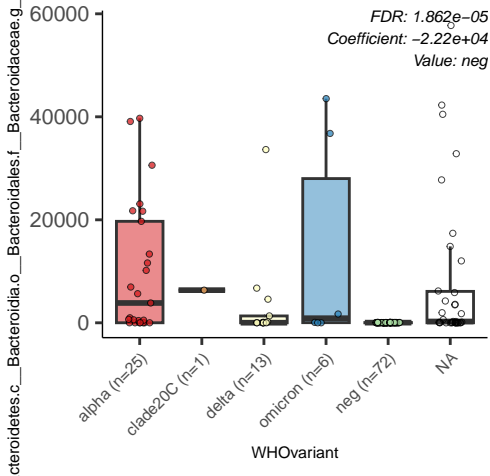


d_Bacteria.c__Candidatus.Babeliae

FDR: $1.846e-05$
Coefficient: $-1.11e+02$
Value: neg

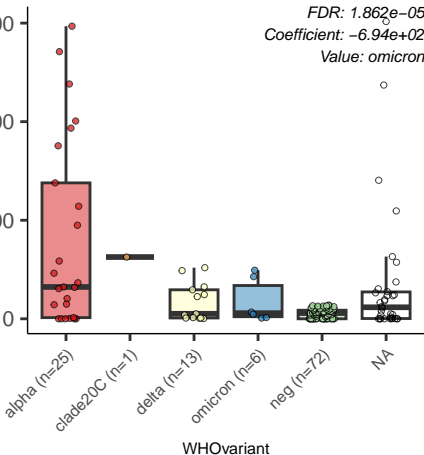




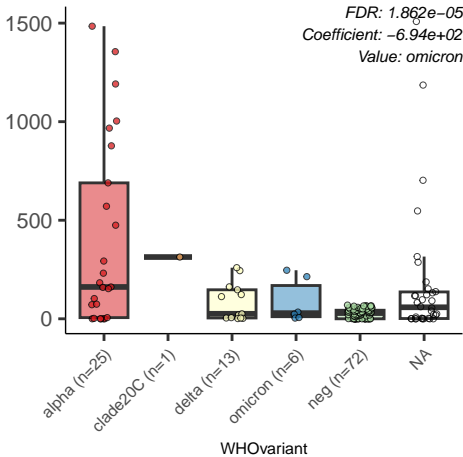


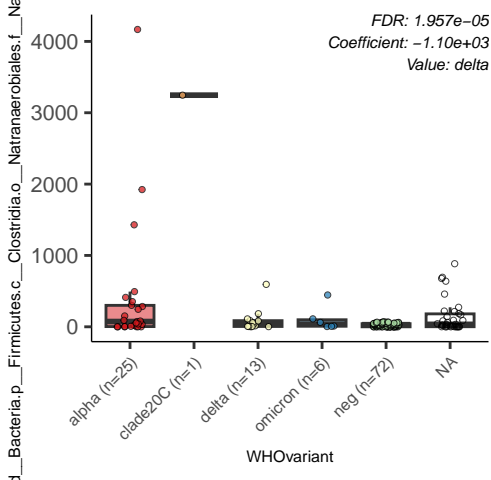
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f__Vallitale

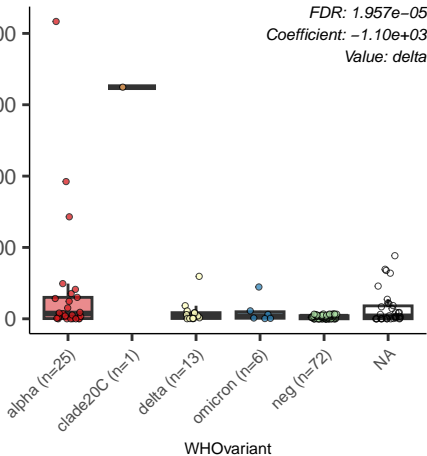
FDR: $1.862e-05$
Coefficient: $-6.94e+02$
Value: omicron



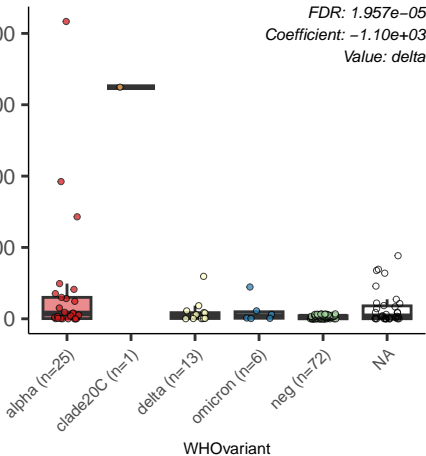
Firmicutes.c__Clostridia.o__Eubacteriales.f__Vallitaleaceae.g__Pet





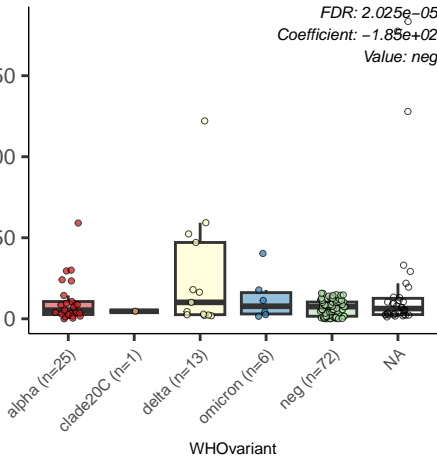


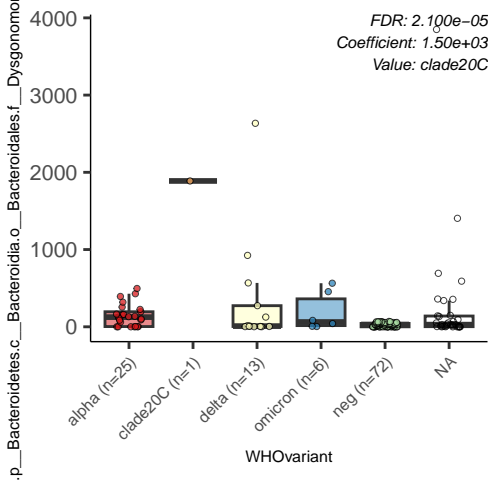
c__Clostridia.o__Natranaerobiales.f__Natranaerofabaceae.g__Natra

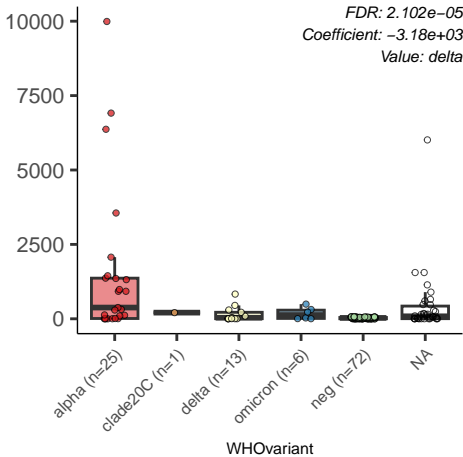


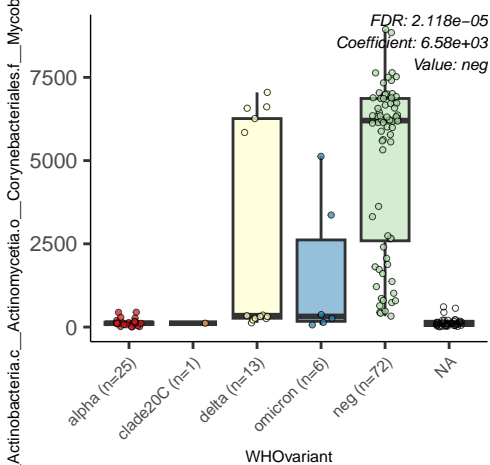
d_Bacteria.p_Actinobacteria.c_Acidimicrobia.o_Acidimicrobia

FDR: $2.025e-05$
Coefficient: $-1.85e+02$
Value: neg

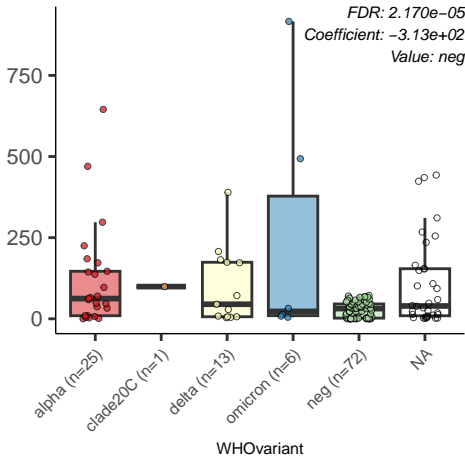


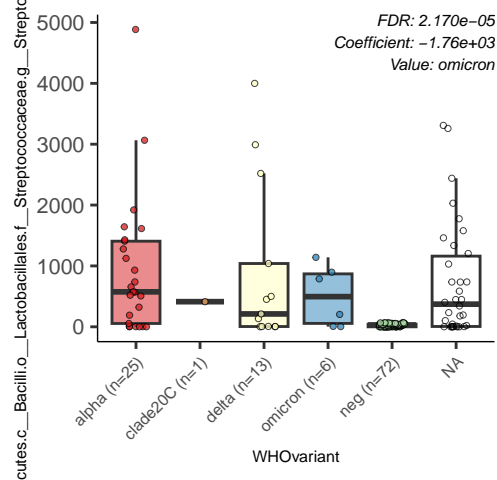


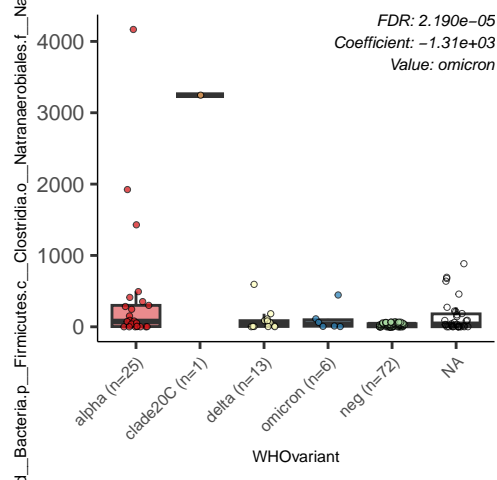


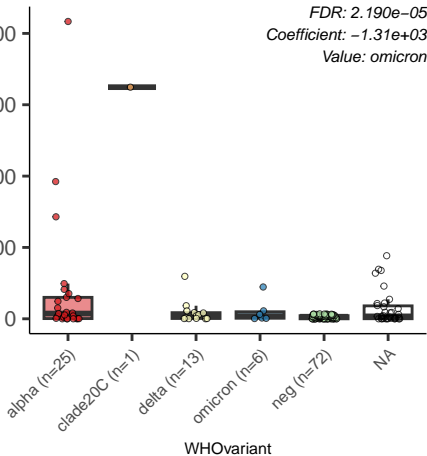


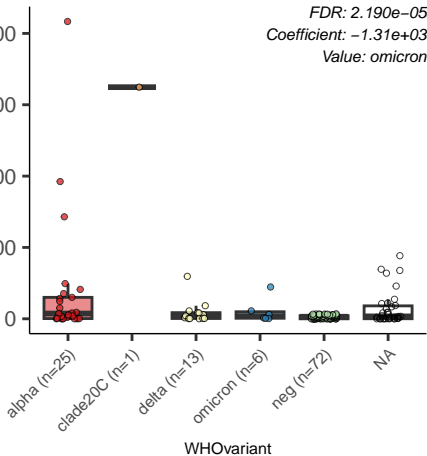
tertia.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfuromonad



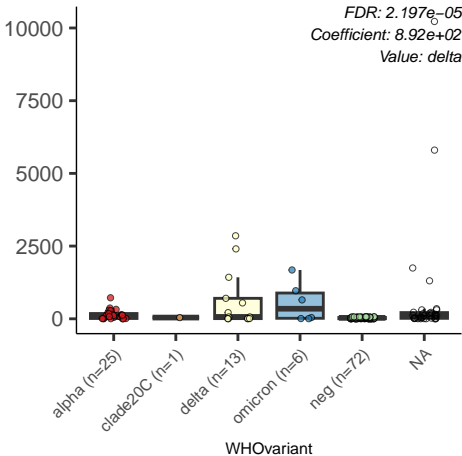




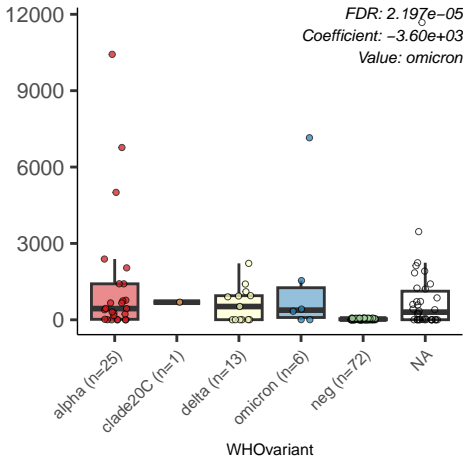


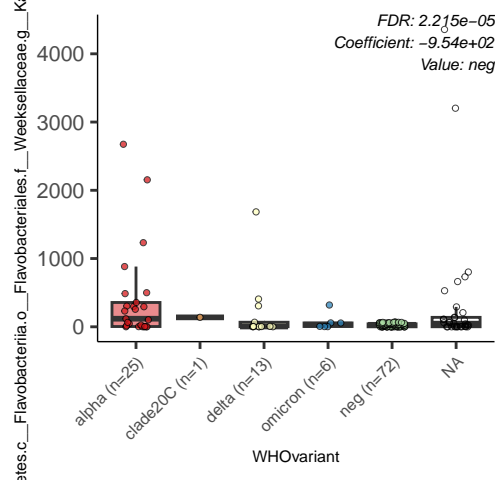


a.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales



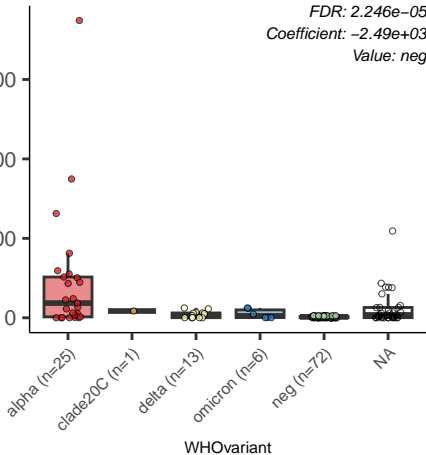
bbacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

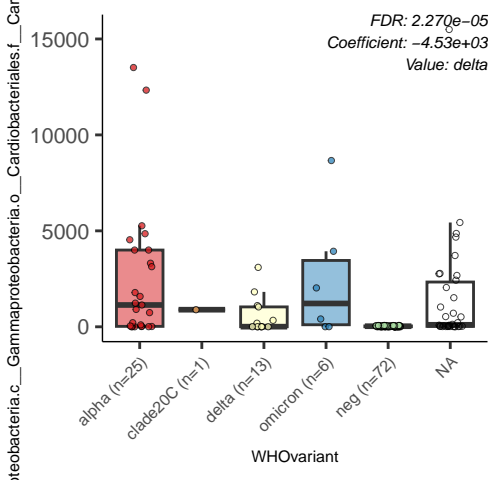




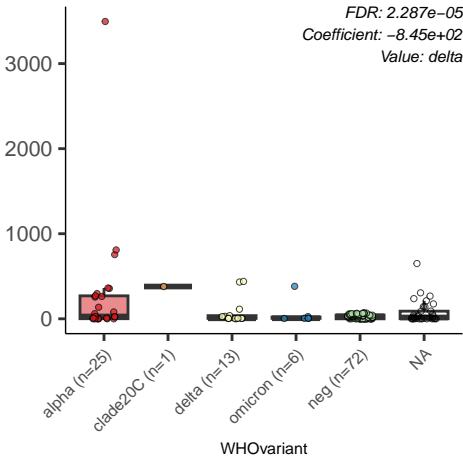
rmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Ar

FDR: 2.246e-05
Coefficient: -2.49e+03
Value: neg





Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Cl



d__Bacteria.p__Cyanobacteria.o__Pseudanabaena

FDR: 2.331e-05
Coefficient: -3.79e+03
Value: omicron

10000

5000

0

alpha (n=25)

clade20C (n=1)

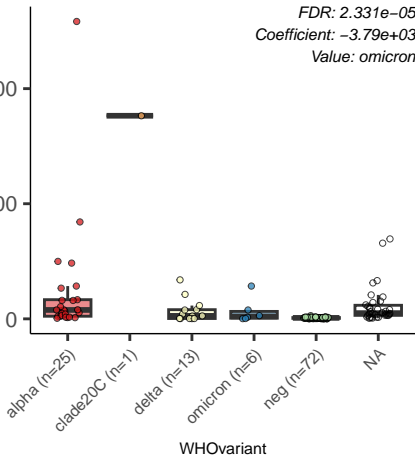
delta (n=13)

omicron (n=6)

neg (n=72)

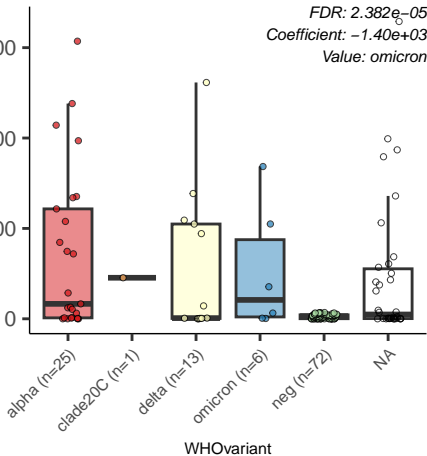
NA

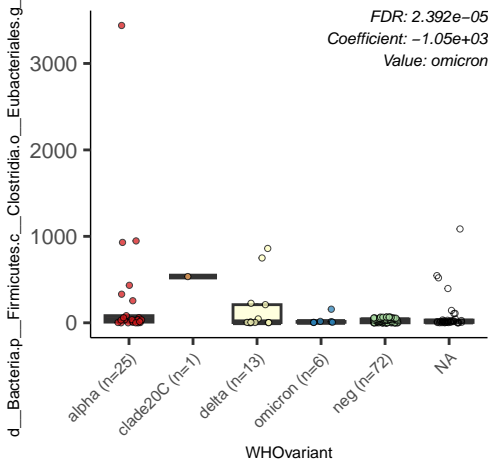
WHOvariant

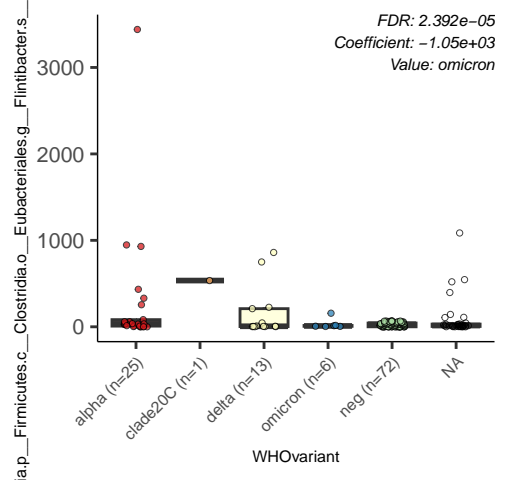


eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae

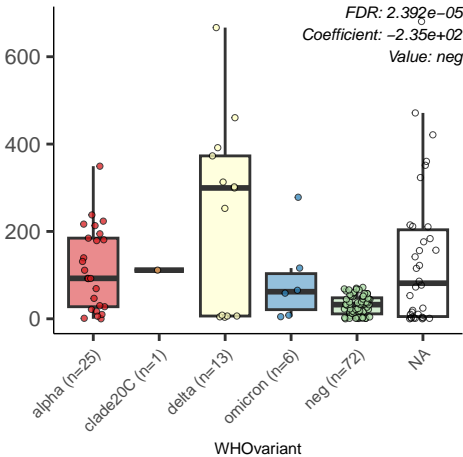
FDR: $2.382e-05$
Coefficient: $-1.40e+03$
Value: omicron

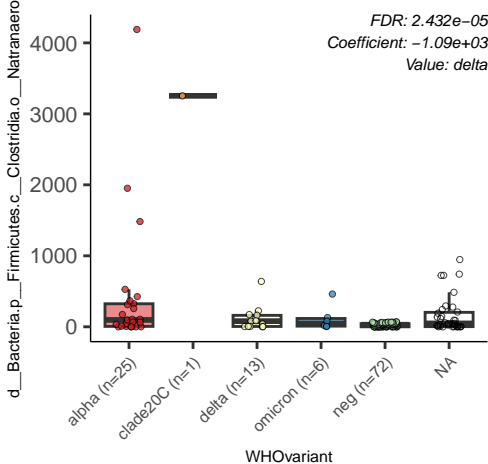






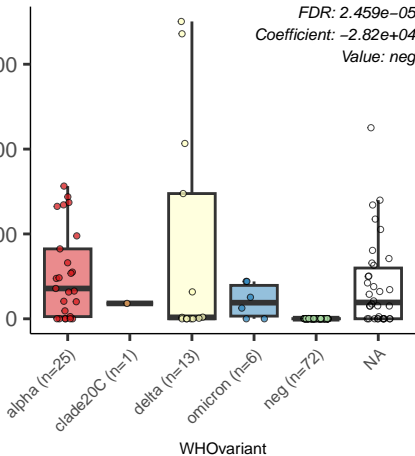
_Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__Paeniba

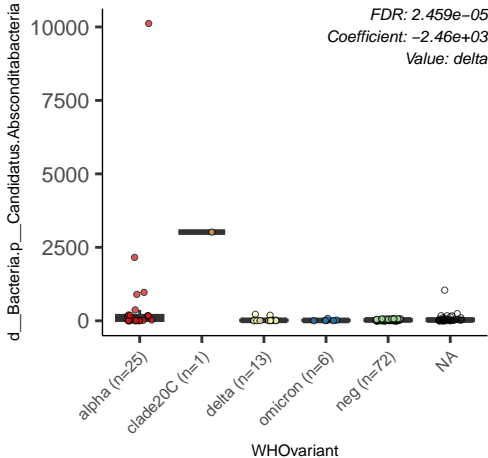


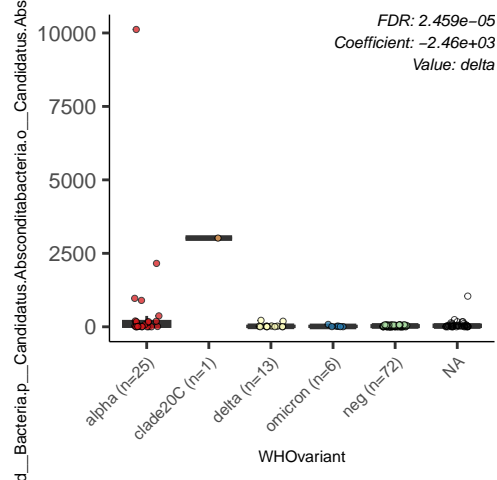


tes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

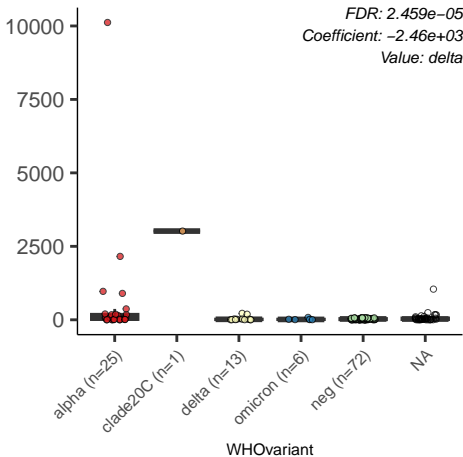
FDR: $2.459e-05$
Coefficient: $-2.82e+04$
Value: neg



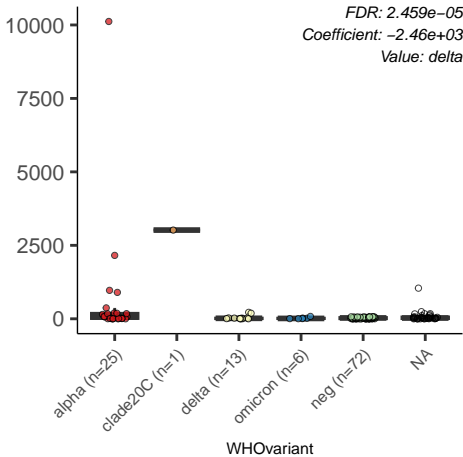


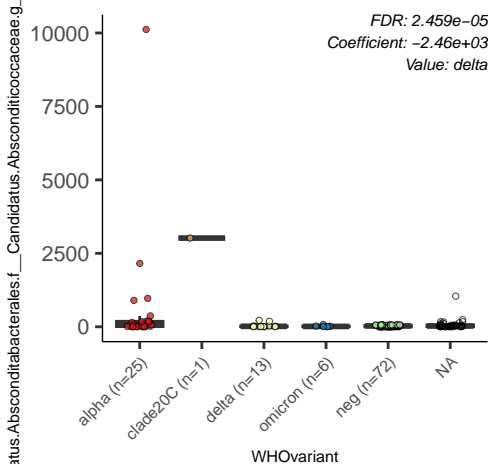


candidatus.Absconditabacteria.o__Candidatus.Absconditabacterales.



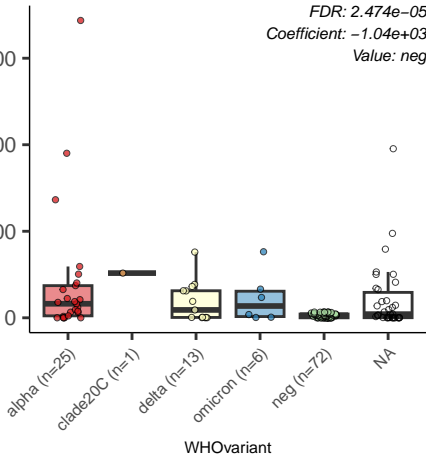
nditabacteria.o__Candidatus.Absconditabacterales.f__Candidatus.A





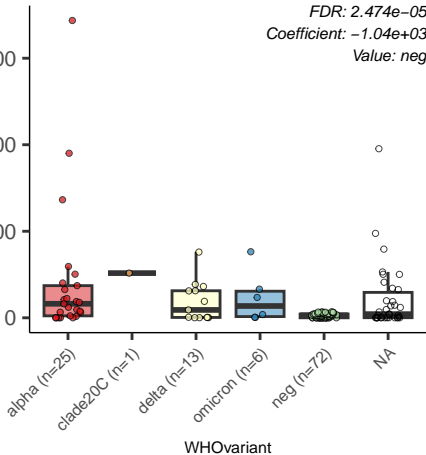
d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f

FDR: $2.474e-05$
Coefficient: $-1.04e+03$
Value: neg



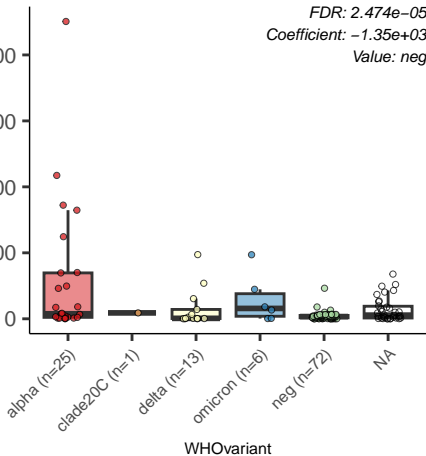
detes.c__Bacteroidia.o__Bacteroidales.f__Paludibacteraceae.g__Pa

FDR: 2.474e-05
Coefficient: -1.04e+03
Value: neg



Actinomycetia.o__Corynebacteriales.f__Corynebacteriaceae.g__Co

FDR: 2.474e-05
Coefficient: -1.35e+03
Value: neg

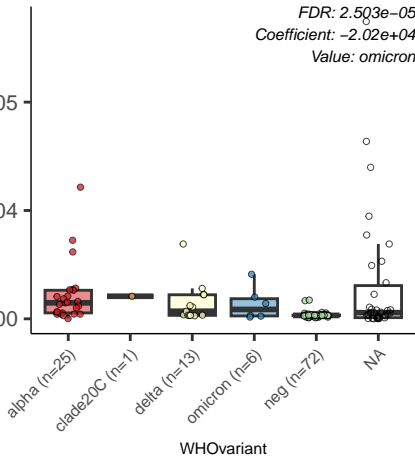


NA

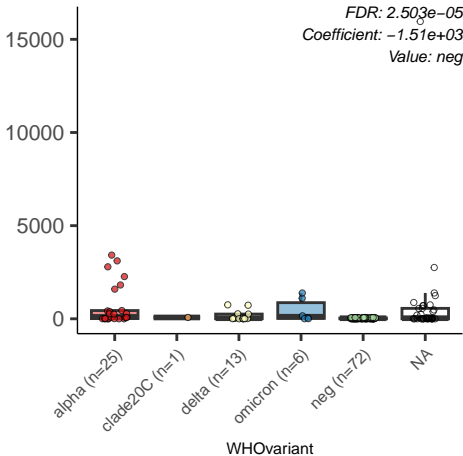
FDR: 2.497e-05
Coefficient: -1.65e+02
Value: neg

c__Gammaproteobacteria.o__Oceanospirillales.f__Halomonadaceae

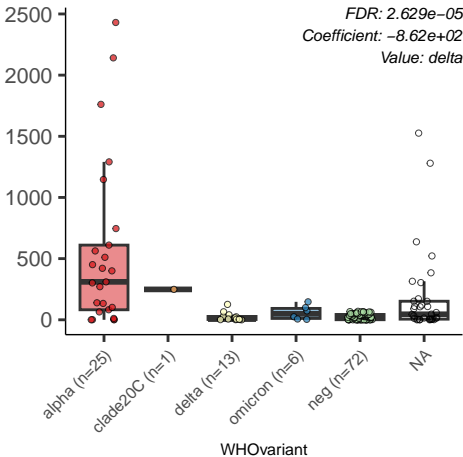
FDR: $2.503e-05$
Coefficient: $-2.02e+04$
Value: omicron

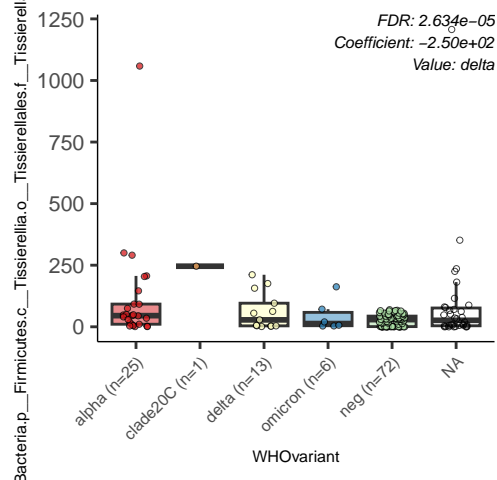


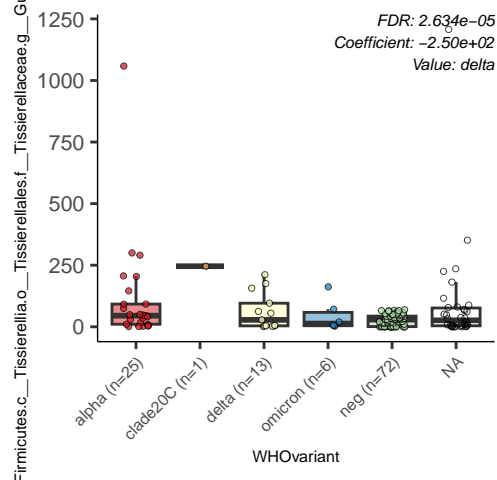
bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae



bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae.g

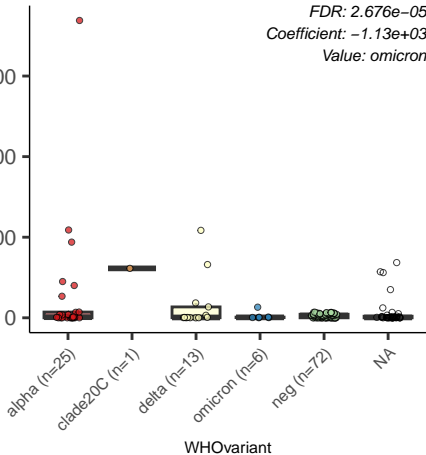






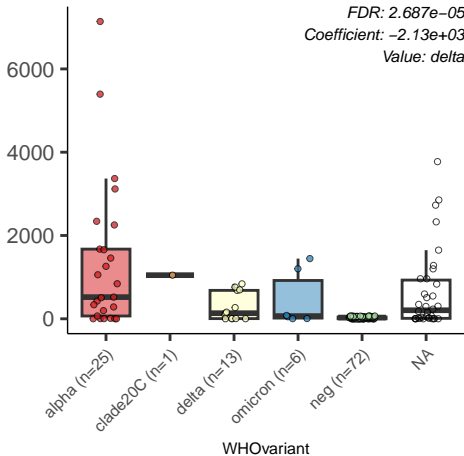
irmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Lact

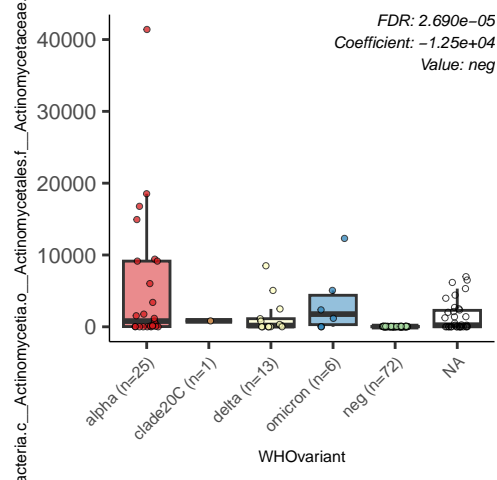
FDR: 2.676e-05
Coefficient: -1.13e+03
Value: omicron

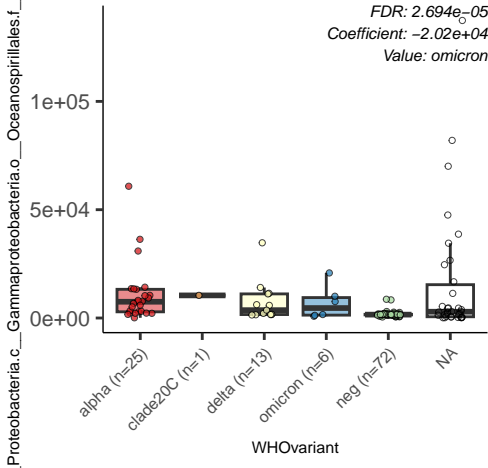


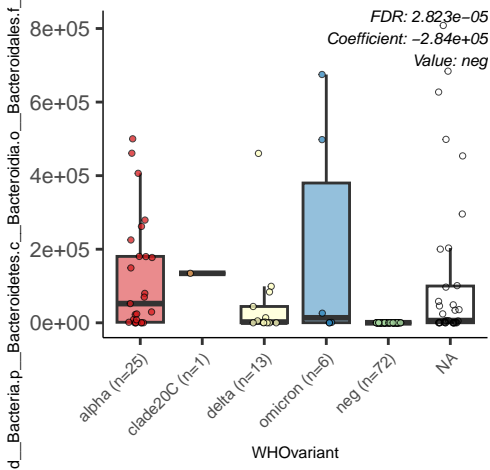
acteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospira

FDR: $2.687e-05$
Coefficient: $-2.13e+03$
Value: delta



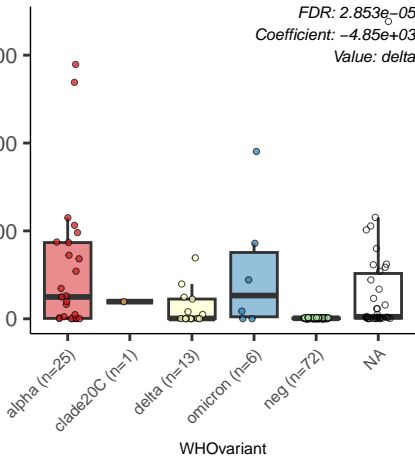


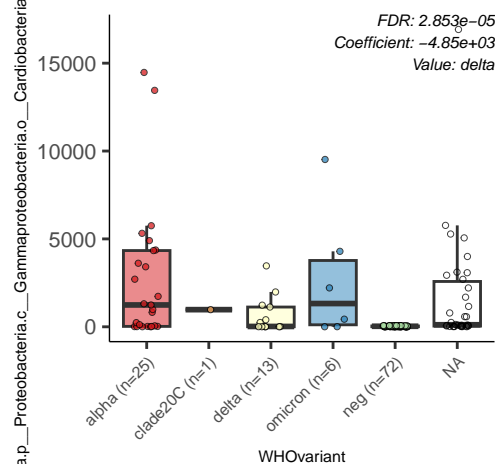




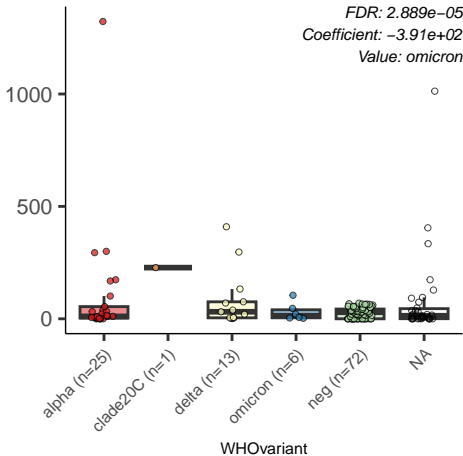
d_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ca

FDR: $2.853e-05$
Coefficient: $-4.85e+03$
Value: delta

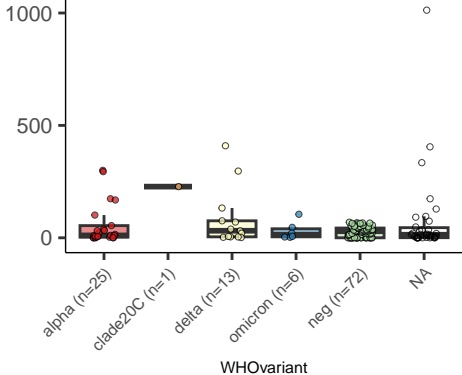


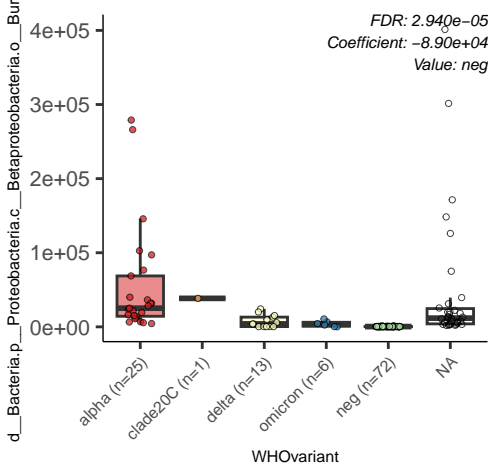


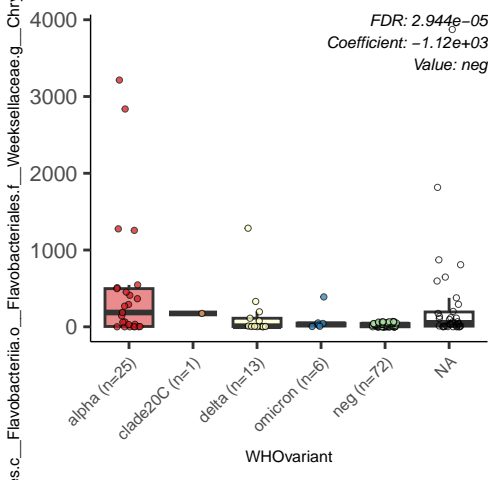
a.p__Tenericutes.c__Mollicutes.o__Acholeplasma.tales.f__Acholepla

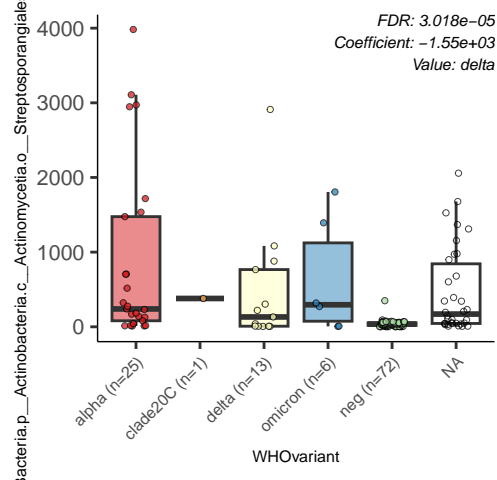


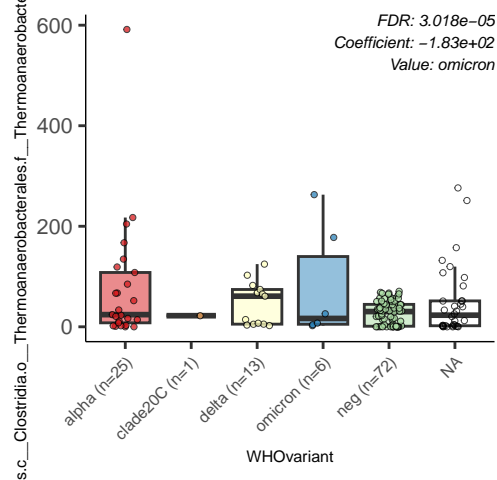
FDR: 2.889e-05
Coefficient: -3.91e+02
Value: omicron



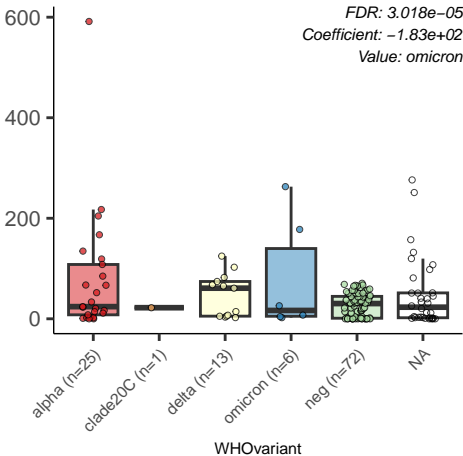






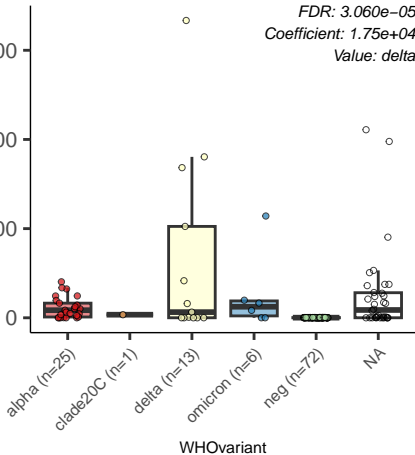


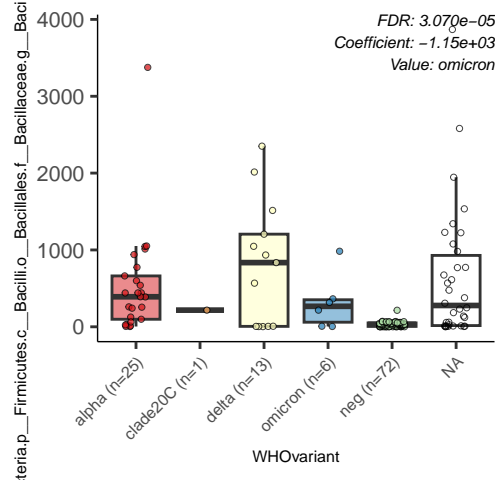
ia.o__Thermoanaerobacterales.f__Thermoanaerobacterales.Family



icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

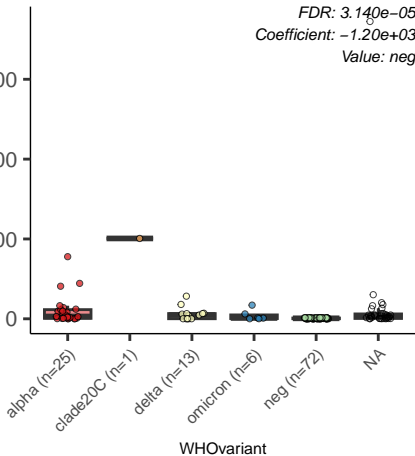
FDR: 3.060e-05
Coefficient: 1.75e+04
Value: delta





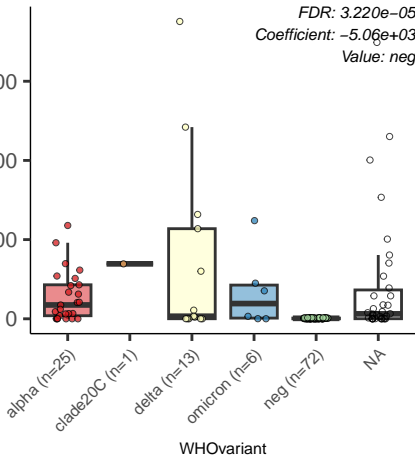
eria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacter

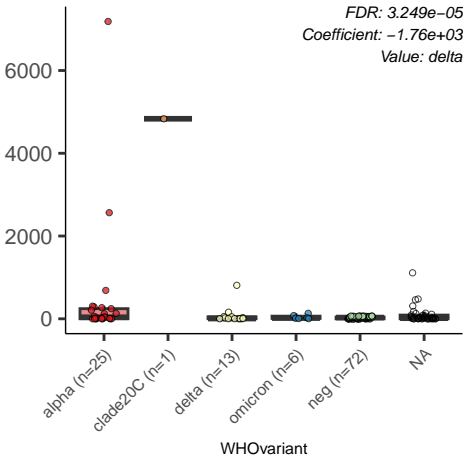
FDR: 3.140e-05
Coefficient: -1.20e+03
Value: neg

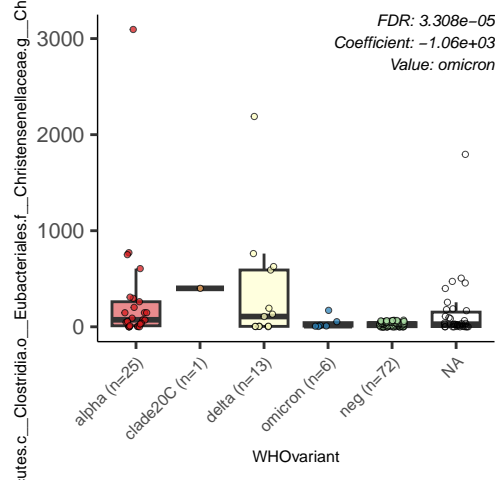


icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strept

FDR: 3.220e-05
Coefficient: -5.06e+03
Value: neg

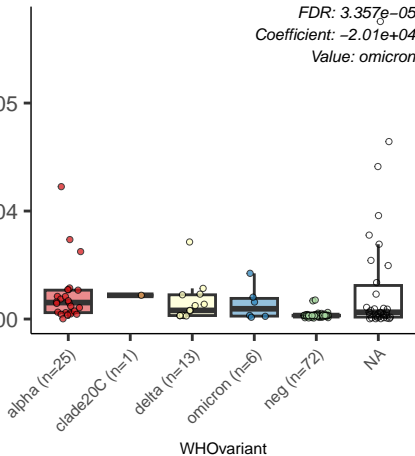


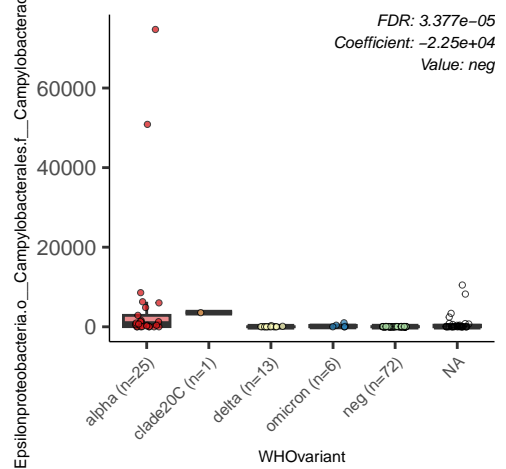




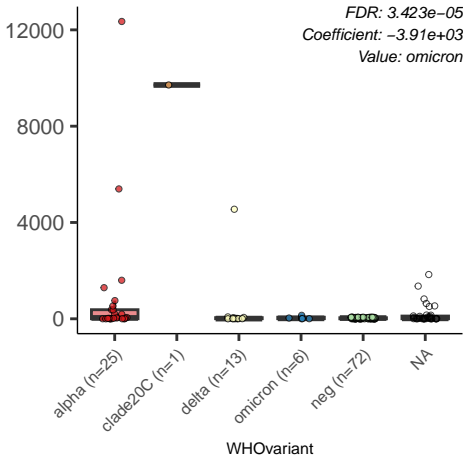
eria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirill

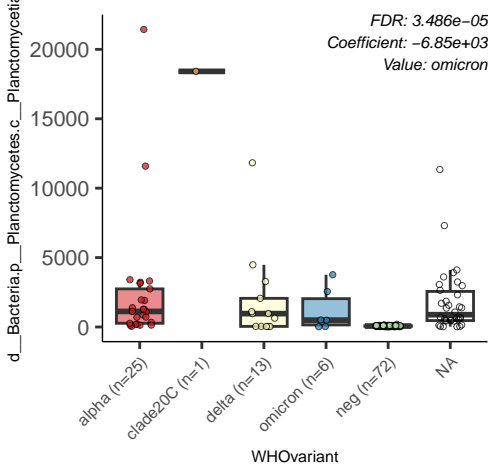
FDR: $3.357e-05$
Coefficient: $-2.01e+04$
Value: omicron

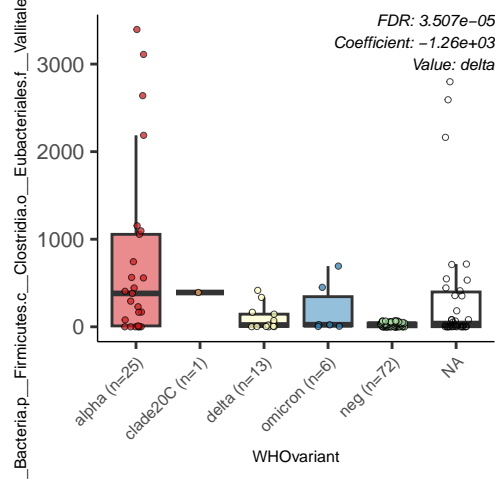




p__Planctomycetes.c__Planctomycetia.o__Planctomycetales.f__Pla

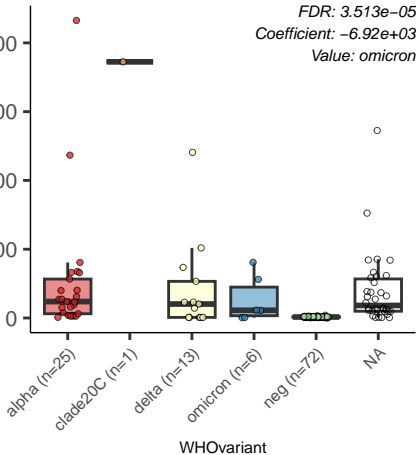


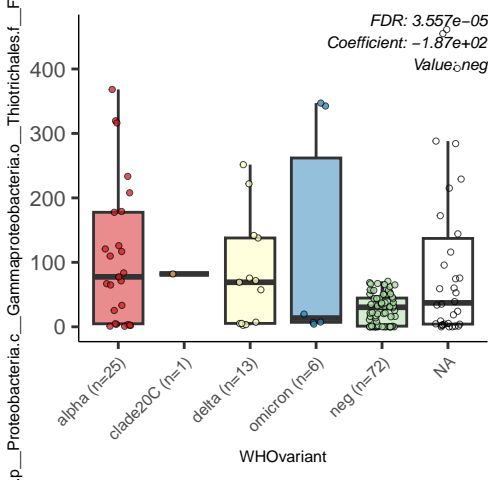


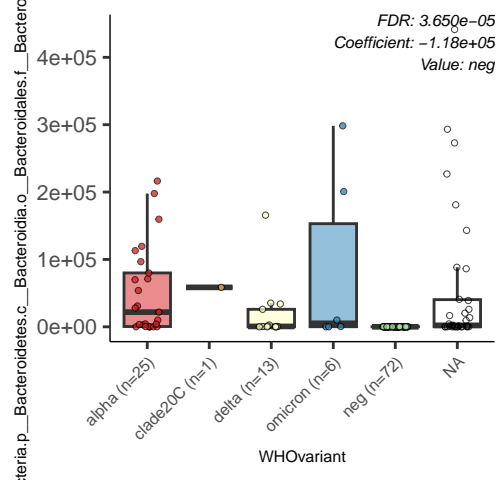


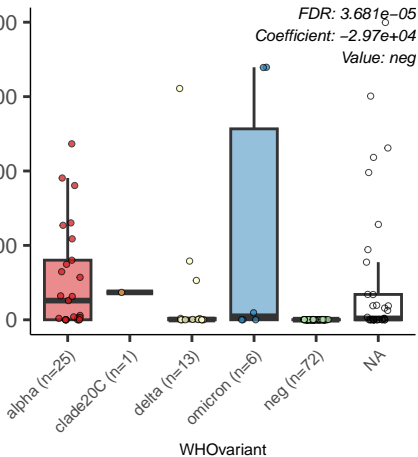
d__Bacteria.p__Planctomycetes

FDR: $3.513e-05$
Coefficient: $-6.92e+03$
Value: omicron

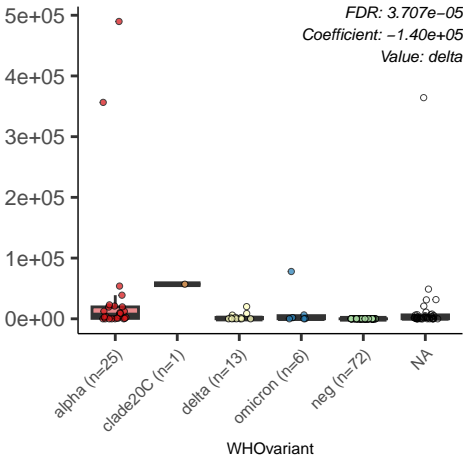




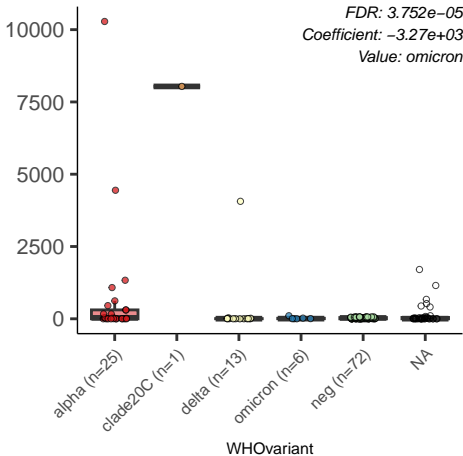




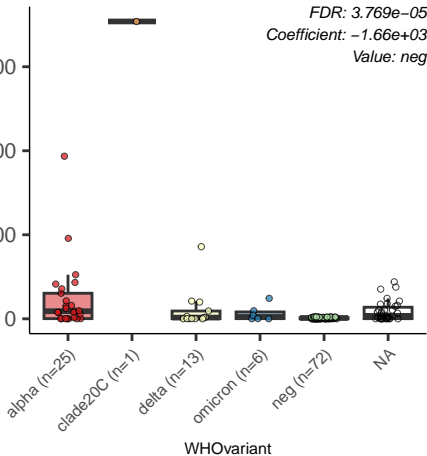
eroidetes.c__Bacteroidia.o__Bacteroidales.f__Tannerellaceae.g__Ta



omyces.c__Planctomycetia.o__Planctomycetales.f__Planctomycet

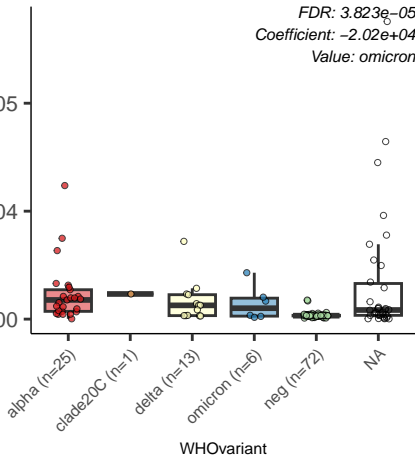


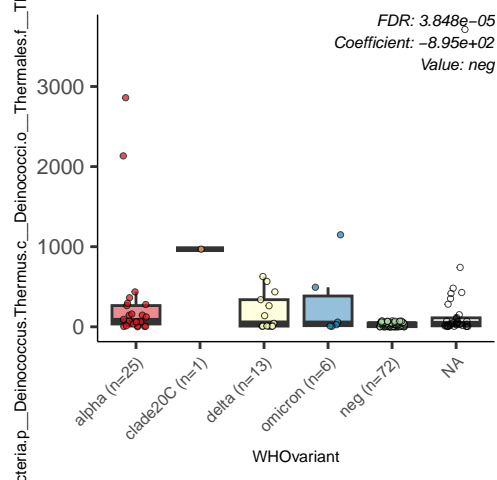
d_Bacteria.p__Spirochaetes.c__Spirochaetia.o__Spirochaetales



d__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__O

FDR: $3.823e-05$
Coefficient: $-2.02e+04$
Value: omicron





bacteria.p__Spirochaetes.c__Spirochaetia.o__Spirochaetales.f__Bor

FDR: 3.884e-05
Coefficient: -4.57e+02
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

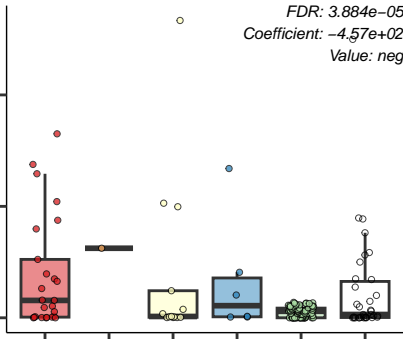
delta (n=13)

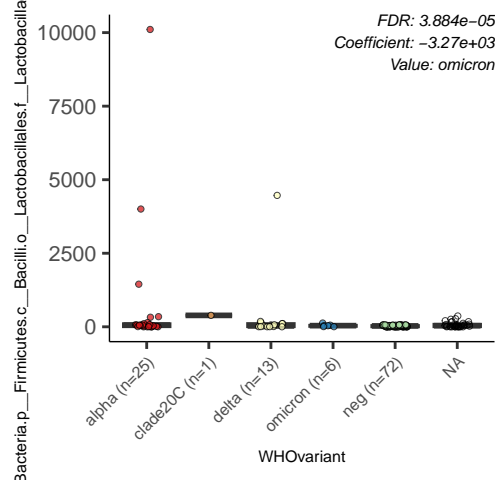
omicron (n=6)

neg (n=72)

NA

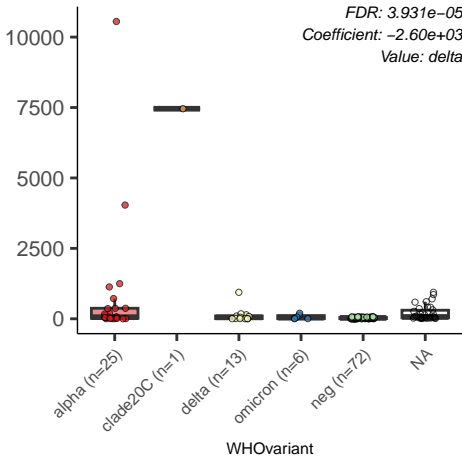
WHOvariant

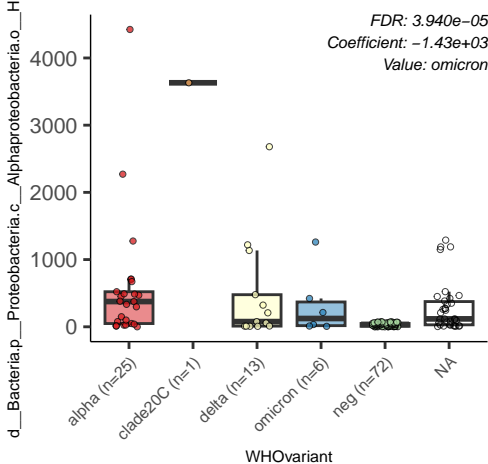




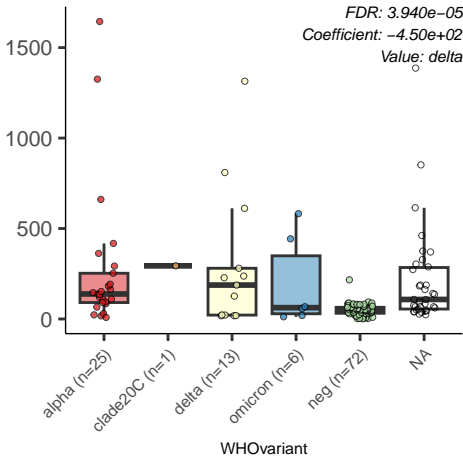
Cyanobacteria.o__Pseudanabaenales.f__Leptolyngbyaceae.g__Lep

FDR: $3.931e-05$
Coefficient: $-2.60e+03$
Value: delta

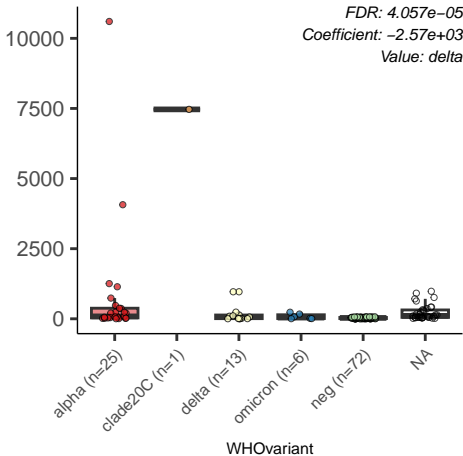


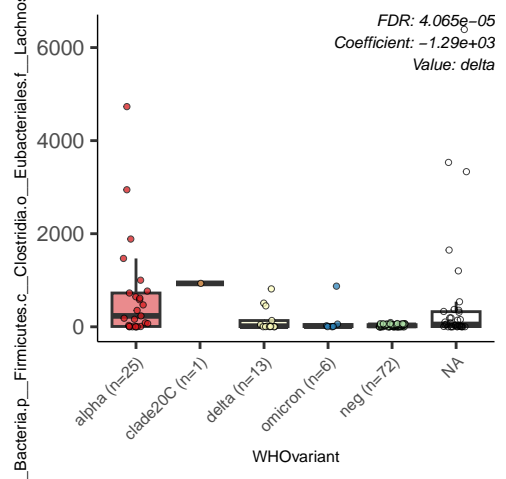


a.p__Actinobacteria.c__Actinomycetia.o__Corynebacteriales.f__No

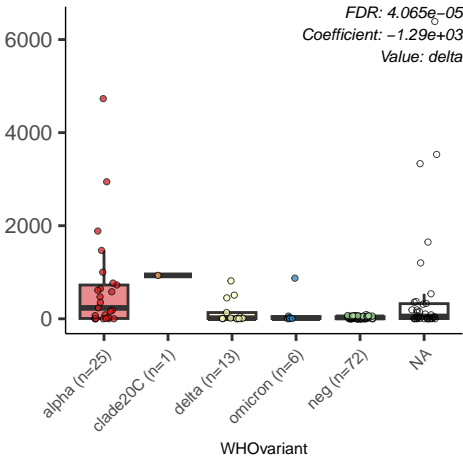


d__Bacteria.p__Cyanobacteria.o__Pseudanabaenales.f__Lept



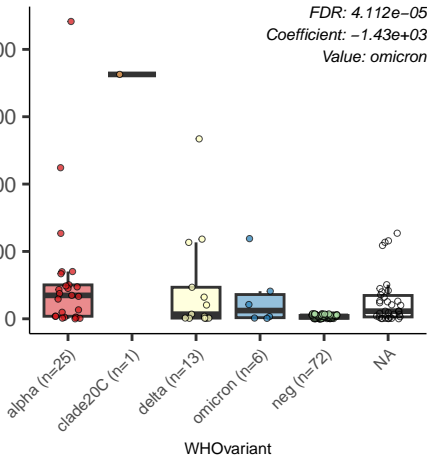


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g



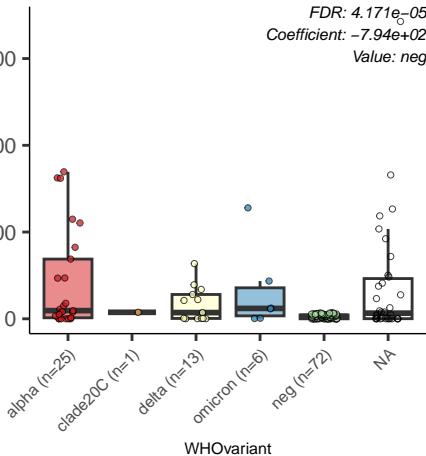
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Holosporal

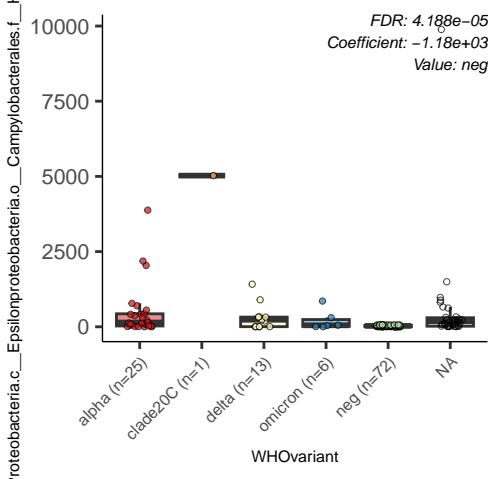
FDR: $4.112e-05$
Coefficient: $-1.43e+03$
Value: omicron



Firmicutes.c__Negativicutes.o__Acidaminococcales.f__Acidaminino

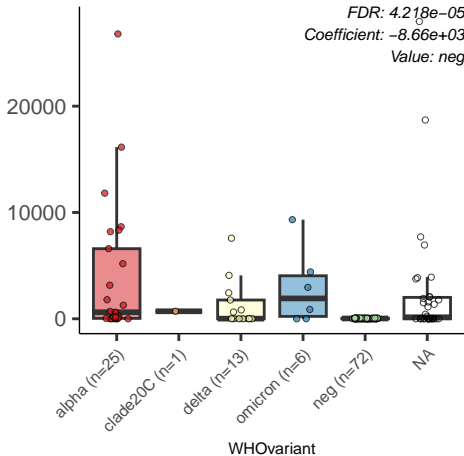
FDR: $4.171e-05$
Coefficient: $-7.94e+02$
Value: neg





eria.c_Actinomycetia.o_Micrococcales.f_Microbacteriaceae.g

FDR: $4.218e-05$
Coefficient: $-8.66e+03$
Value: neg

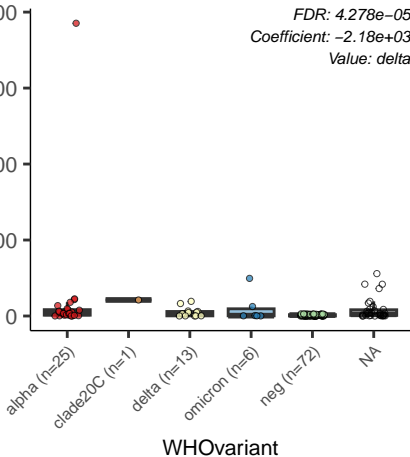


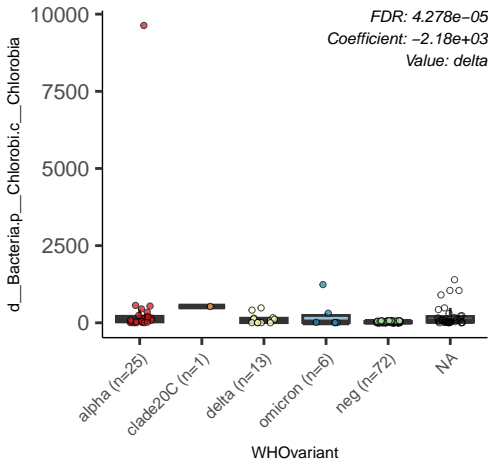
d_Bacteria.p__Chlorobi

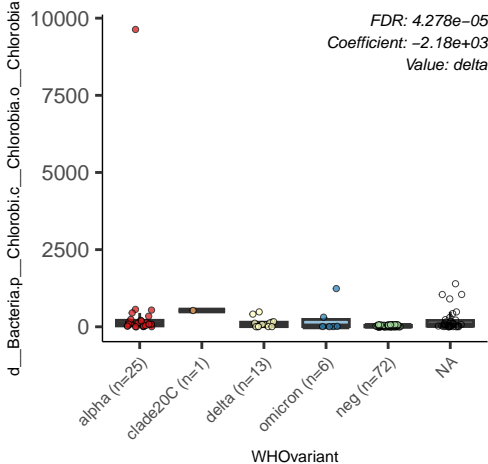
FDR: 4.278e-05

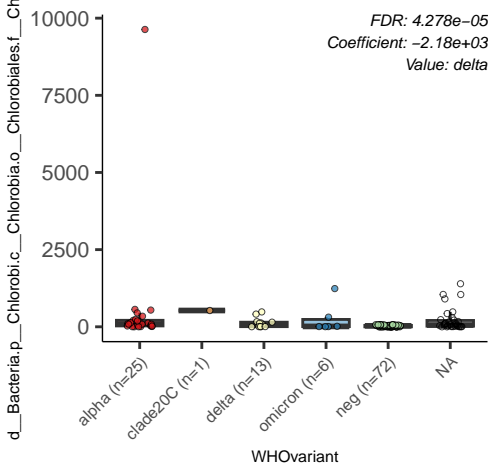
Coefficient: -2.18e+03

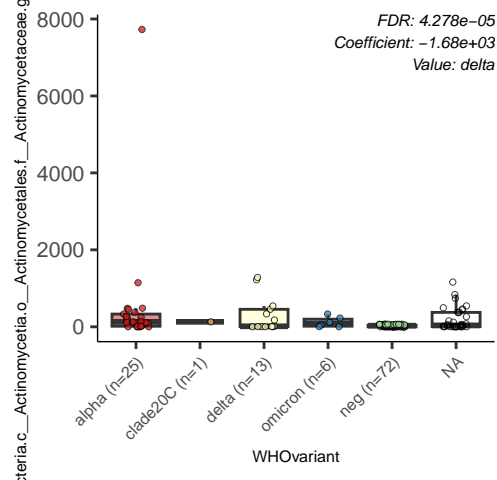
Value: delta

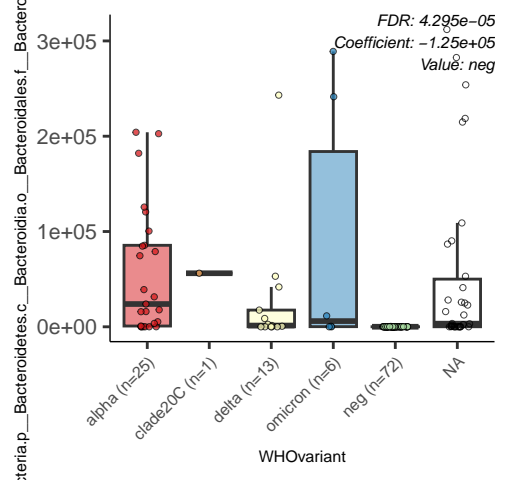


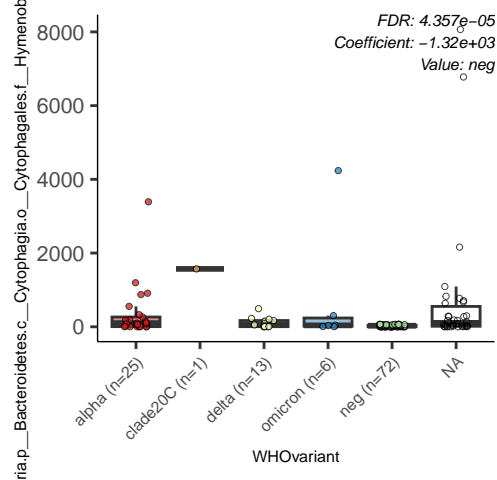




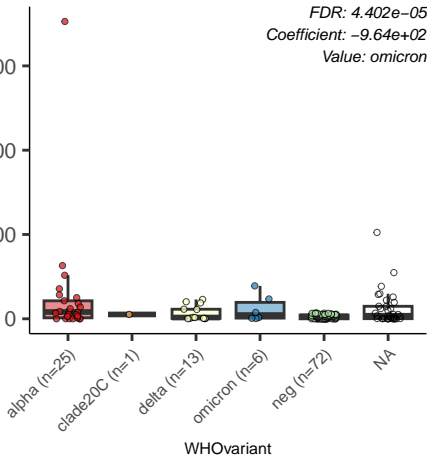




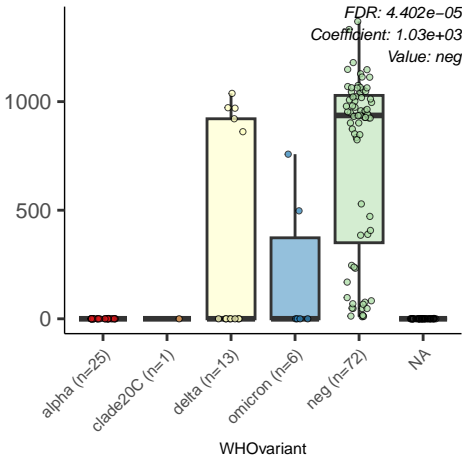




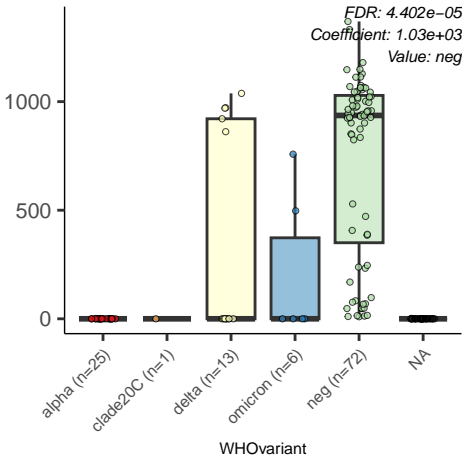
omicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Ru

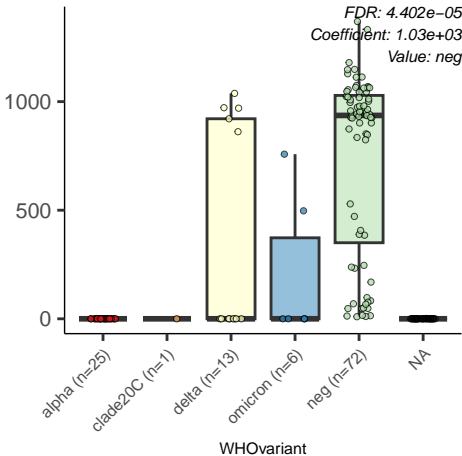


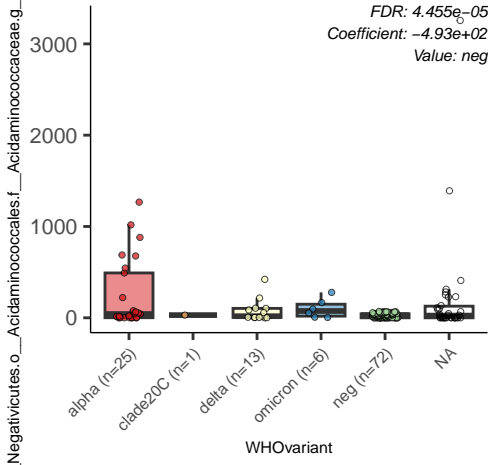
d__Viruses.k__Heunggongvirae.p__Uroviricota.c__Caudoviricetes



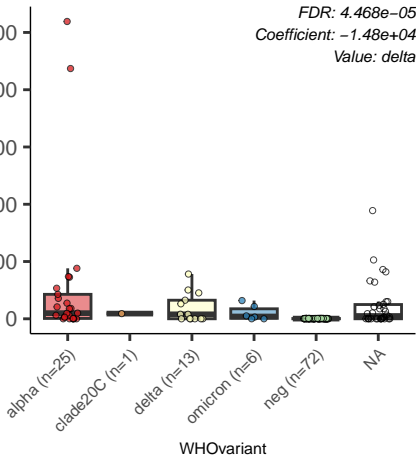
cruses.k_Heunggongvirae.p_Uroviricota.c_Caudoviricetes.f_Peo



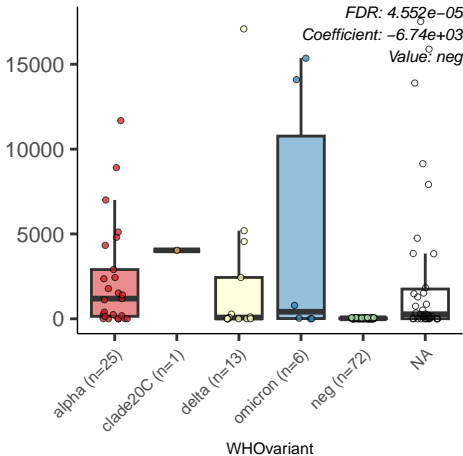




bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

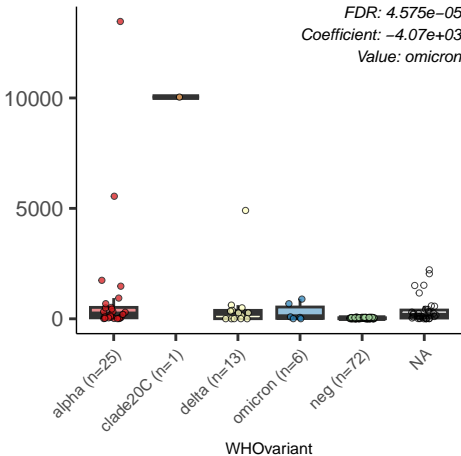


eroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_P



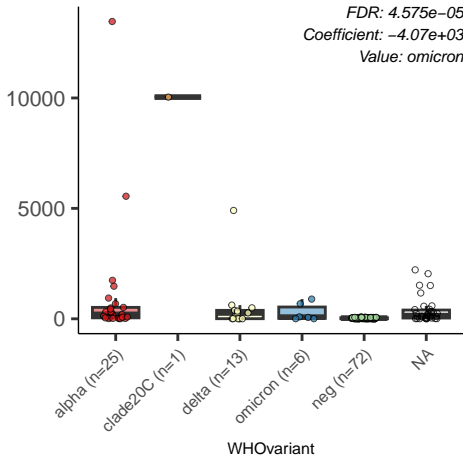
d_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Plancto

FDR: $4.575e-05$
Coefficient: $-4.07e+03$
Value: omicron

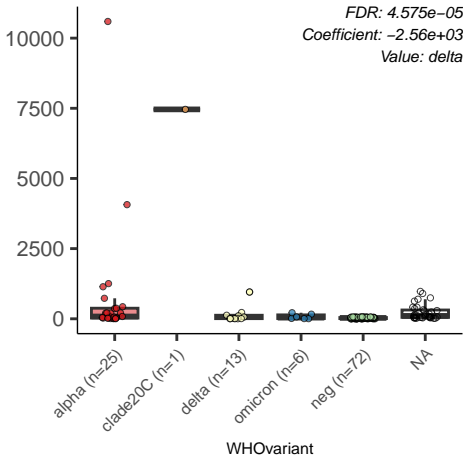


bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetales

FDR: $4.575e-05$
Coefficient: $-4.07e+03$
Value: omicron

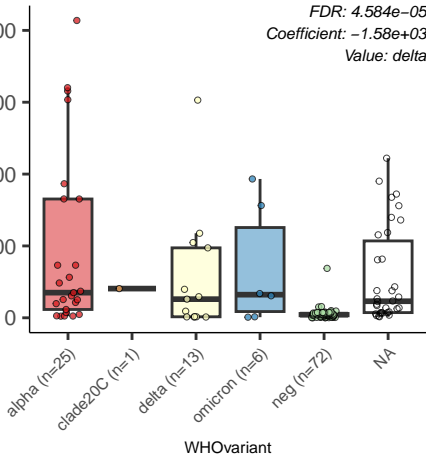


bacteria.p__Cyanobacteria.o__Pseudanabaenales.f__Leptolyngbya

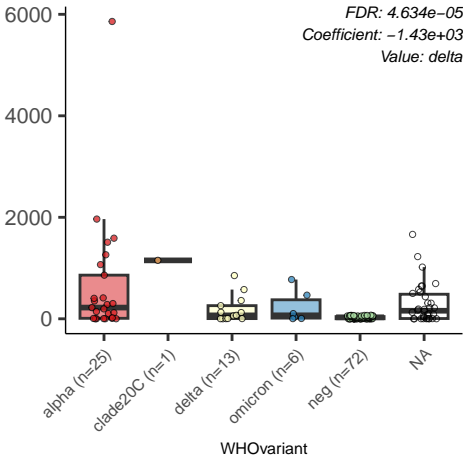


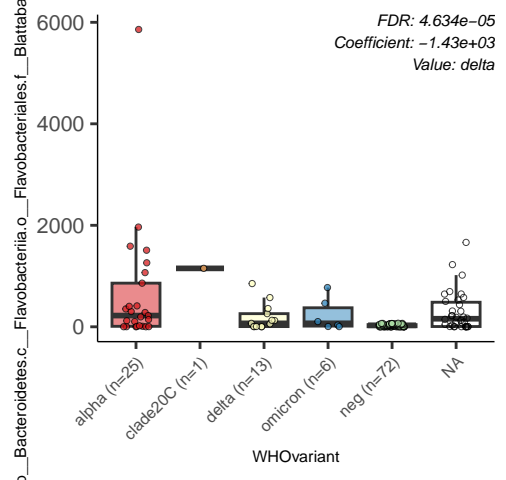
d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Streptos

FDR: $4.584e-05$
Coefficient: $-1.58e+03$
Value: delta



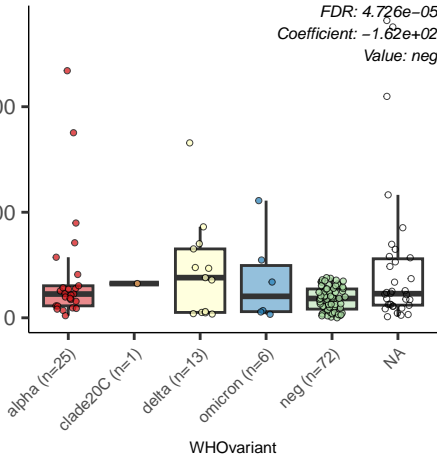
Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f





d_Bacteria.p_Armatimonadetes.c_Fimbrimonad

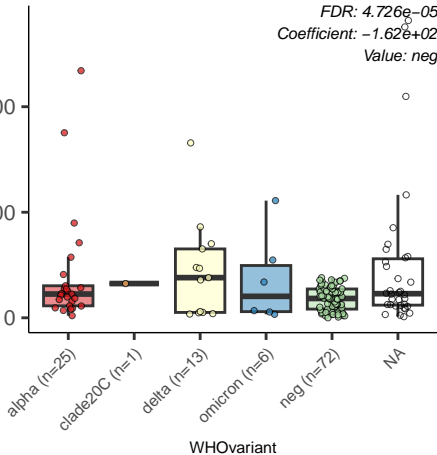
FDR: $4.726e-05$
Coefficient: $-1.62e+02$
Value: neg



FDR: 4.726e-05

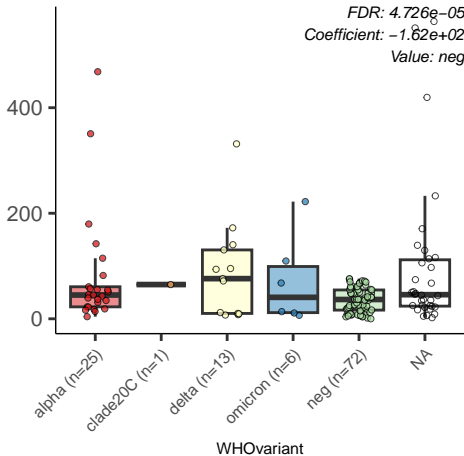
Coefficient: -1.62×10^2

Value: neg



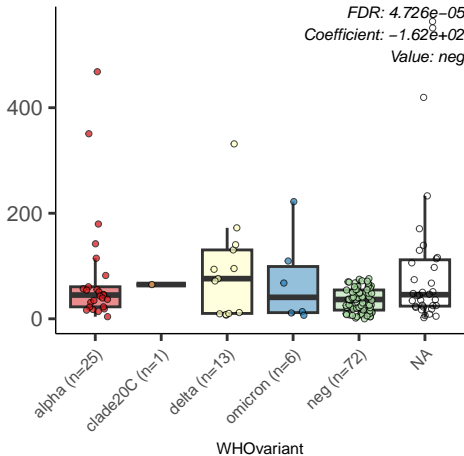
acteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonadale

FDR: $4.726e-05$
Coefficient: $-1.62e+02$
Value: neg



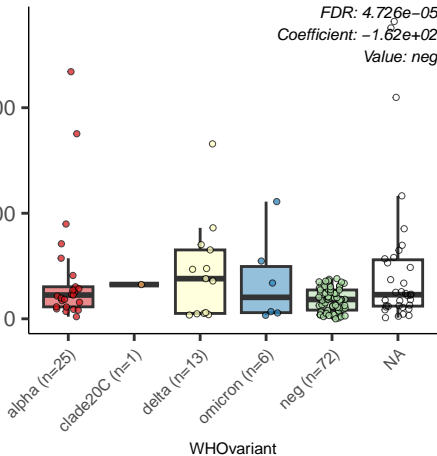
Armatimonadetes.c__Fimbrimonadia.o__Fimbrimonadales.f__Fim

FDR: 4.726e-05
Coefficient: -1.62e+02
Value: neg



tes.c__Fimbrimonadia.o__Fimbrimonadales.f__Fimbrimonadaceae

FDR: $4.726e-05$
Coefficient: $-1.62e+02$
Value: neg



FDR: $4.748e-05$
Coefficient: $-4.58e+02$
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

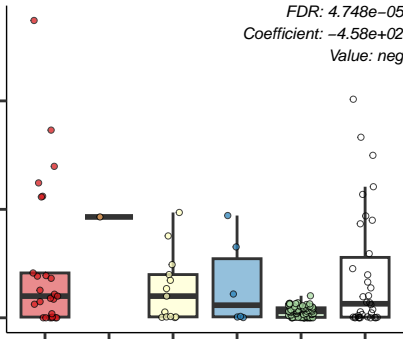
delta (n=13)

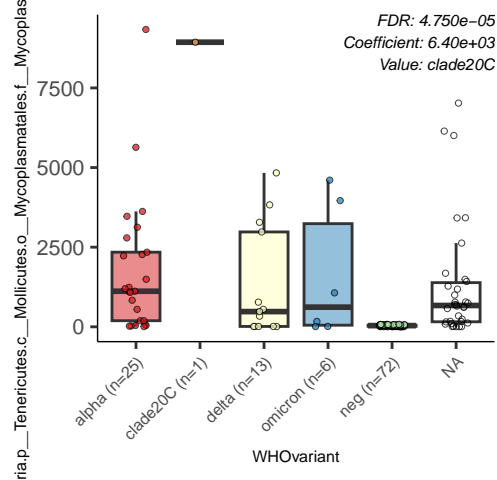
omicron (n=6)

neg (n=72)

NA

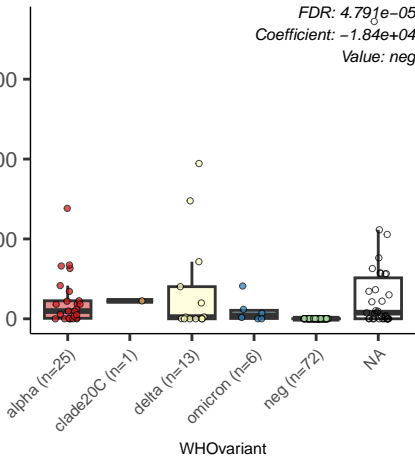
WHOvariant





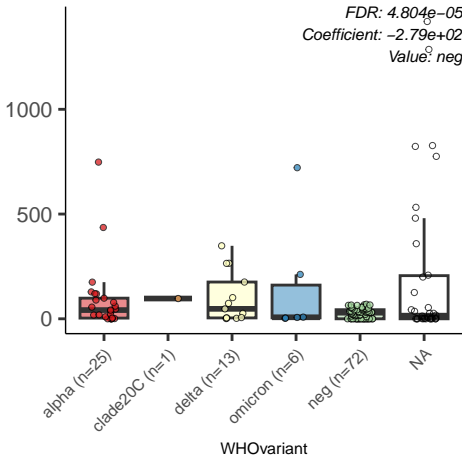
es.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Streptococcus

FDR: 4.791×10^{-5}
Coefficient: -1.84×10^4
Value: neg



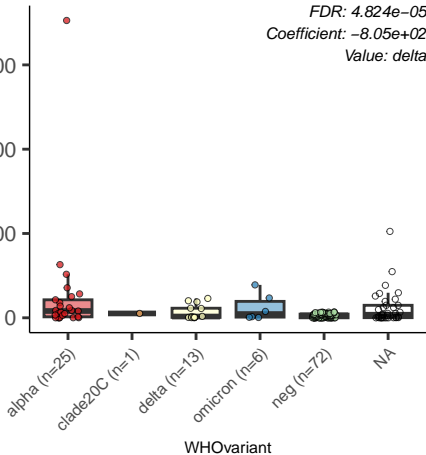
o_Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Geobacillu

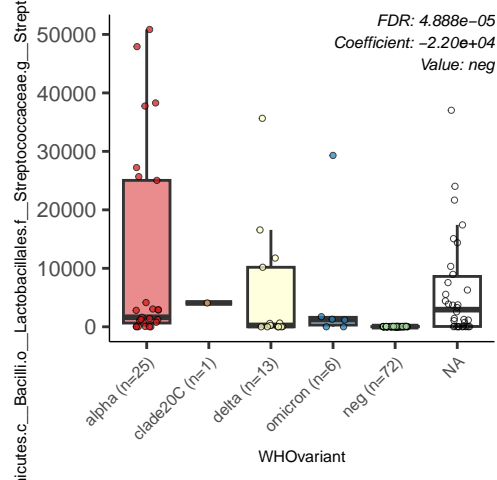
FDR: $4.804e-05$
Coefficient: $-2.79e+02$
Value: neg

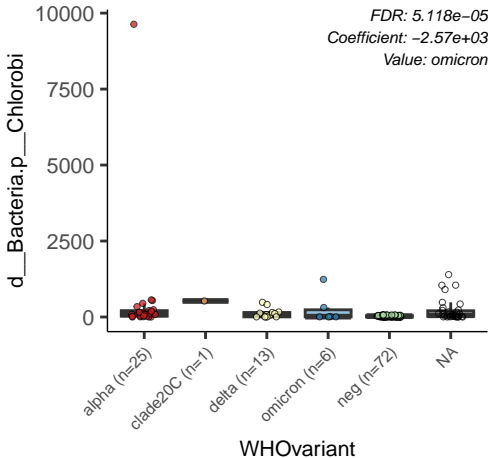


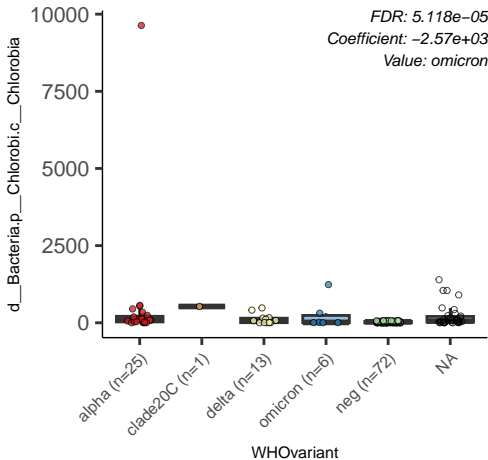
micutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Ru

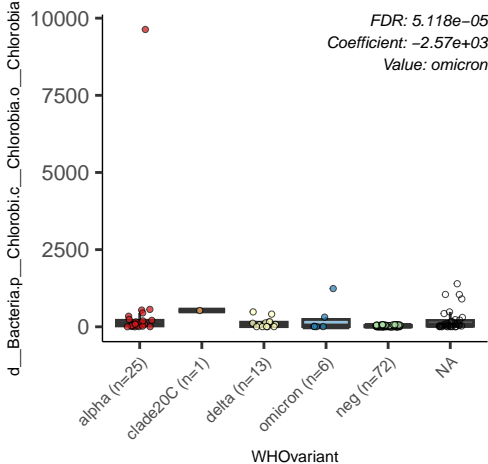
FDR: $4.824e-05$
Coefficient: $-8.05e+02$
Value: delta

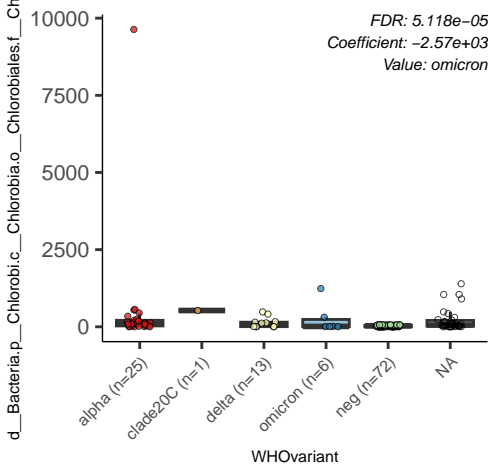






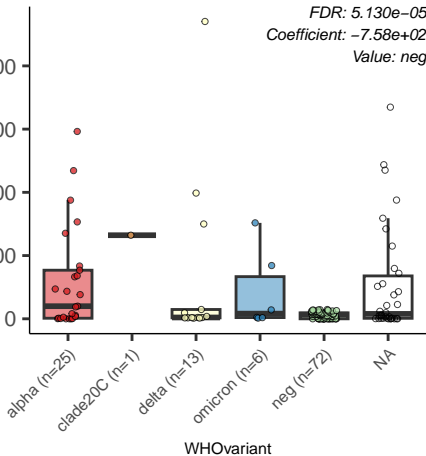






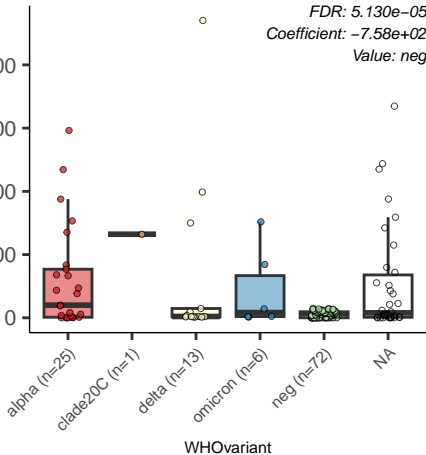
tertia.p__Chloroflexi.c__Anaerolineae.o__Anaerolineales.f__Anaero

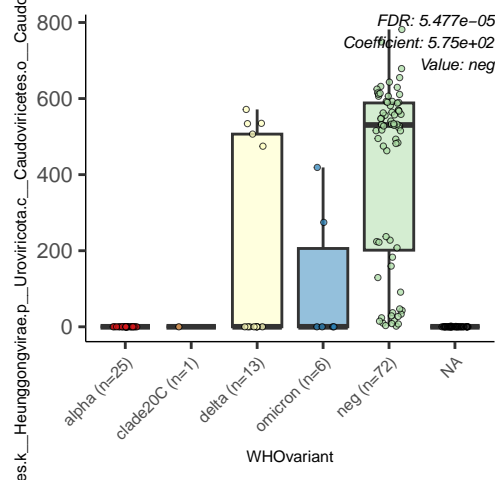
FDR: 5.130e-05
Coefficient: -7.58e+02
Value: neg



oflexi.c_Anaerolineae.o_Anaerolineales.f_Anaerolineaceae.g_A

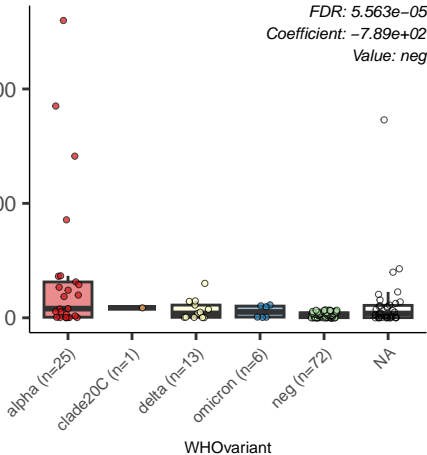
FDR: $5.130e-05$
Coefficient: $-7.58e+02$
Value: neg





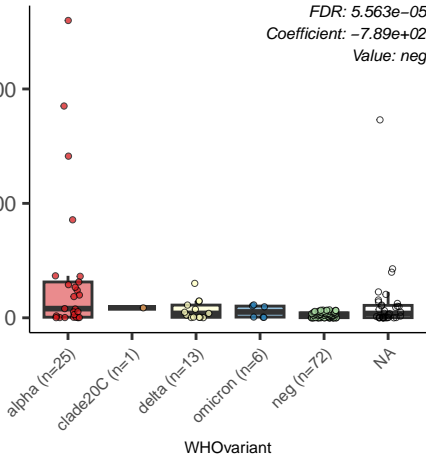
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridia

FDR: 5.563e-05
Coefficient: -7.89e+02
Value: neg



nicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Serper

FDR: 5.563e-05
Coefficient: -7.89e+02
Value: neg



eroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g__P

FDR: $5.577e-05$
Coefficient: $-3.75e+05$
Value: neg

1e+06

5e+05

0e+00

alpha (n=25)

clade20C (n=1)

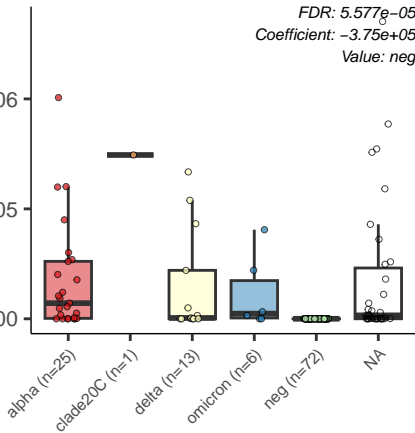
delta (n=13)

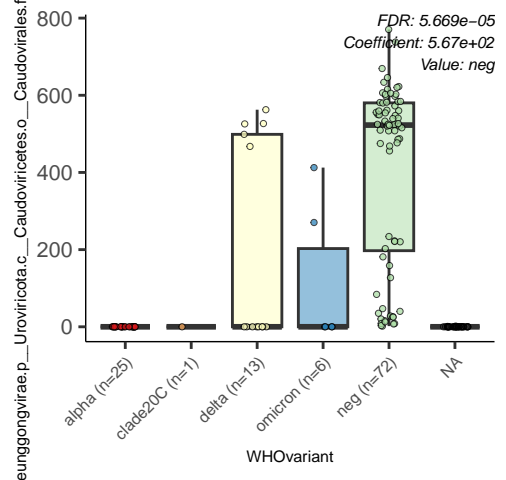
omicron (n=6)

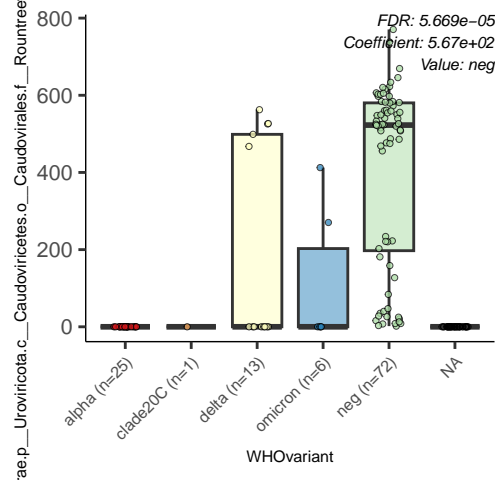
neg (n=72)

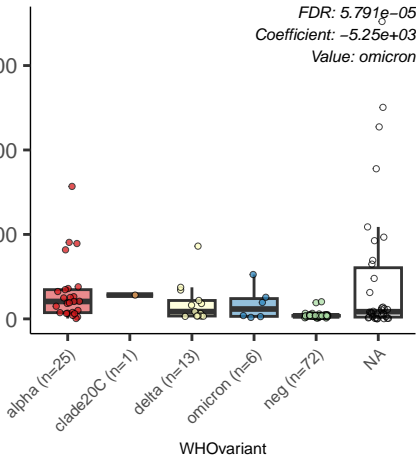
NA

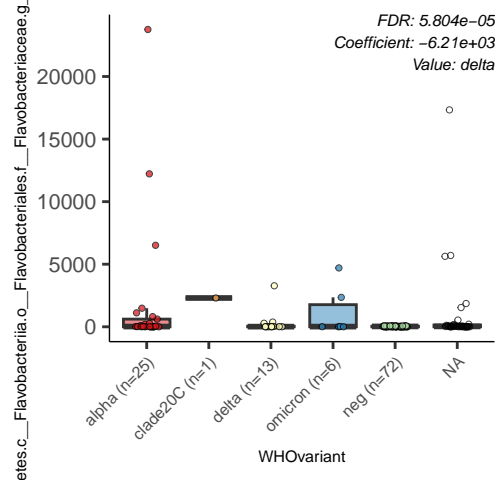
WHOvariant

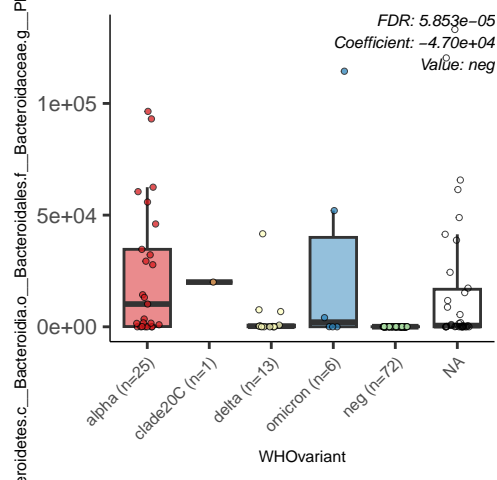






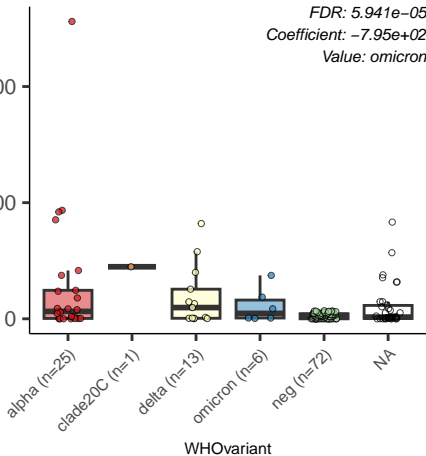




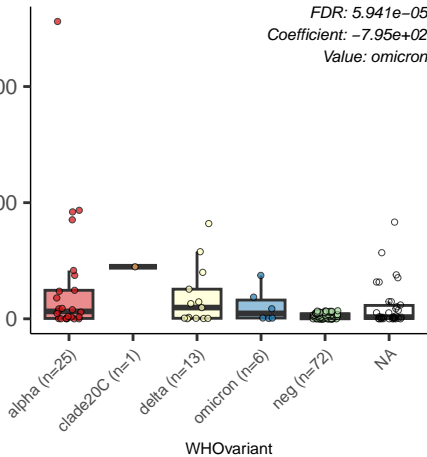


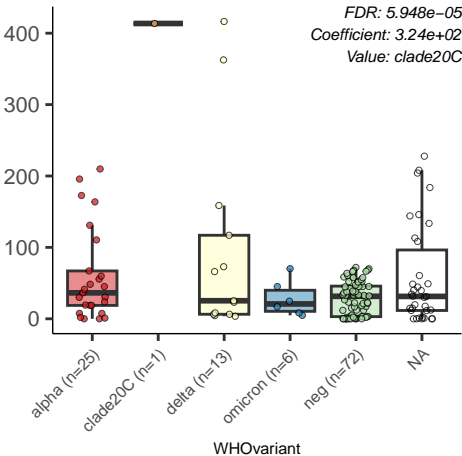
cteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira

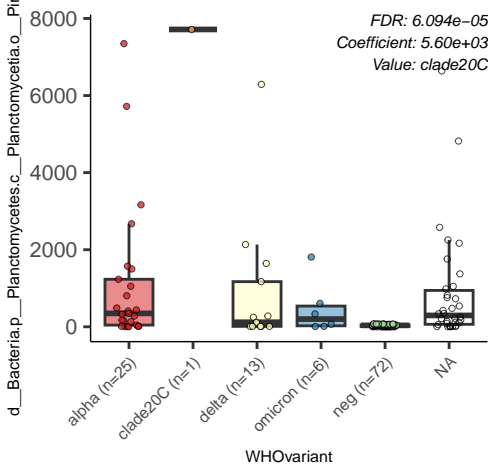
FDR: $5.941e-05$
Coefficient: $-7.95e+02$
Value: omicron



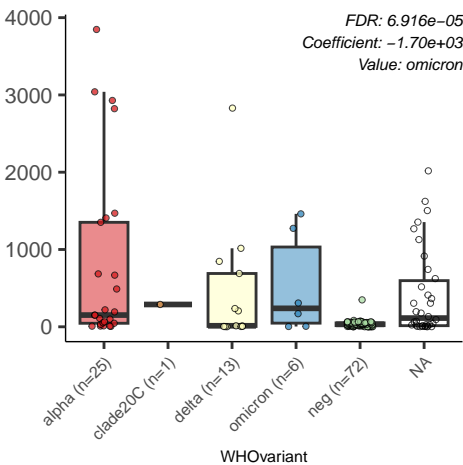
FDR: 5.941e-05
Coefficient: -7.95e+02
Value: omicron

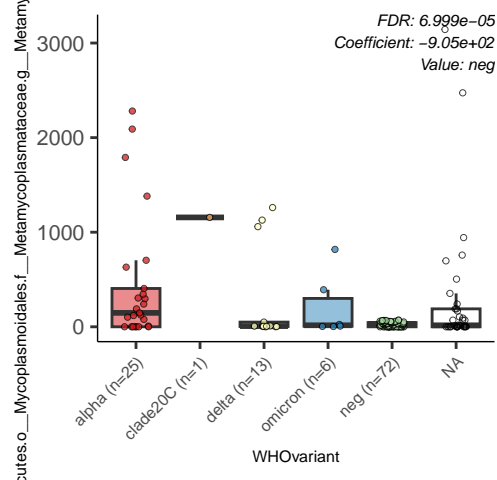


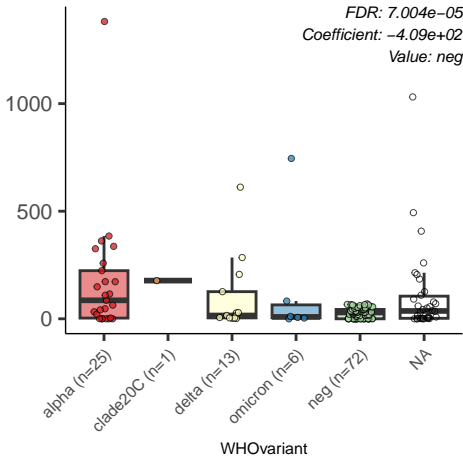


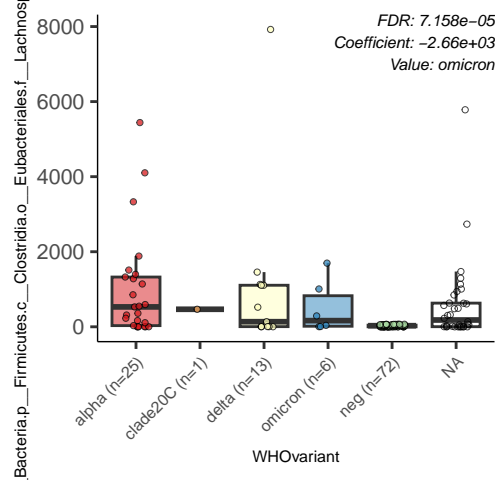


o_Actinobacteria.c_Actinomycetia.o_Streptosporangiales.f_No

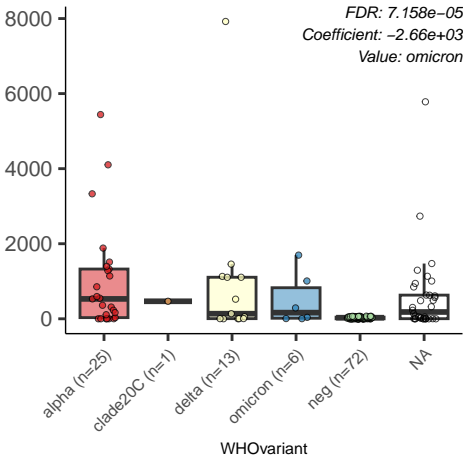


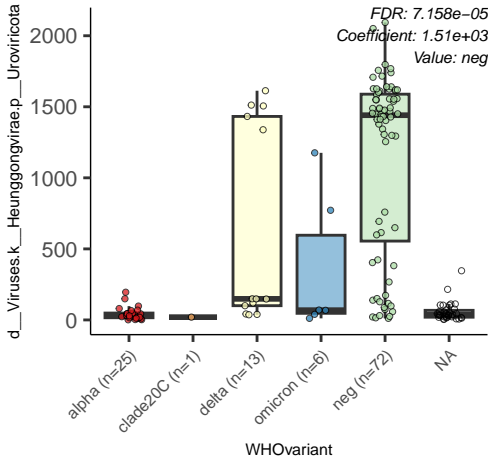


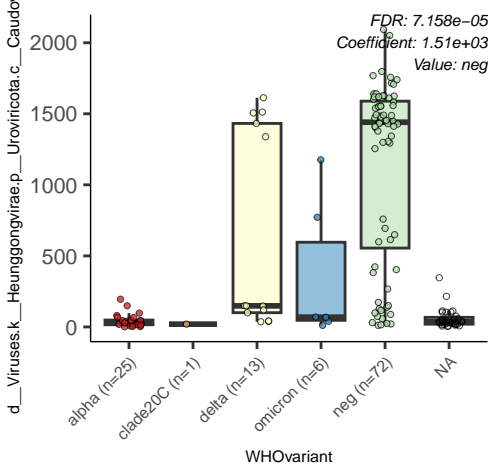




Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

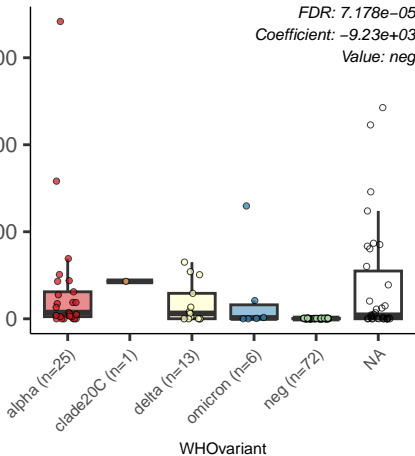




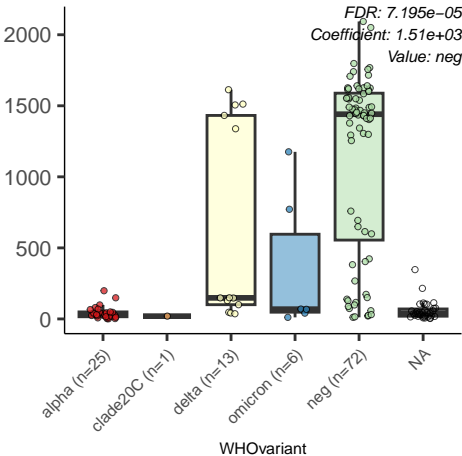


Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family

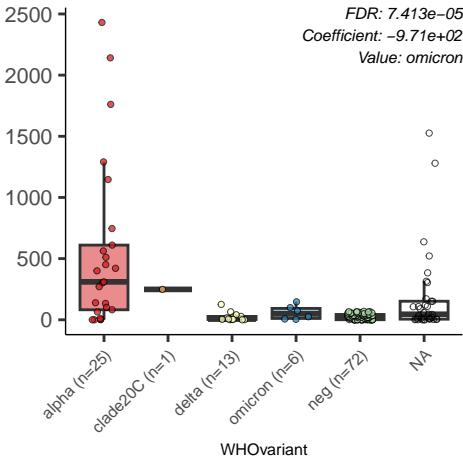
FDR: $7.178e-05$
Coefficient: $-9.23e+03$
Value: neg

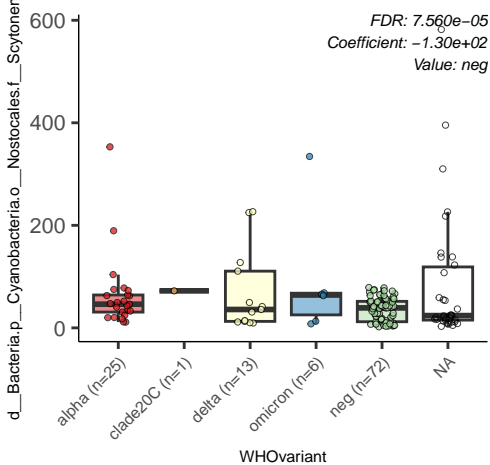


d__Viruses.k__Heunggongvirae

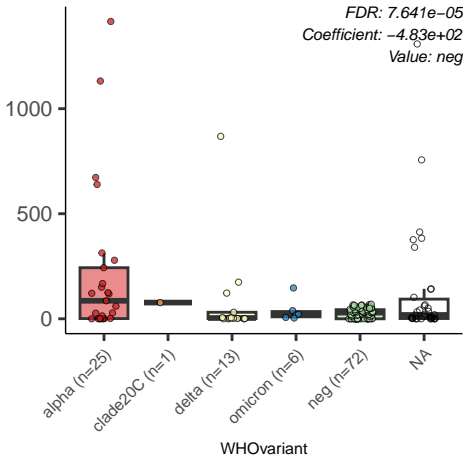


bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae.g

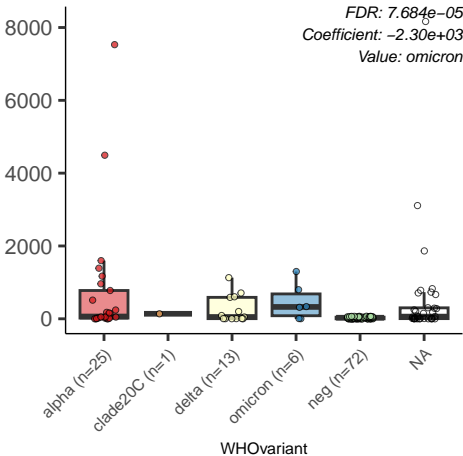


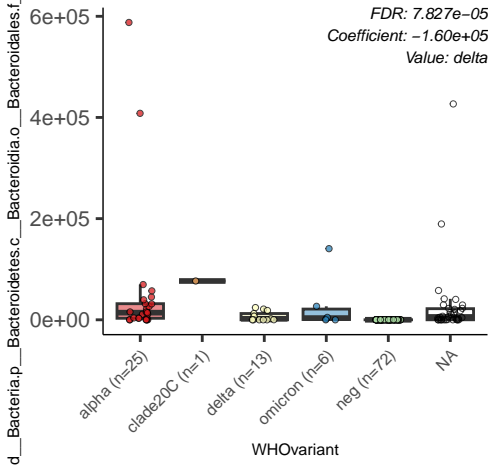


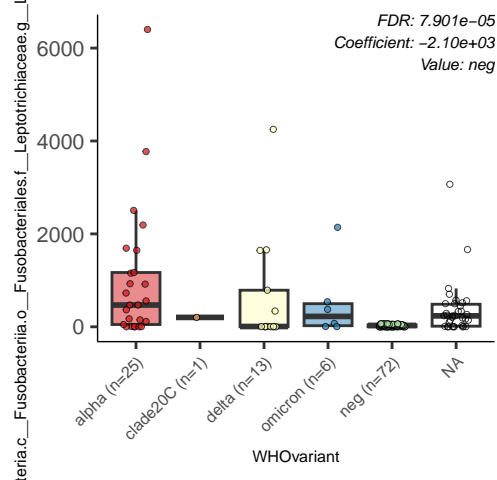
s.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_Chry



bacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae





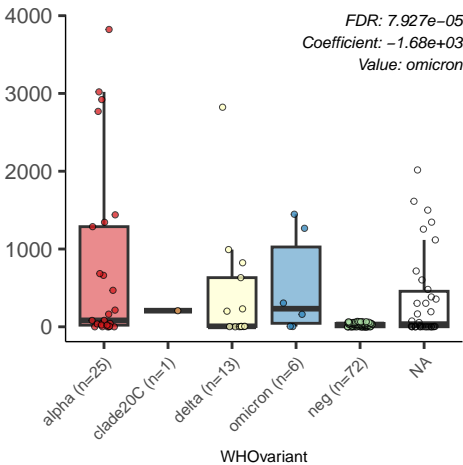


acteria.c__Actinomycetia.o__Streptosporangiales.f__Nocardiopsaceae

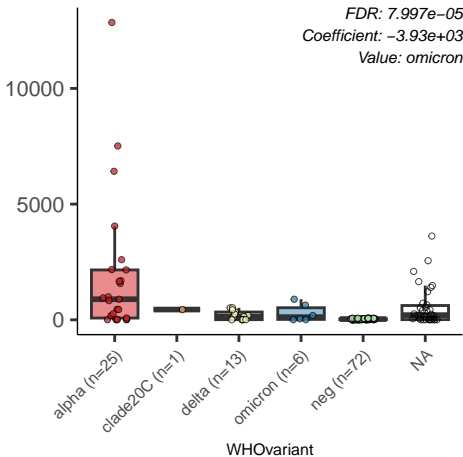
FDR: 7.927e-05

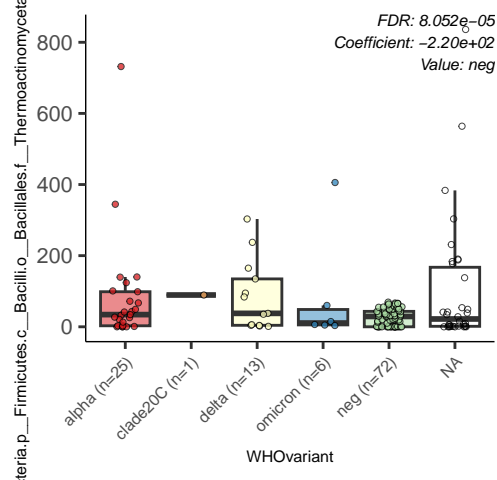
Coefficient: $-1.68e+03$

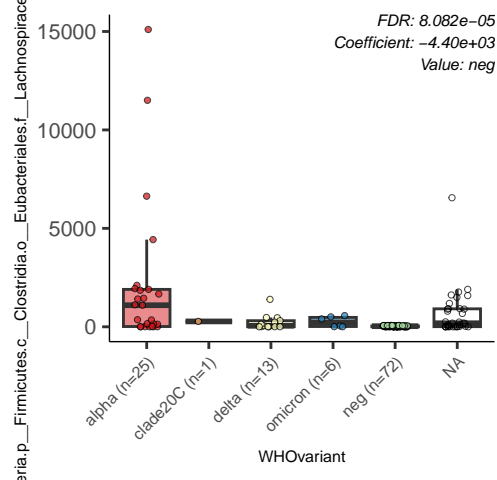
Value: omicron

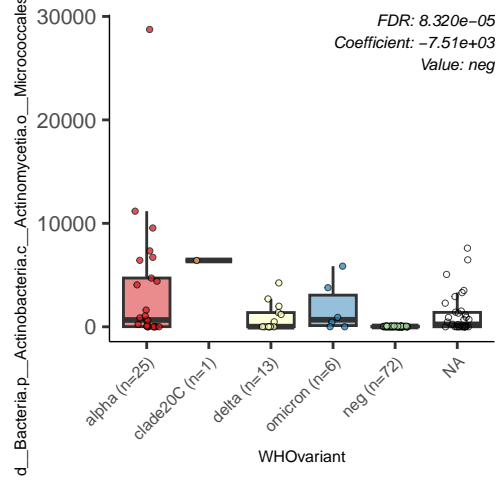


bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospir

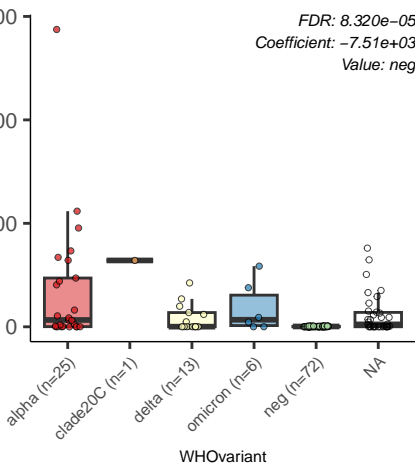




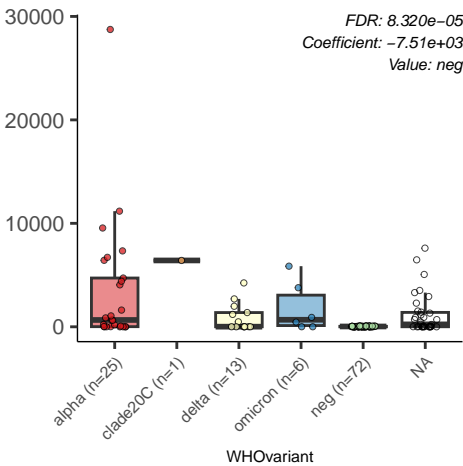




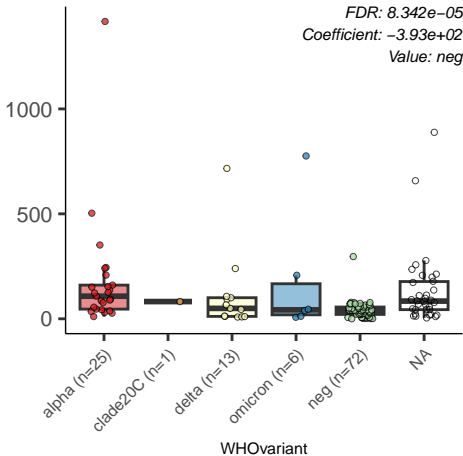
FDR: $8.320e-05$
Coefficient: $-7.51e+03$
Value: neg

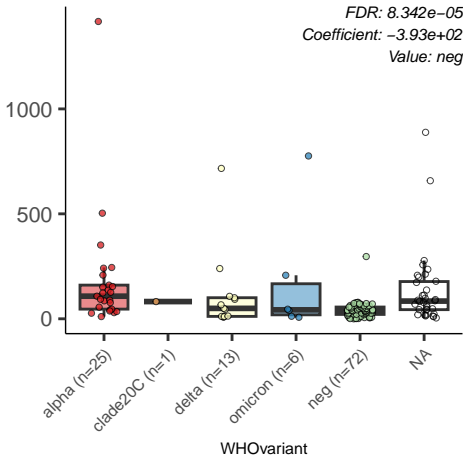


ctinobacteria.c__Actinomycetia.o__Micrococcales.f__Jonesiaceae.g

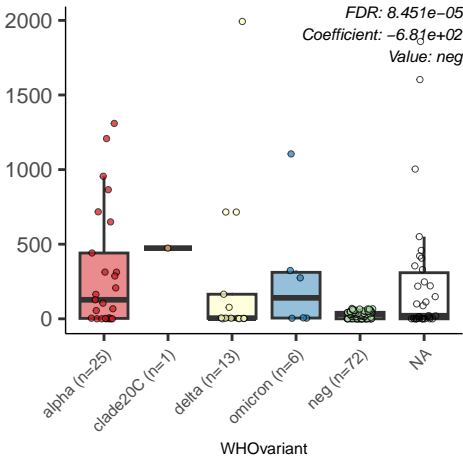


d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Candidatus.N



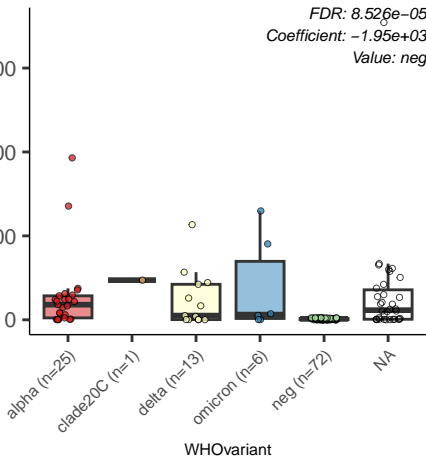


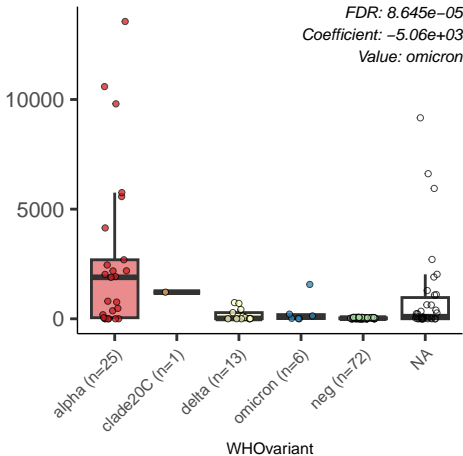
ericutes.c_Mollicutes.o_Mycoplasmales.f_Mycoplasmataceae.

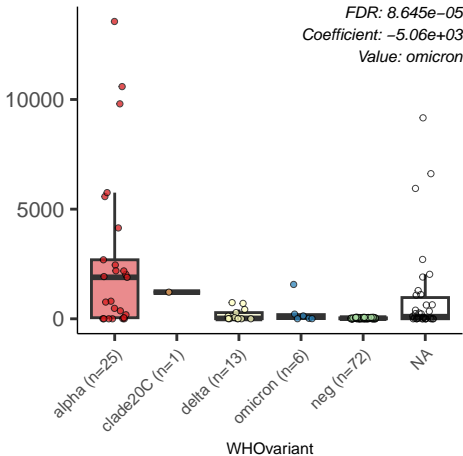


d__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__

FDR: $8.526e-05$
Coefficient: $-1.95e+03$
Value: neg

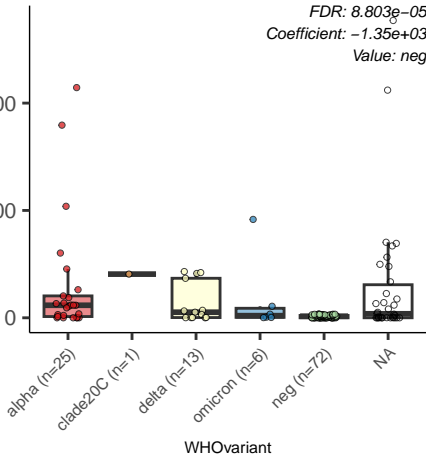




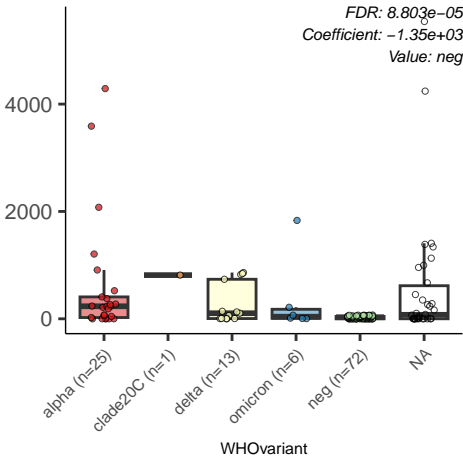


teria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Peptococcae

FDR: $8.803e-05$
Coefficient: $-1.35e+03$
Value: neg



c__Clostridia.o__Eubacteriales.f__Peptococcaceae.g__Dehalobact



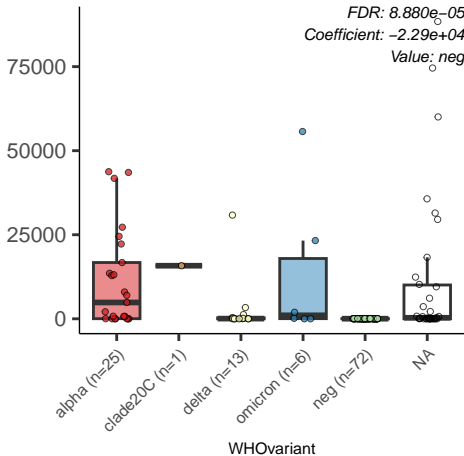
FDR: 8.803e-05

Coefficient: $-1.35e+03$

Value: neg

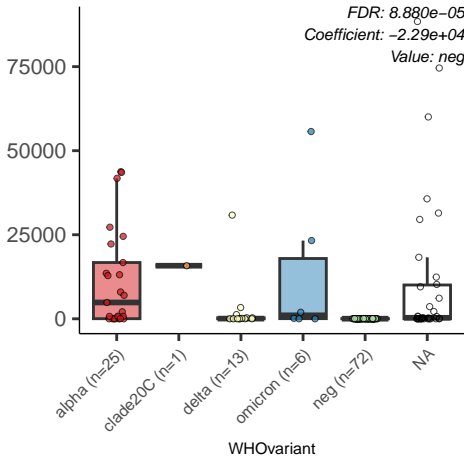
teria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Barnes

FDR: $8.880e-05$
Coefficient: $-2.29e+04$
Value: neg



eroidetes.c__Bacteroidia.o__Bacteroidales.f__Barnesiellaceae.g__

FDR: $8.880e-05$
Coefficient: $-2.29e+04$
Value: neg



ia.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Acti

FDR: 8.888e-05
Coefficient: -7.38e+05
Value: neg

2e+06

1e+06

0e+00

alpha (n=25)

clade20C (n=1)

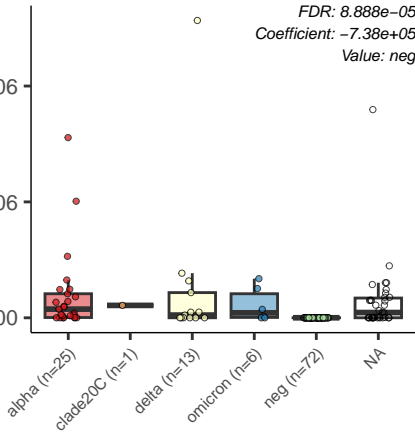
delta (n=13)

omicron (n=6)

neg (n=72)

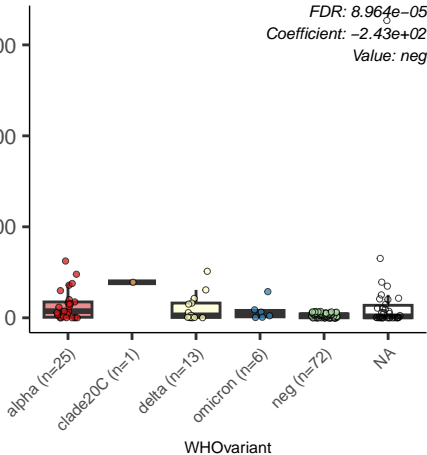
NA

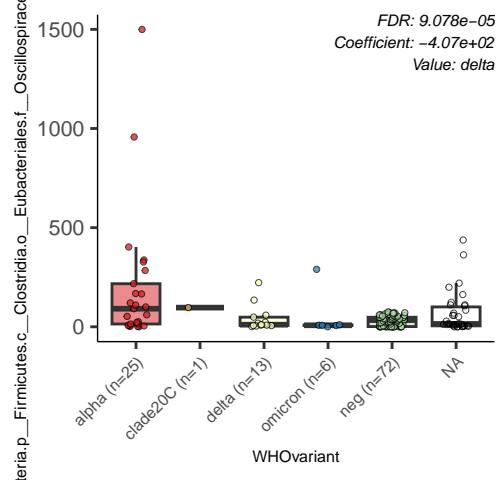
WHOvariant



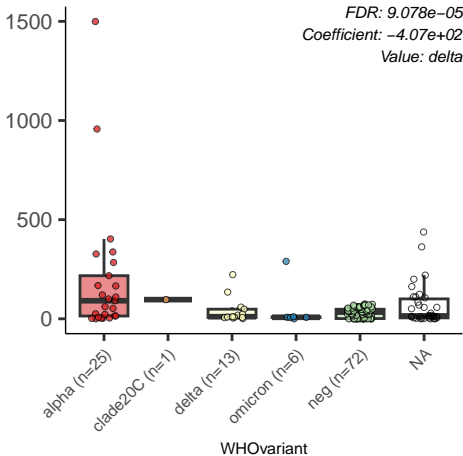
monadia.o__ Candidatus.Nanosynbacterales.f__ Candidatus.Nanosy

FDR: 8.964e-05
Coefficient: -2.43e+02
Value: neg



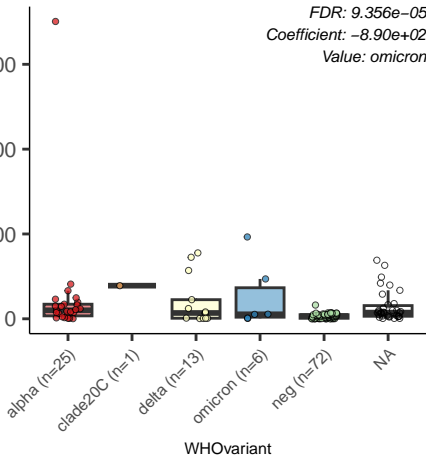


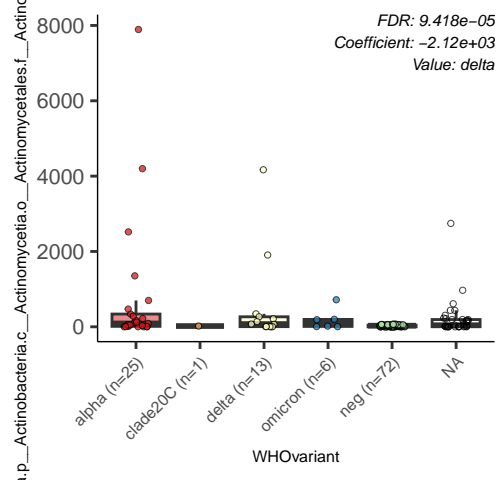
s.c._Clostridia.o_Eubacteriales.f_Oscillospiraceae.g_Ruthenib

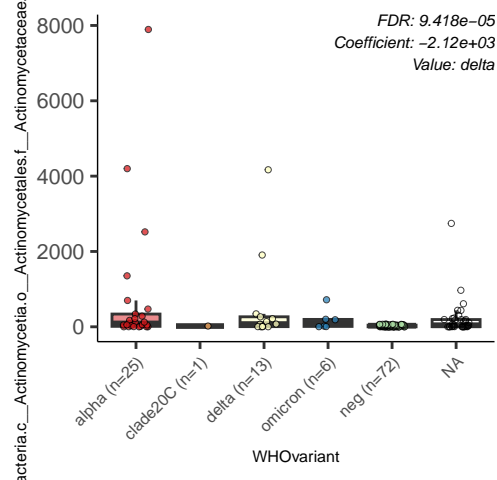


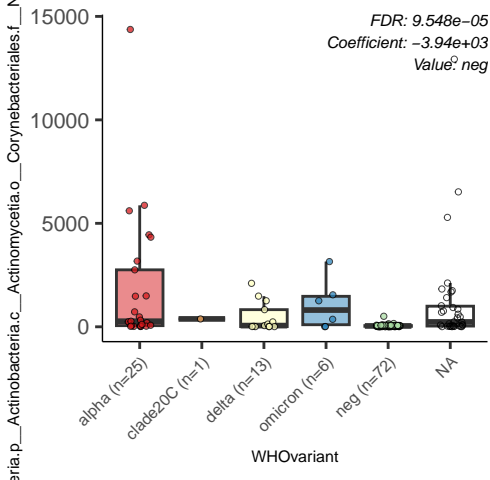
d__Bacteria.p__Verrucomicrobia.c__Verrucomicrobia

FDR: $9.356e-05$
Coefficient: $-8.90e+02$
Value: omicron



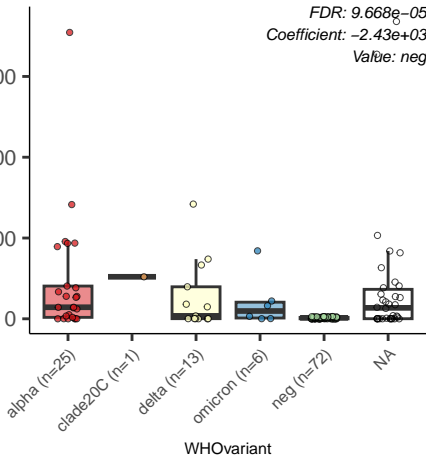






eria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__We

FDR: $9.668e-05$
Coefficient: $-2.43e+03$
Value: neg



d__Bacteria.p__Cyanobacteria.o__Pseudanabaena

FDR: $9.802e-05$
Coefficient: $-2.94e+03$
Value: delta

10000

5000

alpha (n=25)

clade20C (n=1)

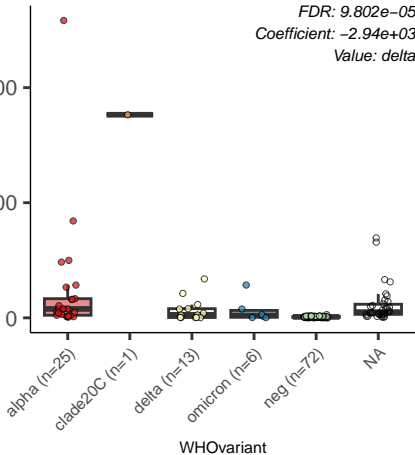
delta (n=13)

omicron (n=6)

neg (n=72)

NA

WHOvariant



Actinomycetia.o_Pseudonocardiales.f_Pseudonocardaceae.g

FDR: $9.822e-05$
Coefficient: $-3.91e+03$
Value: delta

10000

5000

0

alpha (n=25)

clade20C (n=1)

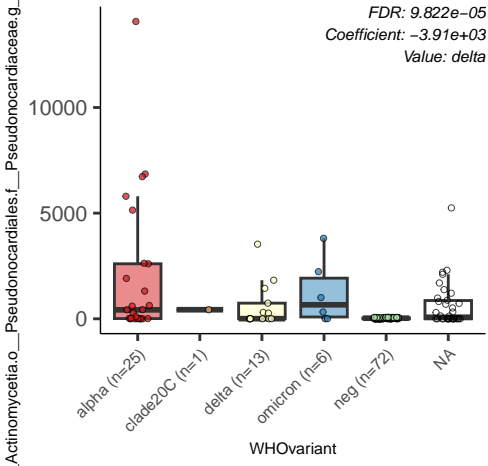
delta (n=13)

omicron (n=6)

neg (n=72)

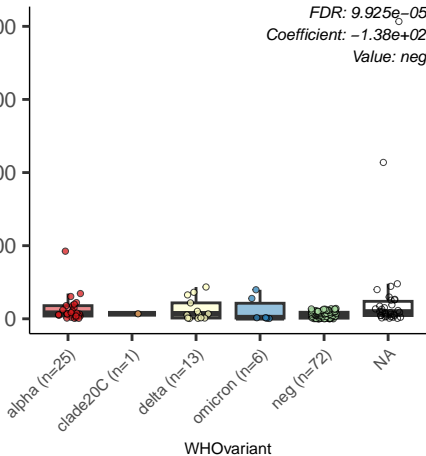
NA

WHOvariant

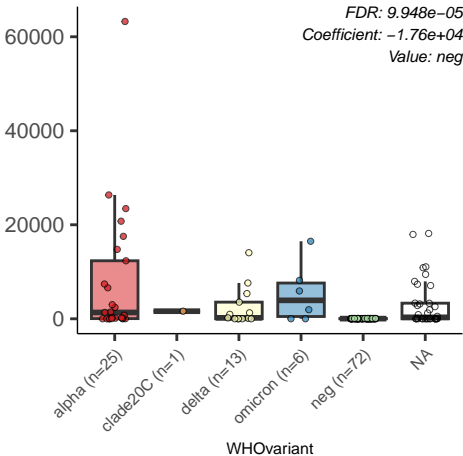


ia.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonada

FDR: $9.925e-05$
Coefficient: $-1.38e+02$
Value: neg

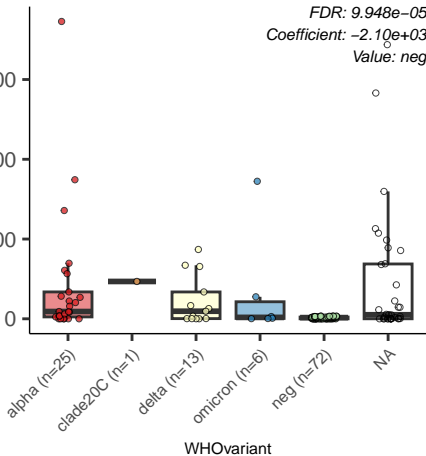


Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Actinom



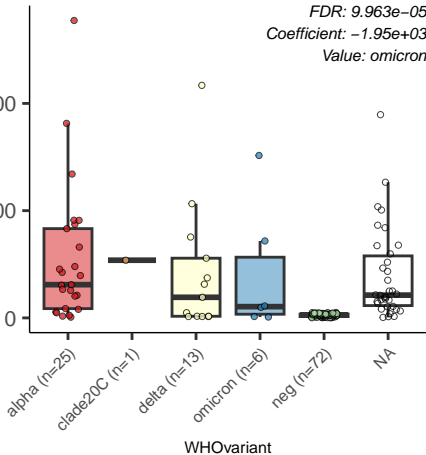
s.c._Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Incert

FDR: $9.948e-05$
Coefficient: $-2.10e+03$
Value: neg

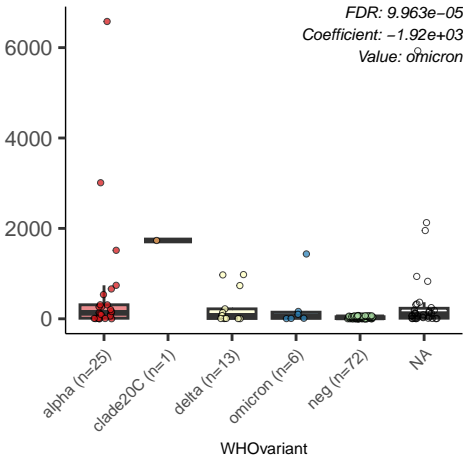


d_Bacteria.p__Acidobacteria

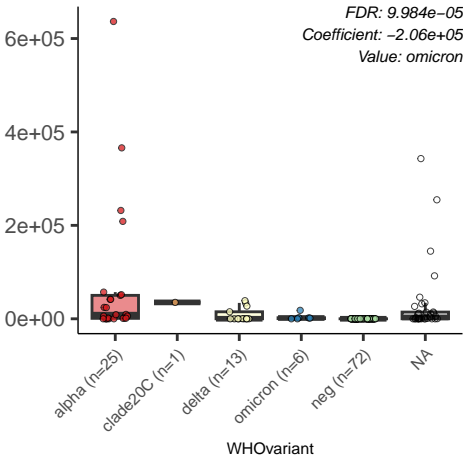
FDR: $9.963e-05$
Coefficient: $-1.95e+03$
Value: omicron



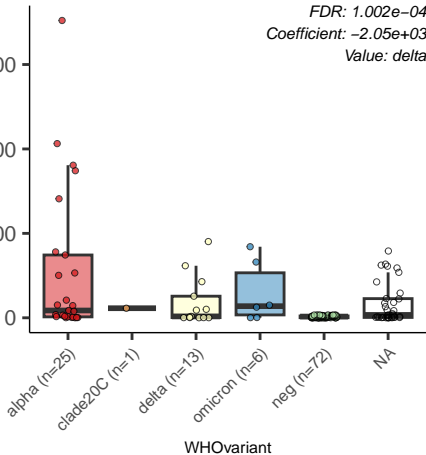
acteroidetes.c__Spingobacteriia.o__Spingobacteriales.f__Spingob



ria.c Fusobacteriia.o Fusobacteriales.f Leptotrichiaceae.g Le

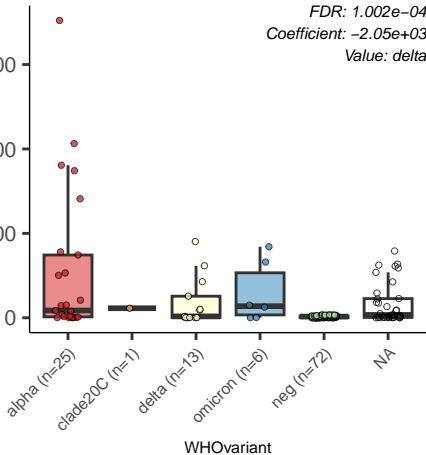


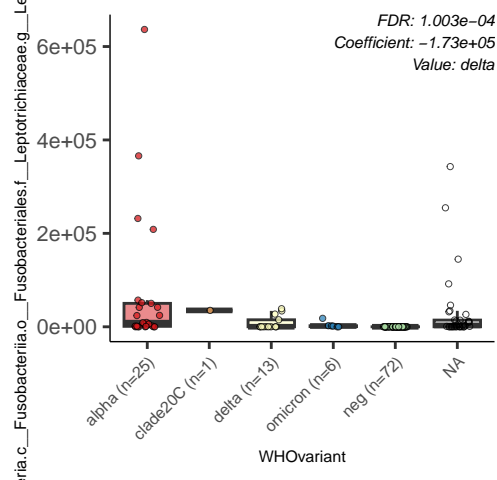
FDR: $1.002e-04$
Coefficient: $-2.05e+03$
Value: delta



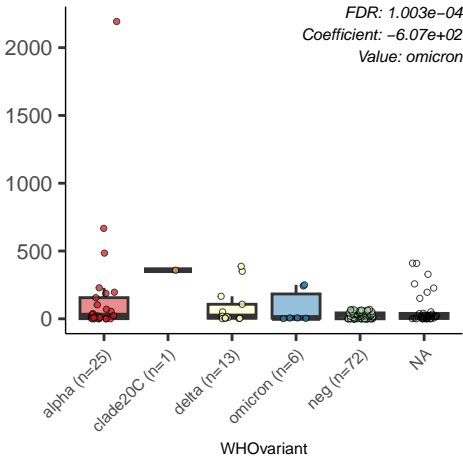
eria.c_Actinomycetia.o_Micrococcales.f_Micrococcaceae.g_Au

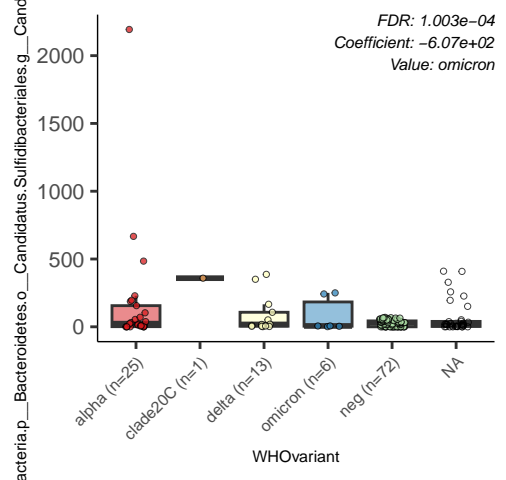
FDR: 1.002e-04
Coefficient: -2.05e+03
Value: delta



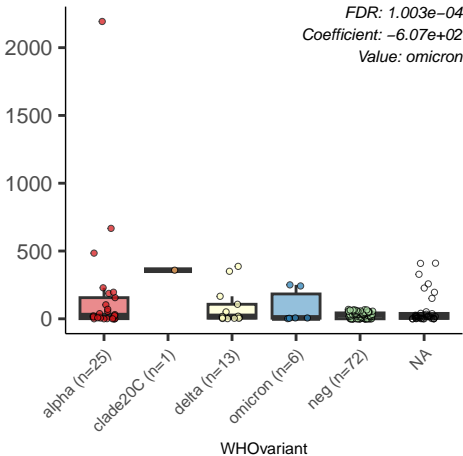


d__Bacteria.p__Bacteroidetes.o__Candidatus.Sulfidibac



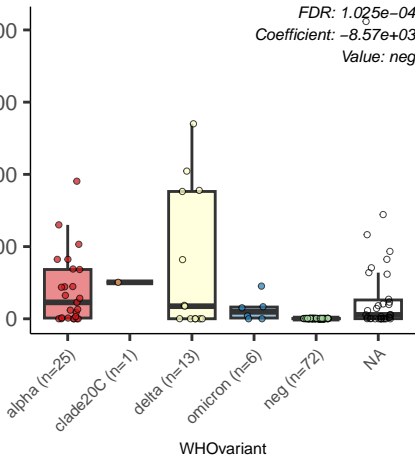


s.o___Candidatus.Sulfidibacteriales.g___Candidatus.Sulfidibacterium.



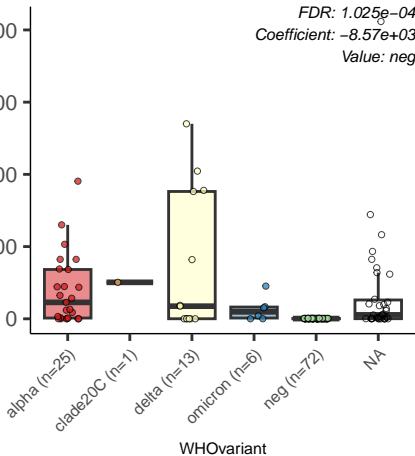
Candidatus.Saccharibacteria.c__Candidatus.Saccharimonadia.o

FDR: $1.025e-04$
Coefficient: $-8.57e+03$
Value: neg



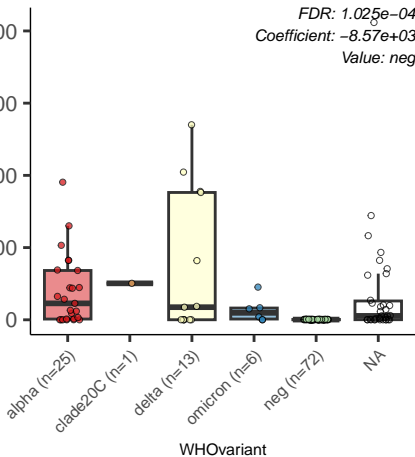
naribacteria.c__Candidatus.Saccharimonadia.o__Candidatus.Sacch

FDR: $1.025e-04$
Coefficient: $-8.57e+03$
Value: neg



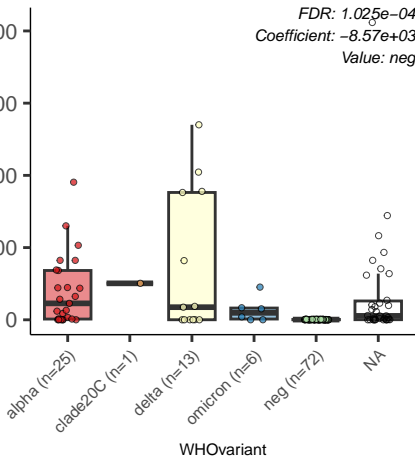
Candidatus.Saccharimonadia.o__Candidatus.Saccharimonadales.f

FDR: $1.025e-04$
Coefficient: $-8.57e+03$
Value: neg

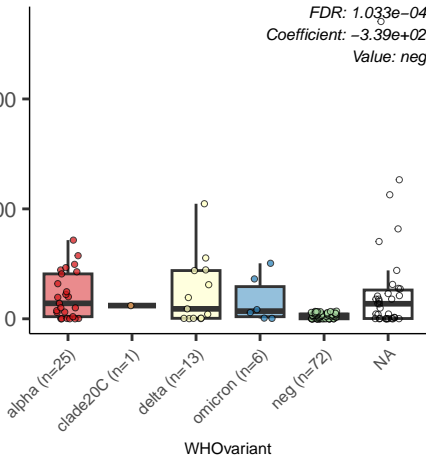


onadia.o__Candidate.Saccharimonadales.f__Candidate.Sacchari

FDR: $1.025e-04$
Coefficient: $-8.57e+03$
Value: neg



FDR: $1.033e-04$
Coefficient: $-3.39e+02$
Value: neg



a.c__Actinomycetia.o__Candidatus.Nanopelagiales.f__Candidatus

FDR: $1.038e-04$
Coefficient: $-3.75e+02$
Value: neg

1000

500

alpha (n=25)

clade20C (n=1)

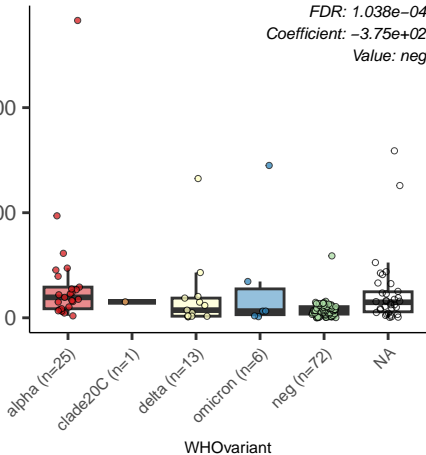
delta (n=13)

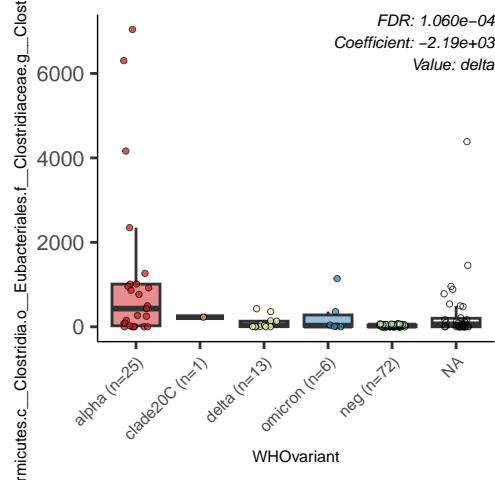
omicron (n=6)

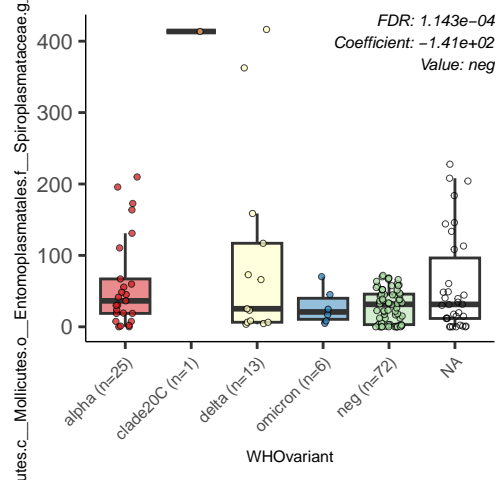
neg (n=72)

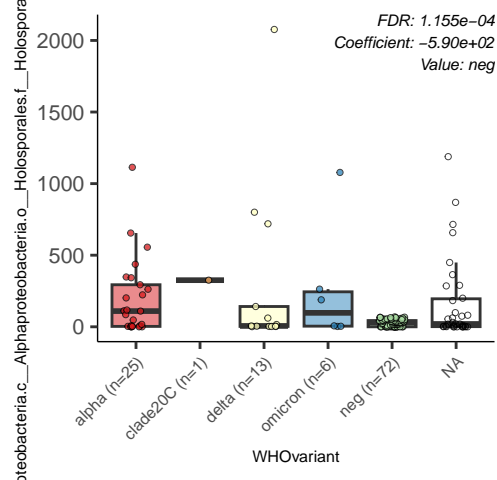
NA

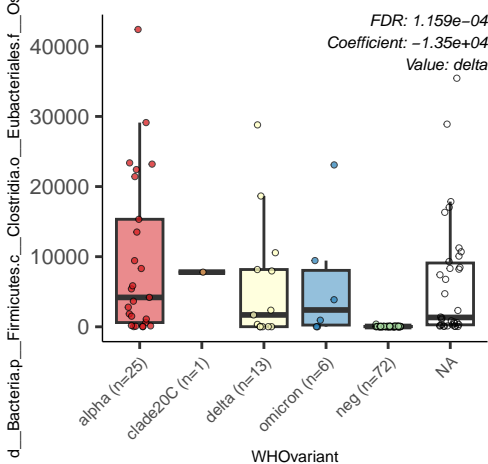
WHOvariant

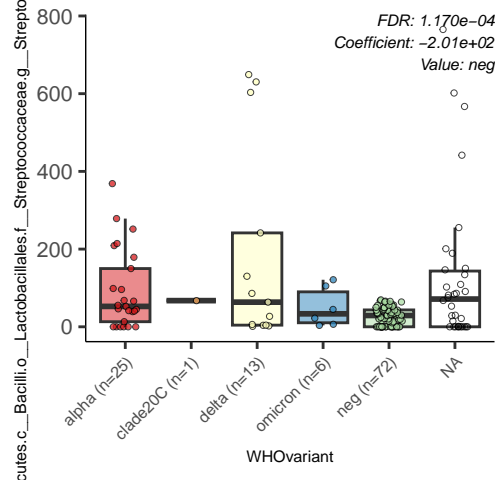


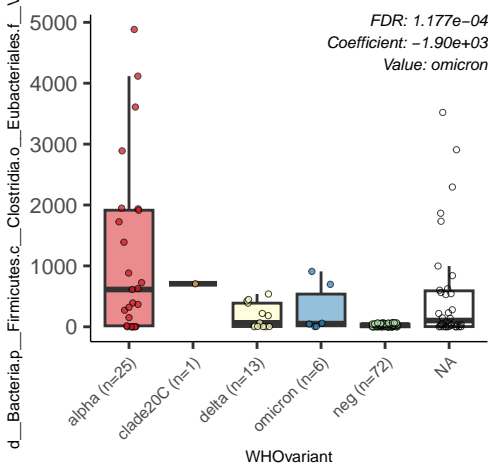






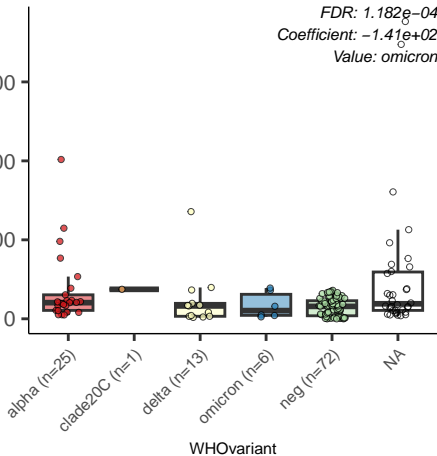






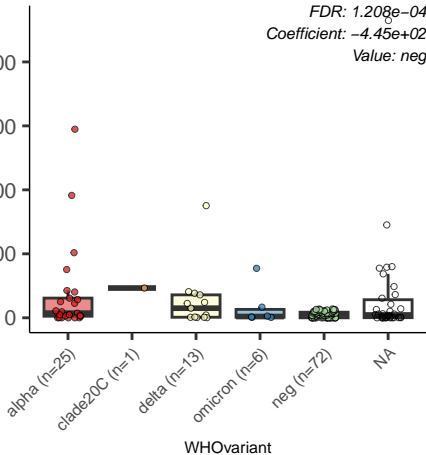
Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Co

FDR: $1.182e-04$
Coefficient: $-1.41e+02$
Value: omicron



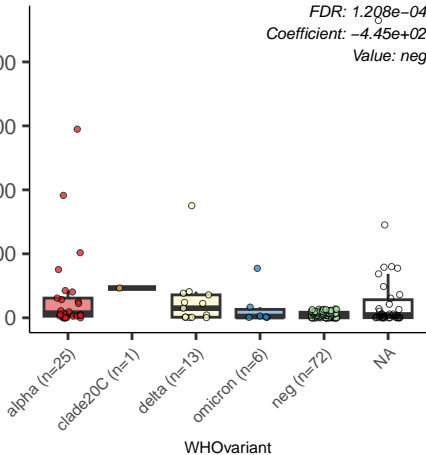
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Eubacteri

FDR: $1.208e-04$
Coefficient: $-4.45e+02$
Value: neg



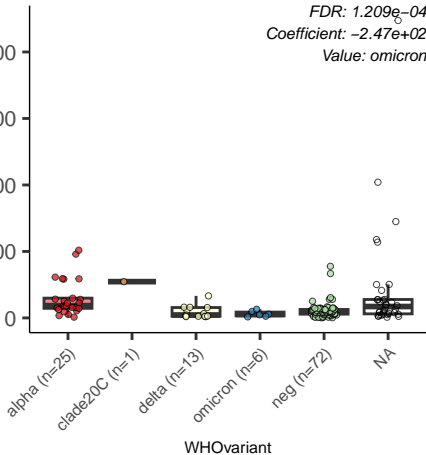
irmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriaceae.g__Alk

FDR: $1.208e-04$
Coefficient: $-4.45e+02$
Value: neg



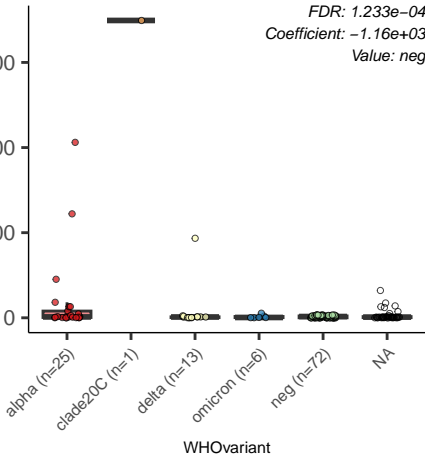
ria.c__Actinomycetia.o__Propionibacteriales.f__Propionibacteriaceae

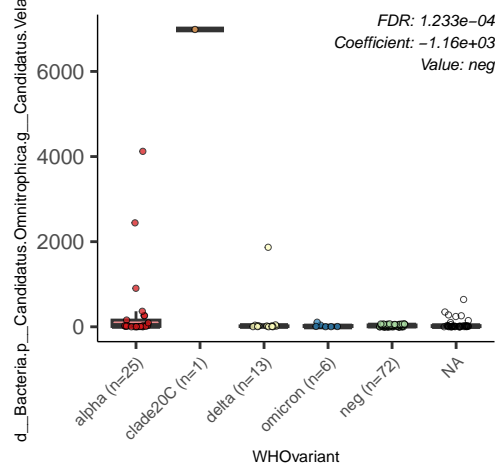
FDR: 1.209×10^{-4}
Coefficient: -2.47×10^2
Value: omicron

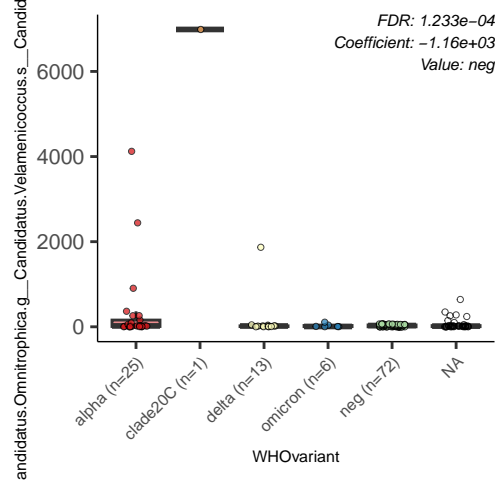


d_Bacteria.p__Candidatus.Omnitrophica

FDR: 1.233e-04
Coefficient: -1.16e+03
Value: neg

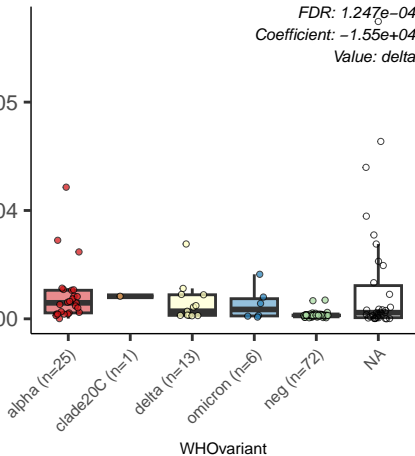


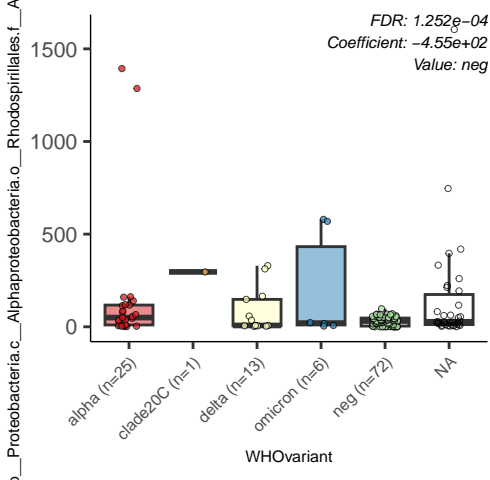




c__Gammaproteobacteria.o__Oceanospirillales.f__Halomonadaceae

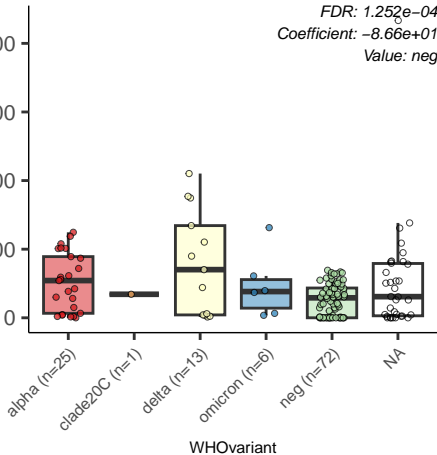
FDR: $1.247e-04$
Coefficient: $-1.55e+04$
Value: delta





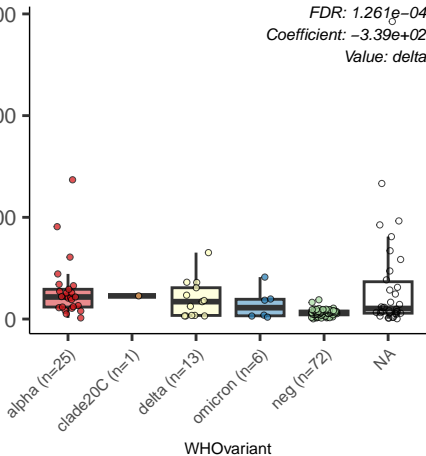
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g

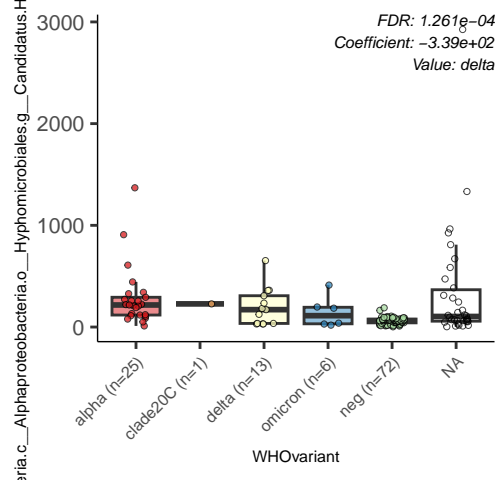
FDR: $1.252e-04$
Coefficient: $-8.66e+01$
Value: neg



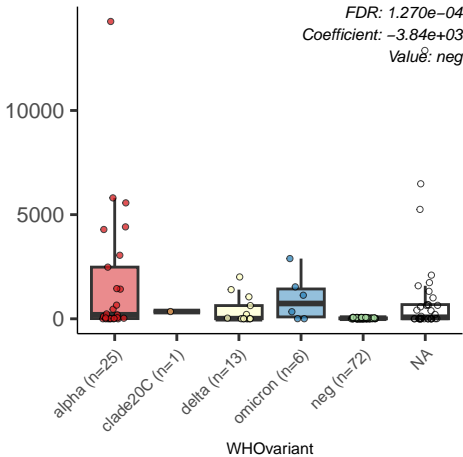
ria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiale

FDR: $1.261e-04$
Coefficient: $-3.39e+02$
Value: delta



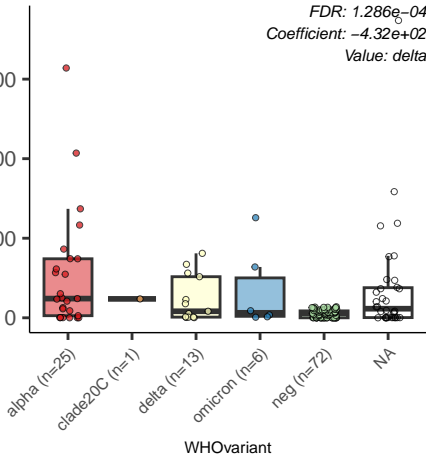


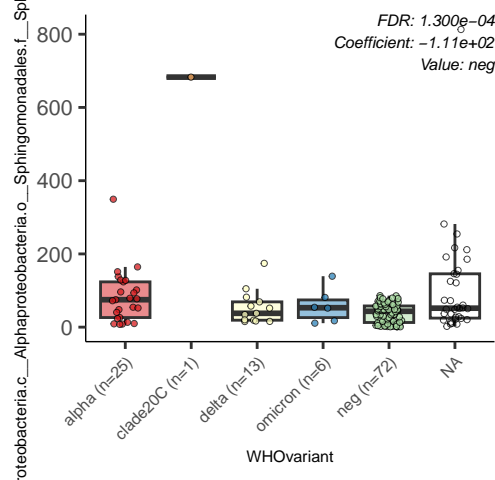
bacteria.c_Actinomycetia.o_Corynebacteriales.f_Nocardiaceae.g



a.p._Firmicutes.c._Clostridia.o._Eubacteriales.f._Desulfitobacteri

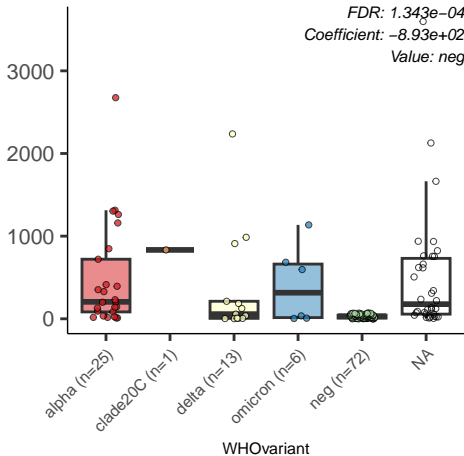
FDR: $1.286e-04$
Coefficient: $-4.32e+02$
Value: delta





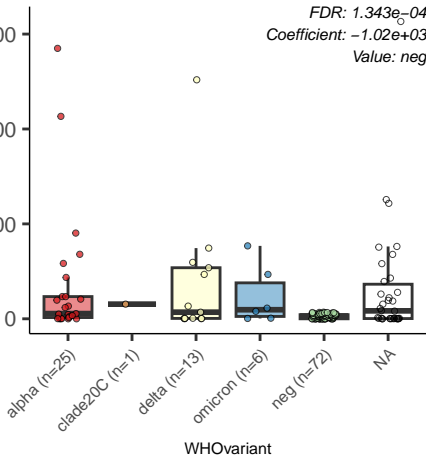
cteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirill

FDR: $1.343e-04$
Coefficient: $-8.93e+02$
Value: neg



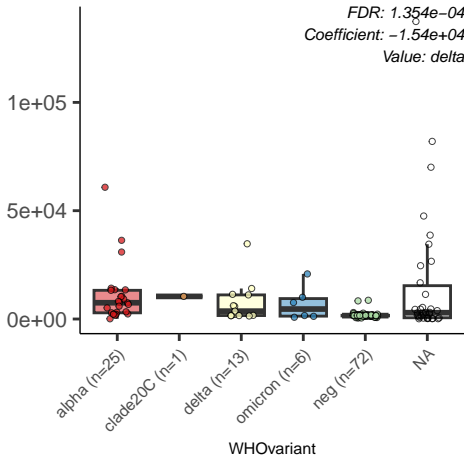
obacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae

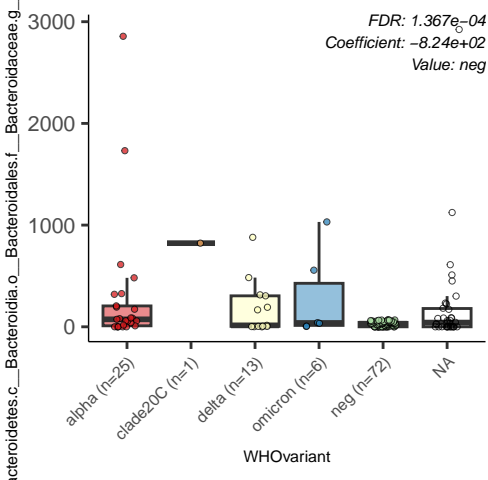
FDR: $1.343e-04$
Coefficient: $-1.02e+03$
Value: neg

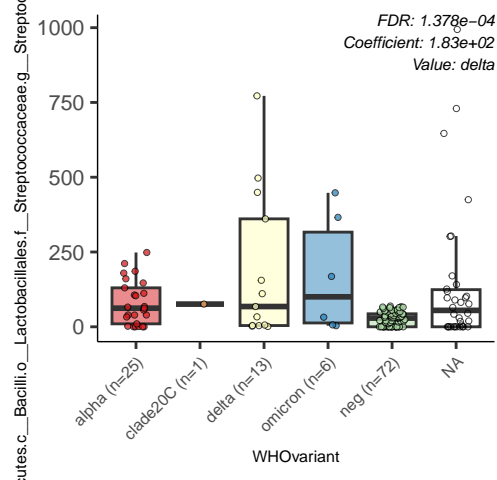


Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f

FDR: $1.354e-04$
Coefficient: $-1.54e+04$
Value: delta

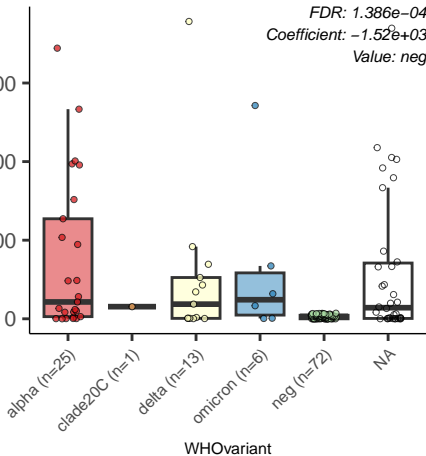


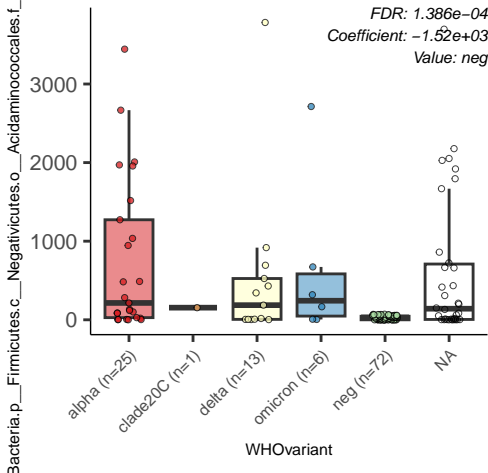




d_Bacteria.p_Firmicutes.c_Negativicutes.o_Acidaminobacteriia.g

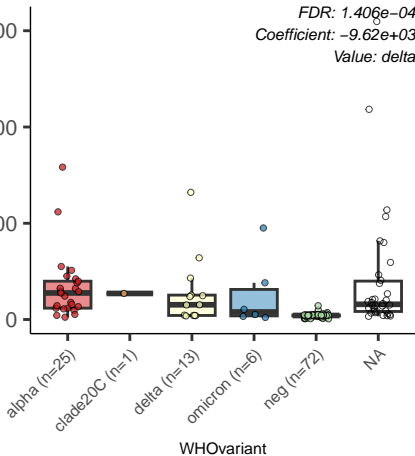
FDR: $1.386e-04$
Coefficient: $-1.52e+03$
Value: neg





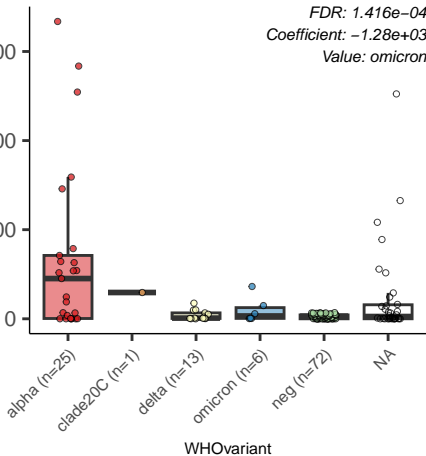
d_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyp

FDR: $1.406e-04$
Coefficient: $-9.62e+03$
Value: delta



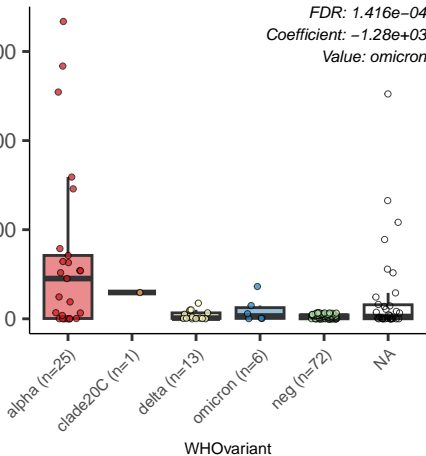
cteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospira

FDR: 1.416×10^{-4}
Coefficient: -1.28×10^3
Value: omicron



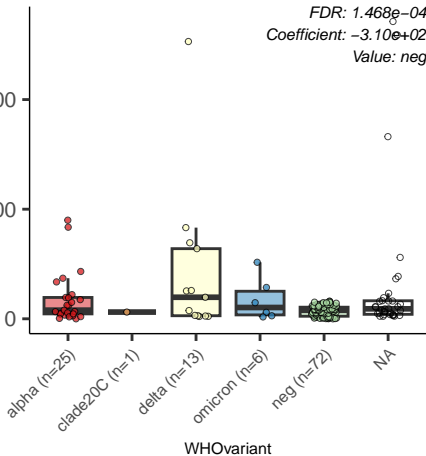
s.c._Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Faecalica

FDR: 1.416e-04
Coefficient: -1.28e+03
Value: omicron



d__Bacteria.p__Actinobacteria.c__Acidimicrobiia

FDR: $1.468e-04$
Coefficient: $-3.10e+02$
Value: neg



d_Bacteria.p_Actinobacteria.c_Acidimicrobia.o_Acidimicrobia.p

FDR: 1.468×10^{-4}
Coefficient: -3.10×10^2
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

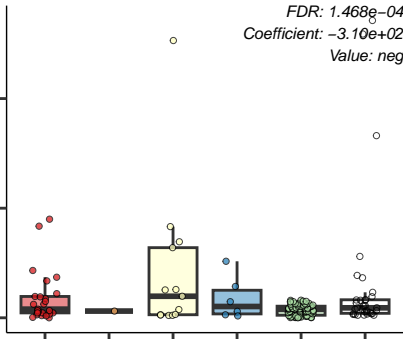
delta (n=13)

omicron (n=6)

neg (n=72)

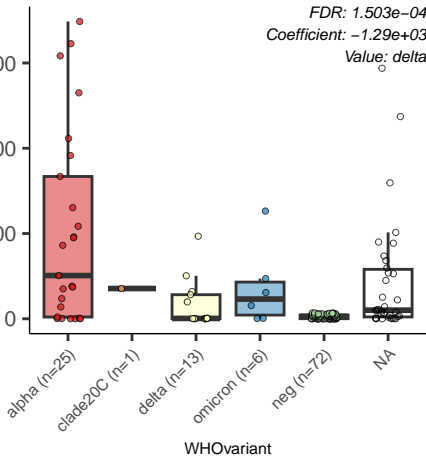
NA

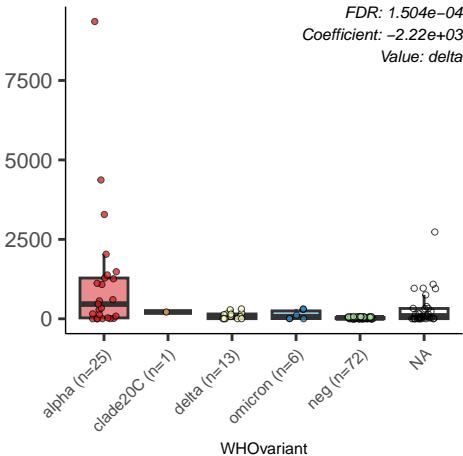
WHOvariant

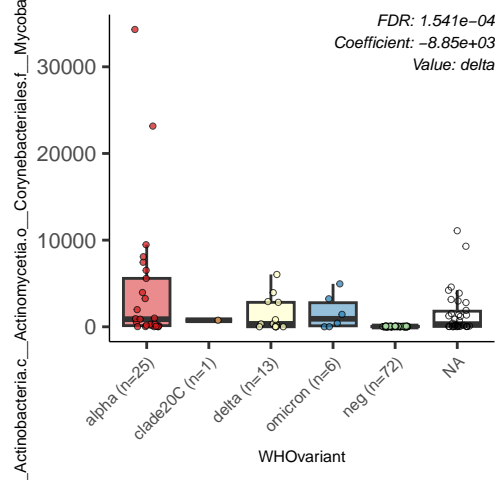


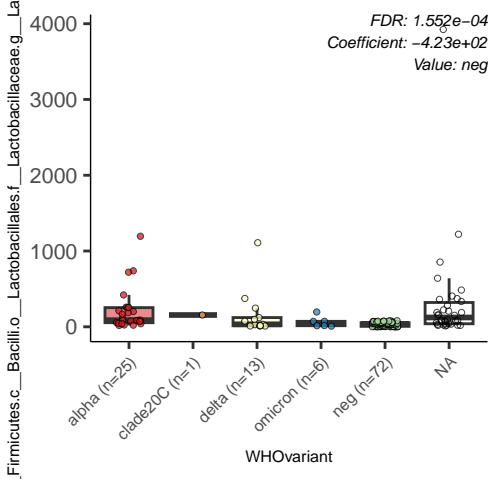
bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae.g

FDR: 1.503e-04
Coefficient: -1.29e+03
Value: delta



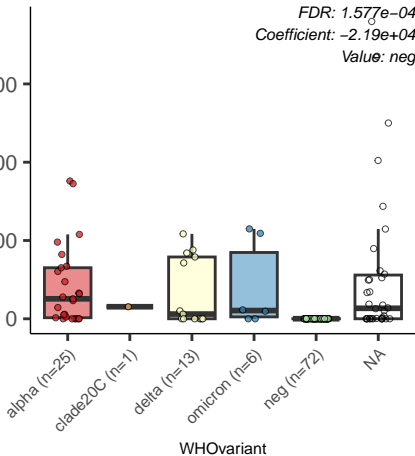


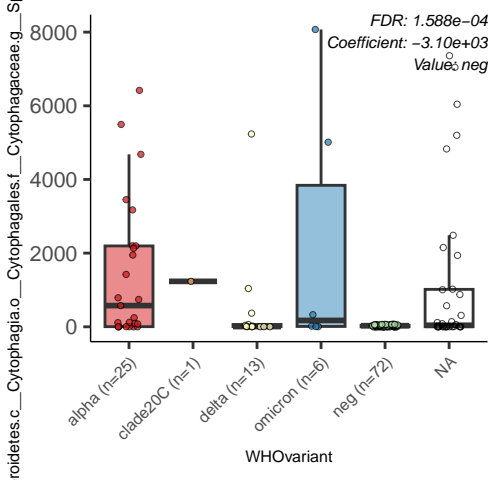




micutes.c__Negativicutes.o__Veillonellales.f__Veillonellaceae.g__Ve

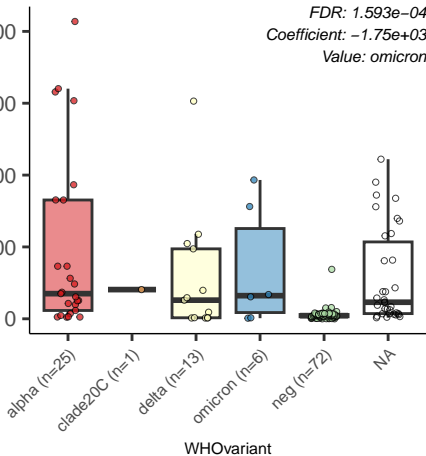
FDR: 1.577×10^{-4}
Coefficient: -2.19×10^4
Value: neg





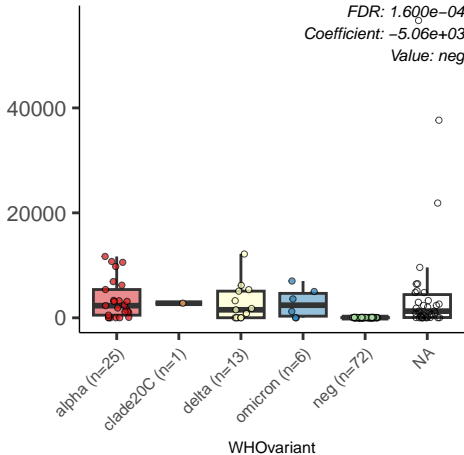
d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Streptos

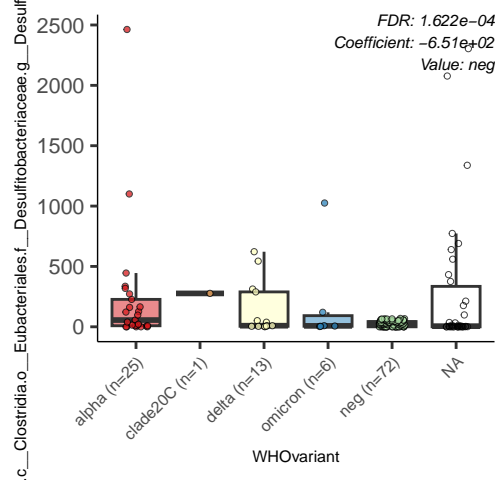
FDR: $1.593e-04$
Coefficient: $-1.75e+03$
Value: omicron

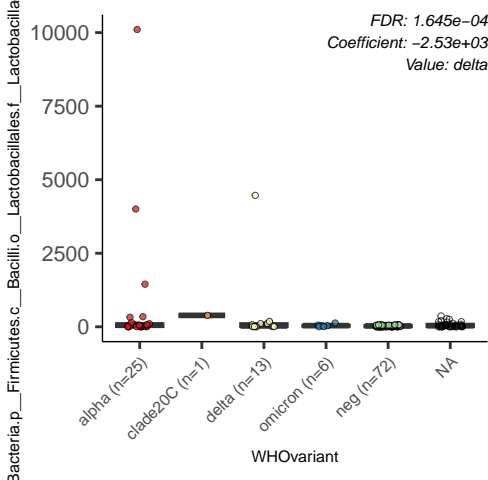


unicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

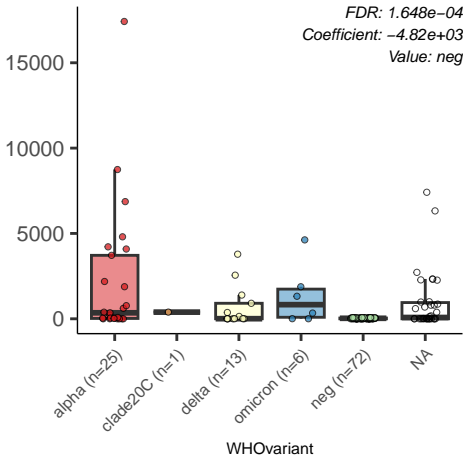
FDR: $1.600e-04$
Coefficient: $-5.06e+03$
Value: neg





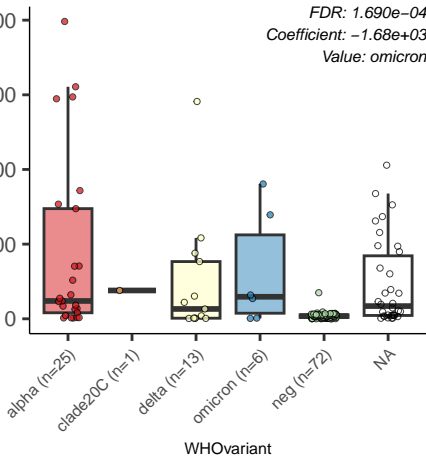


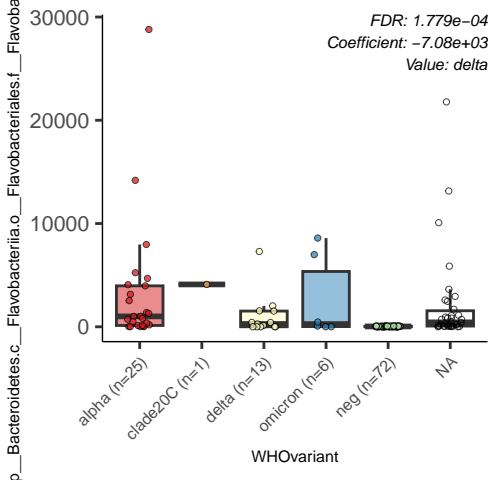
Actinomycetia.o__Corynebacteriales.f__Mycobacteriaceae.g__My

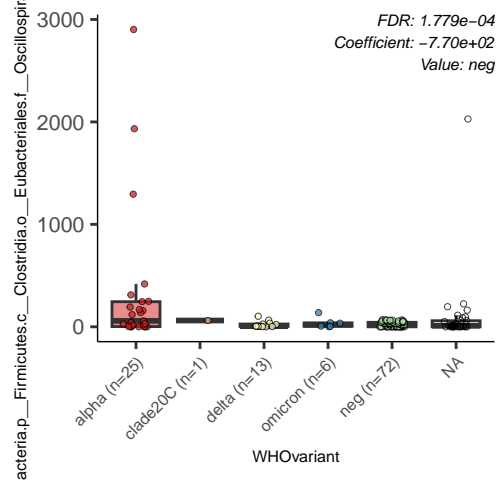


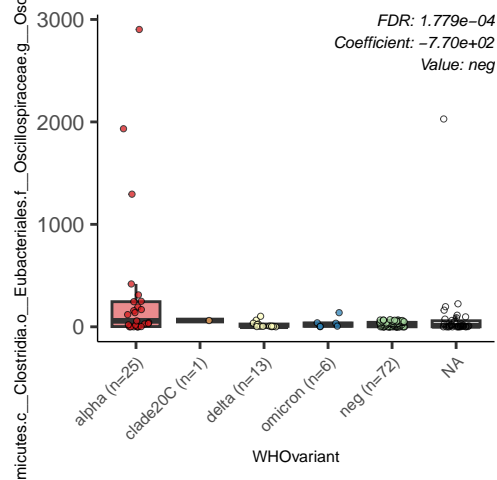
bacteria.p_Actinobacteria.c_Actinomyces.o_Streptosporangiale

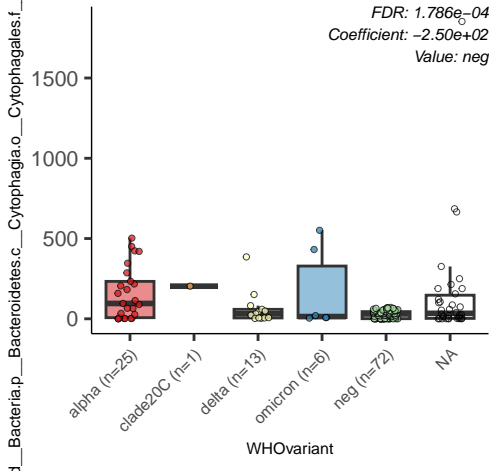
FDR: $1.690e-04$
Coefficient: $-1.68e+03$
Value: omicron





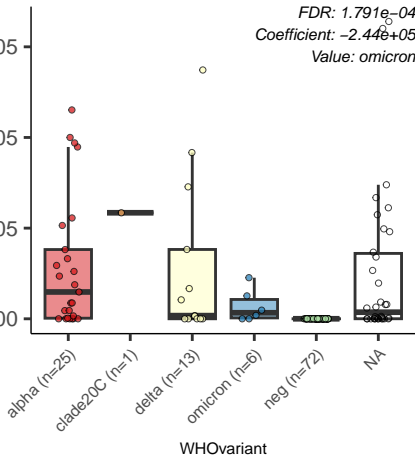


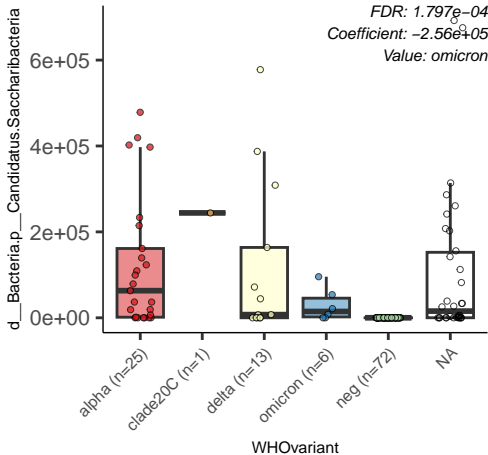




d__Bacteria.p__Candidatus.Saccharibacteria.c__Candidatus.Sa

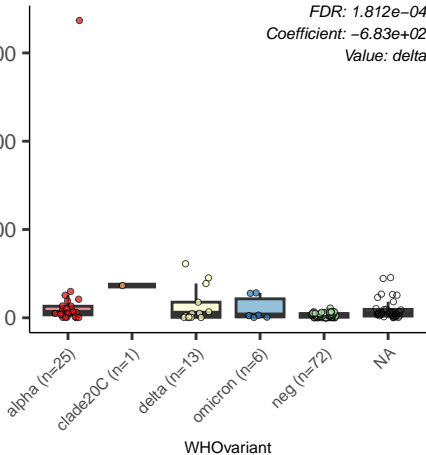
FDR: $1.791e-04$
Coefficient: $-2.44e+05$
Value: omicron

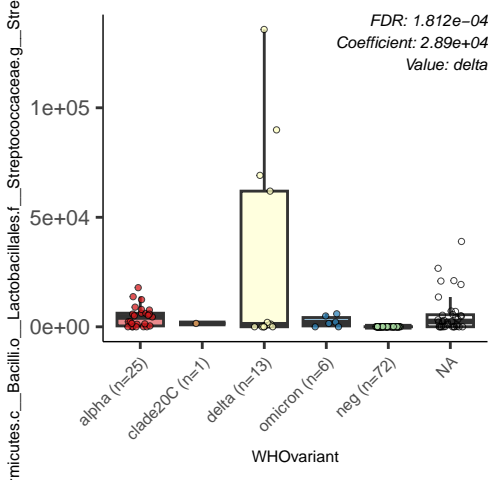


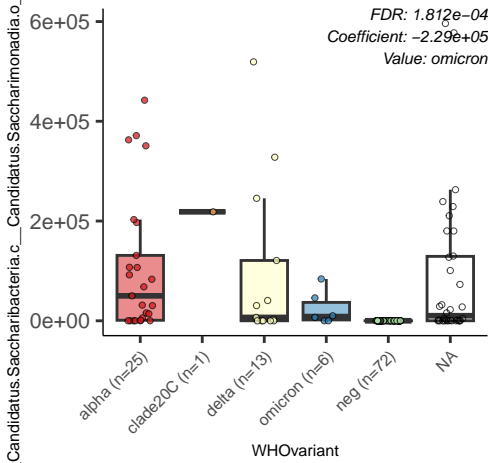


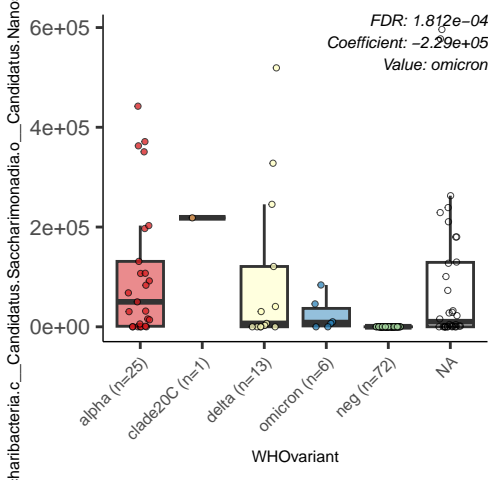
eria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobiale

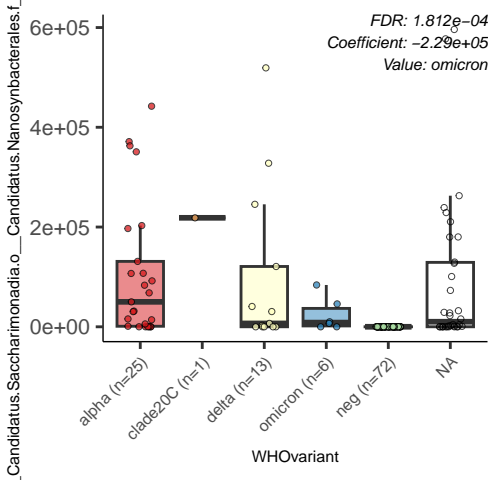
FDR: 1.812e-04
Coefficient: -6.83e+02
Value: delta





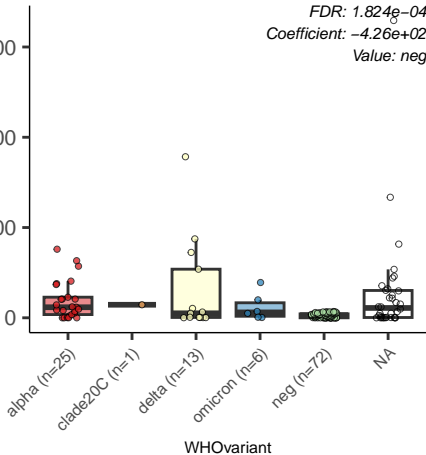


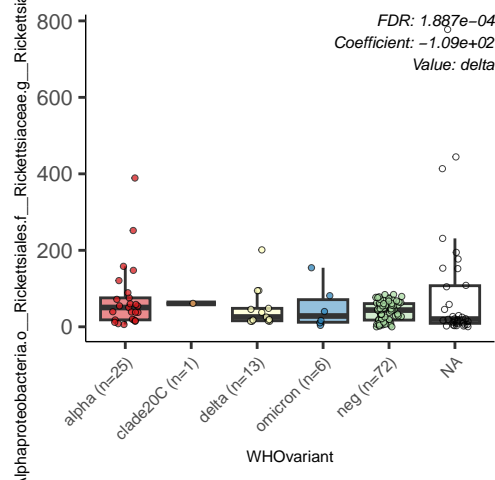


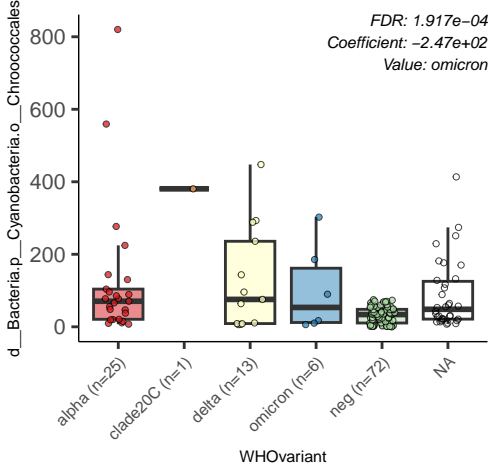


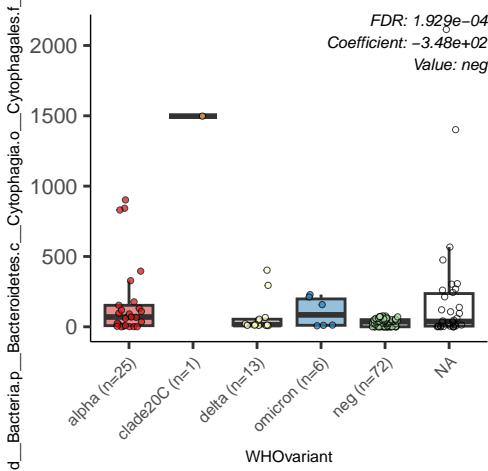
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

FDR: $1.824e-04$
Coefficient: $-4.26e+02$
Value: neg



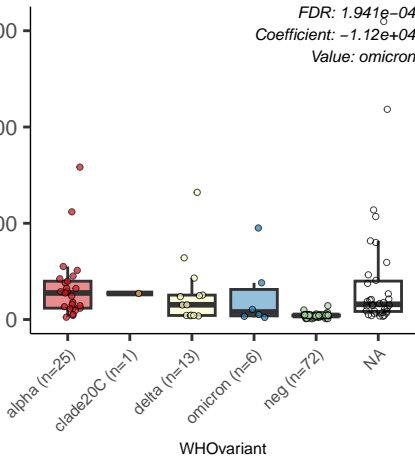


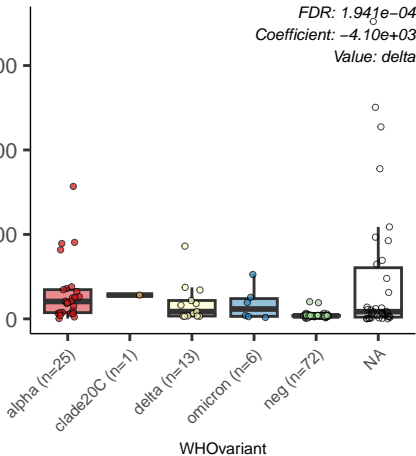


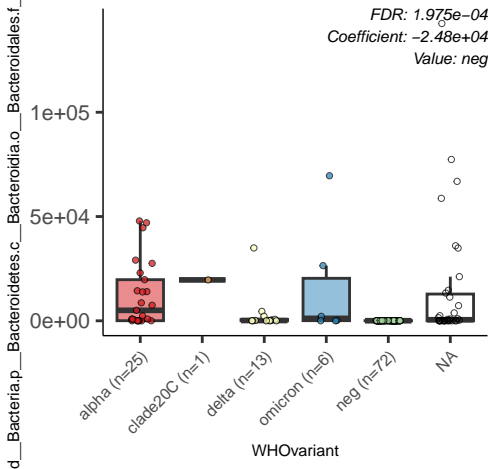


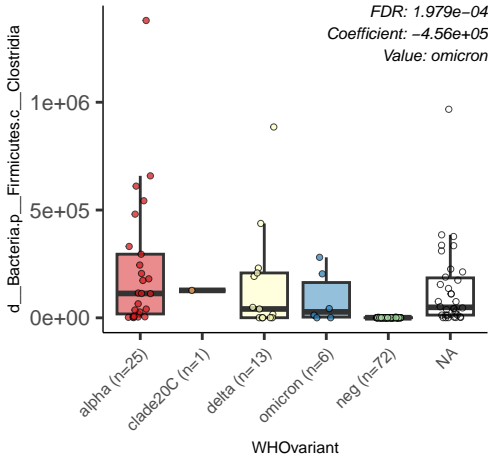
d_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyp

FDR: 1.941×10^{-4}
Coefficient: -1.12×10^4
Value: omicron

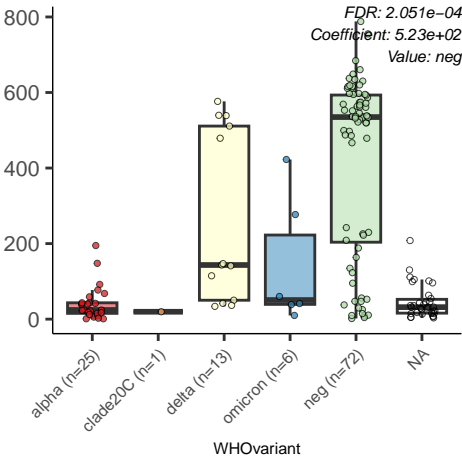


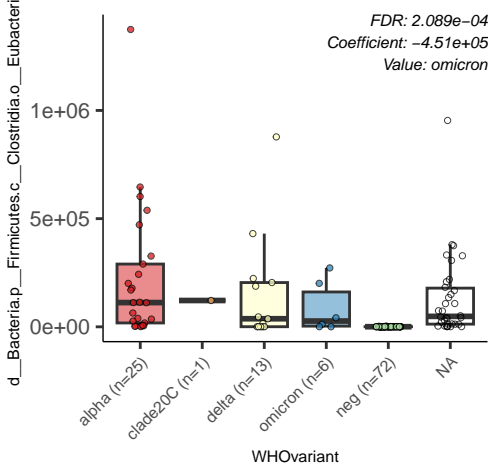


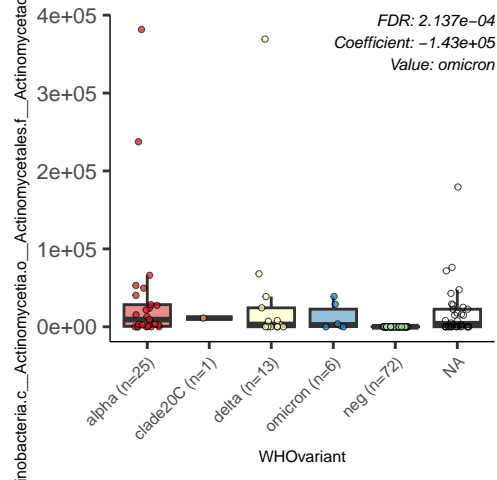




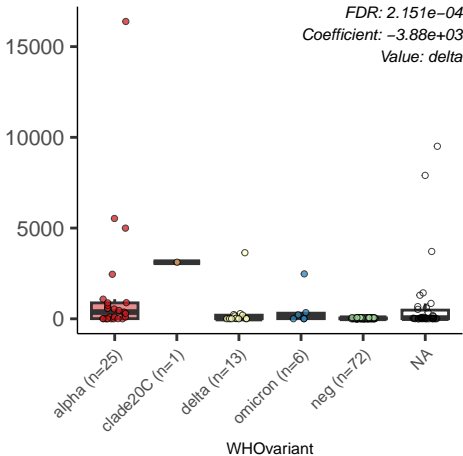
d__Viruses.k__Heunggongvirae.p__Uroviricota.c__Caudoviricetes.





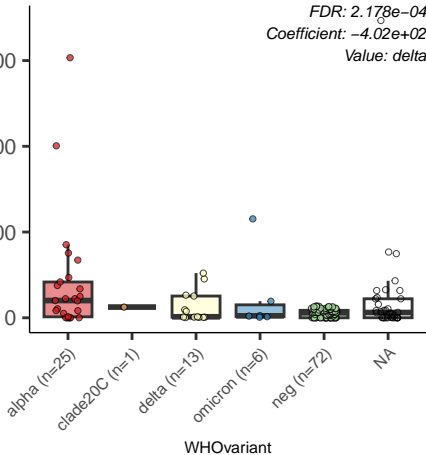


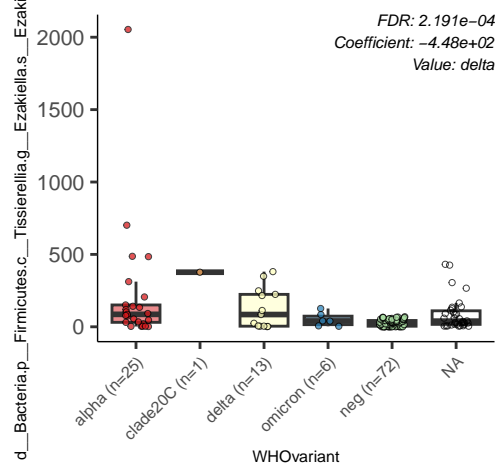
teroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae.g



c__Clostridia.o__Eubacteriales.f__Desulfotobiaceae.g__Desulf

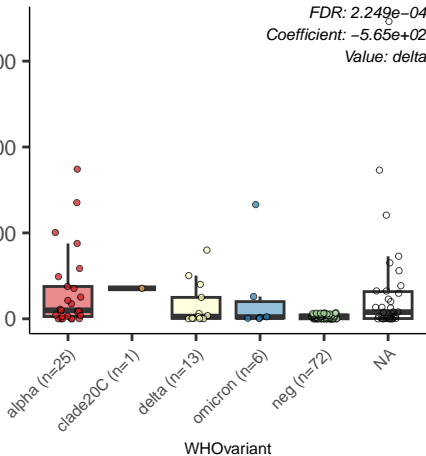
FDR: $2.178e-04$
Coefficient: $-4.02e+02$
Value: delta





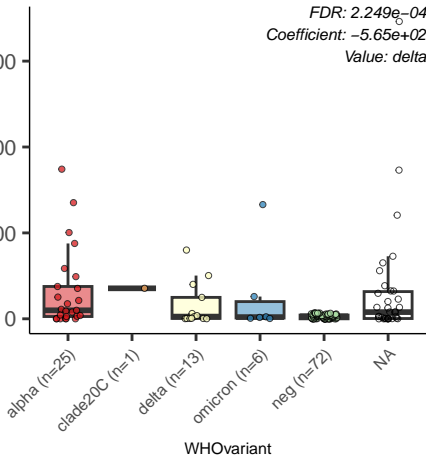
bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

FDR: 2.249e-04
Coefficient: -5.65e+02
Value: delta



irmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__S

$FDR: 2.249e-04$
 $Coefficient: -5.65e+02$
 $Value: delta$



terial.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirill

FDR: 2.264×10^{-4}
Coefficient: -1.51×10^4
Value: delta

1e+05
5e+04
0e+00

alpha (n=25)

clade20C (n=1)

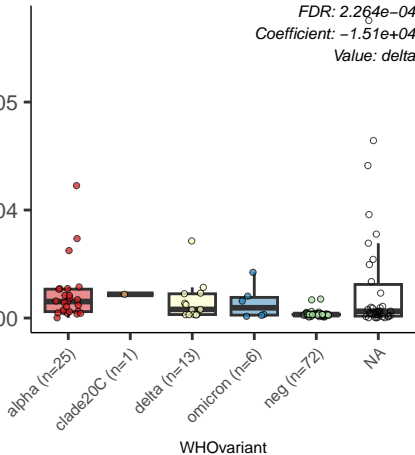
delta (n=13)

omicron (n=6)

neg (n=72)

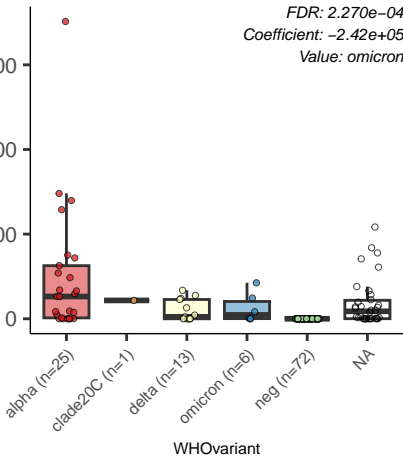
NA

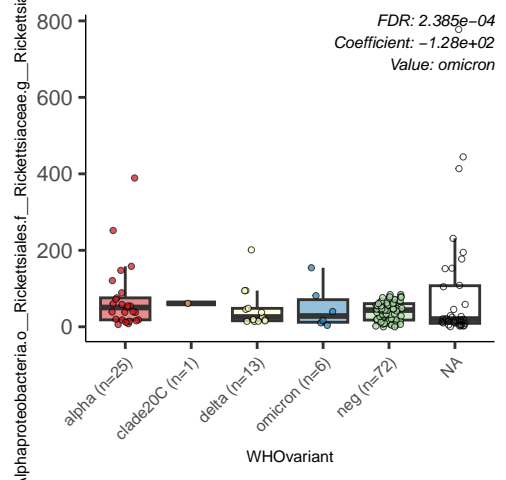
WHOvariant

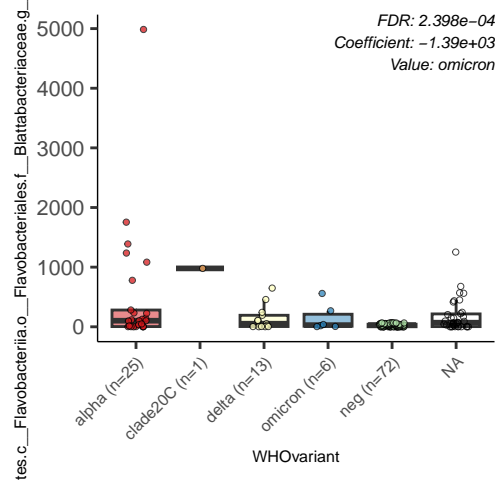


d_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_La

FDR: $2.270e-04$
Coefficient: $-2.42e+05$
Value: omicron

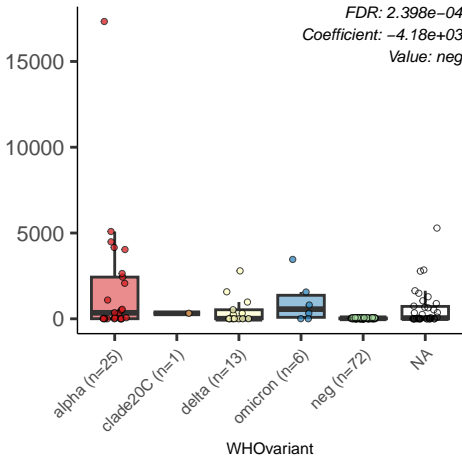




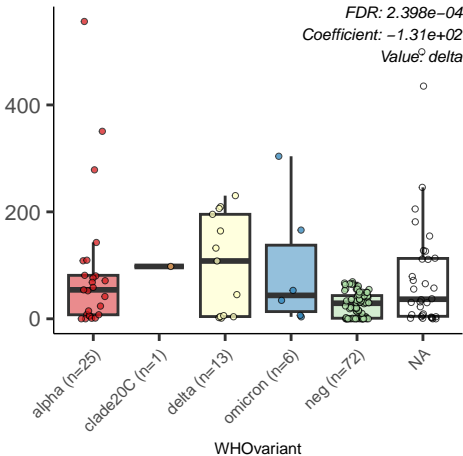


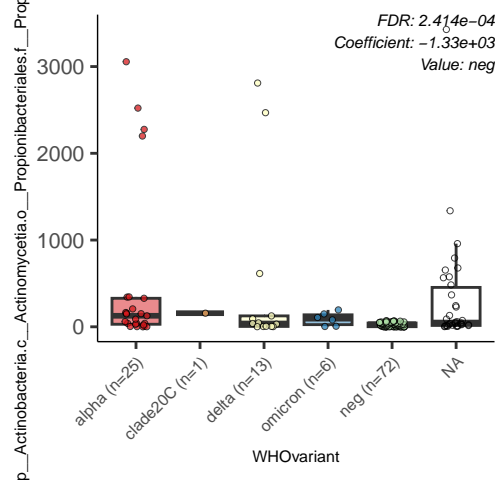
ia.c_Actinomycetia.o_Bifidobacteriales.f_Bifidobacteriaceae.g

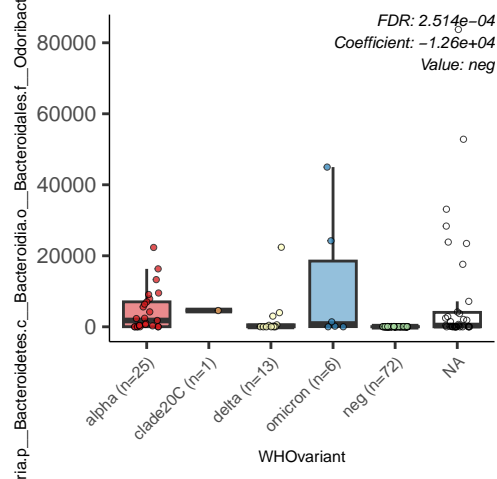
FDR: $2.398e-04$
Coefficient: $-4.18e+03$
Value: neg



d_Bacteria.p_Firmicutes.c__Clostridia.o__Halanaerobiales.f__H

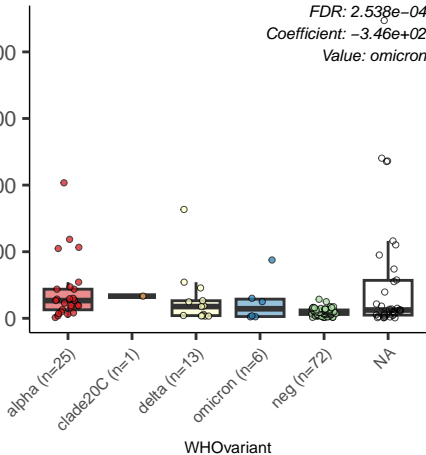






o__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__Anapl

FDR: $2.538e-04$
Coefficient: $-3.46e+02$
Value: omicron



d_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rh

FDR: $2.544e-04$
Coefficient: $-2.88e+03$
Value: neg

10000

5000

alpha (n=25)

clade20C (n=1)

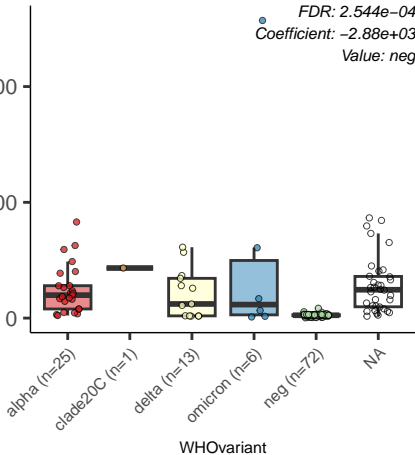
delta (n=13)

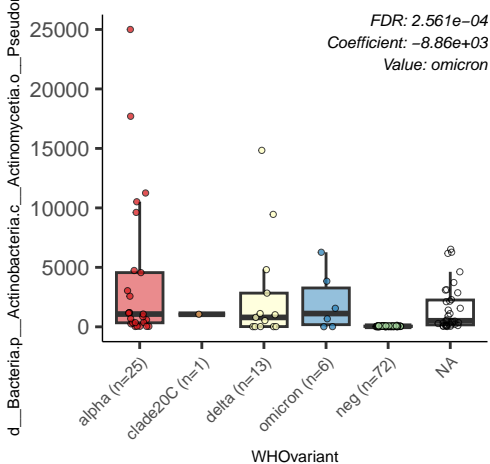
omicron (n=6)

neg (n=72)

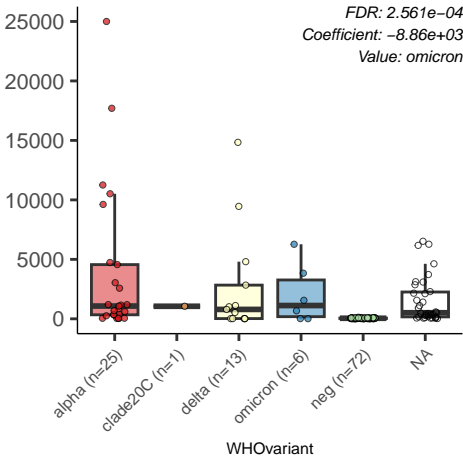
NA

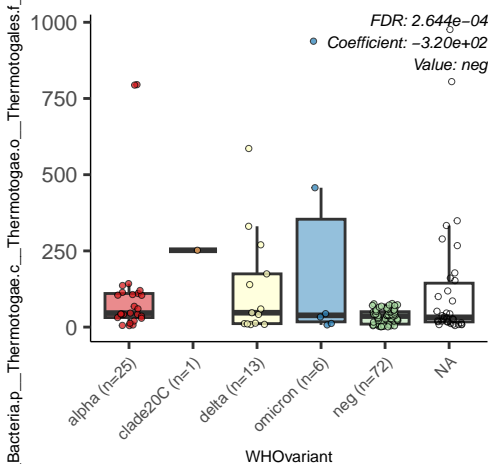
WHOvariant



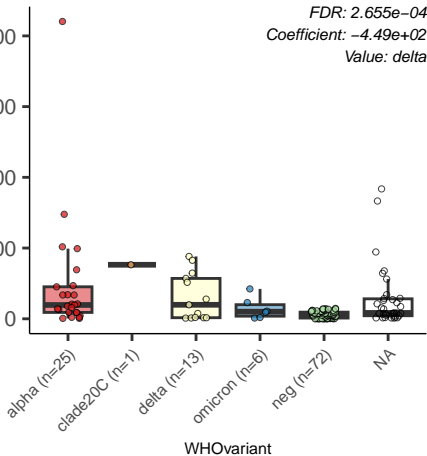


bacteria.p_Actinobacteria.c_Actinomycetia.o_Pseudonocardiales.f



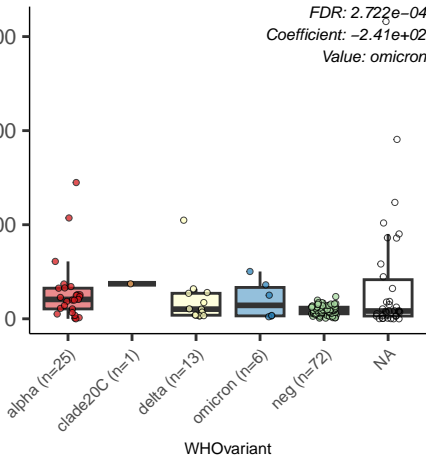


d__Bacteria.p__Firmicutes.c__Tissierellia.g__Ezakiella

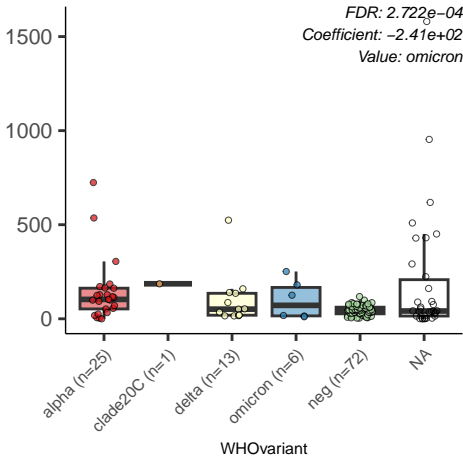


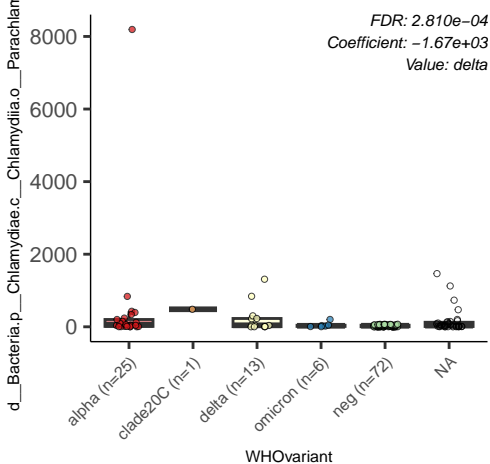
ria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flav

FDR: $2.722e-04$
Coefficient: $-2.41e+02$
Value: omicron



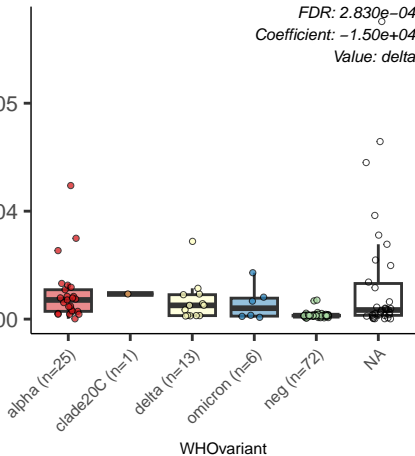
acteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteri

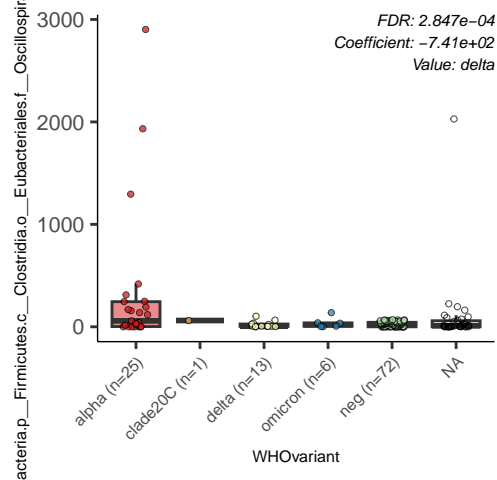


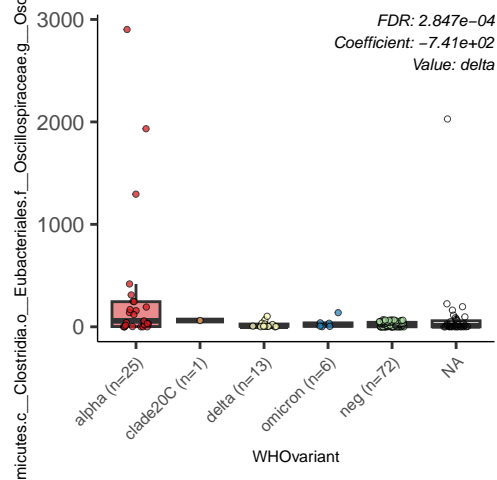


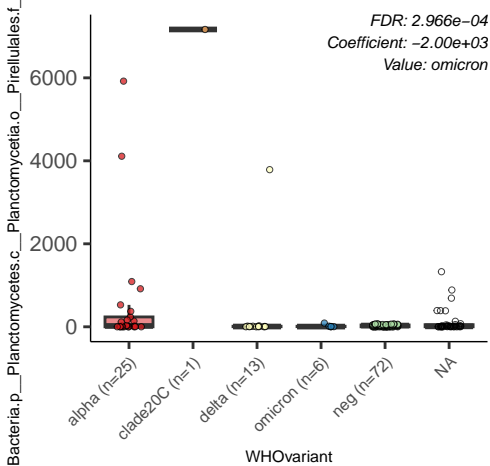
d__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__O

FDR: $2.830e-04$
Coefficient: $-1.50e+04$
Value: delta



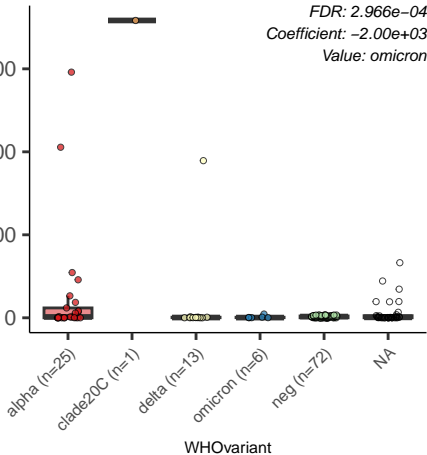


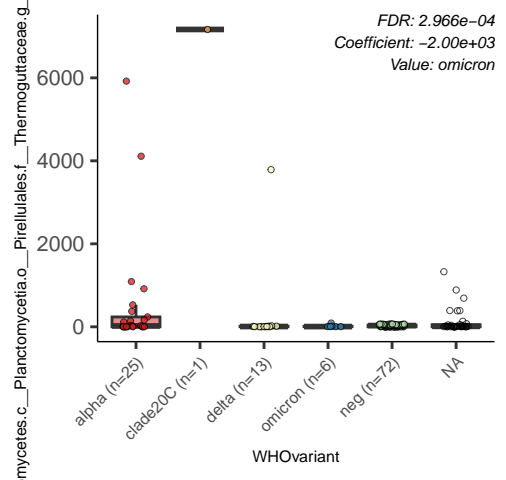


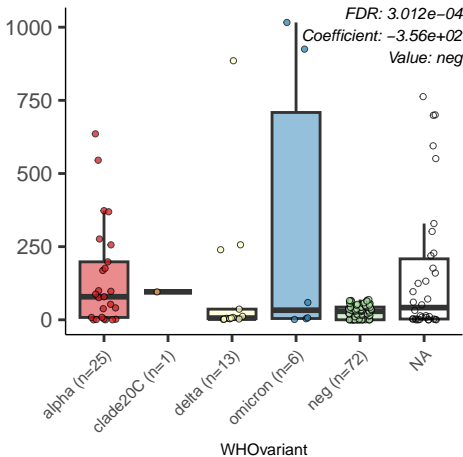


ia.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__Therm

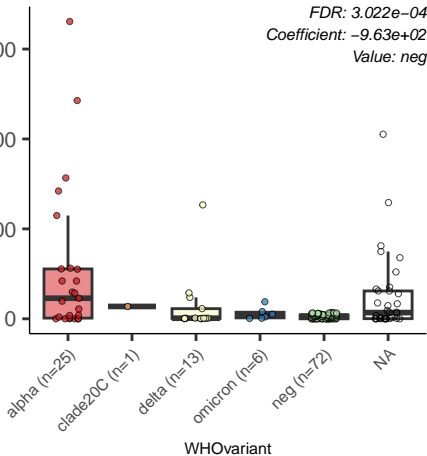
FDR: 2.966e-04
Coefficient: -2.00e+03
Value: omicron

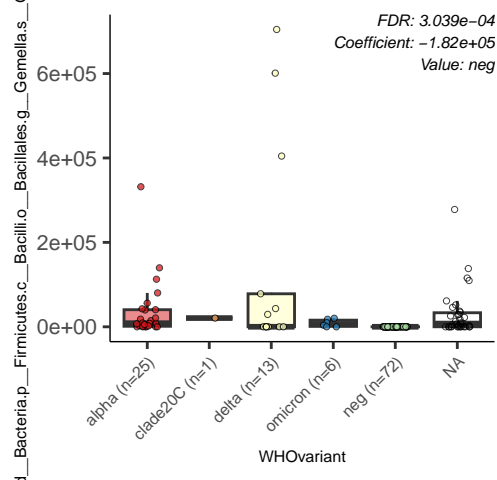






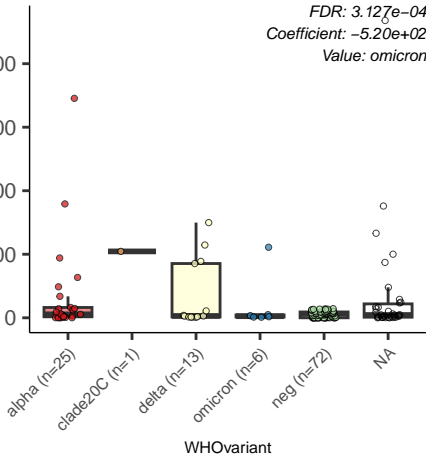
s.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_Chry





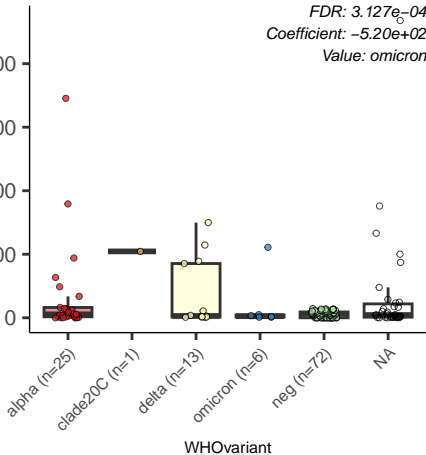
.p__Verrucomicrobia.c__Opitutae.o__Puniceicoccales.f__Puniceico

FDR: 3.127×10^{-4}
Coefficient: -5.20×10^2
Value: omicron



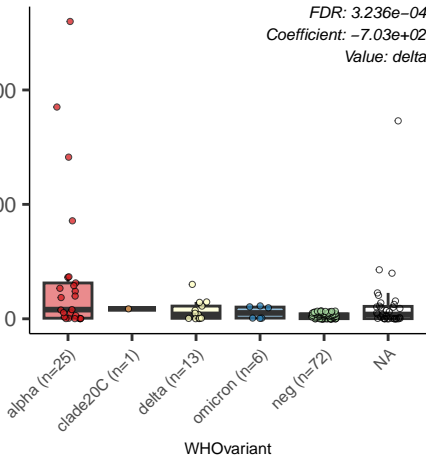
obia.c__Opitutae.o__Puniceicoccales.f__Puniceicoccaceae.g__Corr

FDR: $3.127e-04$
Coefficient: $-5.20e+02$
Value: omicron



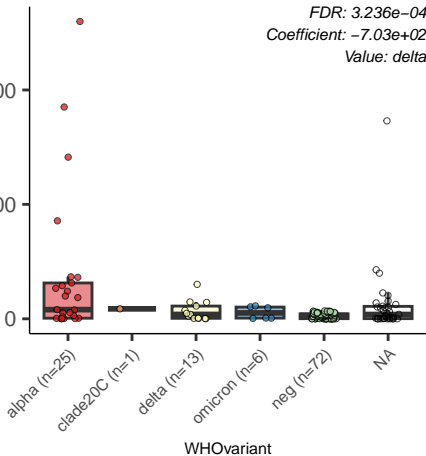
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridia

FDR: $3.236e-04$
Coefficient: $-7.03e+02$
Value: delta



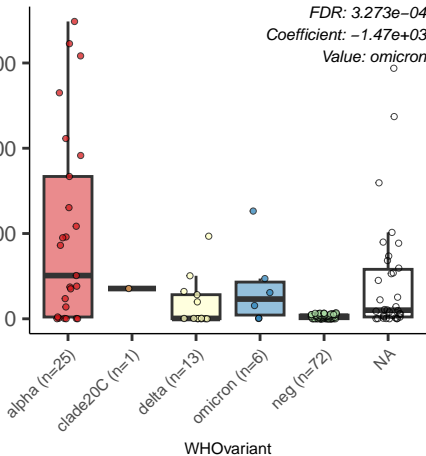
nicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Serper

FDR: 3.236e-04
Coefficient: -7.03e+02
Value: delta



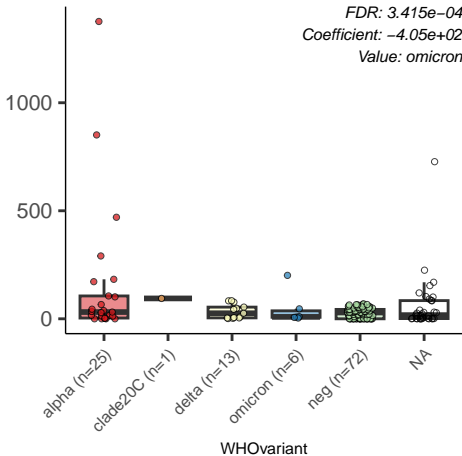
bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae.g

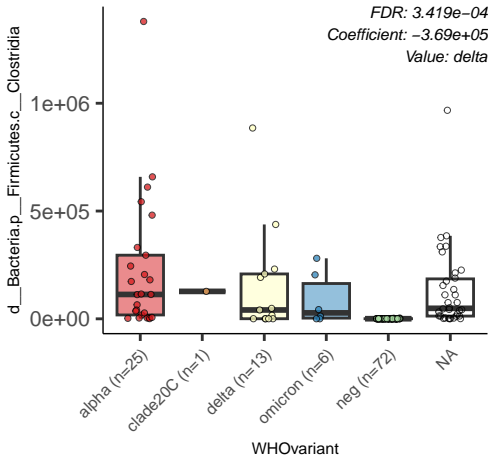
FDR: $3.273e-04$
Coefficient: $-1.47e+03$
Value: omicron

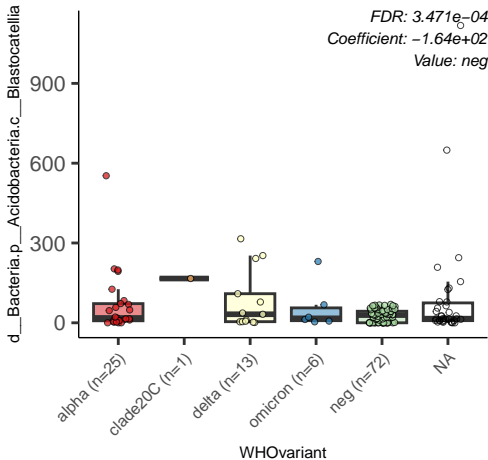


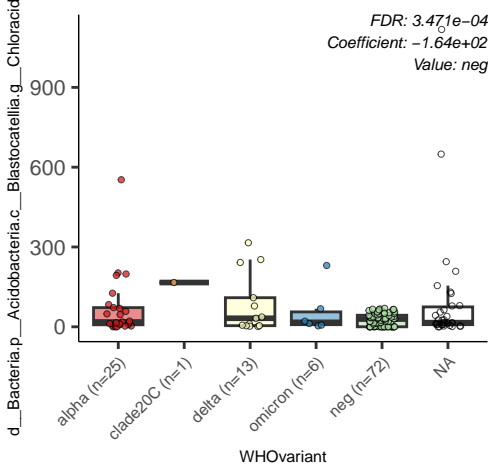
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo

FDR: $3.415e-04$
Coefficient: $-4.05e+02$
Value: omicron

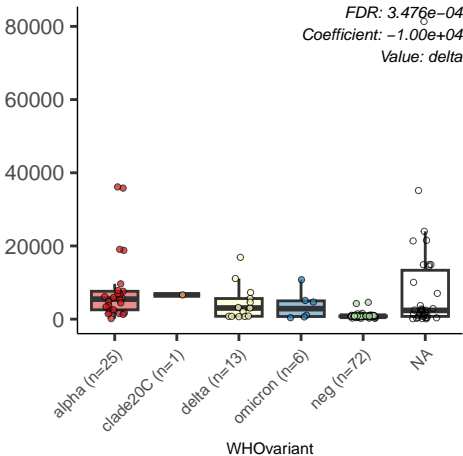


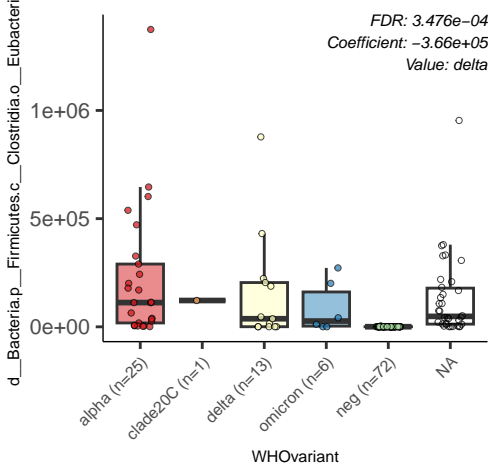




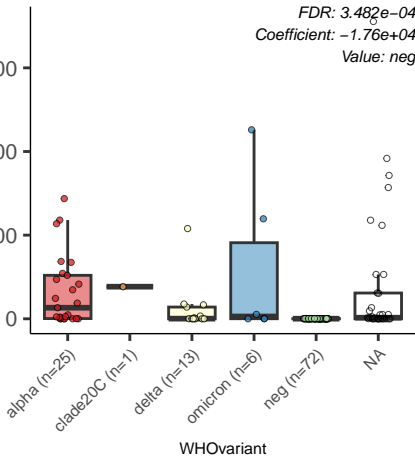


bacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellace

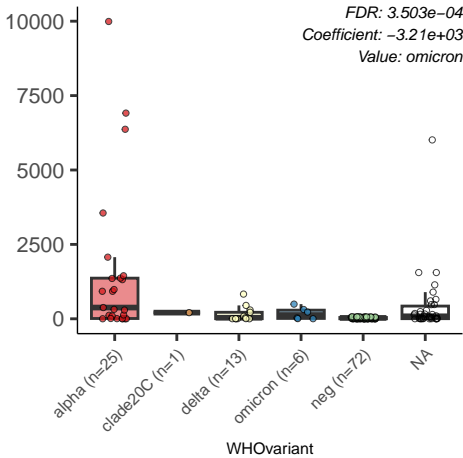


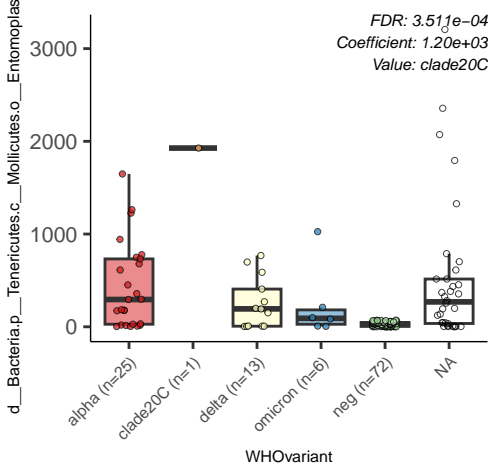


FDR: $3.482e-04$
Coefficient: $-1.76e+04$
Value: neg



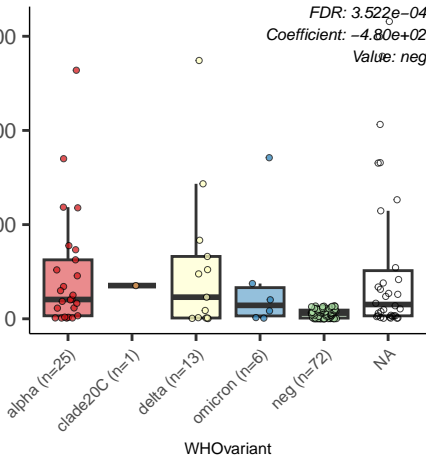
utes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Medite



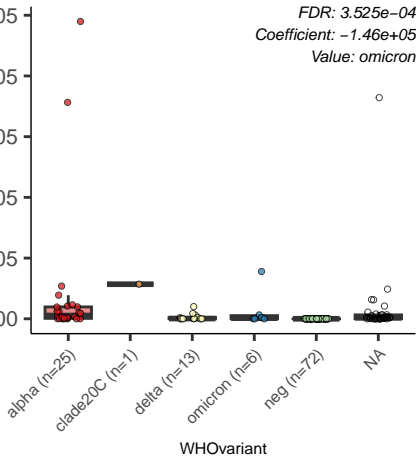


d__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.g__Exigu

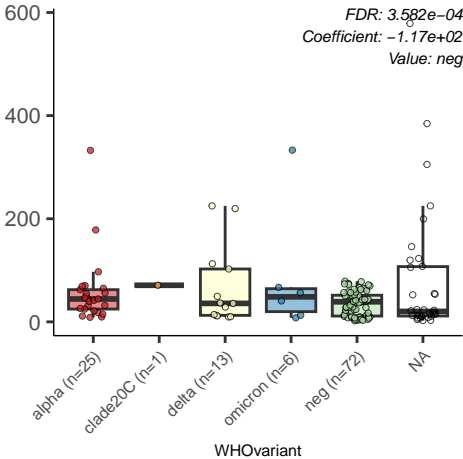
FDR: $3.522e-04$
Coefficient: $-4.80e+02$
Value: neg

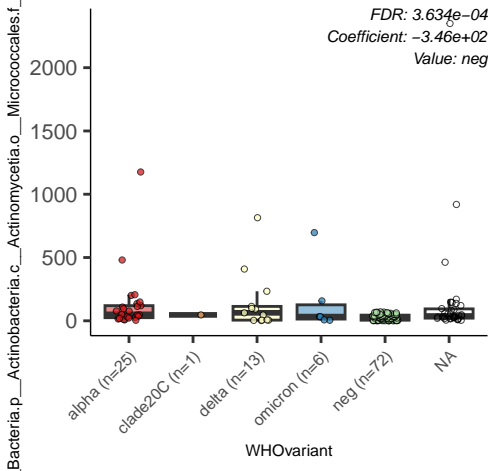


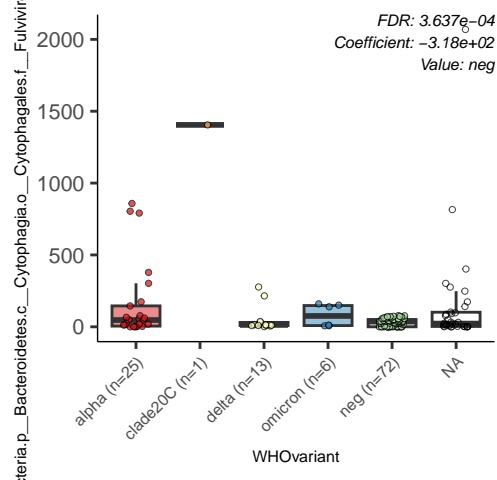
eroidetes.c__Bacteroidia.o__Bacteroidales.f__Tannerellaceae.g__Ta

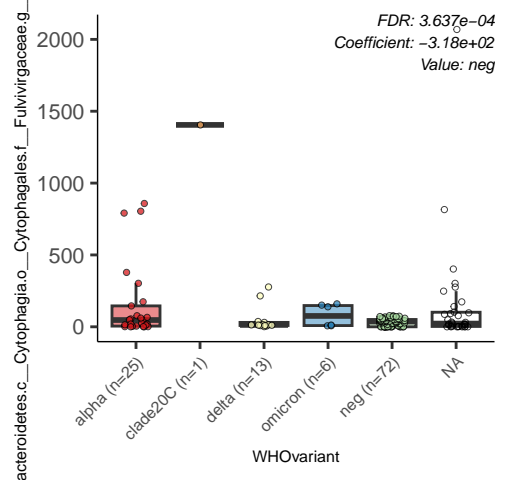


d_Bacteria.p__Cyanobacteria.o__Nostocales.f__Scytonemataceae

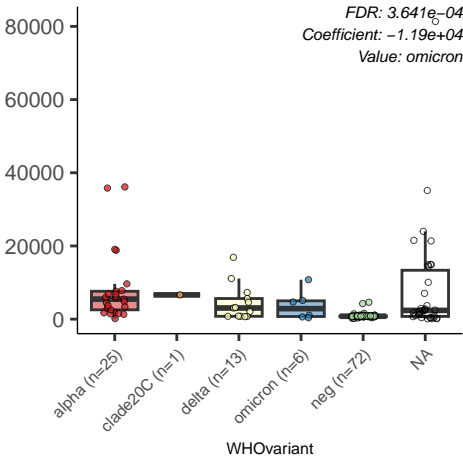




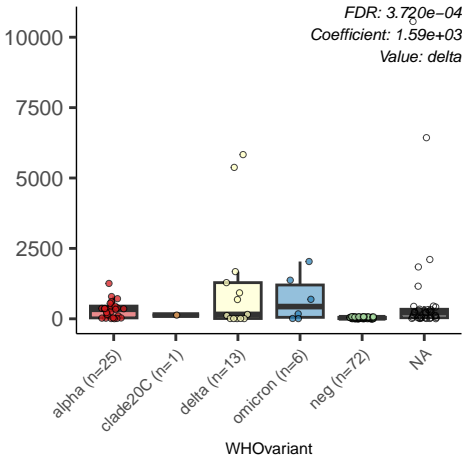




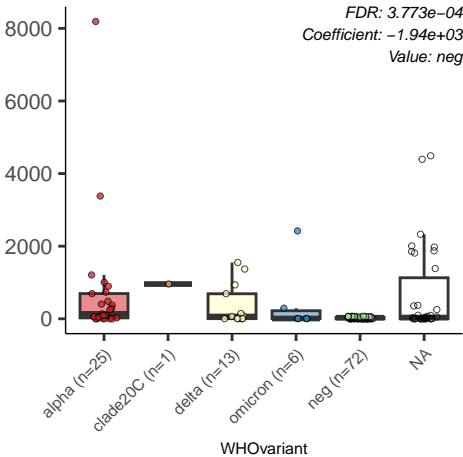
bacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellace



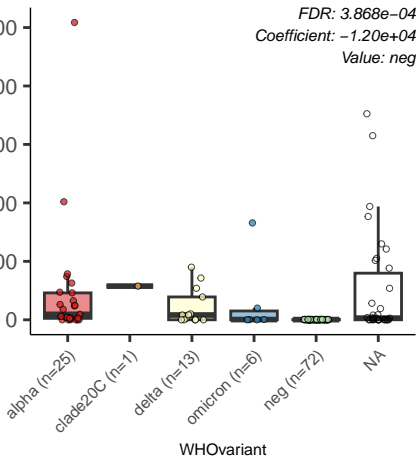
acteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobac



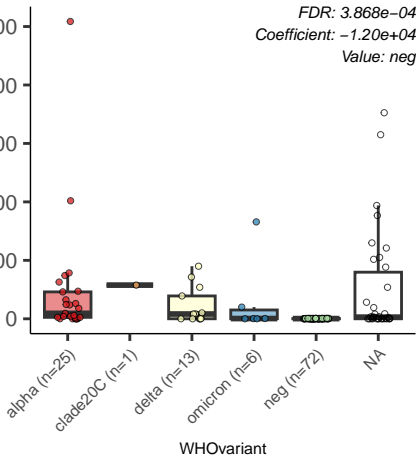
s.c._Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Ince

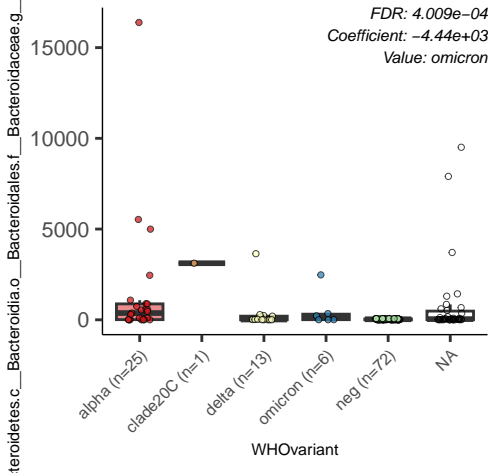


Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.X



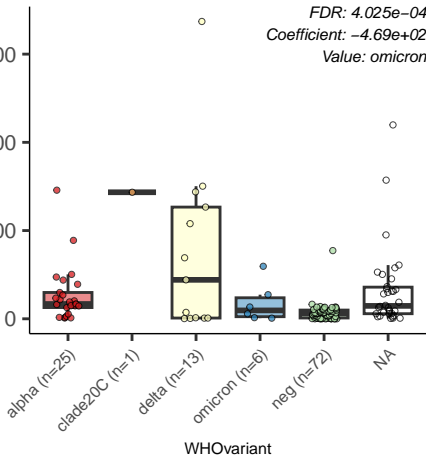
Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Incertae.S

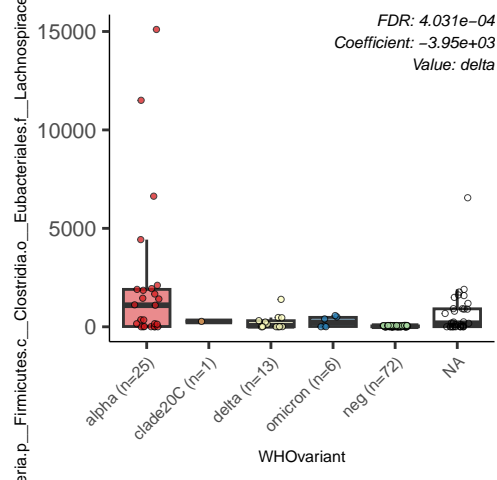


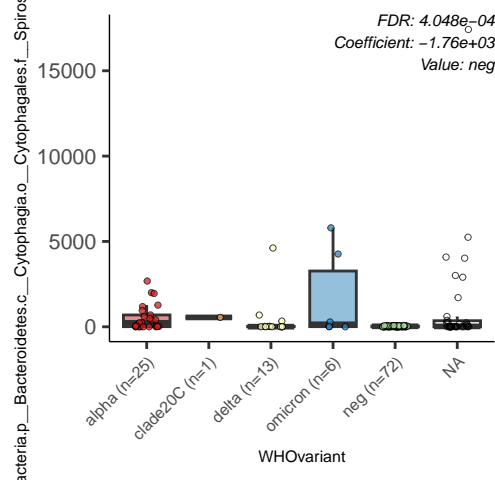


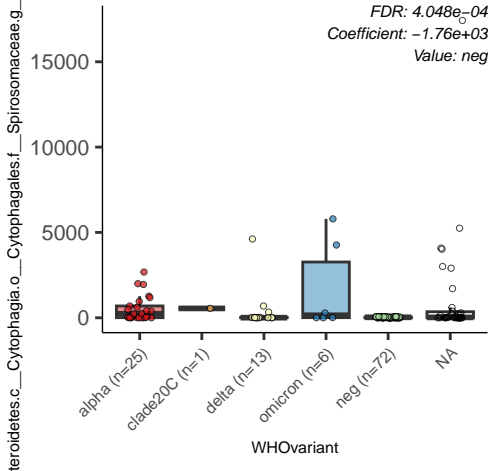
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Aerococca

FDR: $4.025e-04$
Coefficient: $-4.69e+02$
Value: omicron



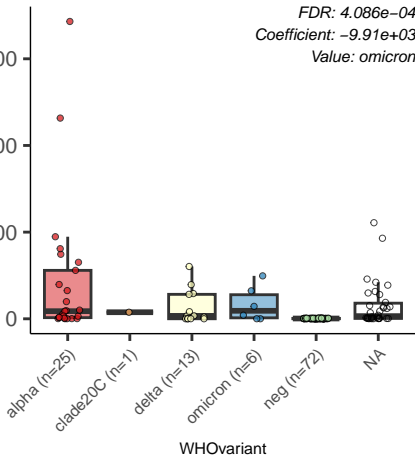


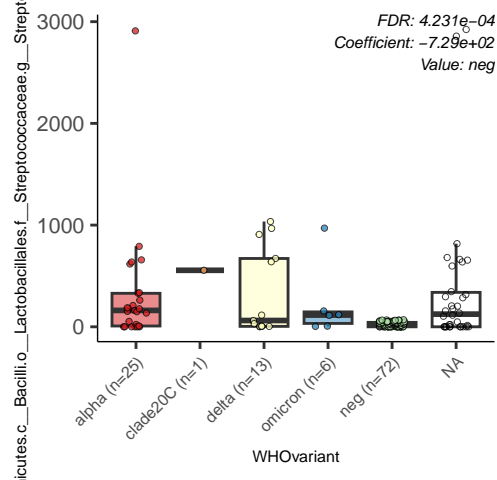




_Actinobacteria.c__Actinomycetia.o__Corynebacteriales.f__Mycoba

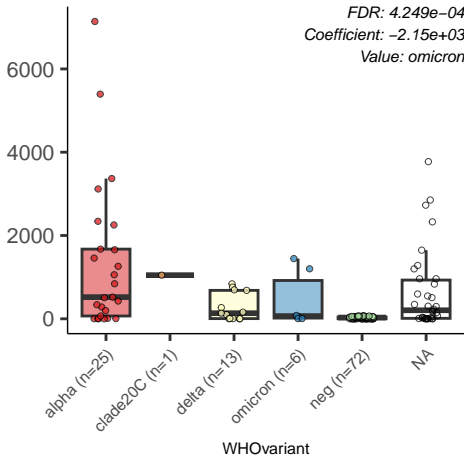
FDR: $4.086e-04$
Coefficient: $-9.91e+03$
Value: omicron



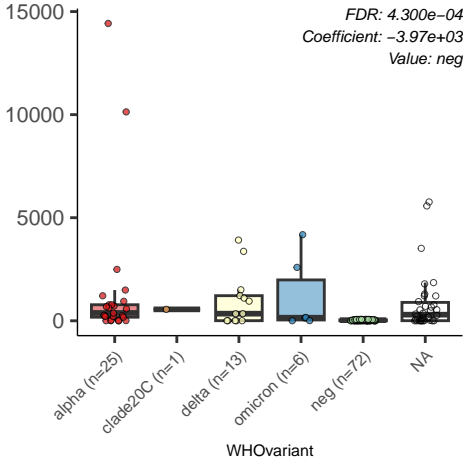


acteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospira

FDR: 4.249e-04
Coefficient: -2.15e+03
Value: omicron

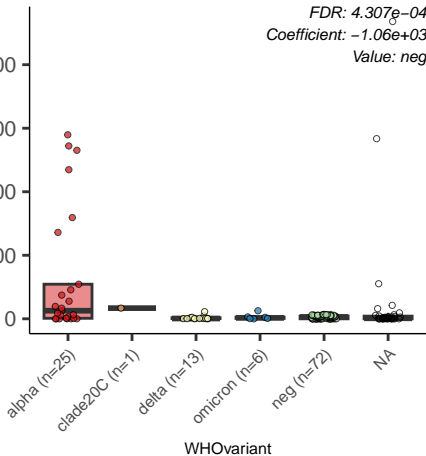


phylum: Bacteriophages
class: Bacilli
order: Bacillales
family: Streptococcaceae
genus: Streptococcus

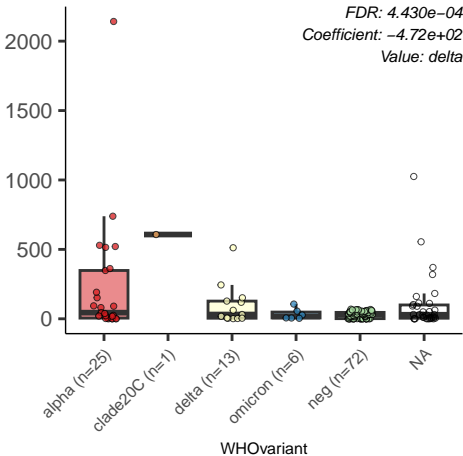


psilonproteobacteria.o__Campylobacterales.f__Campylobacteraceae

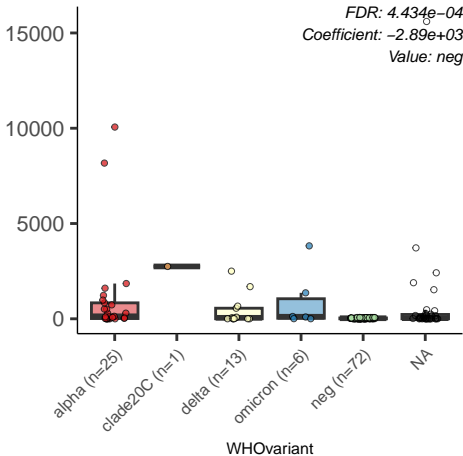
FDR: $4.307e-04$
Coefficient: $-1.06e+03$
Value: neg



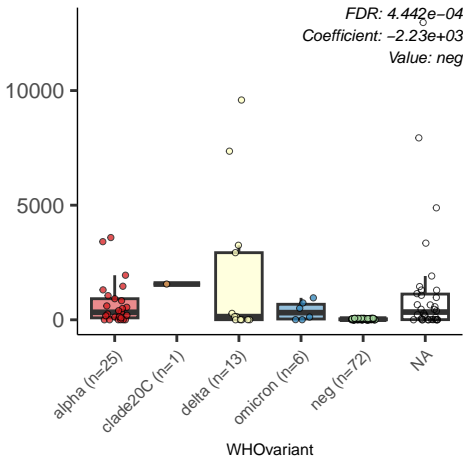
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo

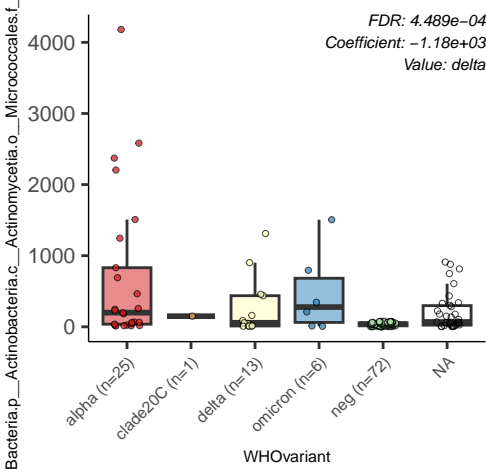


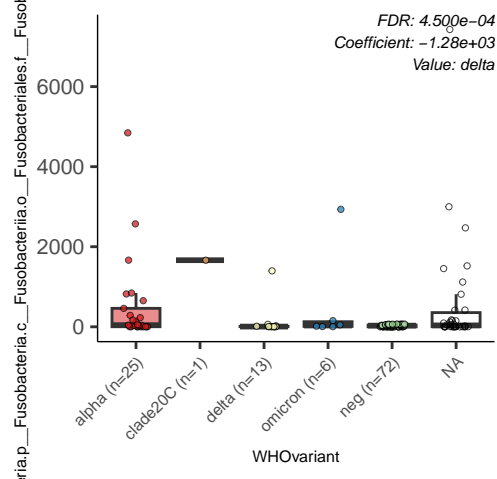
idetes.c__Bacteroidia.o__Bacteroidales.f__Tannerellaceae.g__Para



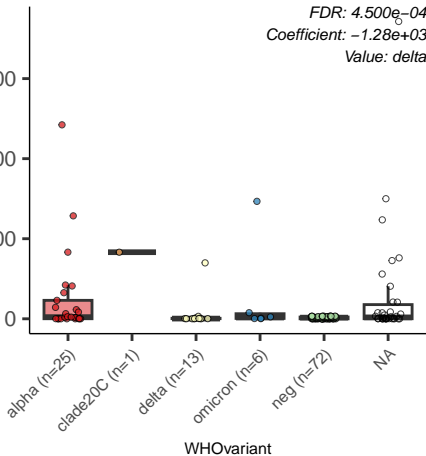
cutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Strepto





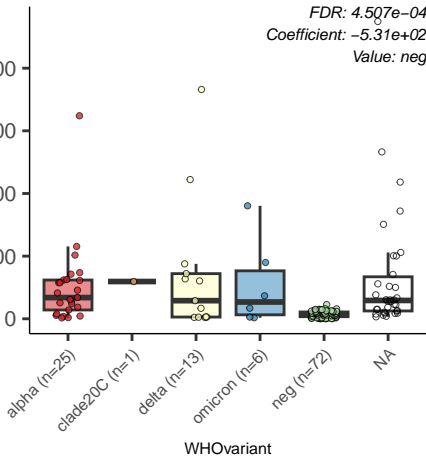


FDR: $4.500e-04$
Coefficient: $-1.28e+03$
Value: delta



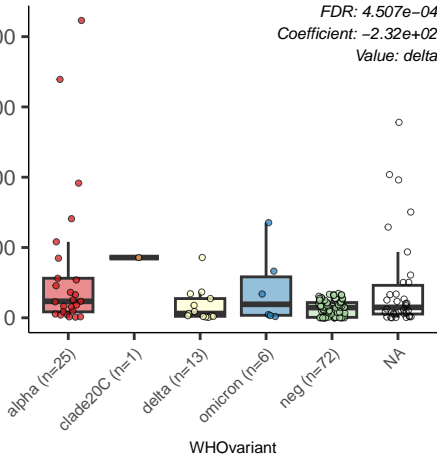
d_Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__My

FDR: $4.507e-04$
Coefficient: $-5.31e+02$
Value: neg



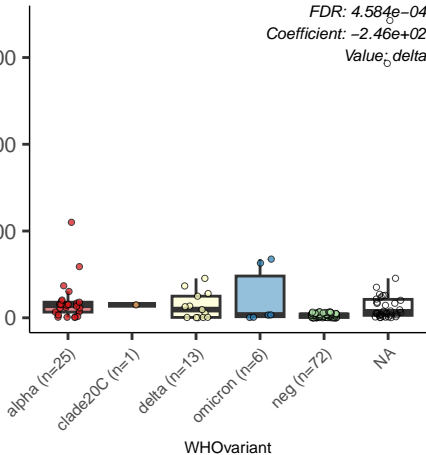
__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales

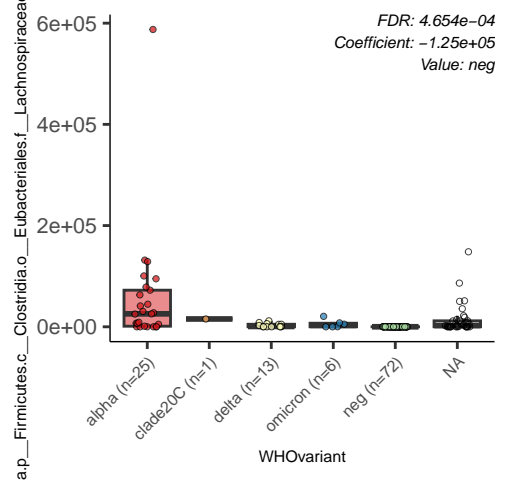
FDR: $4.507e-04$
Coefficient: $-2.32e+02$
Value: delta

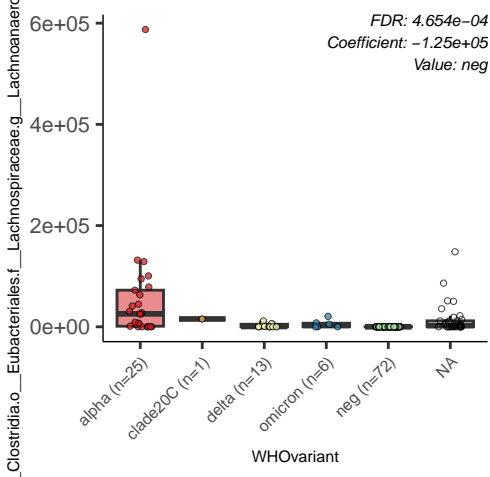


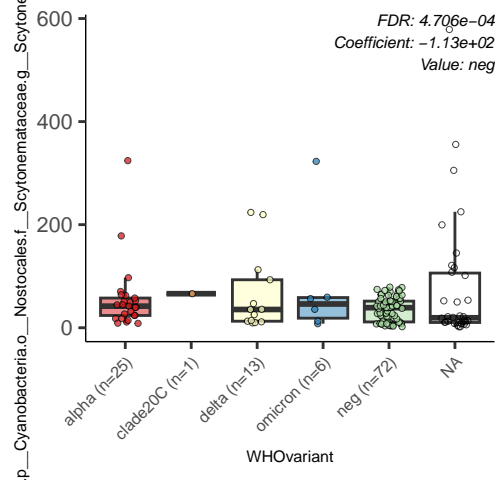
eria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfovibrionales

FDR: $4.584e-04$
Coefficient: $-2.46e+02$
Value: delta

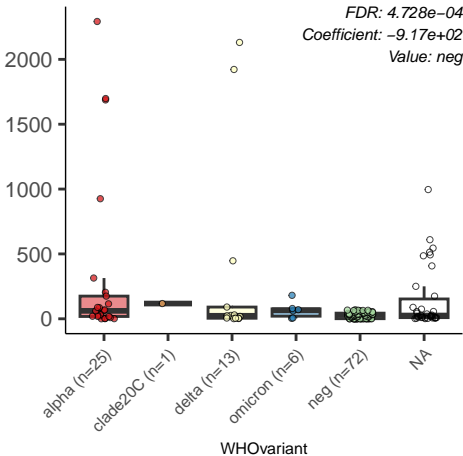






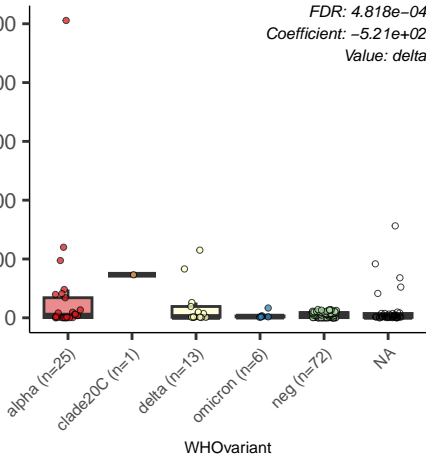


Actinomyces, Propionibacteriales, f. Propionibacteriales

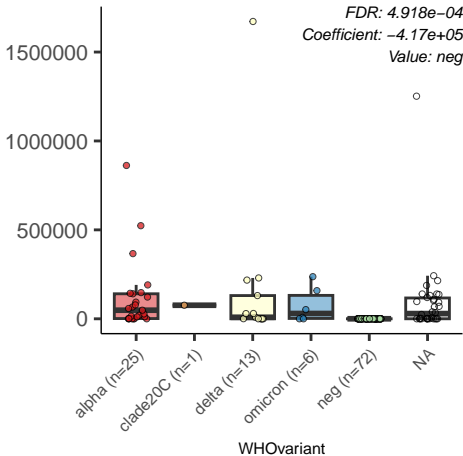


a.c._Thermoleophilia.o__Solirubrobacterales.f__Conexibacteraceae

FDR: 4.818e-04
Coefficient: -5.21e+02
Value: delta

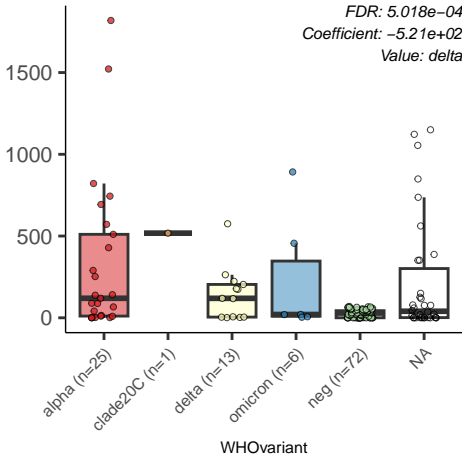


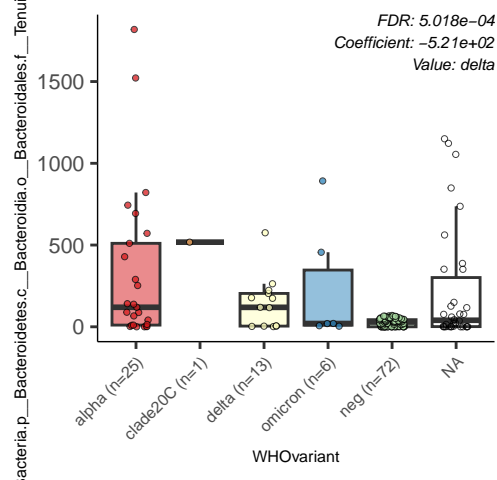
bacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae

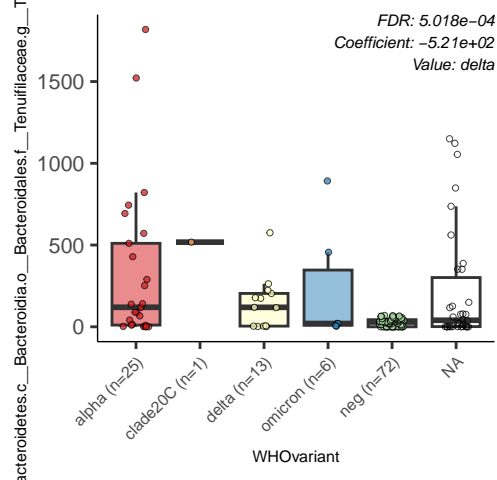


d_Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__

FDR: $5.018e-04$
Coefficient: $-5.21e+02$
Value: delta

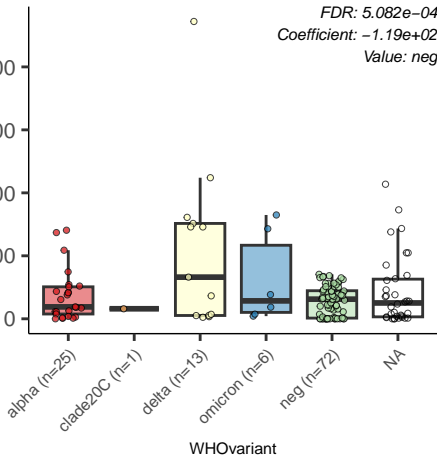


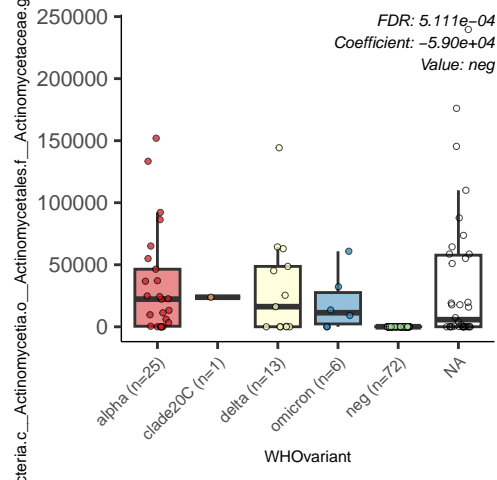


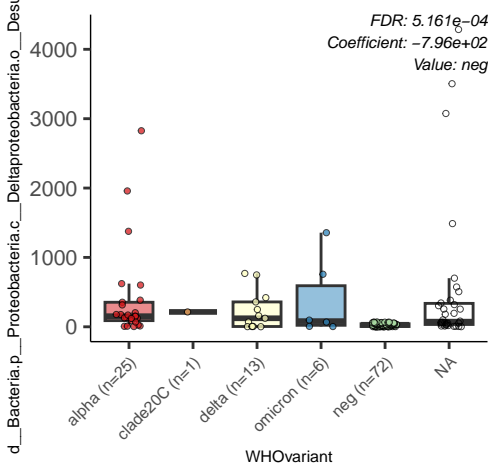


ria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__C

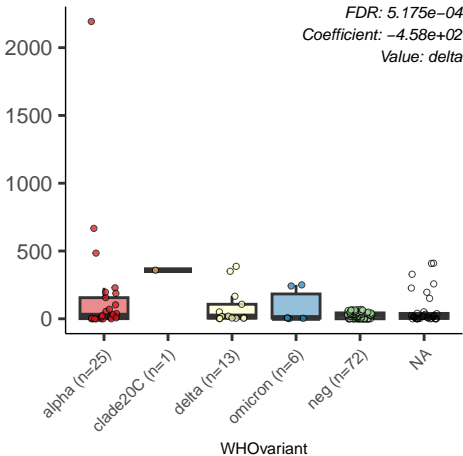
FDR: $5.082e-04$
Coefficient: $-1.19e+02$
Value: neg

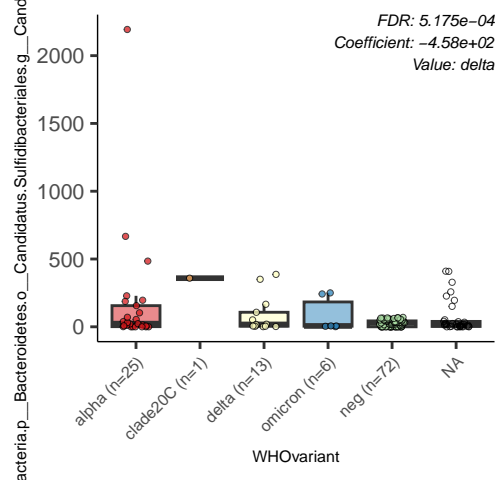




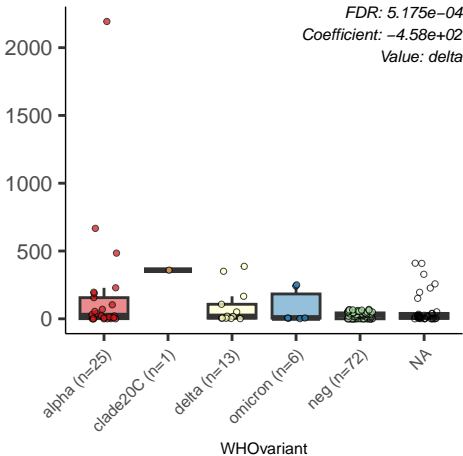


d__Bacteria.p__Bacteroidetes.o__Candidatus.Sulfidibac



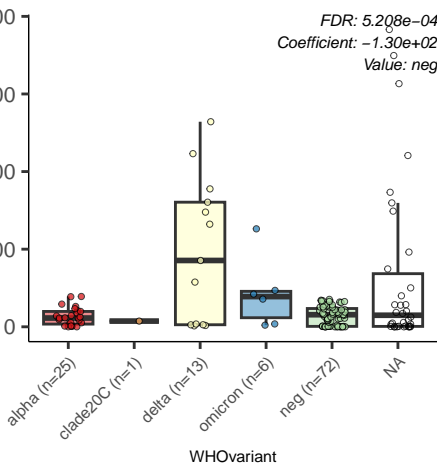


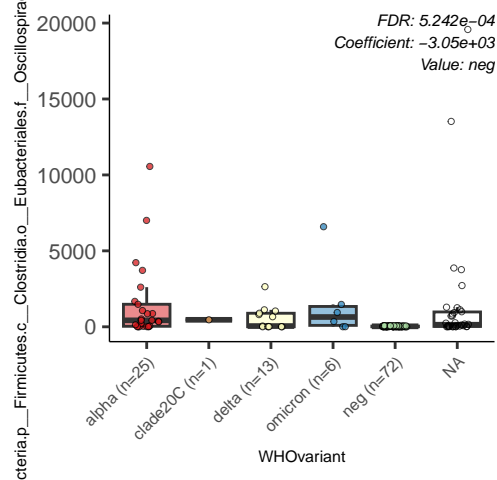
s.o__Candidatus.Sulfidibacteriales.g__Candidatus.Sulfidibacterium.



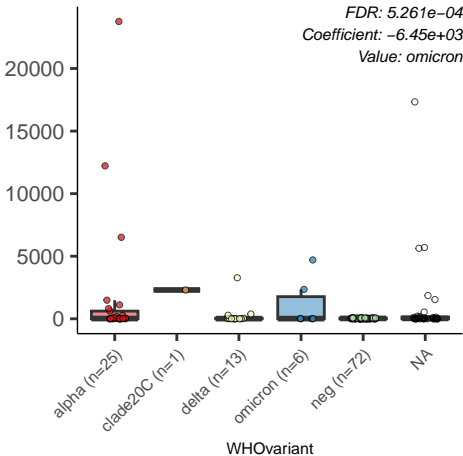
ia.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g_Bacillus

FDR: $5.208e-04$
Coefficient: $-1.30e+02$
Value: neg

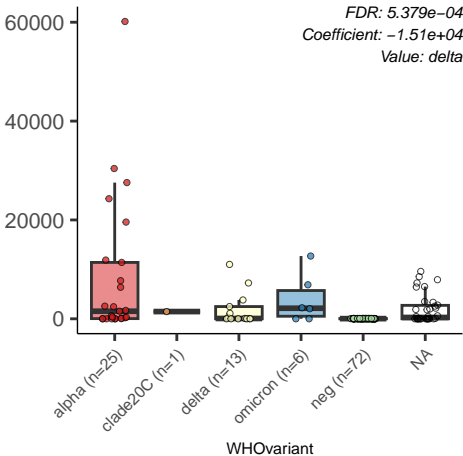


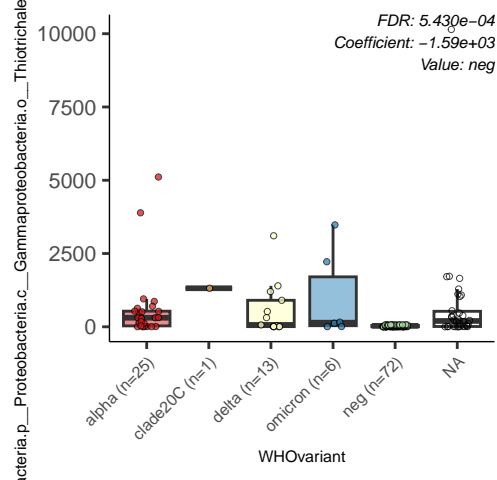


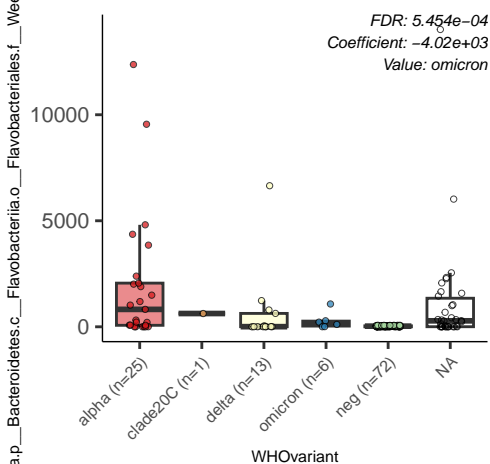
etes.c_Flavobacteriia.o_Flavobacteriales.f_Flavobacteriaceae.g



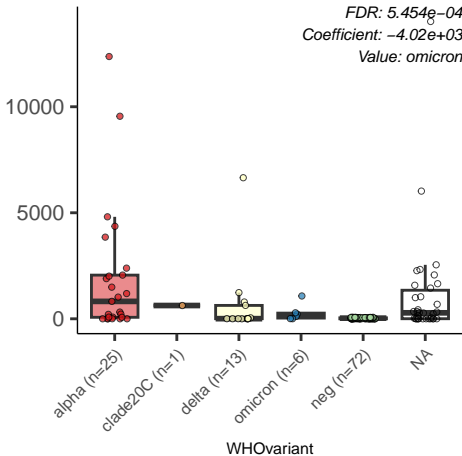
acteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae.g



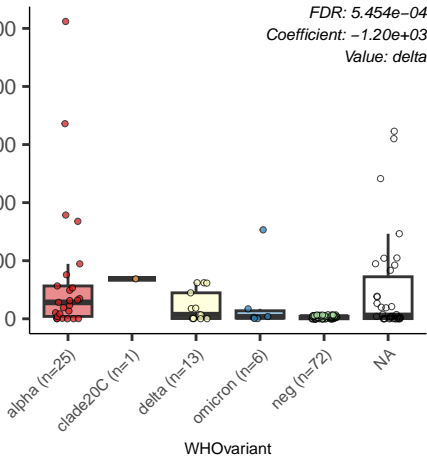




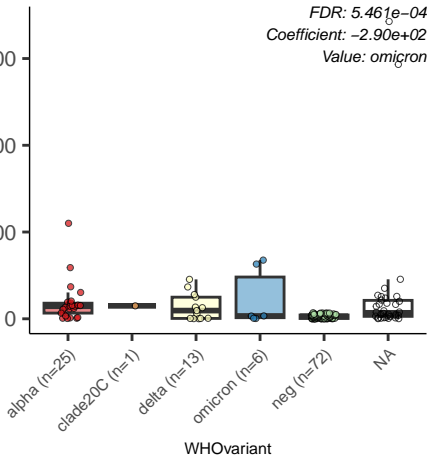
FDR: $5.454e-04$
Coefficient: $-4.02e+03$
Value: omicron



bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Clostridiaceae

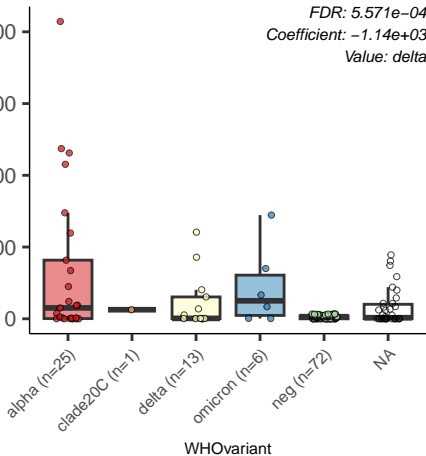


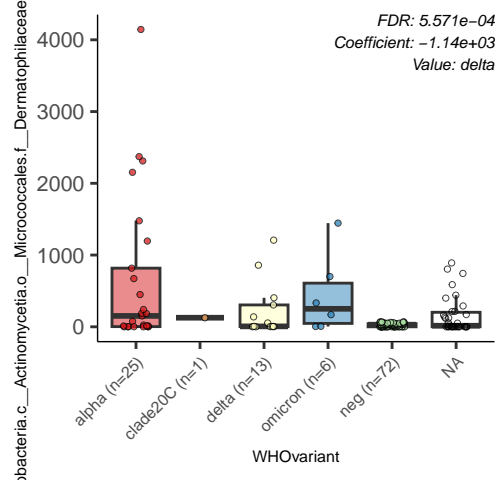
eria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfovibrionale

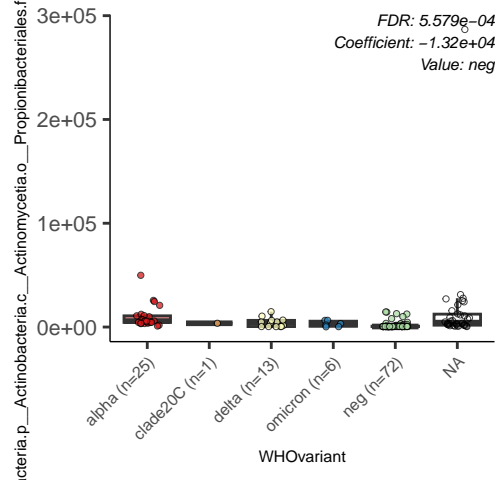


ria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Derma

FDR: $5.571e-04$
Coefficient: $-1.14e+03$
Value: delta

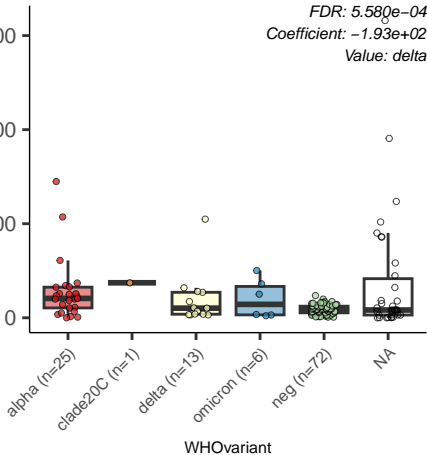




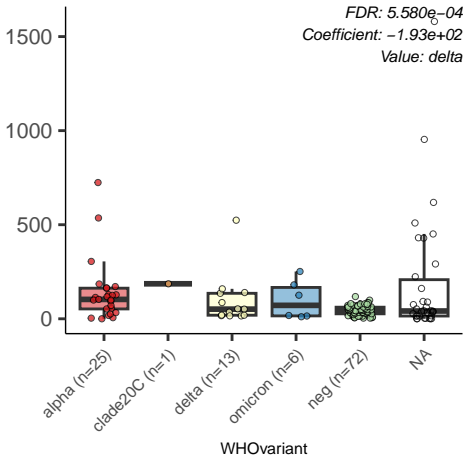


ria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flav

FDR: 5.580e-04
Coefficient: -1.93e+02
Value: delta



acteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteri



FDR: $5.683e-04$
Coefficient: $1.03e+04$
Value: delta

1e+05

5e+04

0e+00

alpha (n=25)

clade20C (n=1)

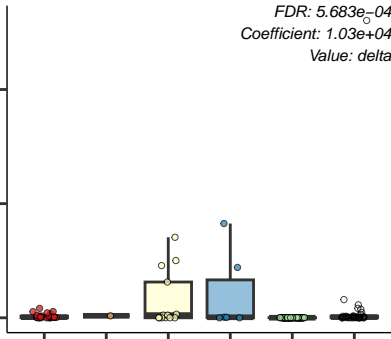
delta (n=13)

omicron (n=6)

neg (n=72)

NA

WHOvariant



s.c__Bacteroidia.o__Bacteroidales.f__Porphyromonadaceae.g__Po

FDR: $5.690e-04$
Coefficient: $-2.49e+02$
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

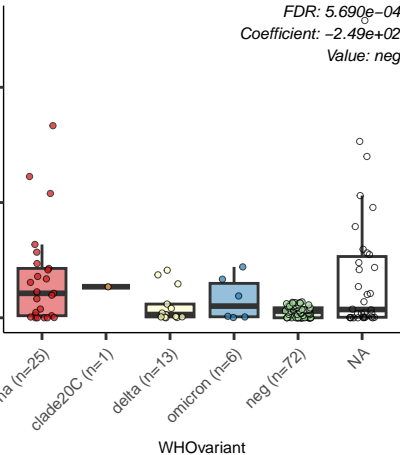
delta (n=13)

omicron (n=6)

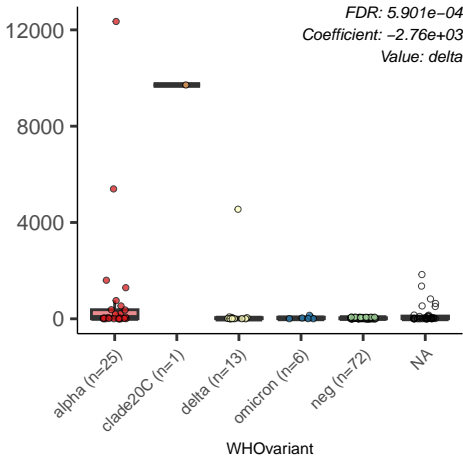
neg (n=72)

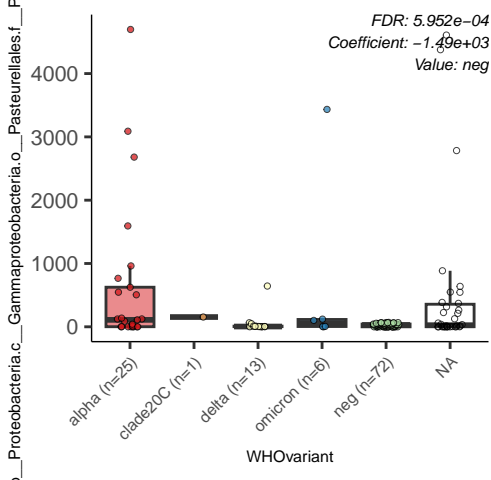
NA

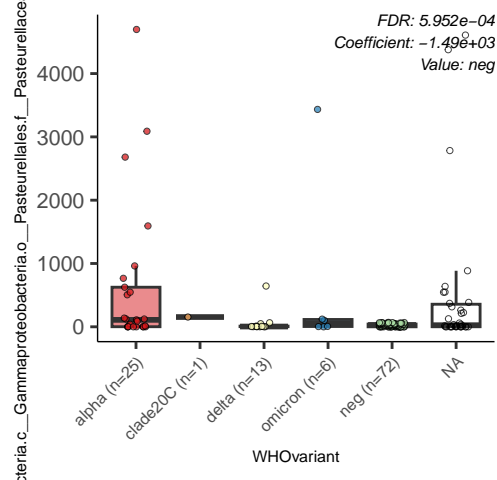
WHOvariant



p__Planctomycetes.c__Planctomycetia.o__Planctomycetales.f__Pla

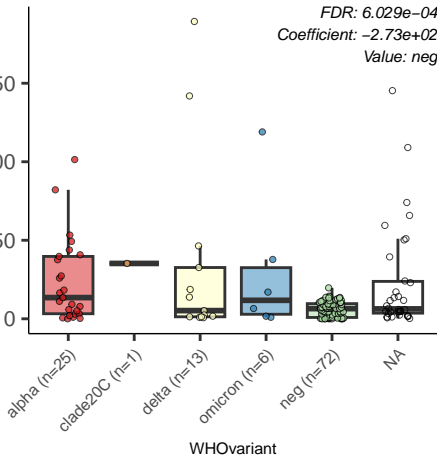






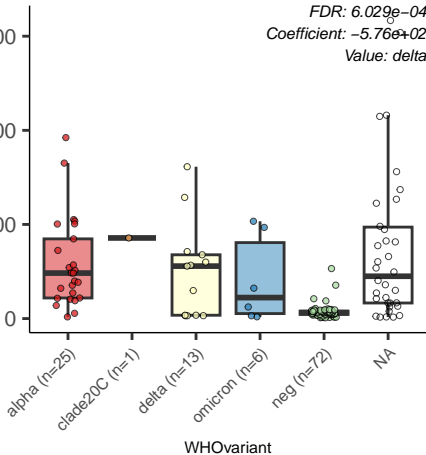
Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococca

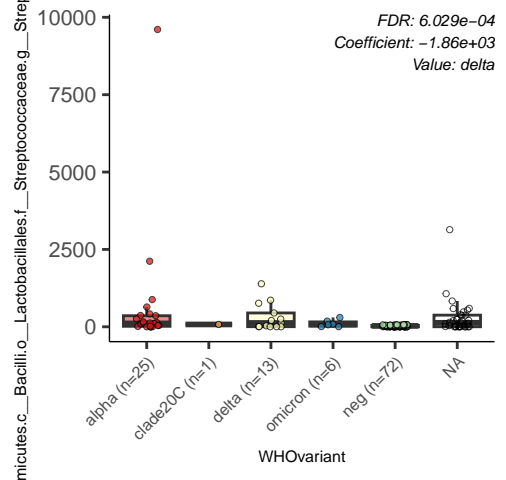
FDR: $6.029e-04$
Coefficient: $-2.73e+02$
Value: neg

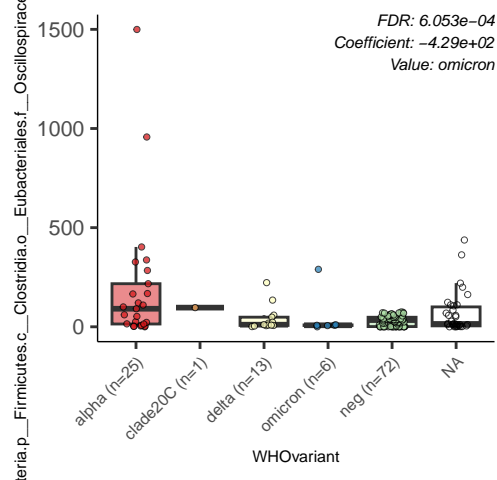


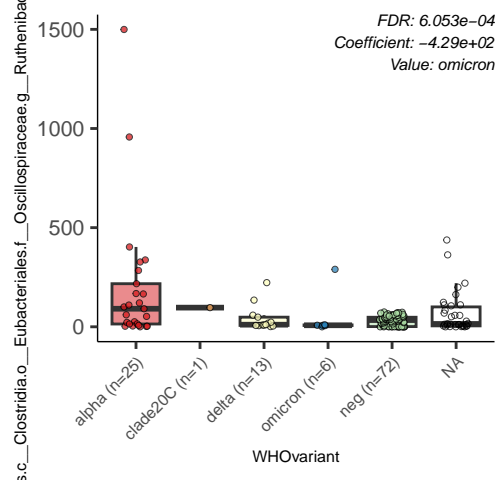
d__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__R

FDR: 6.029×10^{-4}
Coefficient: -5.76×10^2
Value: delta







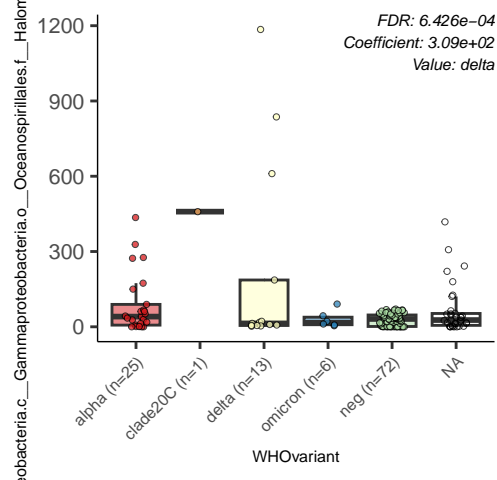


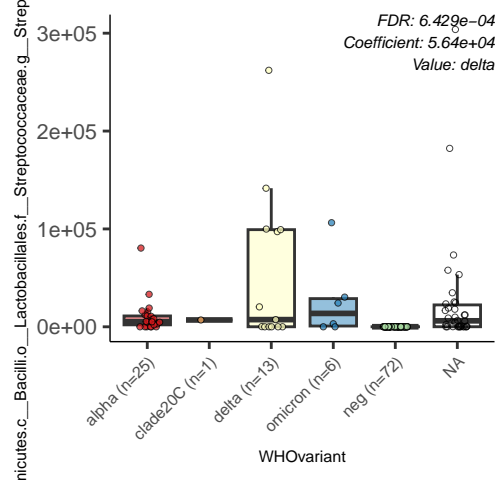
Value: omicron

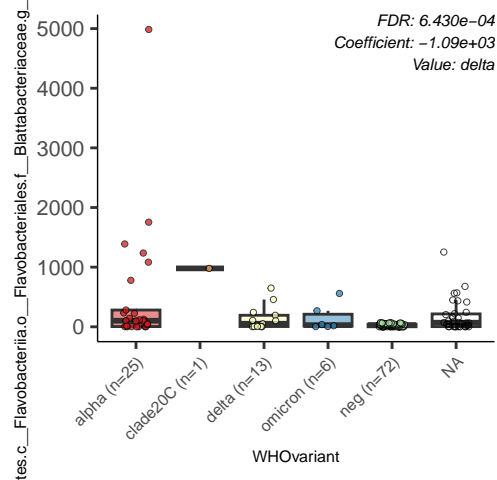


NA

WHOvariant

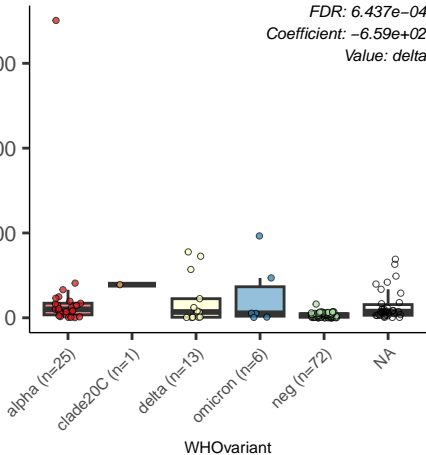






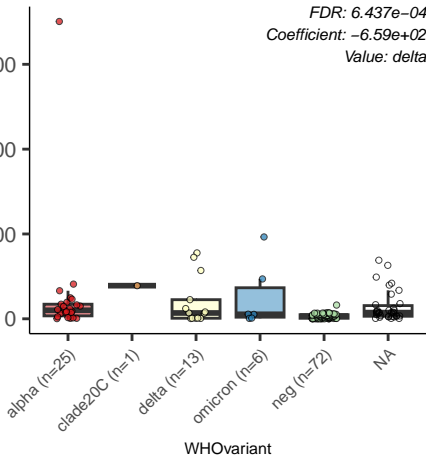
d__Bacteria.p__Verrucomicrobia.c__Verrucomicrobia

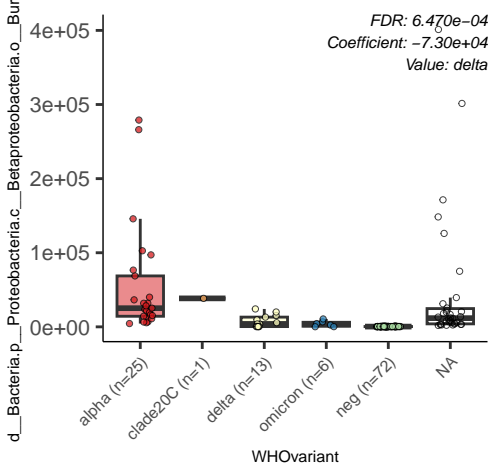
FDR: $6.437e-04$
Coefficient: $-6.59e+02$
Value: delta



d_Bacteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verru

FDR: $6.437e-04$
Coefficient: $-6.59e+02$
Value: delta





rmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Bu

FDR: $6.479e-04$
Coefficient: $-3.76e+03$
Value: delta

20000

10000

0

alpha (n=25)

clade20C (n=1)

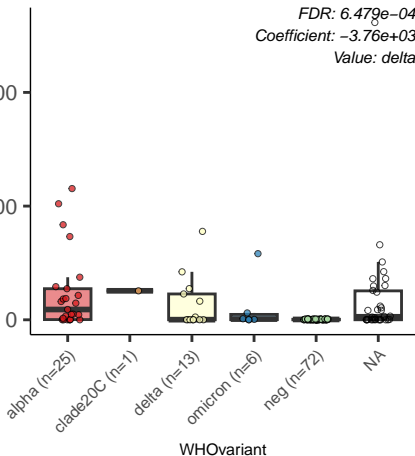
delta (n=13)

omicron (n=6)

neg (n=72)

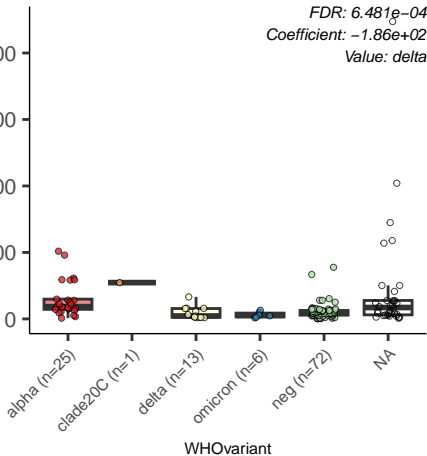
NA

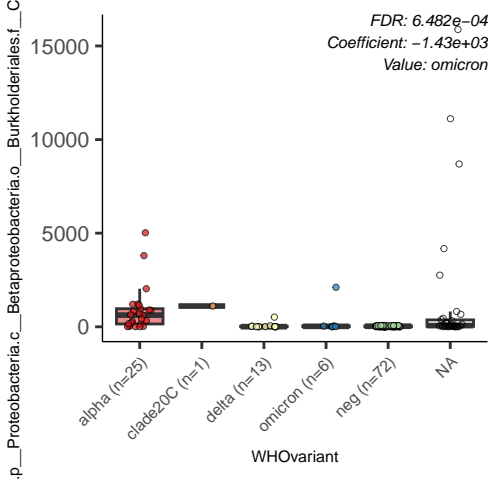
WHOvariant

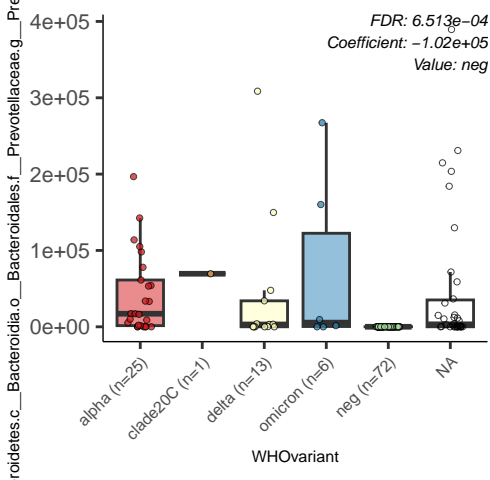


ria.c__Actinomycetia.o__Propionibacteriales.f__Propionibacteriaceae

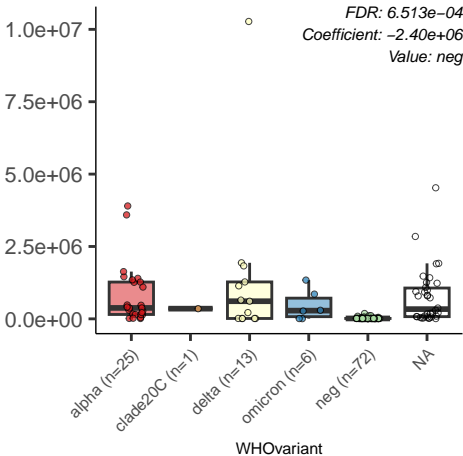
FDR: $6.481e-04$
Coefficient: $-1.86e+02$
Value: delta





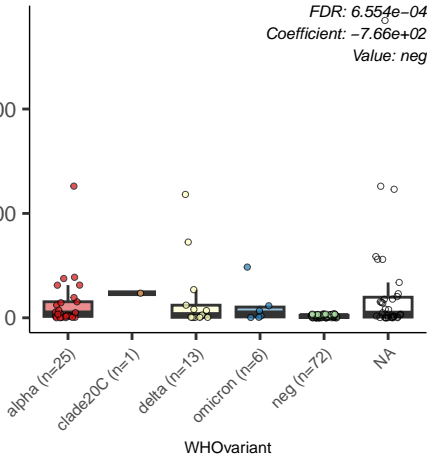


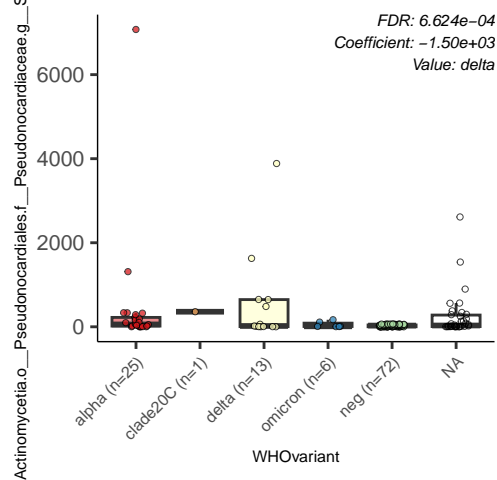
d_Bacteria.p_Actinobacteria



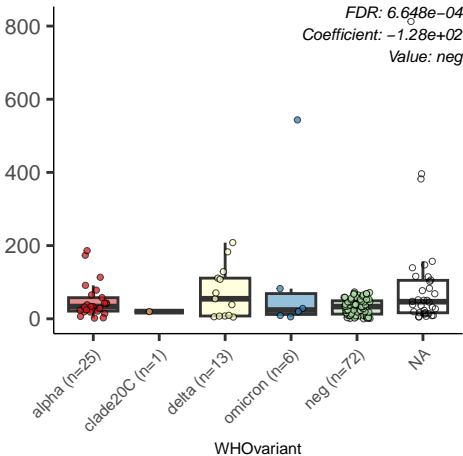
d_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales

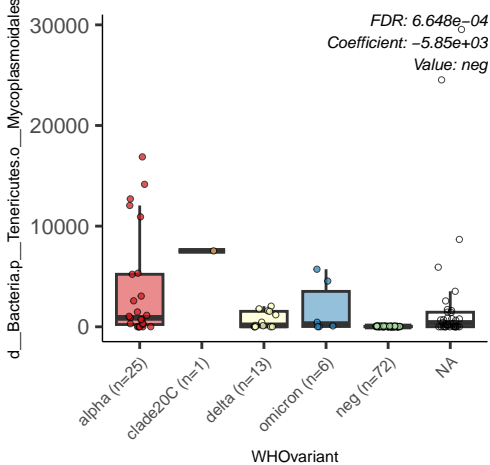
FDR: $6.554e-04$
Coefficient: $-7.66e+02$
Value: neg





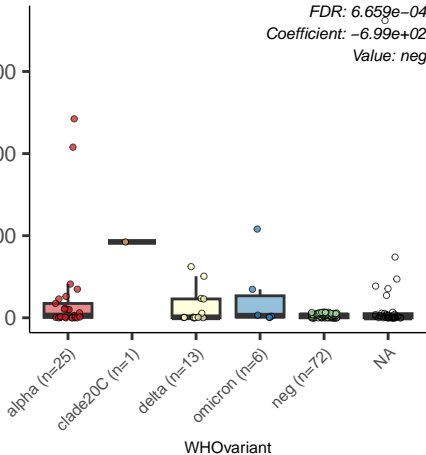
bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicro

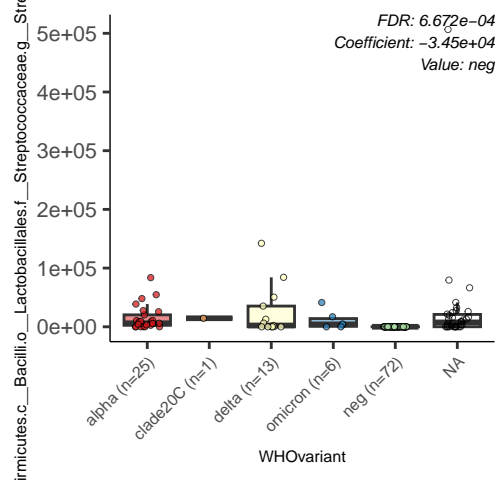


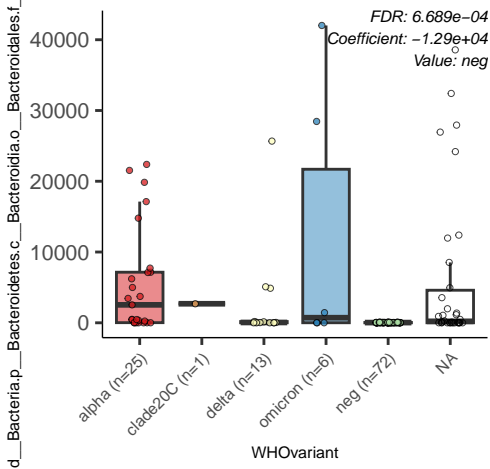


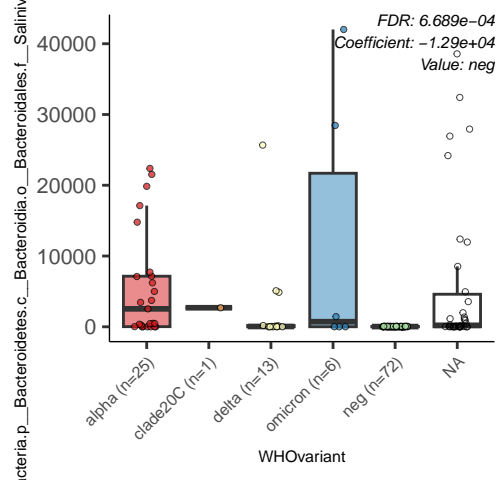
einococcus.Thermus.c_Deinococci.o_Thermales.f_Thermaceae

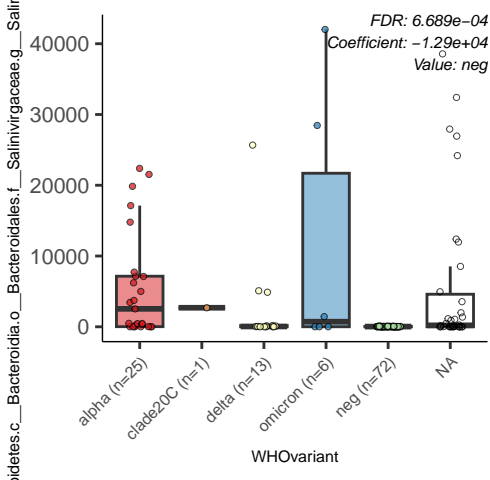
FDR: $6.659e-04$
Coefficient: $-6.99e+02$
Value: neg





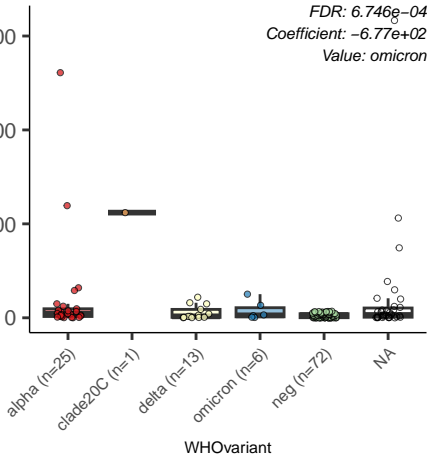






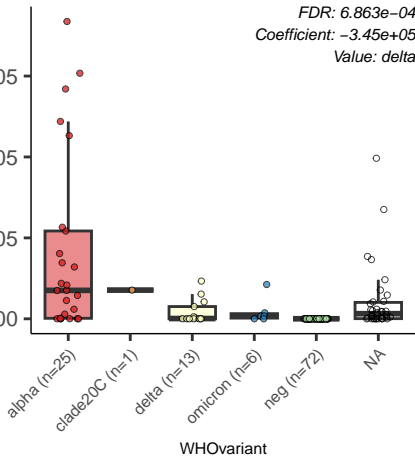
p__Bacteroidetes.c__Chitinophagia.o__Chitinophagales.f__Chitinop

FDR: $6.746e-04$
Coefficient: $-6.77e+02$
Value: omicron

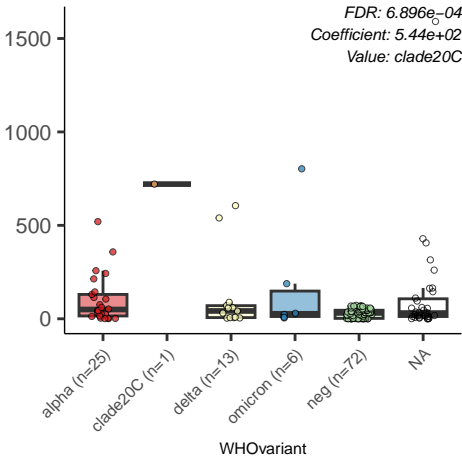


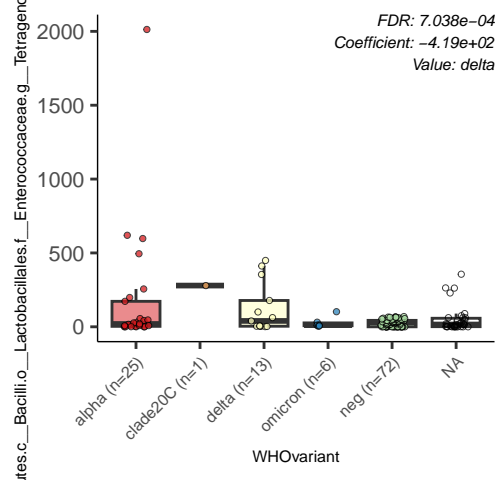
__Bacteria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f

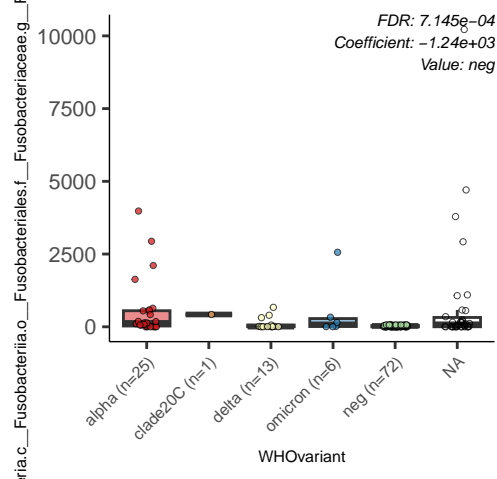
FDR: 6.863e-04
Coefficient: -3.45e+05
Value: delta



d_Bacteria.p__Spirochaetes.c__Spirochaetia.o__Spirochaetales.f

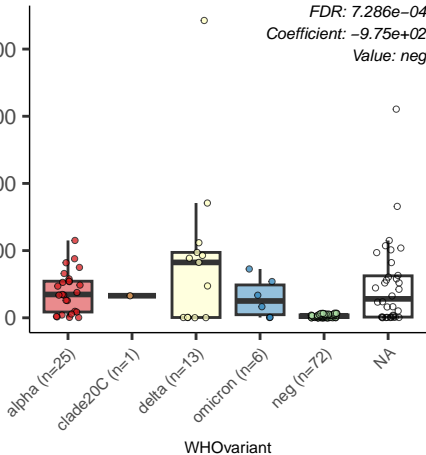




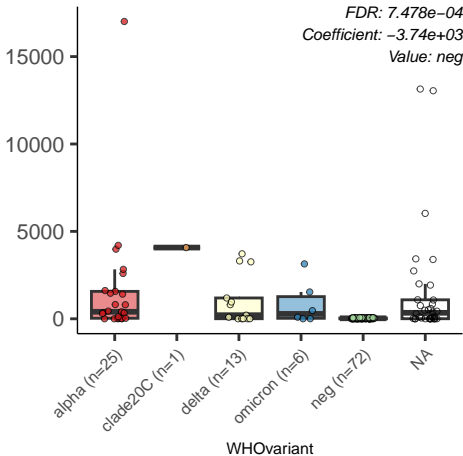


eria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bacil

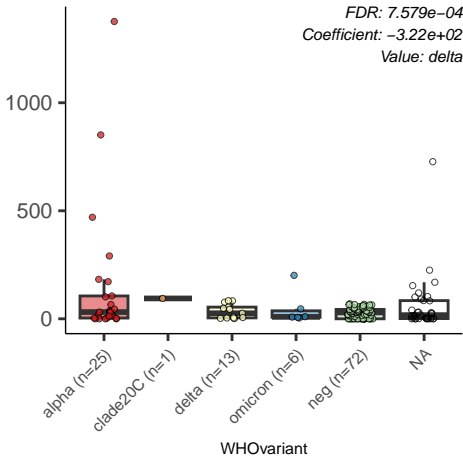
FDR: $7.286e-04$
Coefficient: $-9.75e+02$
Value: neg

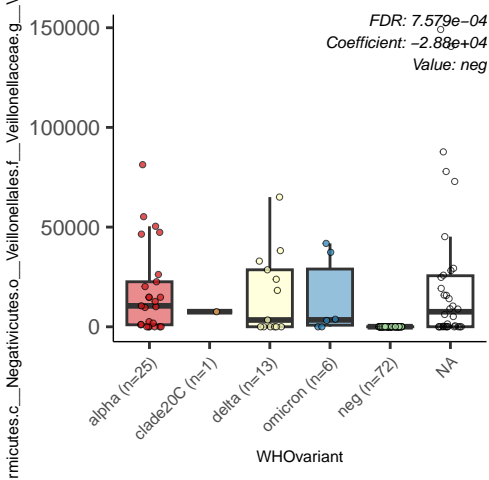


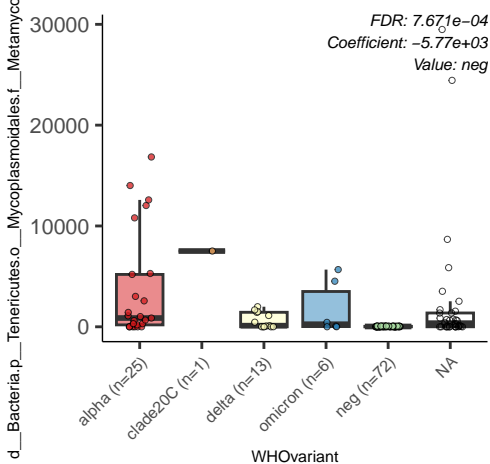
p_Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipe



Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo

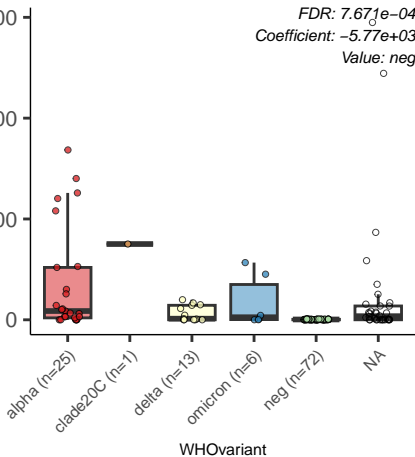






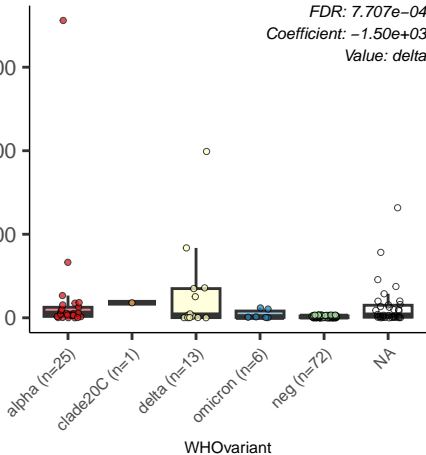
eria.p__Tenericutes.o__Mycoplasmoidales.f__Metamycoplasmatac

FDR: $7.671e-04$
Coefficient: $-5.77e+03$
Value: neg

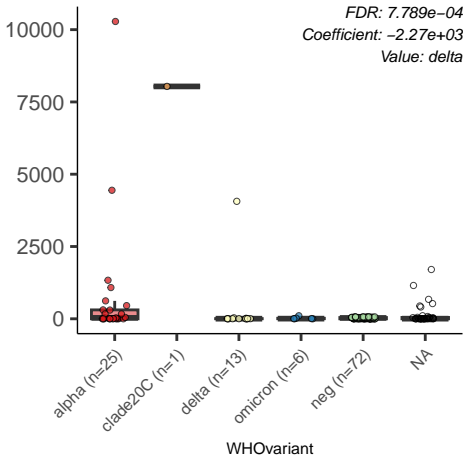


Actinobacteria.c__Actinomycetia.o__Pseudonocardiales.f__Pseudono

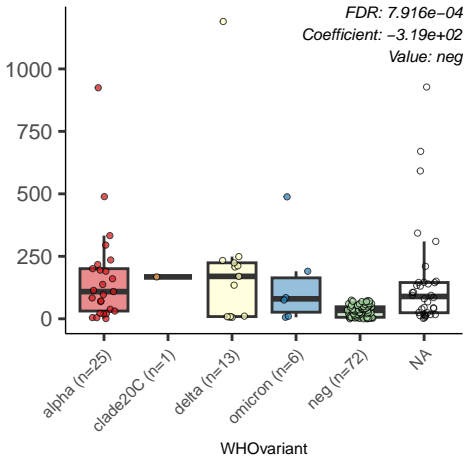
FDR: $7.707e-04$
Coefficient: $-1.50e+03$
Value: delta



omyces.c__Planctomycetia.o__Planctomycetales.f__Planctomycet

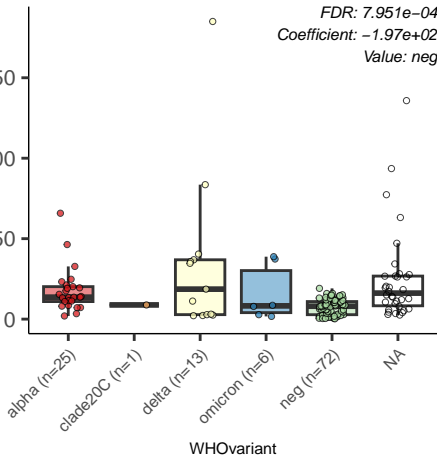


micutes.c__Clostridia.o__Thermoanaerobacterales.f__Thermoanaer

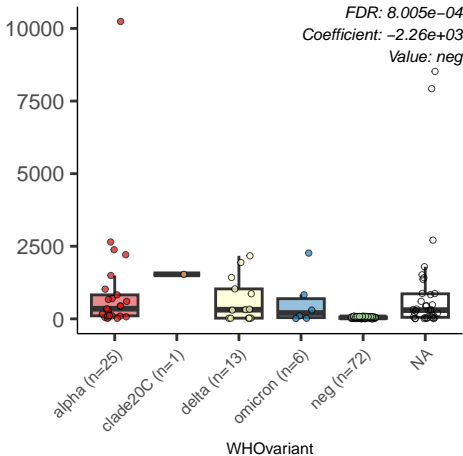


bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromat

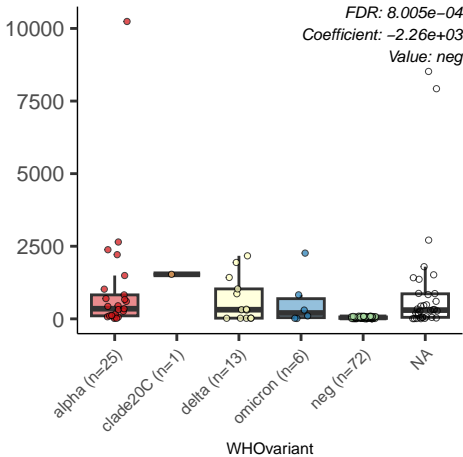
FDR: 7.951e-04
Coefficient: -1.97e+02
Value: neg



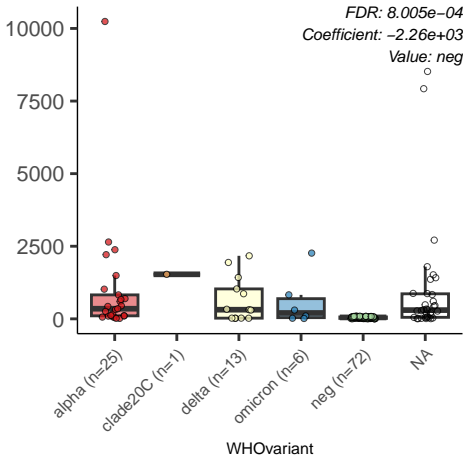
d__Bacteria.p__Cyanobacteria.c__Gloeobacteria

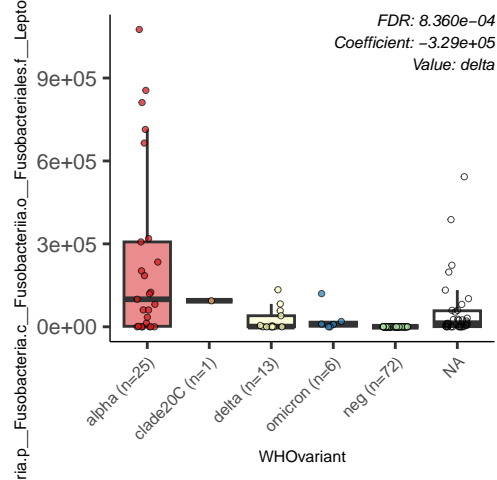


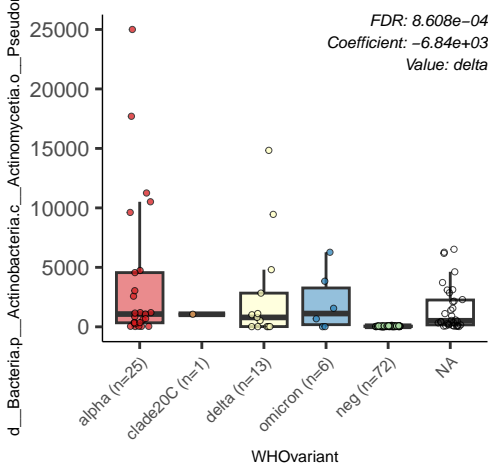
d__Bacteria.p__Cyanobacteria.c__Gloeobacteria.o__Gloeobacter



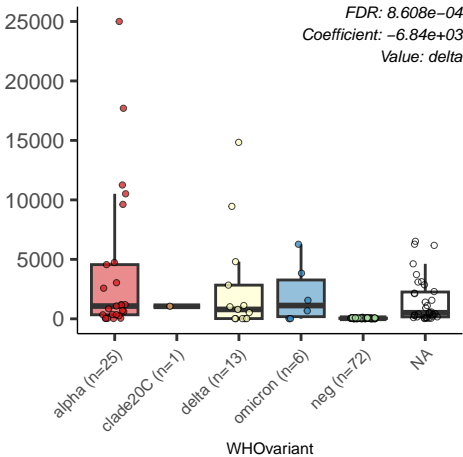
Bacteria.p__Cyanobacteria.c__Gloeobacteria.o__Gloeobacterales.f.



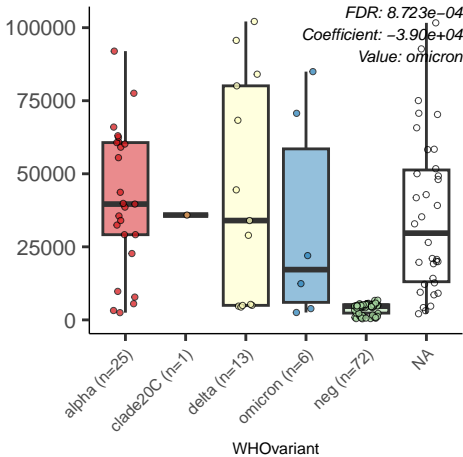




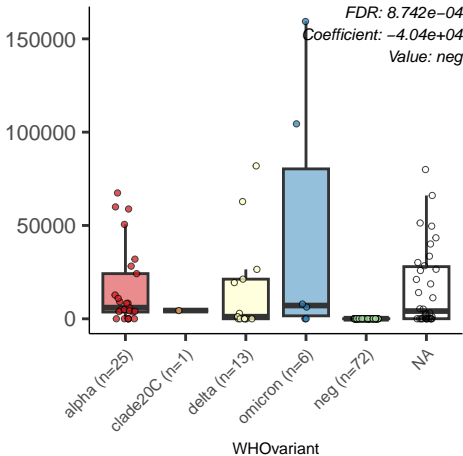
acteria.p_Actinobacteria.c_Actinomycetia.o_Pseudonocardiales.f



d_Bacteria.p__Proteobacteria.c__Alphaproteobacte



ria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae.g__F



d_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Plancto

FDR: $8.908e-04$
Coefficient: $-2.83e+03$
Value: delta

10000

5000

0

alpha (n=25)

clade20C (n=1)

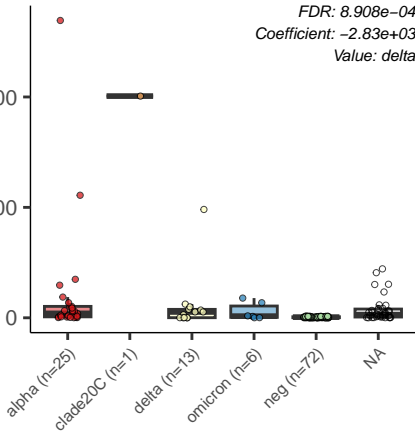
delta (n=13)

omicron (n=6)

neg (n=72)

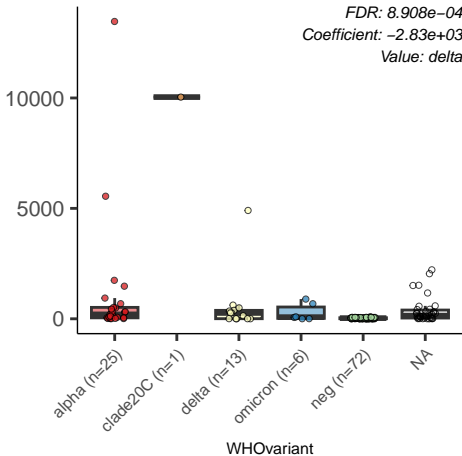
NA

WHOvariant

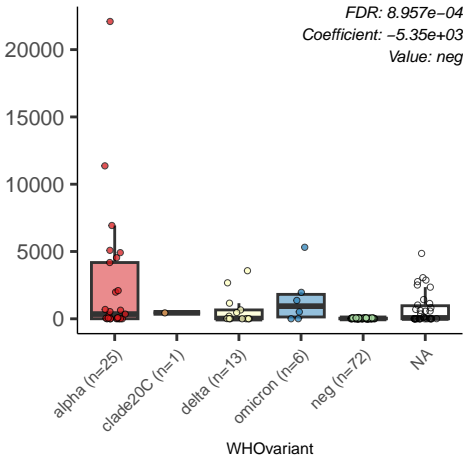


bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetales

FDR: $8.908e-04$
Coefficient: $-2.83e+03$
Value: delta

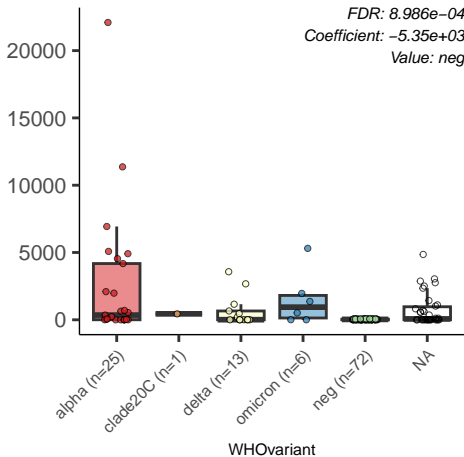


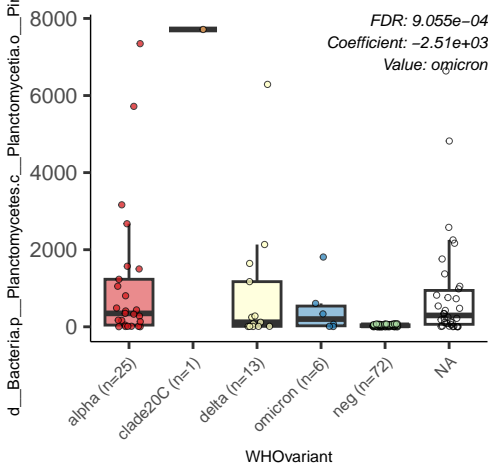
ia.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Microb



bacteria.c_Actinomycetia.o_Micrococcales.f_Microbacteriaceae.g

FDR: $8.986e-04$
Coefficient: $-5.35e+03$
Value: neg



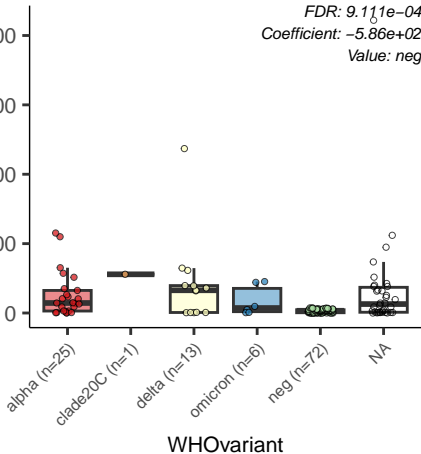


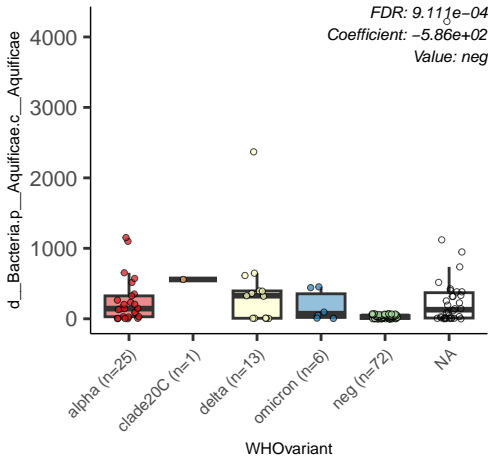
d_Bacteria.p_Aquificae

FDR: $9.111e-04$

Coefficient: $-5.86e+02$

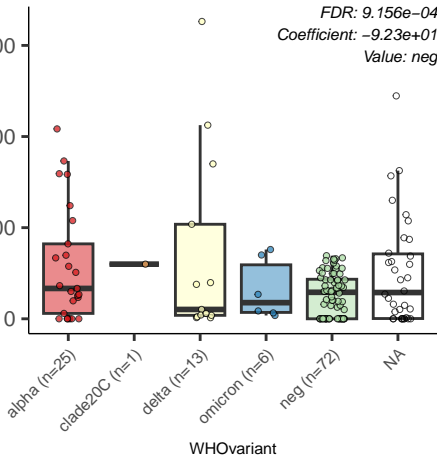
Value: neg



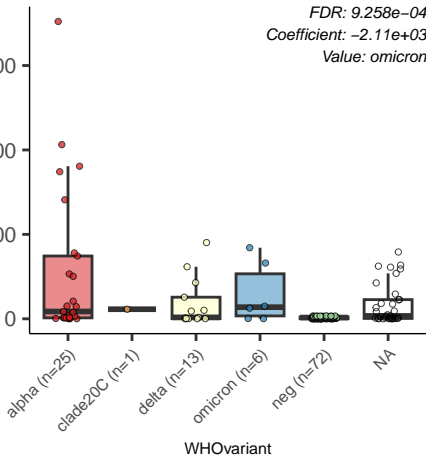


cutescutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strepto

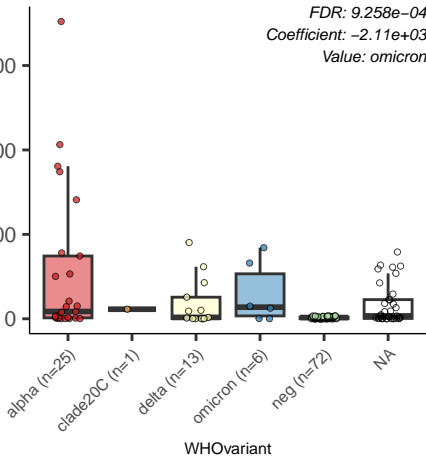
FDR: $9.156e-04$
Coefficient: $-9.23e+01$
Value: neg



FDR: $9.258e-04$
Coefficient: $-2.11e+03$
Value: omicron

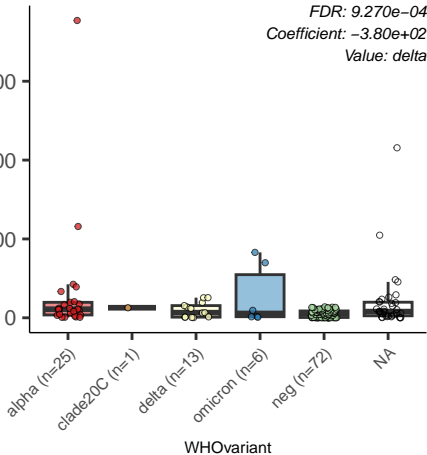


FDR: $9.258e-04$
Coefficient: $-2.11e+03$
Value: omicron

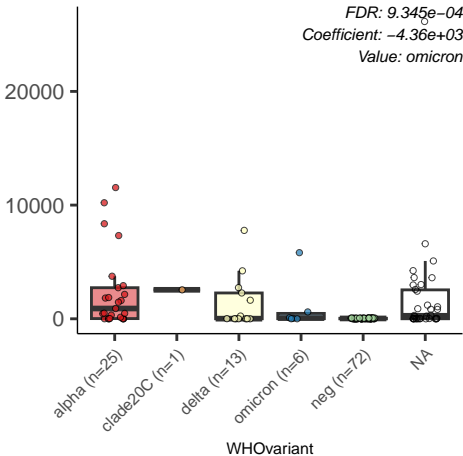


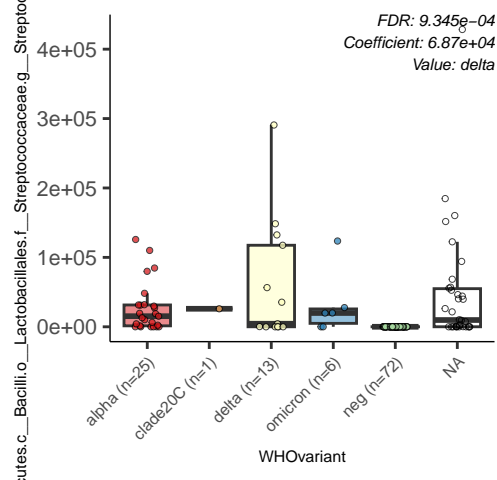
d_Bacteria.p_Cyanobacteria.o_Oscillatoriales.f_Microo

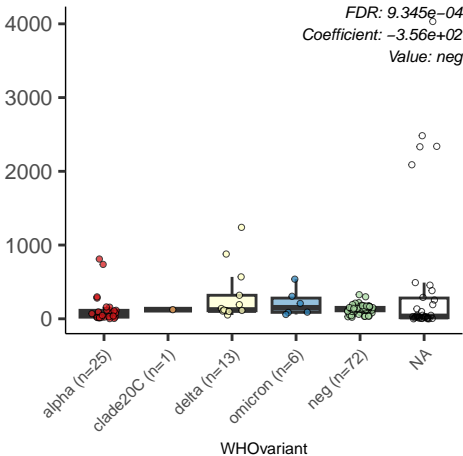
FDR: $9.270e-04$
Coefficient: $-3.80e+02$
Value: delta



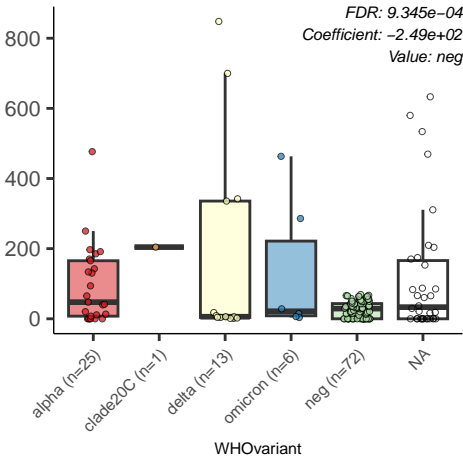
rmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Bu



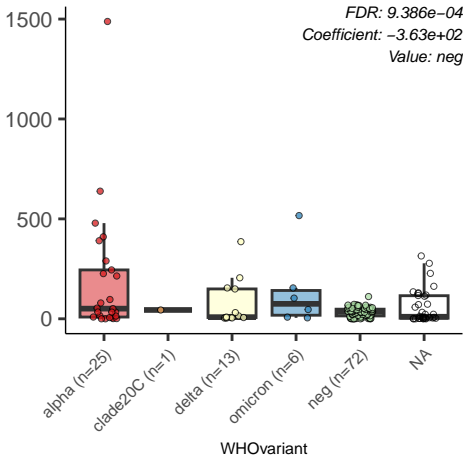




acteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g

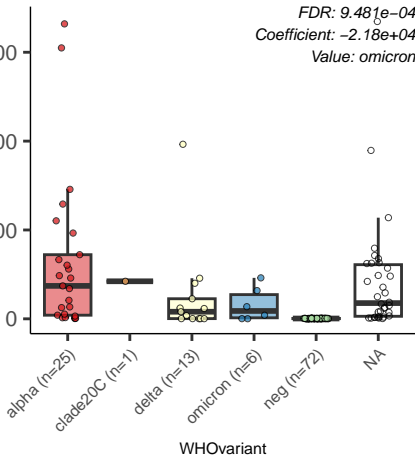


bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

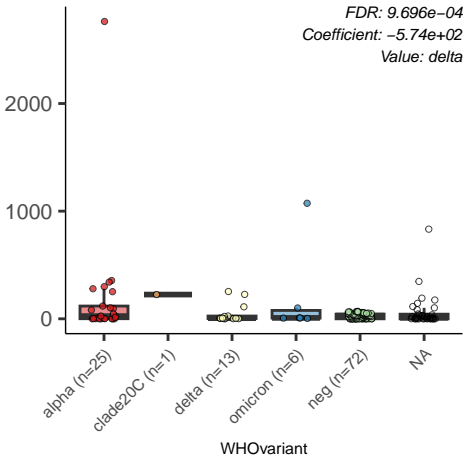


Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales

FDR: $9.481e-04$
Coefficient: $-2.18e+04$
Value: omicron

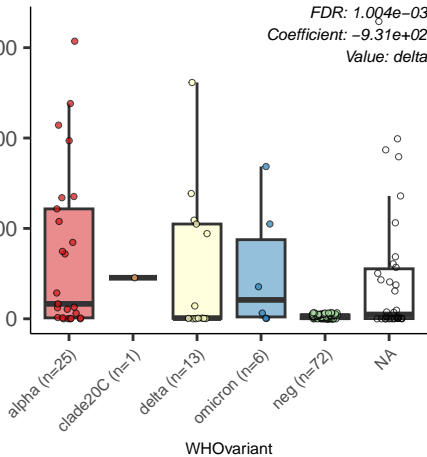


es.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g__Tre

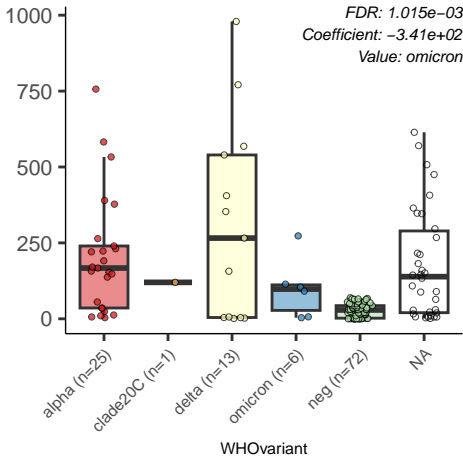


eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira

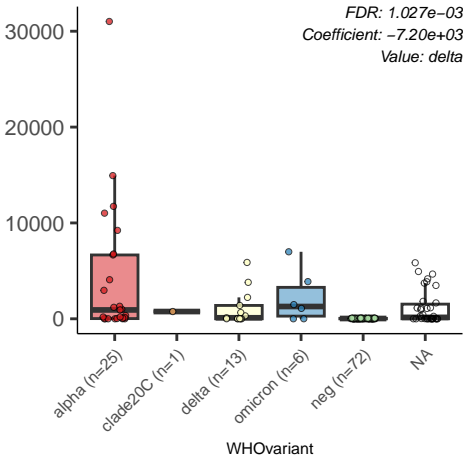
FDR: $1.004e-03$
Coefficient: $-9.31e+02$
Value: delta

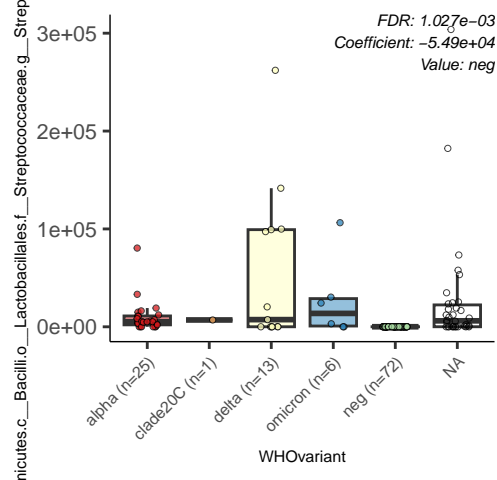


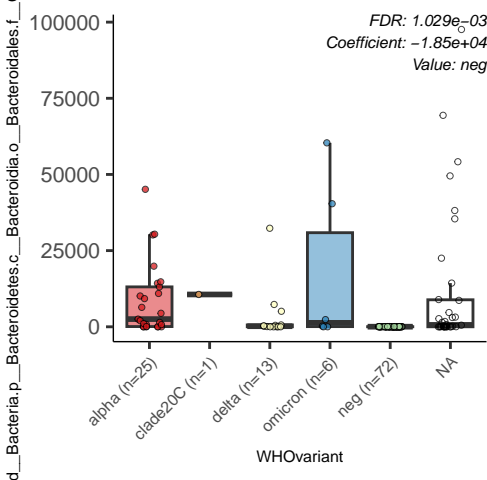
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae

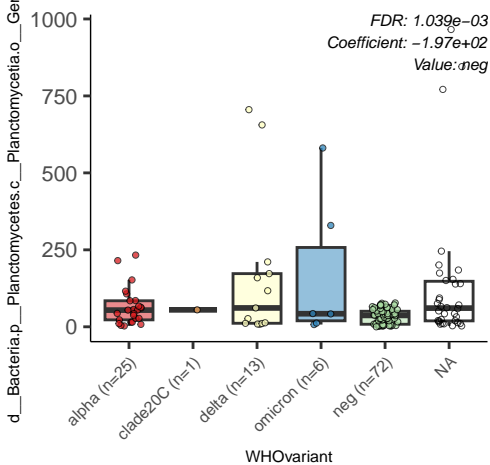


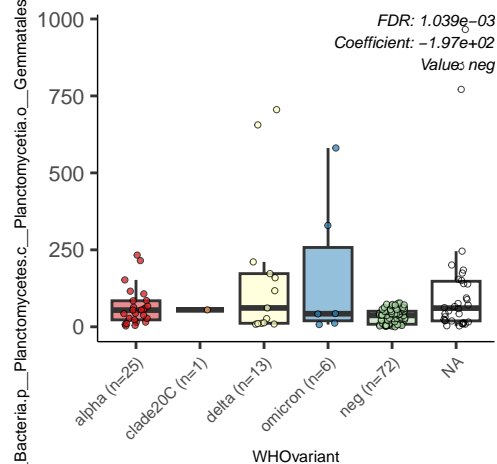
tertia.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae.g

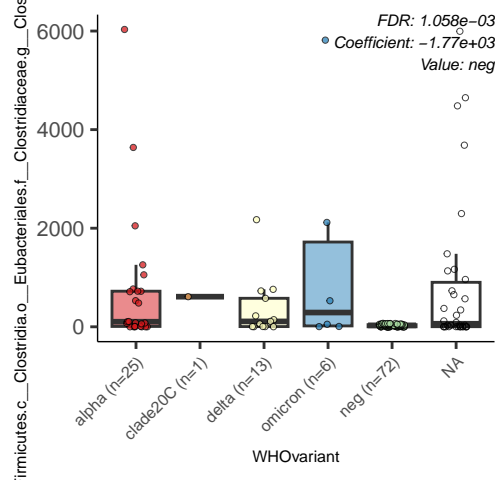




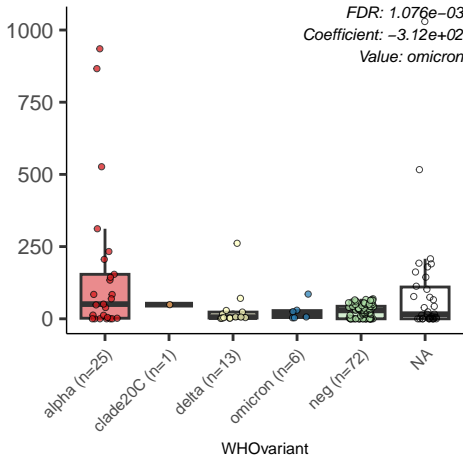


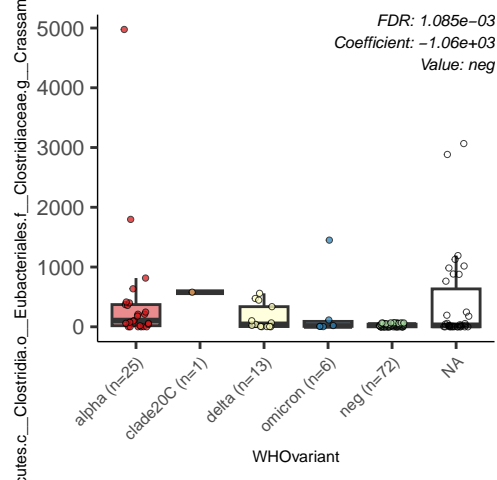


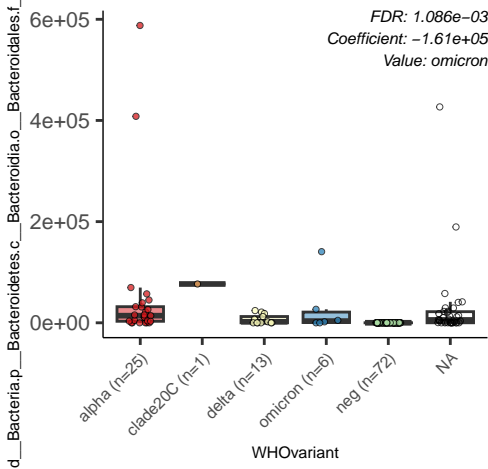


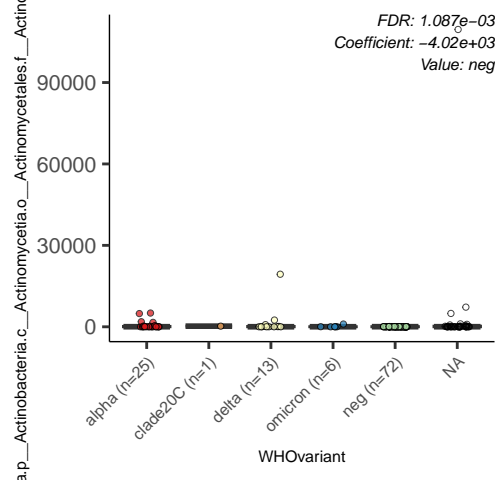


FDR: $1.076e-03$
Coefficient: $-3.12e+02$
Value: omicron



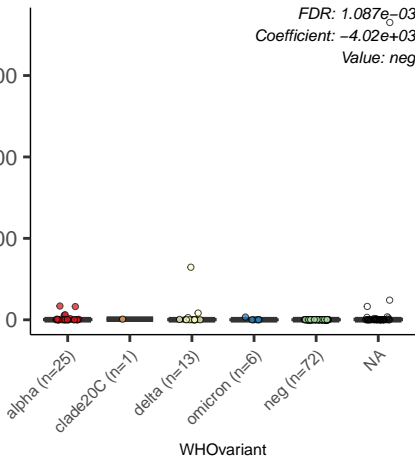






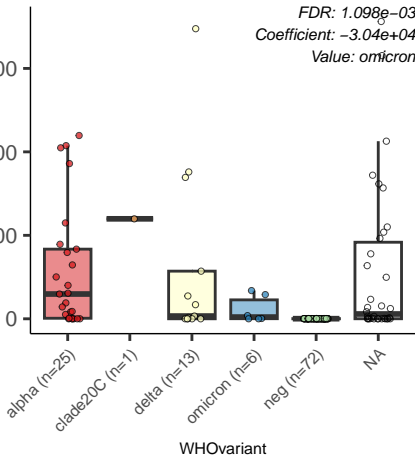
bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

FDR: $1.087e-03$
Coefficient: $-4.02e+03$
Value: neg

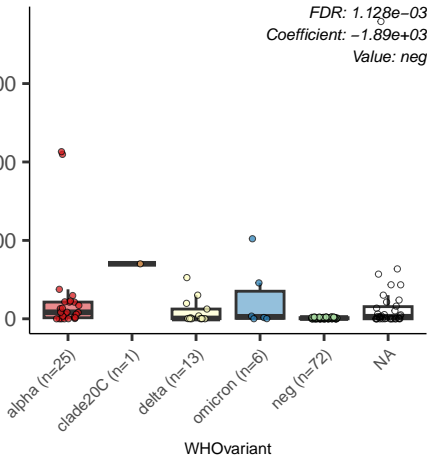


charimonadia.o__Candidatus.Nanosynbacterales.f__Candidatus.Na

FDR: $1.098e-03$
Coefficient: $-3.04e+04$
Value: omicron

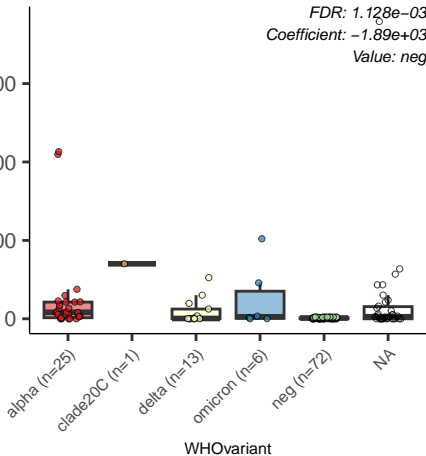


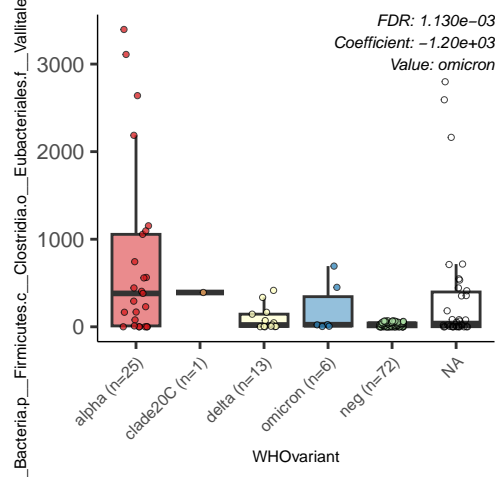
eria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Spirosor



bidetes.c__Cytophagia.o__Cytophagales.f__Spirosomaceae.g__Lea

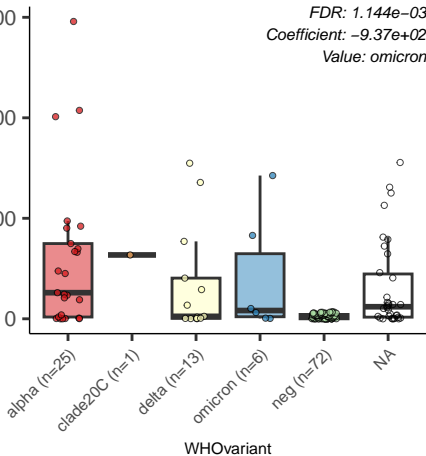
FDR: $1.128e-03$
Coefficient: $-1.89e+03$
Value: neg



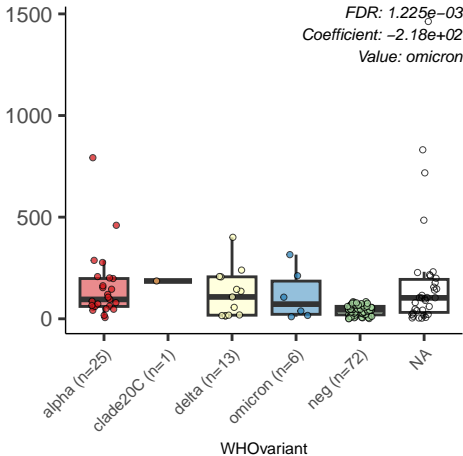


cteria.c__Acidobacteriia.o__Acidobacteriales.f__Acidobacteriaceae.

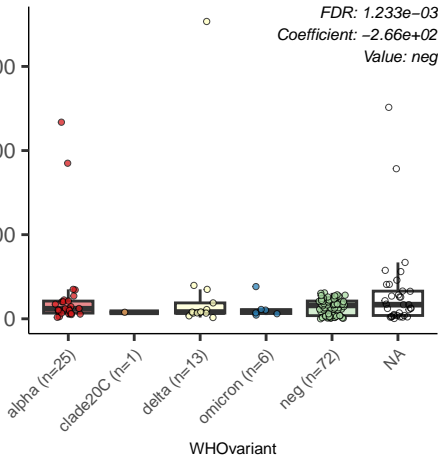
FDR: $1.144e-03$
Coefficient: $-9.37e+02$
Value: omicron

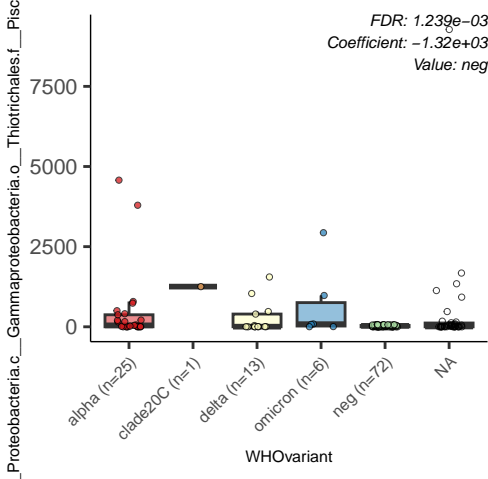


ria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__R

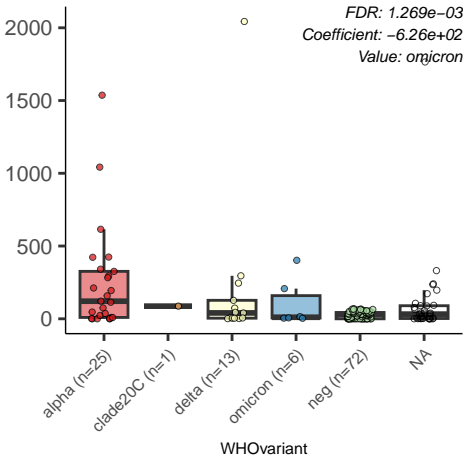


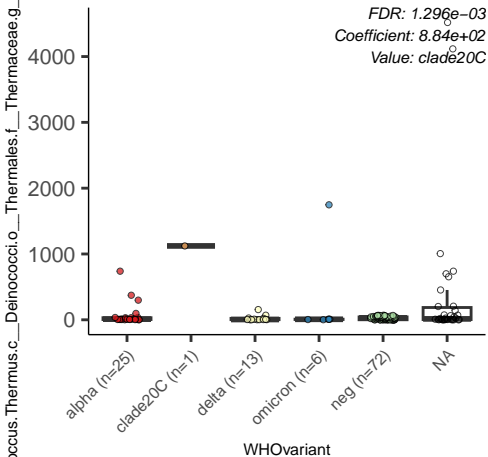
ctinobacteria.c__Actinomycetia.o__Micrococcales.f__Micrococcace





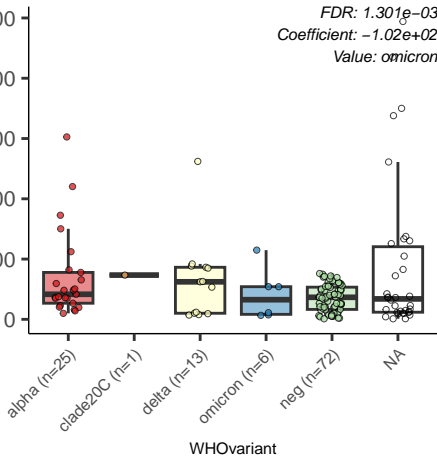
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo





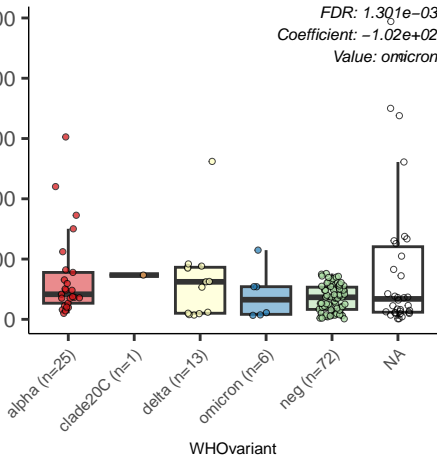
ria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g

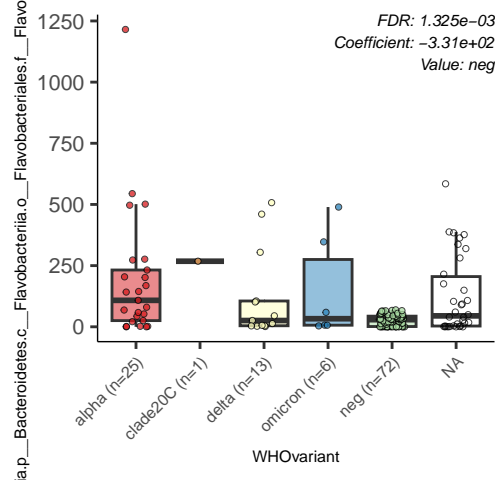
FDR: $1.301e-03$
Coefficient: $-1.02e+02$
Value: omicron

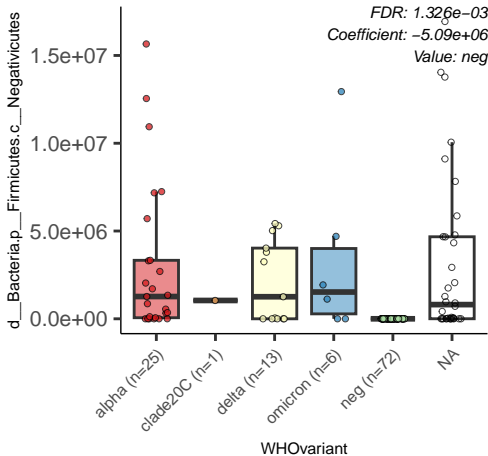


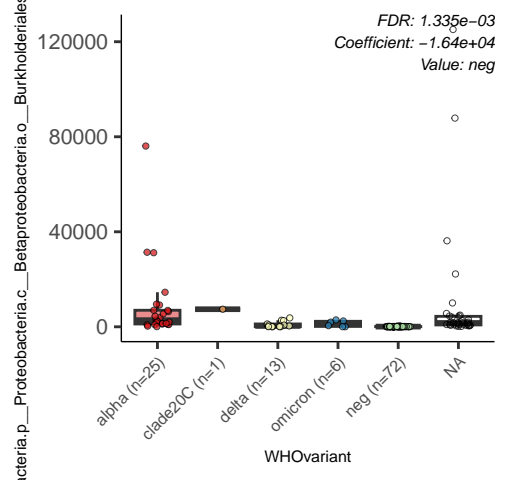
ia.c__Betaproteobacteria.o__Burkholderiales.g__Candidatus.Lichthy

FDR: $1.301e-03$
Coefficient: $-1.02e+02$
Value: omicron



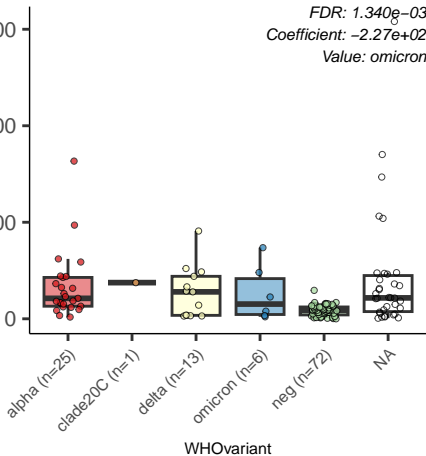




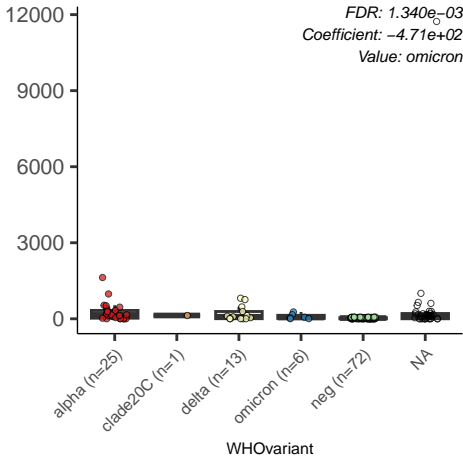


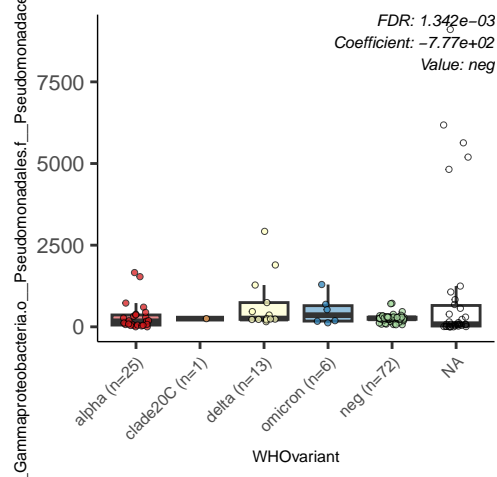
_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsia

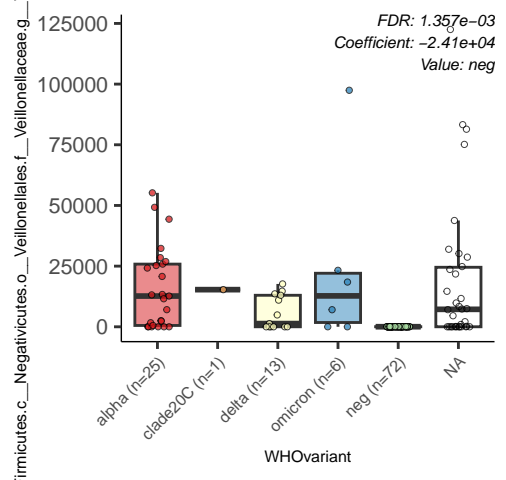
FDR: 1.340e-03
Coefficient: -2.27e+02
Value: omicron

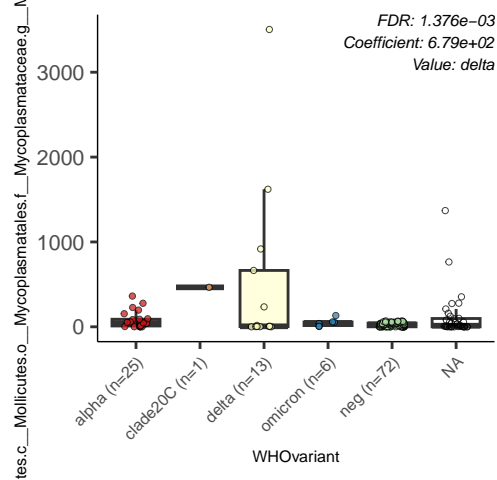


icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strept





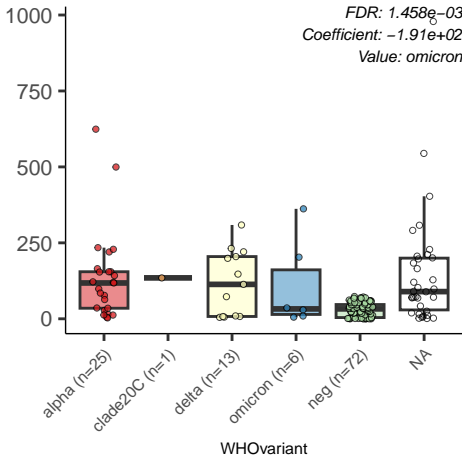




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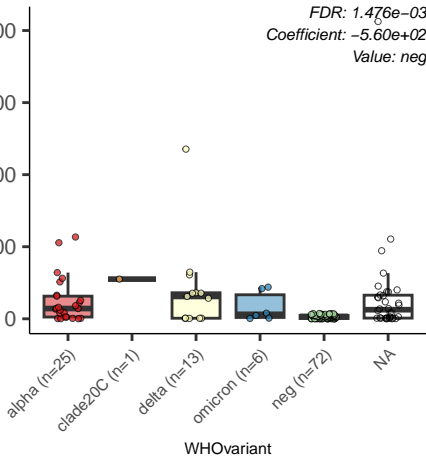
FDR: 1.409e-03
Coefficient: -2.61e+03
Value: delta

FDR: $1.458e-03$
Coefficient: $-1.91e+02$
Value: omicron

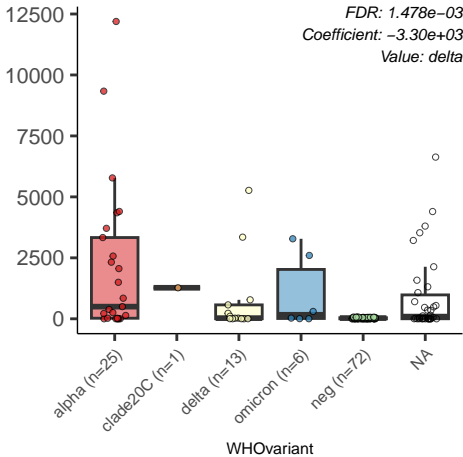


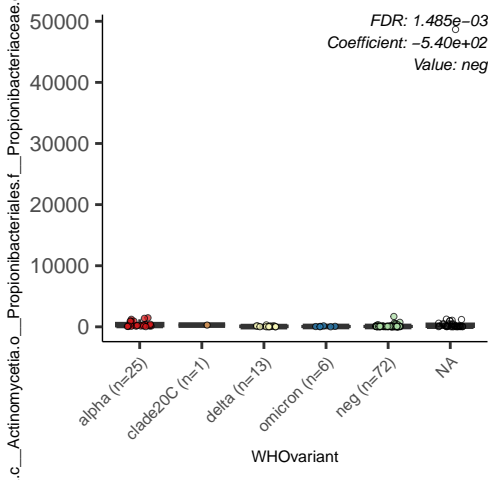
d_Bacteria.p_Aquificae.c_Aquificae.o_Aquificae

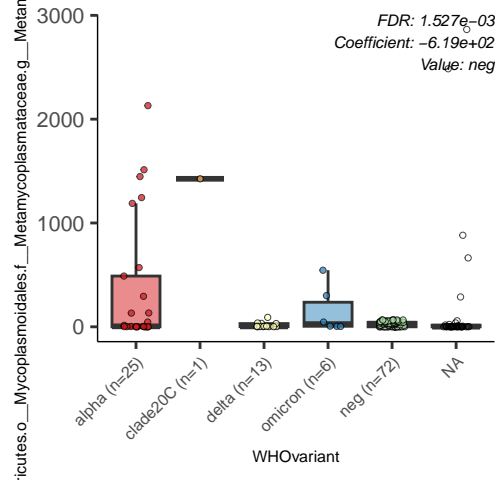
FDR: $1.476e-03$
Coefficient: $-5.60e+02$
Value: neg

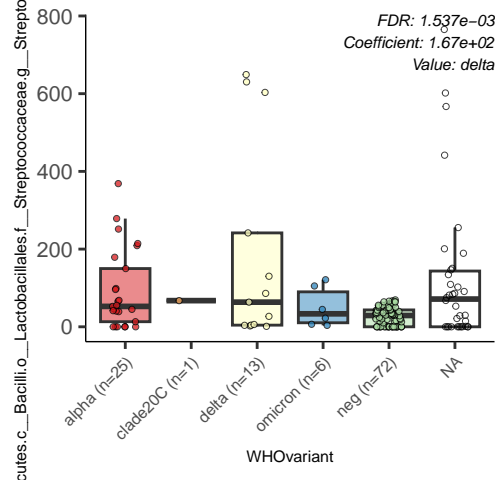


teroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_B

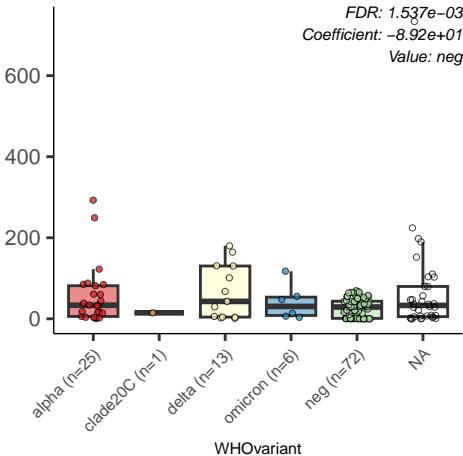








ia.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae.



d_Bacteria.p__Fibrobacteres

FDR: 1.537e-03
Coefficient: -1.30e+02
Value: neg

alpha (n=25)

clade20C (n=1)

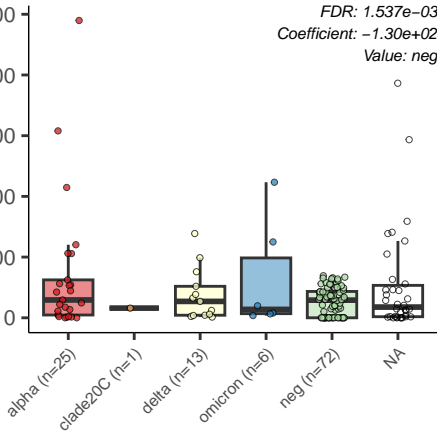
delta (n=13)

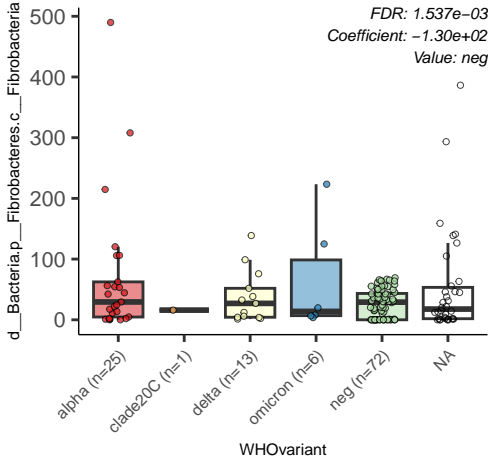
omicron (n=6)

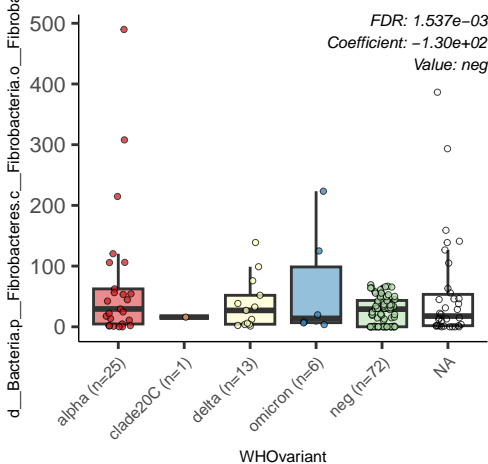
neg (n=72)

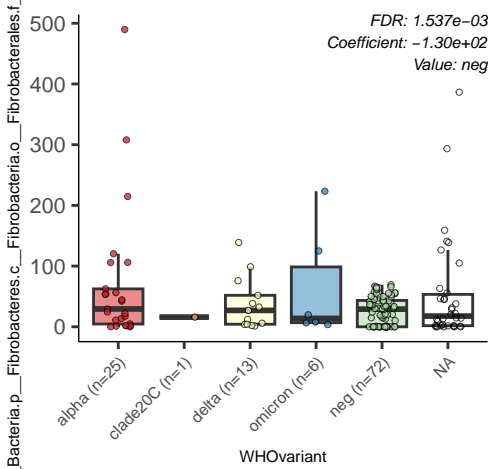
NA

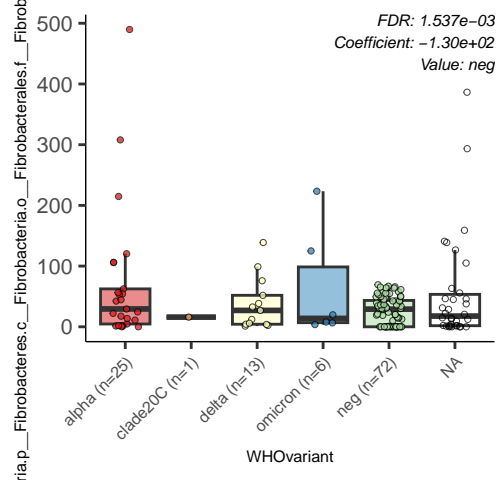
WHOvariant

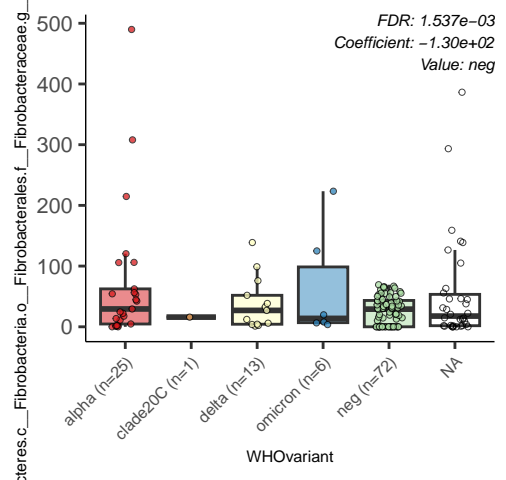


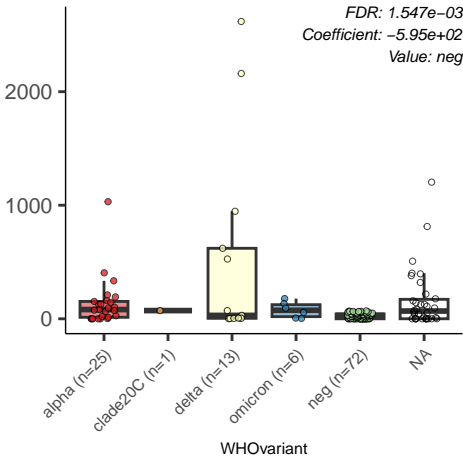


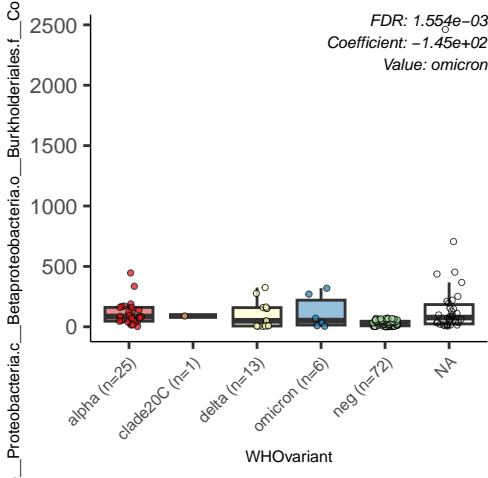






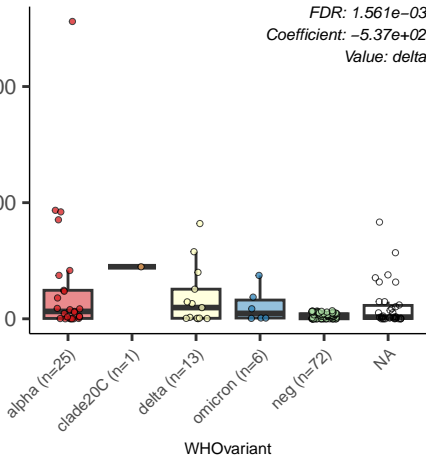






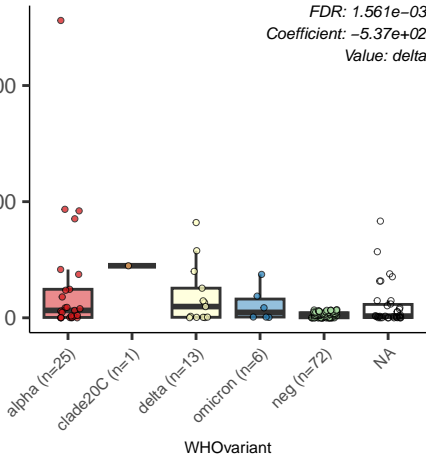
cteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira

FDR: 1.561e-03
Coefficient: -5.37e+02
Value: delta

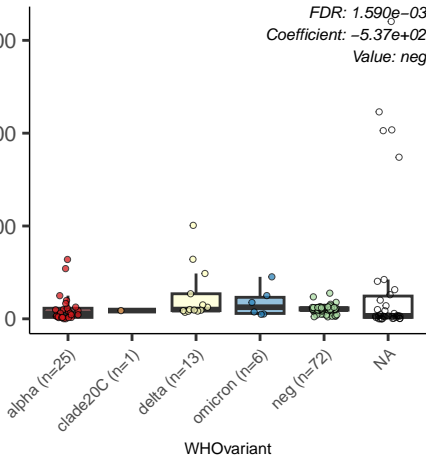


icutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Magne

FDR: 1.561e-03
Coefficient: -5.37e+02
Value: delta

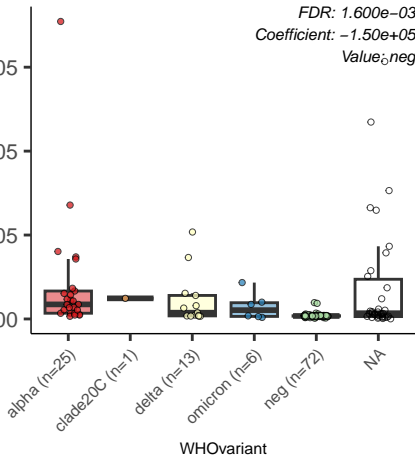


$FDR: 1.590e-03$
 $Coefficient: -5.37e+02$
 $Value: neg$



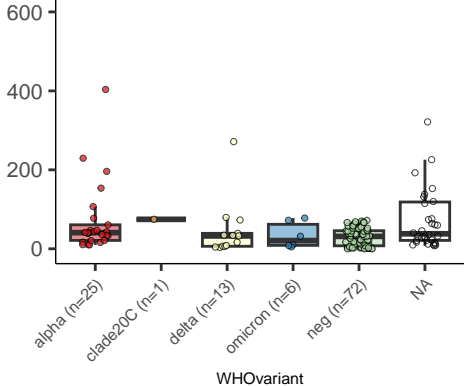
d__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Xa

FDR: $1.600e-03$
Coefficient: $-1.50e+05$
Value_{neg}



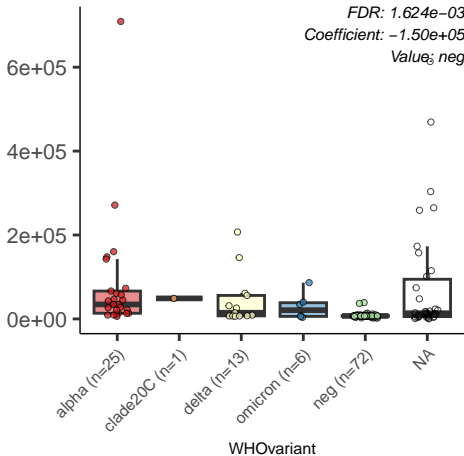
Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Coxiella

FDR: $1.601e-03$
Coefficient: $-9.92e+01$
Value: delta

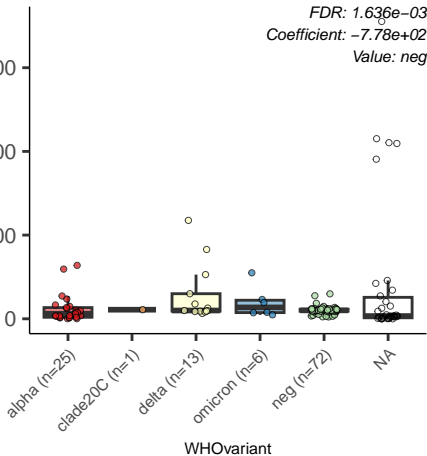


ria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonada

FDR: 1.624e-03
Coefficient: -1.50e+05
Value; neg

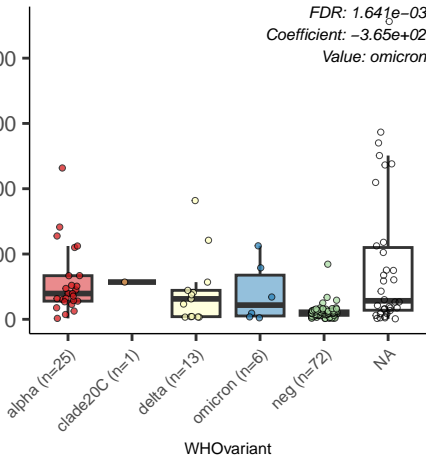


ammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae



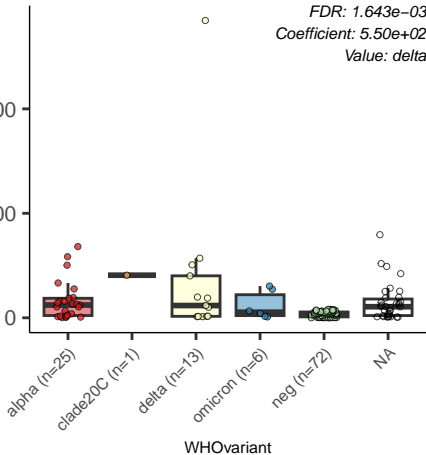
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales

FDR: $1.641e-03$
Coefficient: $-3.65e+02$
Value: omicron



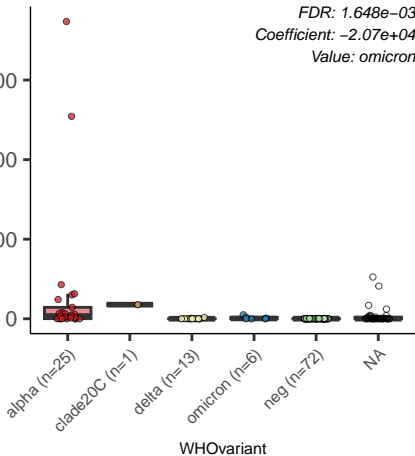
d_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__O

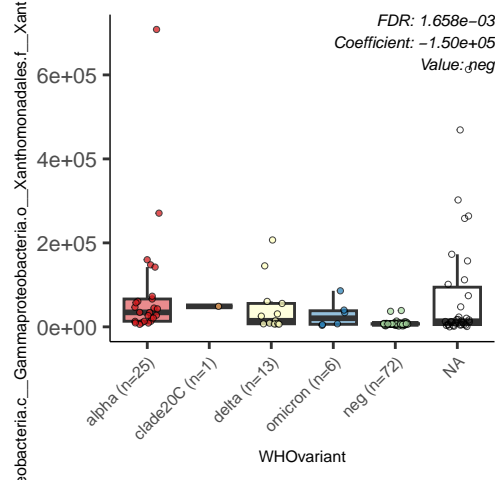
FDR: 1.643e-03
Coefficient: 5.50e+02
Value: delta



__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacter

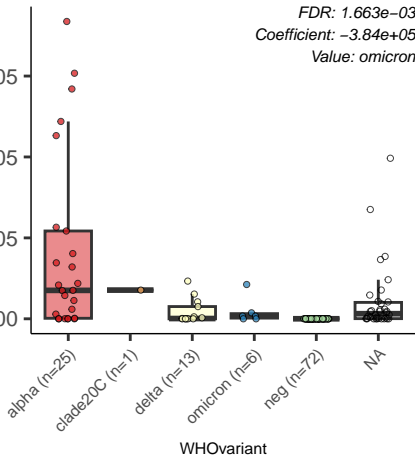
FDR: 1.648e-03
Coefficient: -2.07e+04
Value: omicron



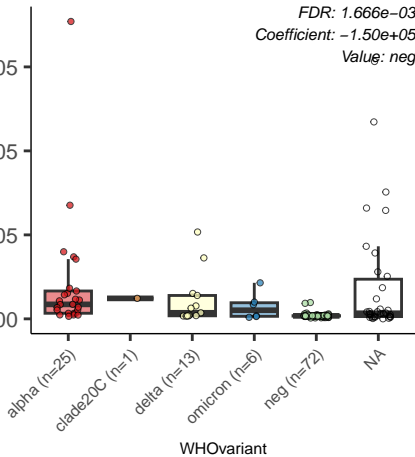


Bacteria.p_Fusobacteria.c_Fusobacteriia.o_Fusobacteriales.f

FDR: 1.663e-03
Coefficient: -3.84e+05
Value: omicron

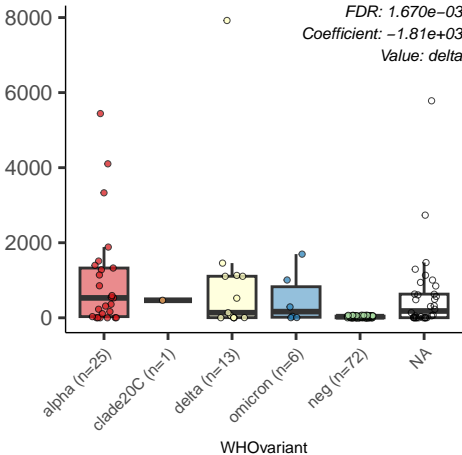


FDR: 1.666e-03
Coefficient: -1.50e+05
Value: neg



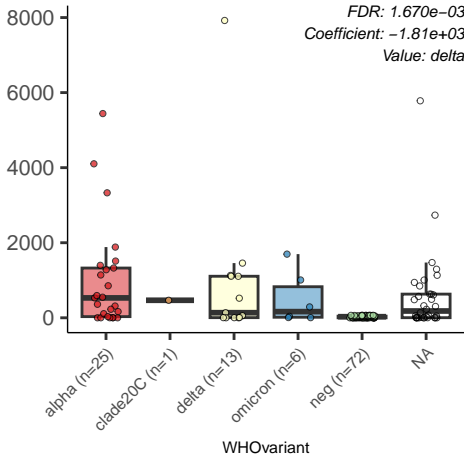
Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnos

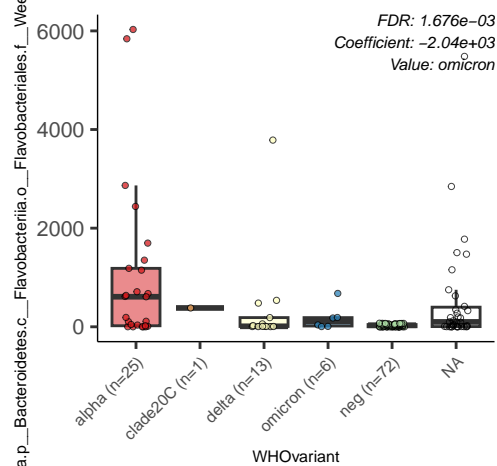
FDR: 1.670e-03
Coefficient: -1.81e+03
Value: delta



Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

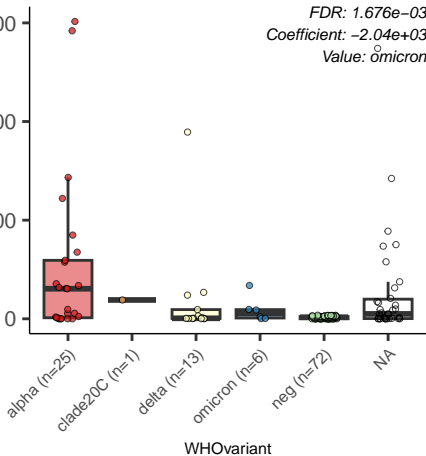
FDR: 1.670e-03
Coefficient: -1.81e+03
Value: delta





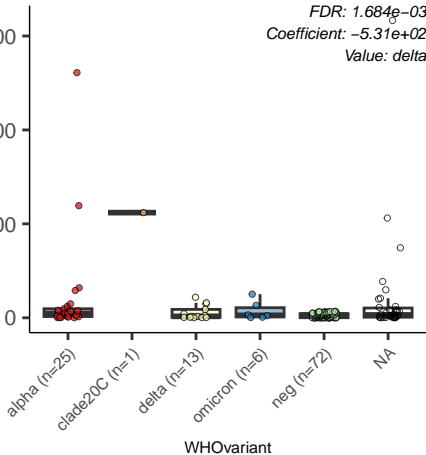
oidetes.c__Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae.g

FDR: $1.676e-03$
Coefficient: $-2.04e+03$
Value: $\hat{\text{omicron}}$

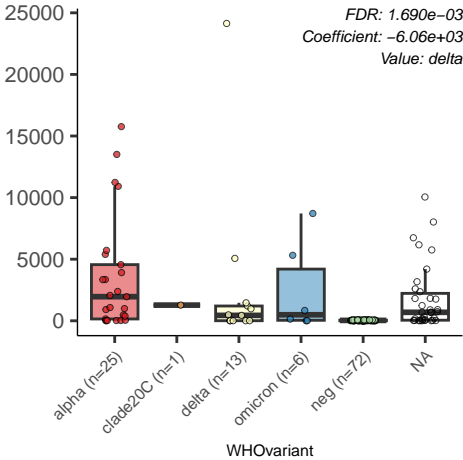


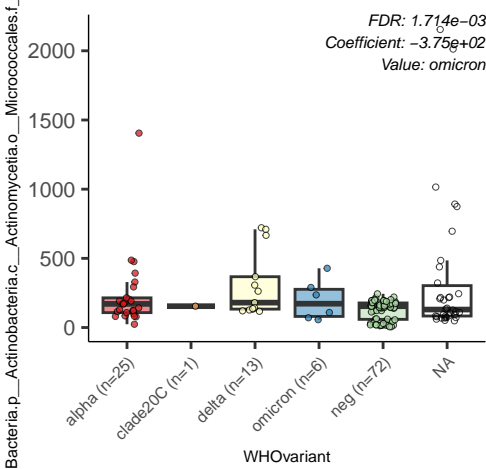
p__Bacteroidetes.c__Chitinophagia.o__Chitinophagales.f__Chitinop

FDR: 1.684e-03
Coefficient: -5.31e+02
Value: delta



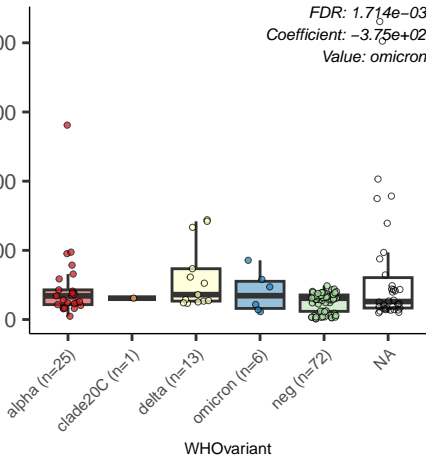
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnos

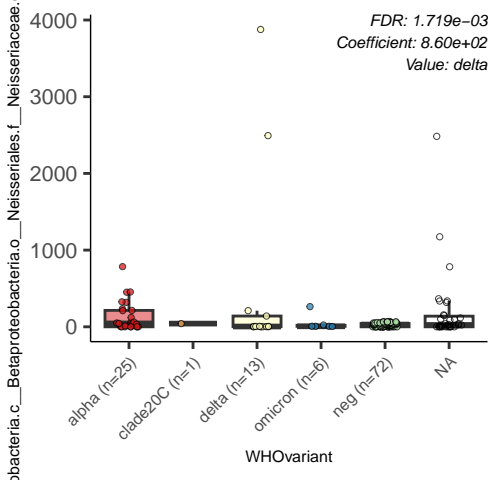


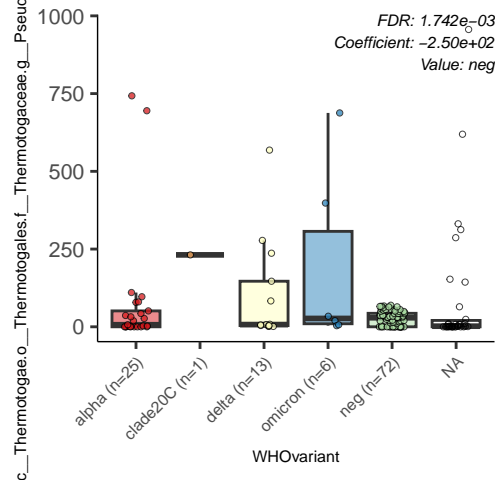


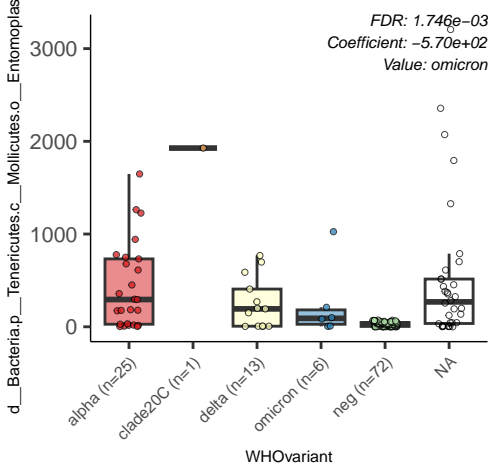
u.p__Actinobacteria.c__Actinomycetia.o__Micrococcales.f__Brevibac

FDR: $1.714e-03$
Coefficient: $-3.75e+02$
Value: omicron

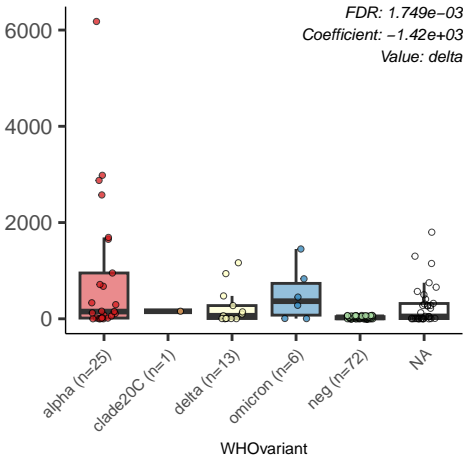


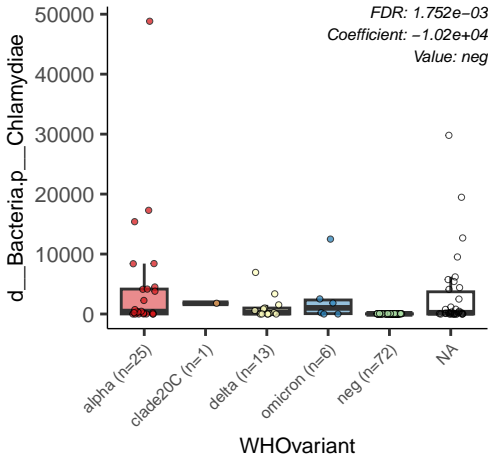


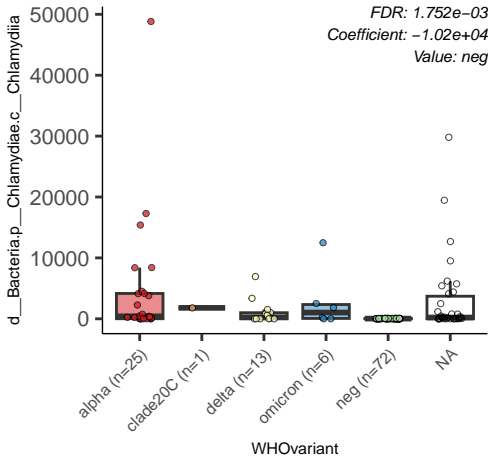


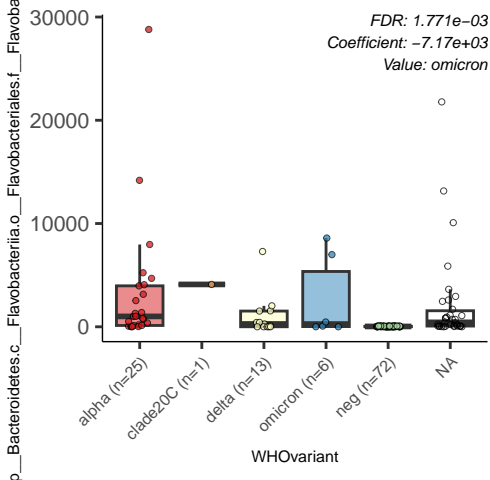


bacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae



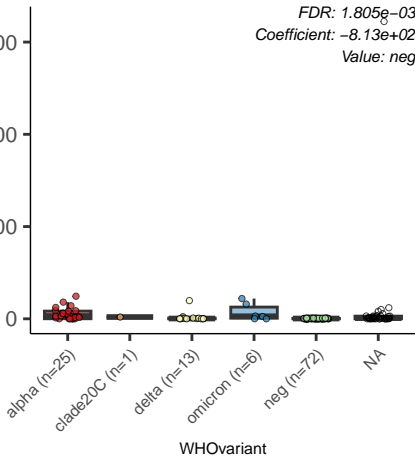






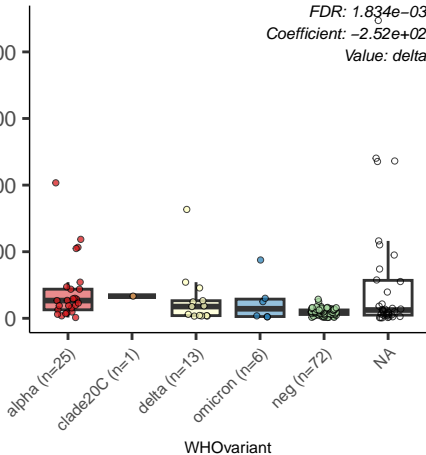
bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae.g

FDR: $1.805e-03$
Coefficient: $-8.13e+02$
Value: neg

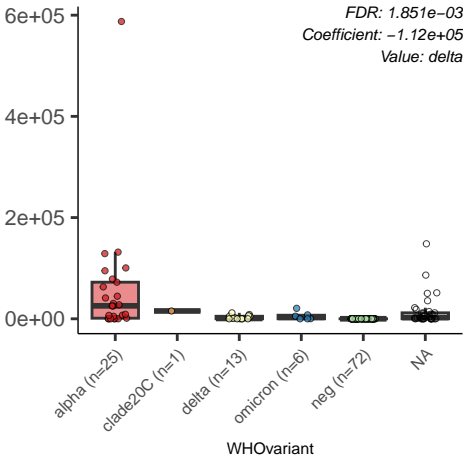


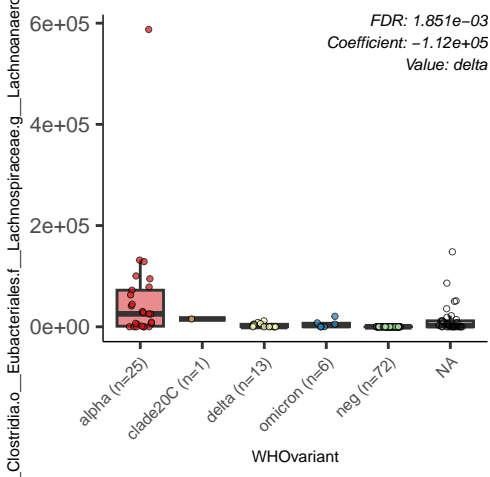
o__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__Anal

FDR: $1.834e-03$
Coefficient: $-2.52e+02$
Value: delta

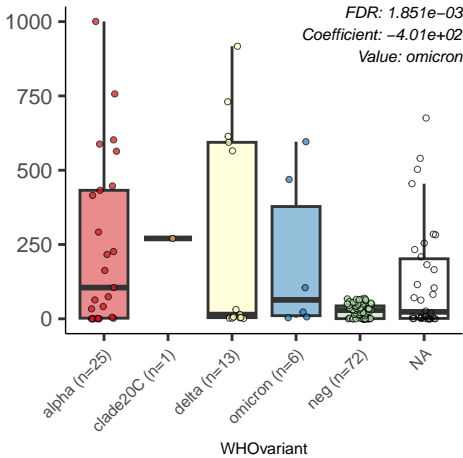


a.p._Firmicutes.c._Clostridia.o._Eubacteriales.f._Lachnospiraceae



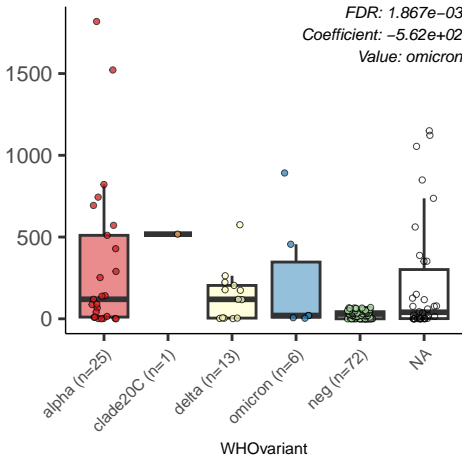


cutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Rumini



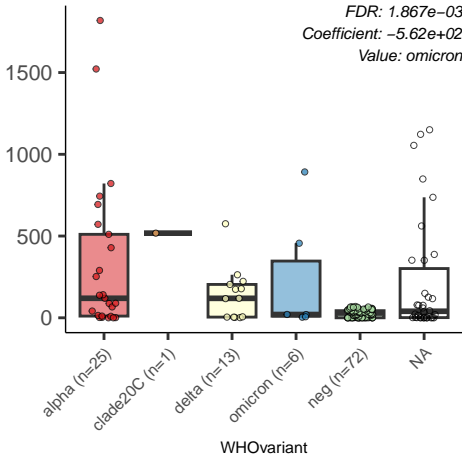
d_Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__

FDR: $1.867e-03$
Coefficient: $-5.62e+02$
Value: omicron

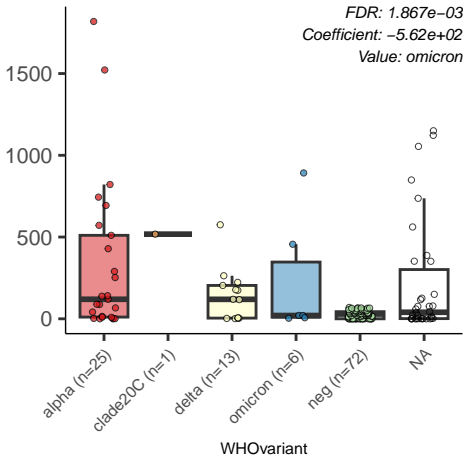


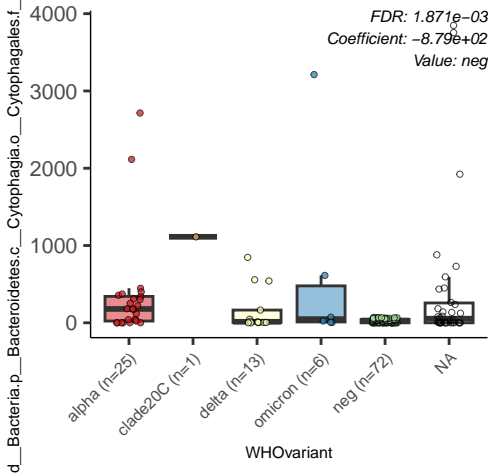
bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Tenu

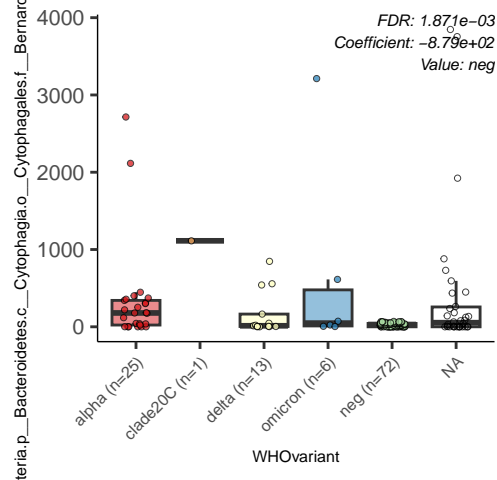
FDR: $1.867e-03$
Coefficient: $-5.62e+02$
Value: omicron

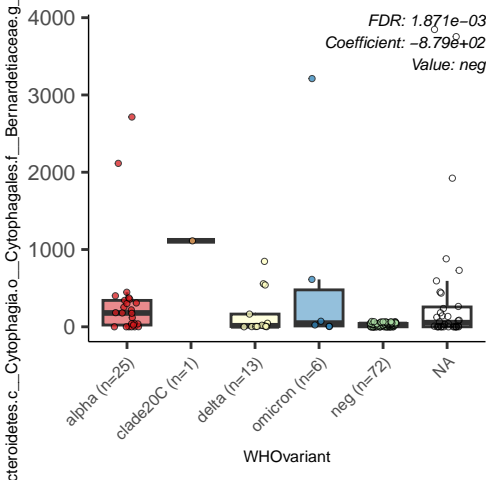


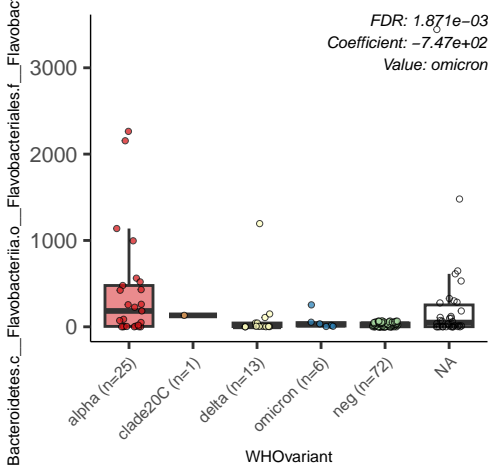
bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Tenuifilaceae.g__T





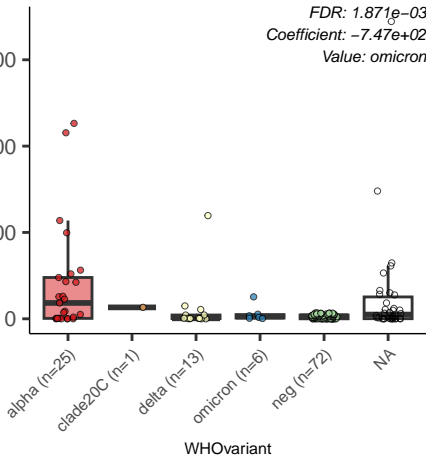


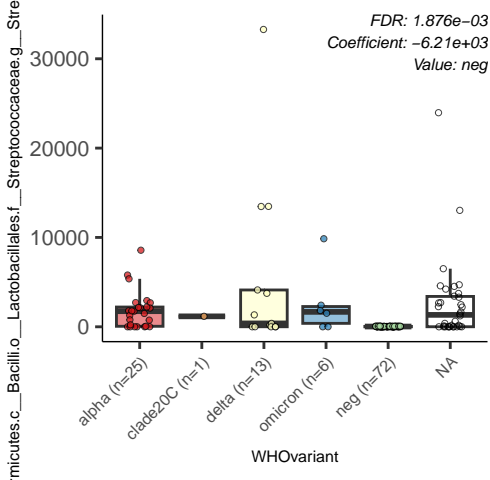




c_Flavobacteriia.o_Flavobacteriales.f_Flavobacteriaceae.g_Ar

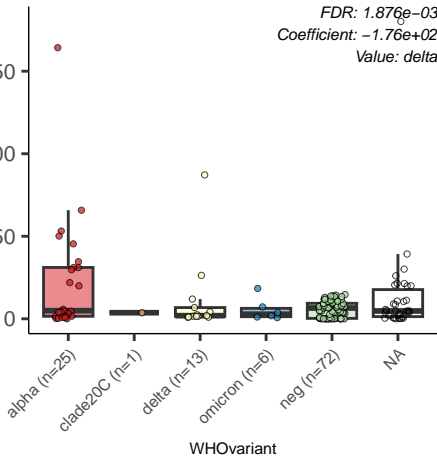
FDR: $1.871e-03$
Coefficient: $-7.47e+02$
Value: omicron

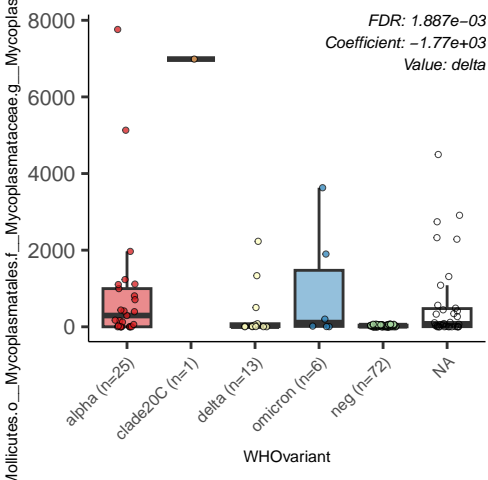


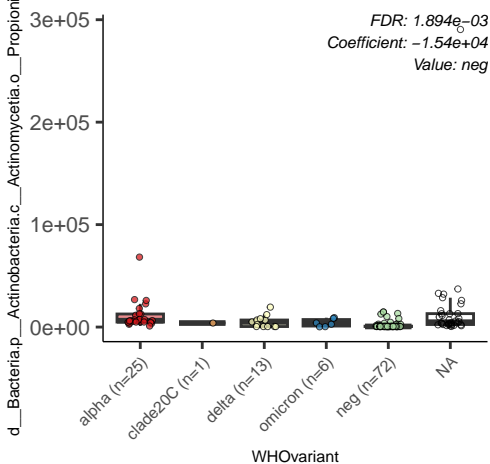


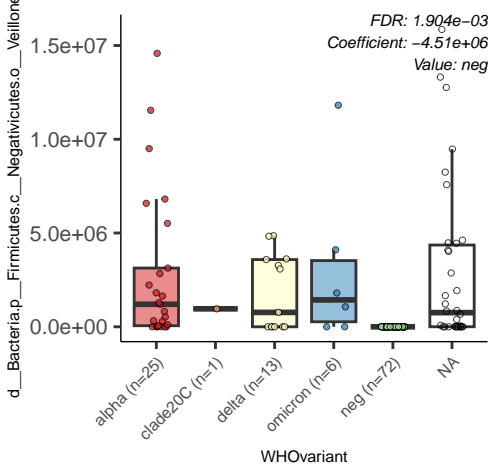
Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae.g__Chryse

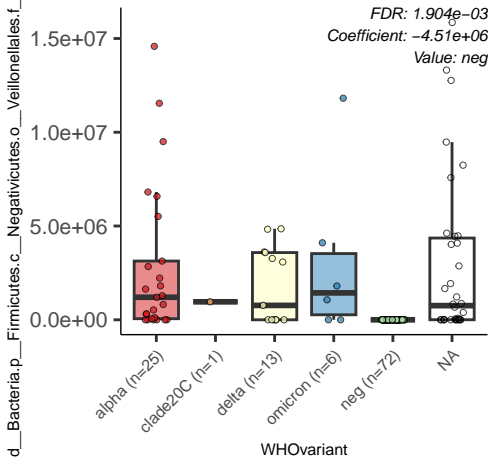
FDR: $1.876e-03$
Coefficient: $-1.76e+02$
Value: delta



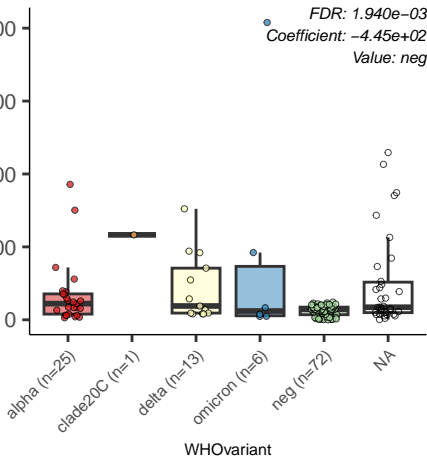


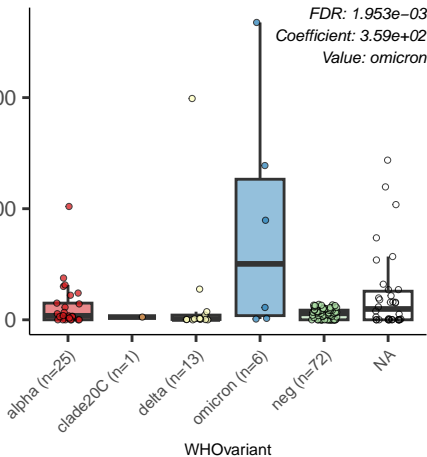






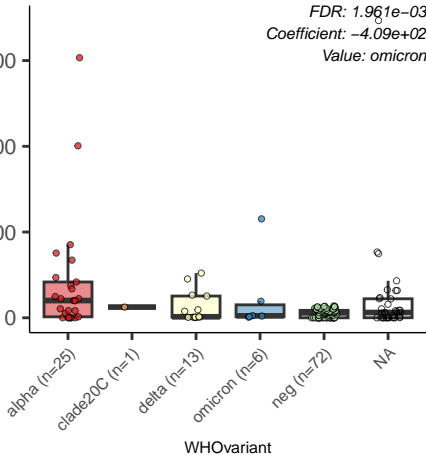
Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f__Acet



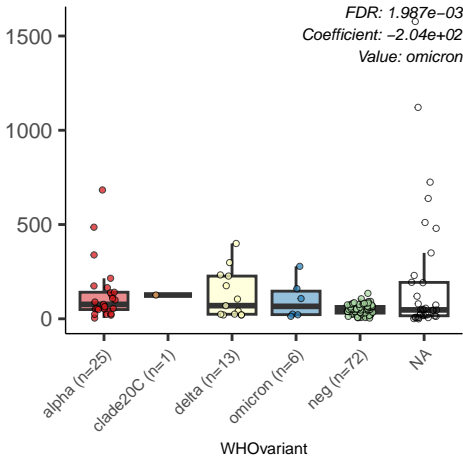


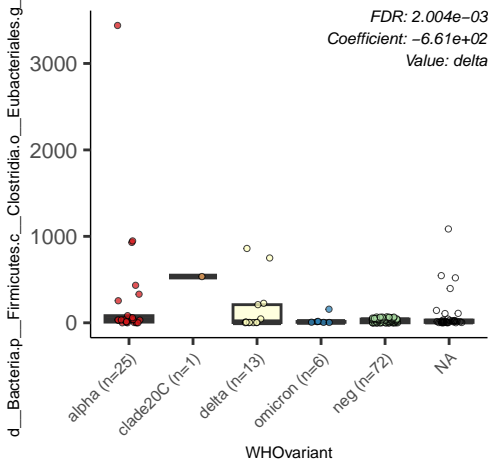
c__Clostridia.o__Eubacteriales.f__Desulfotobiaceae.g__Desulf

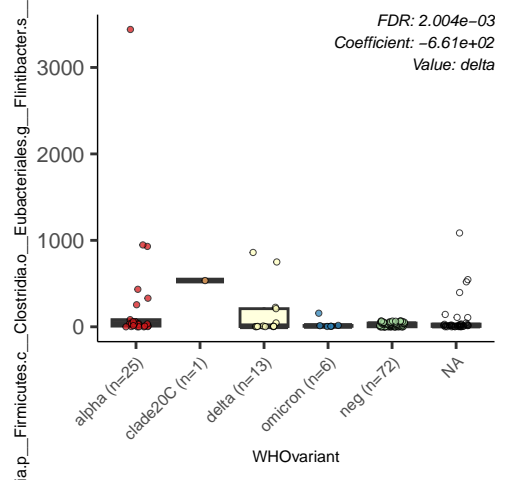
FDR: $1.961e-03$
Coefficient: $-4.09e+02$
Value: omicron



bacteria.o__Synechococcales.f__Synechococcaceae.g__Synecho

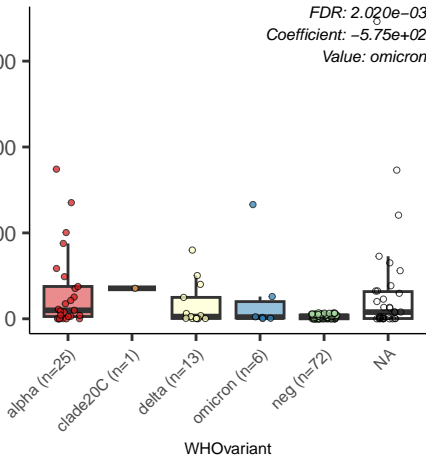






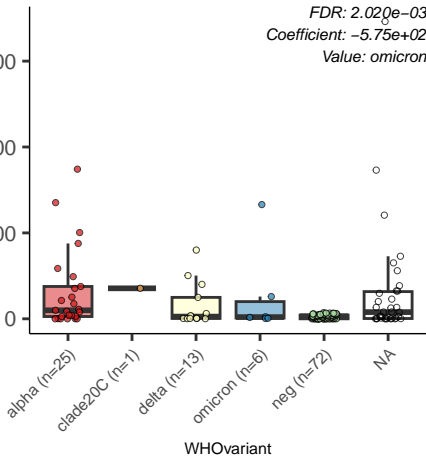
bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

FDR: $2.020e-03$
Coefficient: $-5.75e+02$
Value: omicron



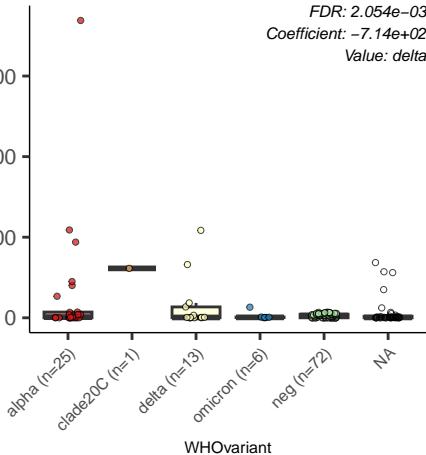
irmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__S

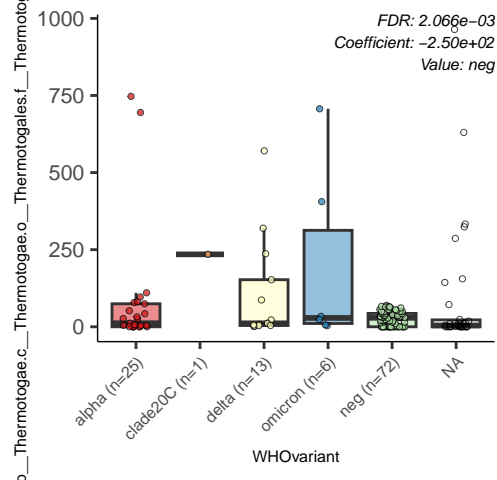
FDR: 2.020e-03
Coefficient: -5.75e+02
Value: omicron



irmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Lact

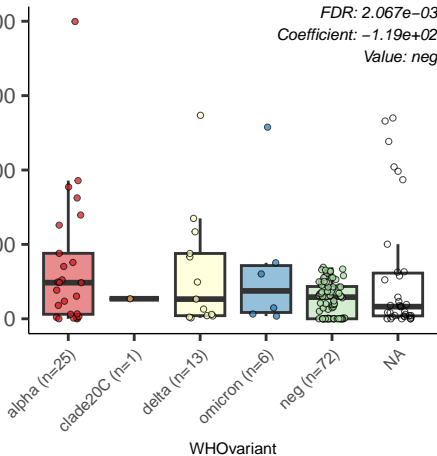
FDR: 2.054e-03
Coefficient: -7.14e+02
Value: delta

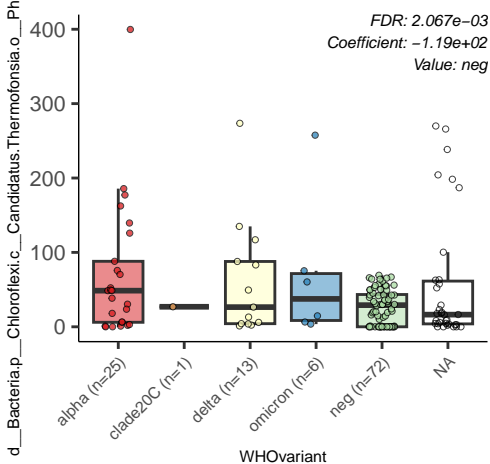




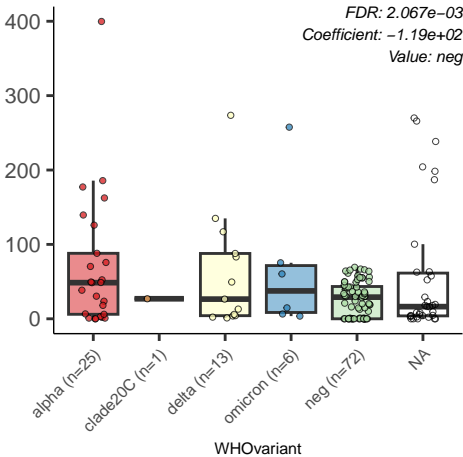
d__Bacteria.p__Chloroflexi.c__Candidatus.Thermofo

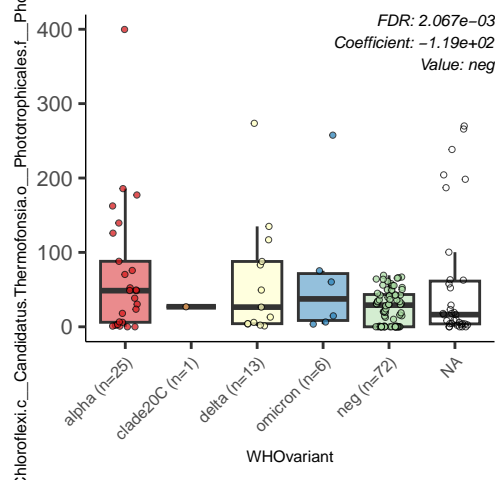
FDR: 2.067e-03
Coefficient: -1.19e+02
Value: neg





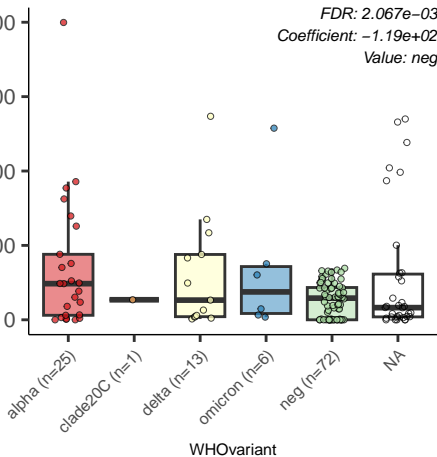
tertia.p__Chloroflexi.c__Candidatus.Thermofonsia.o__Phototrophica

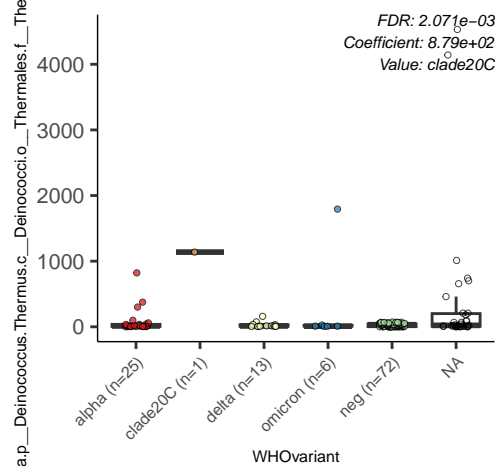


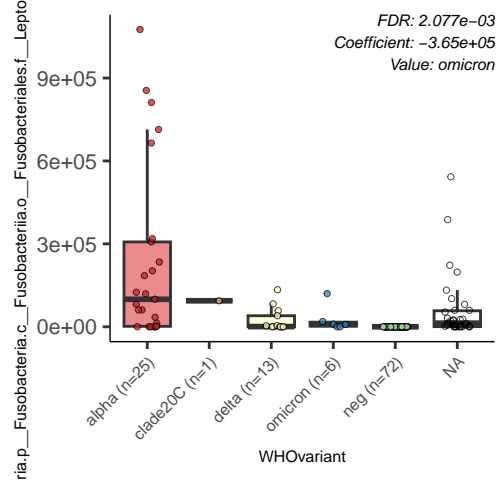


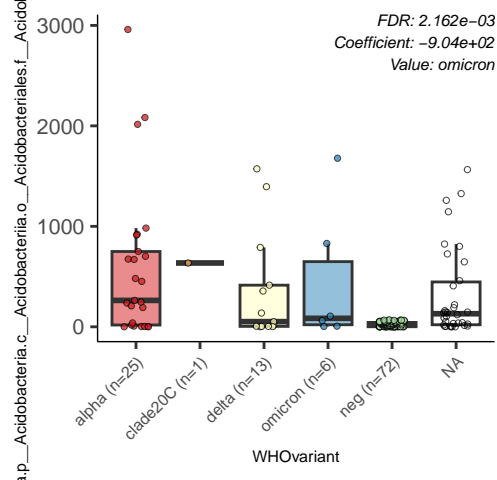
didatus.Thermofonsia.o__Phototrophicales.f__Phototrophiceae.g

FDR: 2.067e-03
Coefficient: -1.19e+02
Value: neg



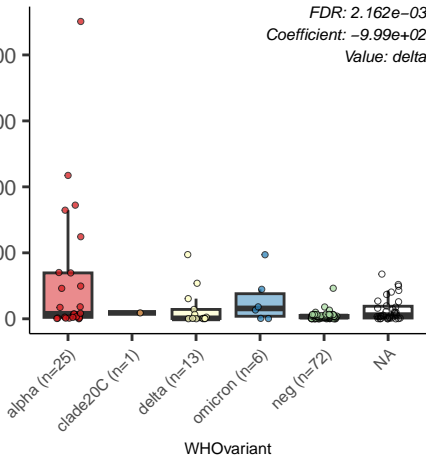




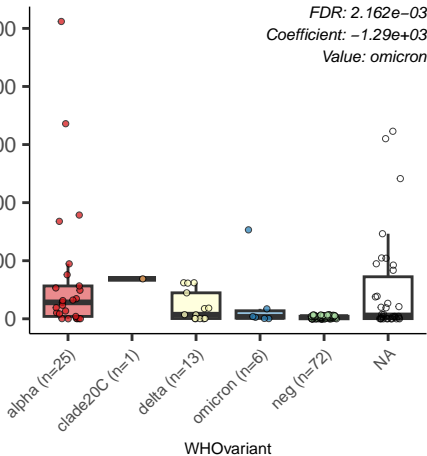


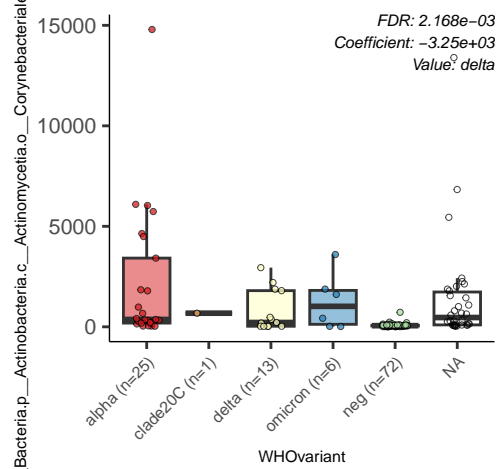
Actinomycetia.o__Corynebacteriales.f__Corynebacteriaceae.g__Co

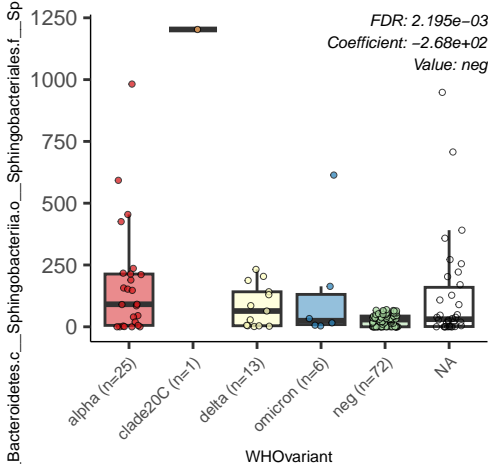
FDR: 2.162e-03
Coefficient: -9.99e+02
Value: delta



bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Clostridiaceae

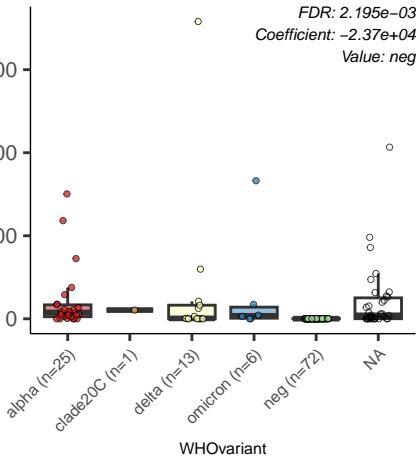






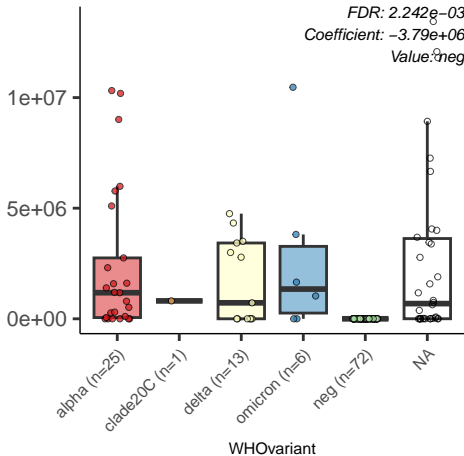
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

FDR: $2.195e-03$
Coefficient: $-2.37e+04$
Value: neg



bacteria.p__Firmicutes.c__Negativicutes.o__Veillonellales.f__Veillon

FDR: $2.242e-03$
Coefficient: $-3.79e+06$
Value: neg



Actinomycetia.o_Pseudonocardiales.f_Pseudonocardaceae.g

FDR: 2.252e-03
Coefficient: -3.74e+03
Value: omicron

10000

5000

0

alpha (n=25)

clade20C (n=1)

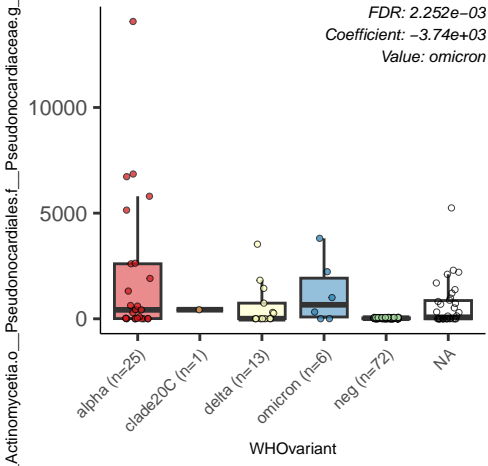
delta (n=13)

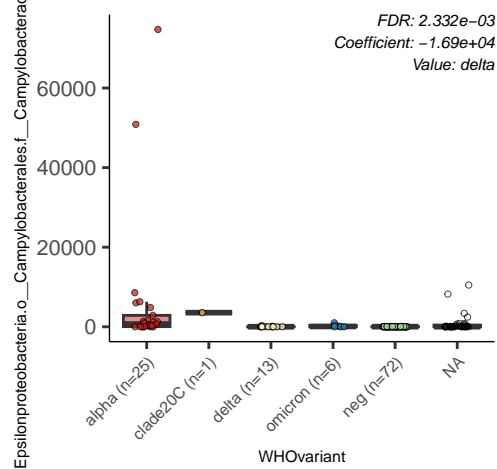
omicron (n=6)

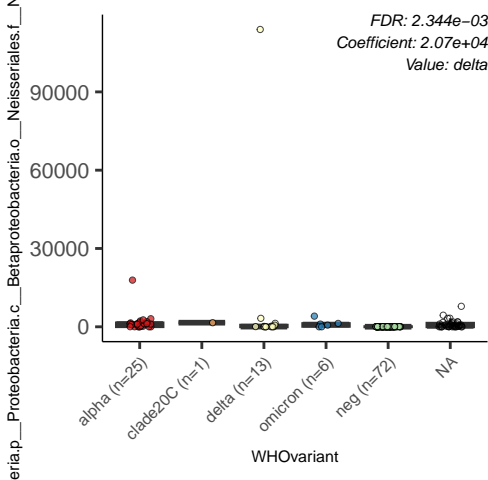
neg (n=72)

NA

WHOvariant

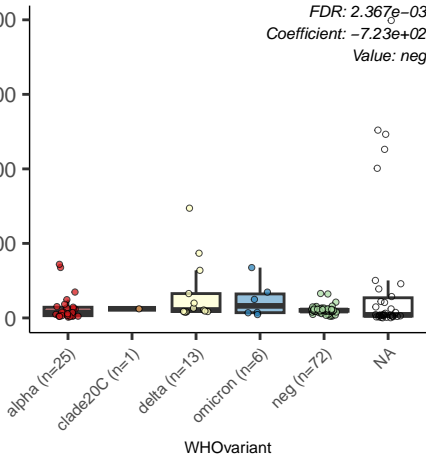




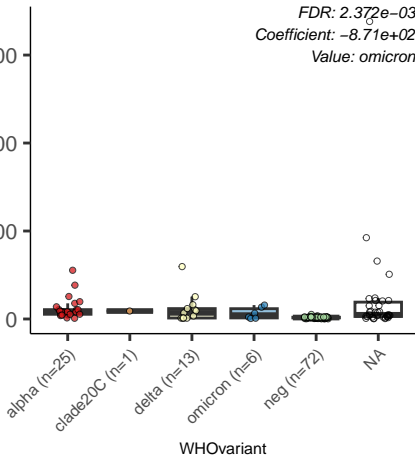


eria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia

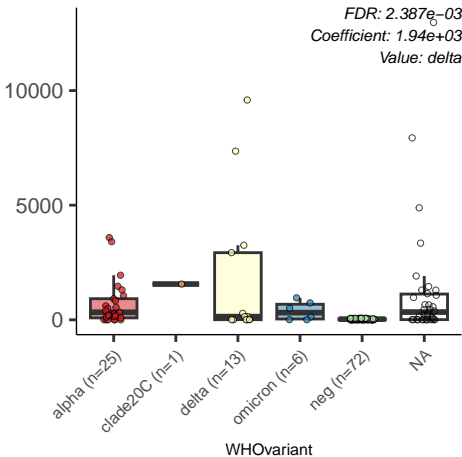
FDR: 2.367e-03
Coefficient: -7.23e+02
Value: neg



FDR: $2.372e-03$
Coefficient: $-8.71e+02$
Value: omicron



cutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Strepto



.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales

FDR: $2.413e-03$
Coefficient: $-2.75e+02$
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

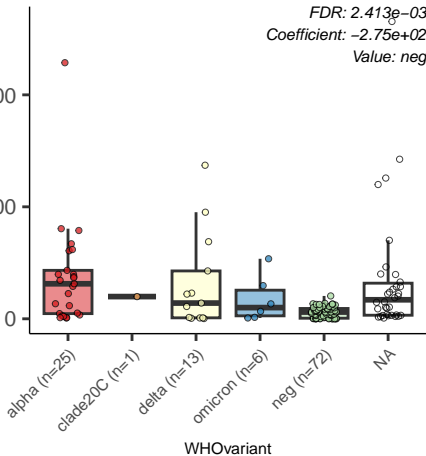
delta (n=13)

omicron (n=6)

neg (n=72)

NA

WHOvariant



bacteria.c__Gammaproteobacteria.o__Enterobacterales.f__Erwinia

FDR: $2.413e-03$
Coefficient: $-2.75e+02$
Value: neg

1000

500

alpha (n=25)

clade20C (n=1)

delta (n=13)

omicron (n=6)

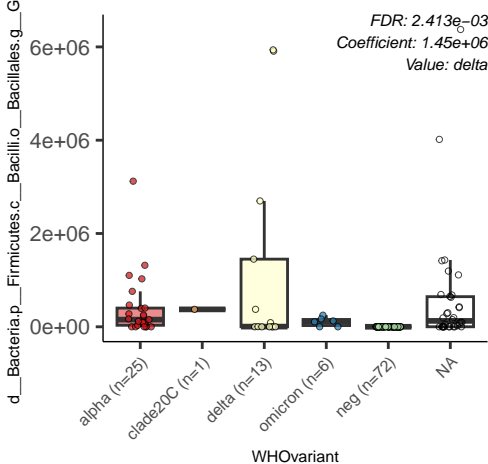
neg (n=72)

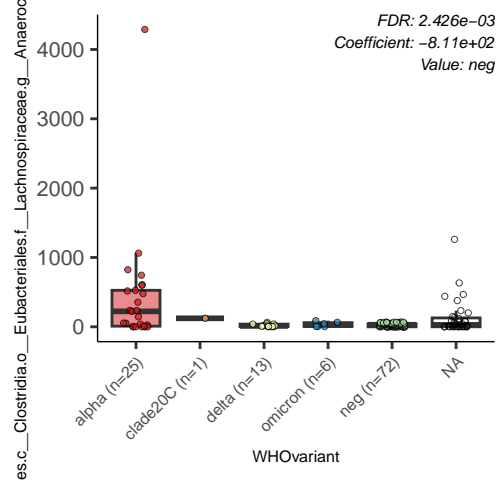
NA

WHOvariant

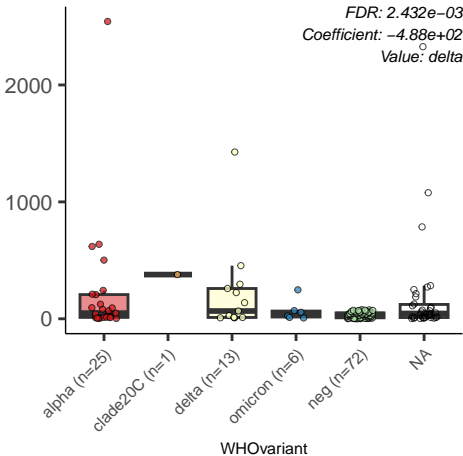
0

0

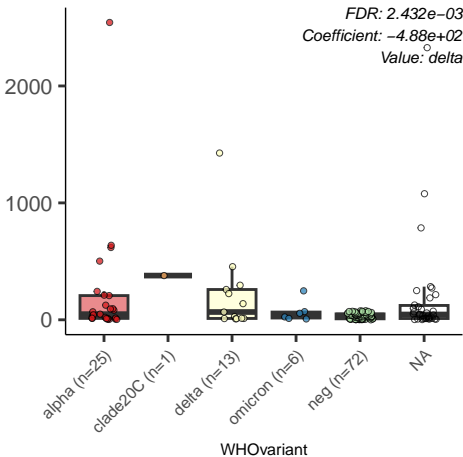


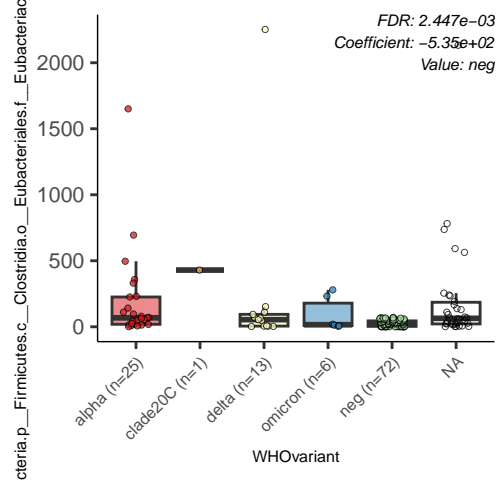


cteria.p_Actinobacteria.c_Thermoleophila.o_Solirubrobacterales



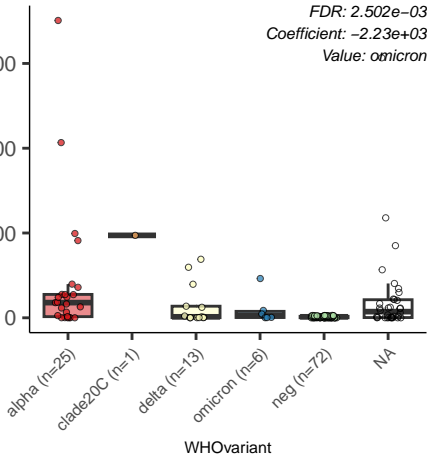
Actinobacteria.c__Thermoleophila.o__Solirubrobacterales.f__Con



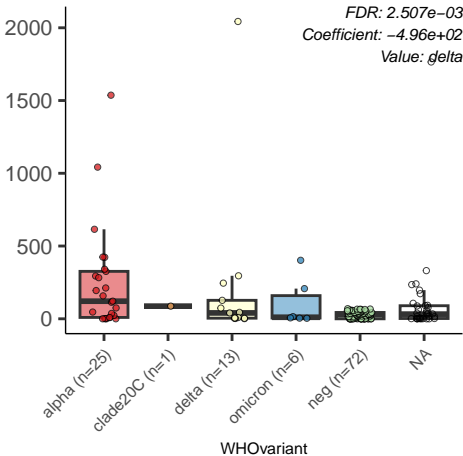


a.p._Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Week

FDR: 2.502e-03
Coefficient: -2.23e+03
Value: omicron

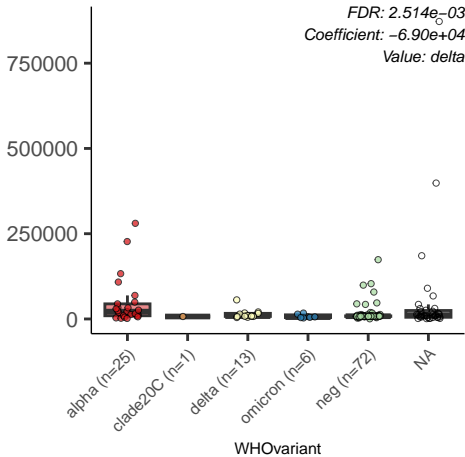


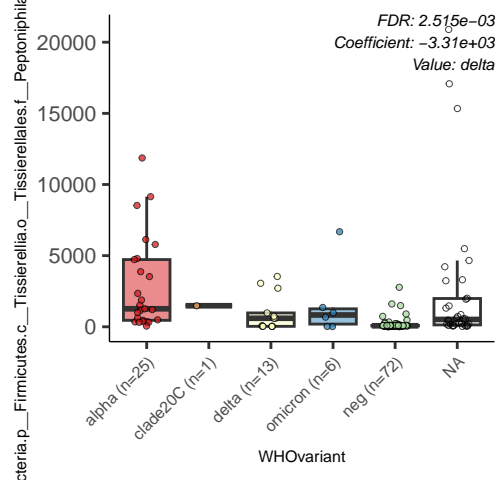
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo



d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Coryne

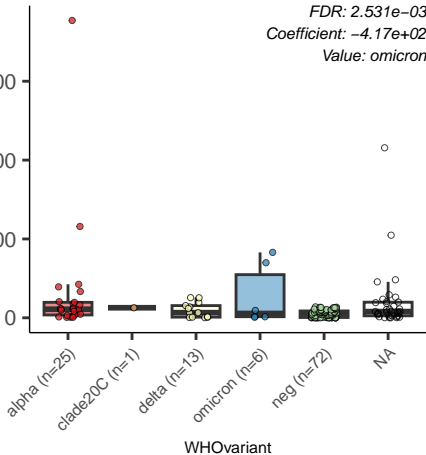
$FDR: 2.514e-03$
 $Coefficient: -6.90e+04$
 $Value: delta$

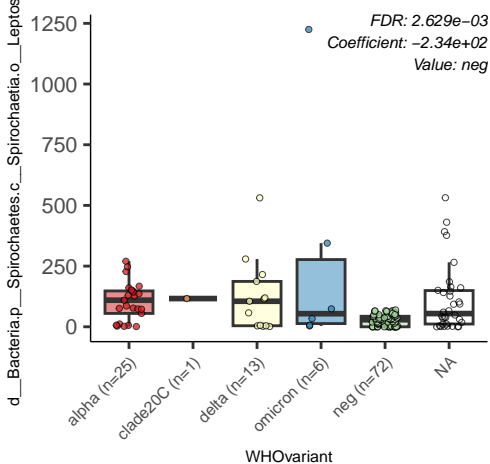


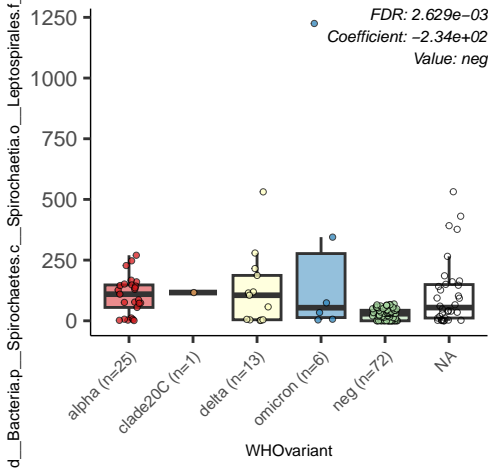


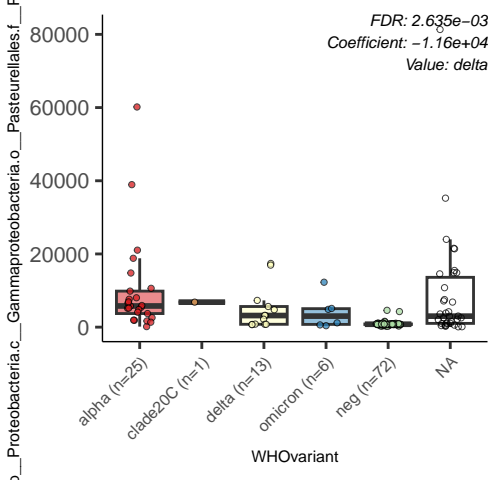
d_Bacteria.p_Cyanobacteria.o_Oscillatoriales.f_Microo

FDR: $2.531e-03$
Coefficient: $-4.17e+02$
Value: omicron









FDR: $2.641e-03$
Coefficient: $-9.24e+03$
Value: neg

1e+05

5e+04

0e+00

alpha (n=25)

clade20C (n=1)

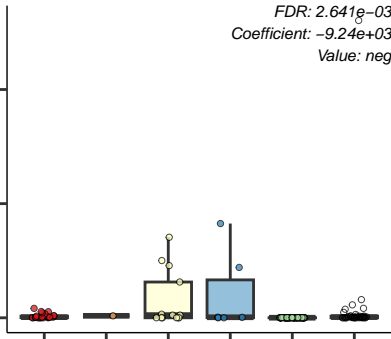
delta (n=13)

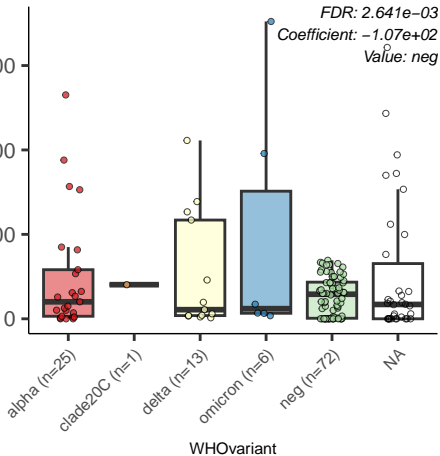
omicron (n=6)

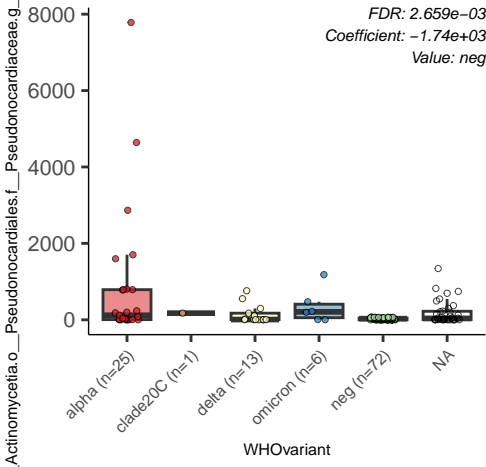
neg (n=72)

NA

WHOvariant

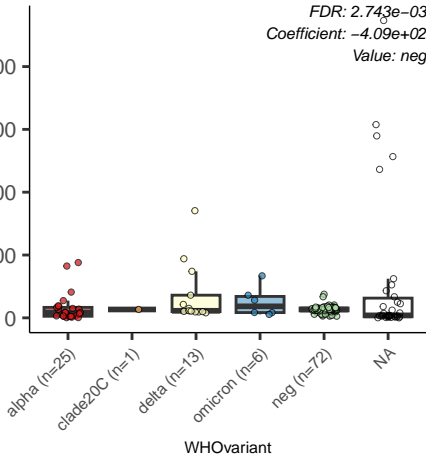


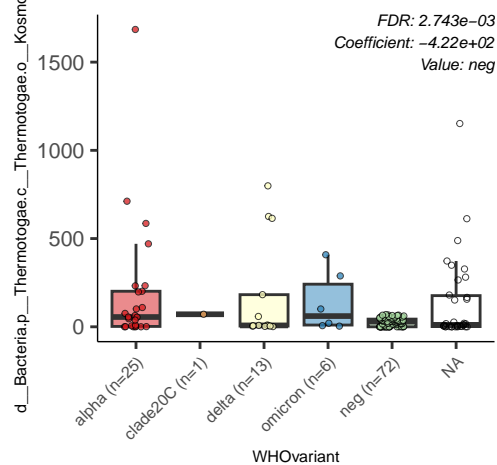




Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Xa

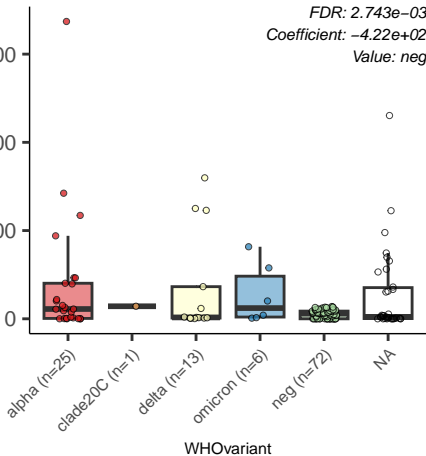
FDR: $2.743e-03$
Coefficient: $-4.09e+02$
Value: neg





d_Bacteria.p_Thermotogae.c_Thermotogae.o_Kosmotogales.f

FDR: 2.743e-03
Coefficient: -4.22e+02
Value: neg



d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Alicyclo

FDR: $2.751e-03$
Coefficient: $-5.29e+02$
Value: neg

2000

1000

0

alpha (n=25)

clade20C (n=1)

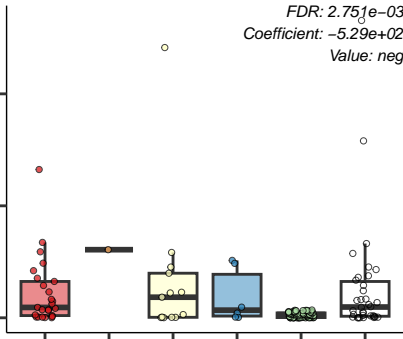
delta (n=13)

omicron (n=6)

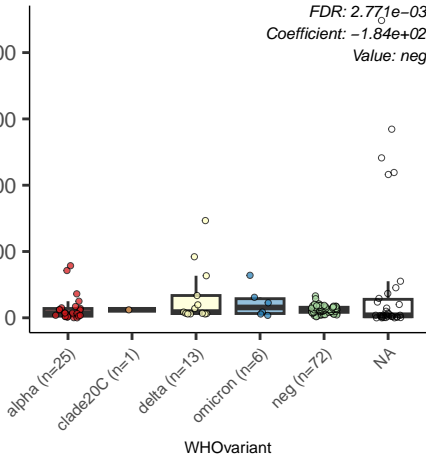
neg (n=72)

NA

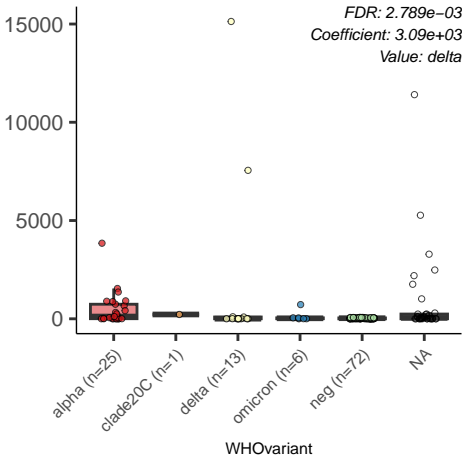
WHOvariant



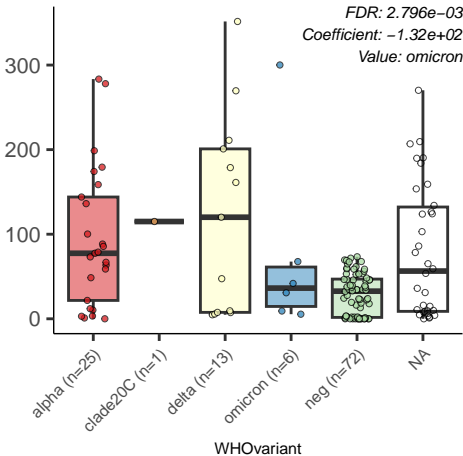
FDR: $2.771e-03$
Coefficient: $-1.84e+02$
Value: neg



teobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae

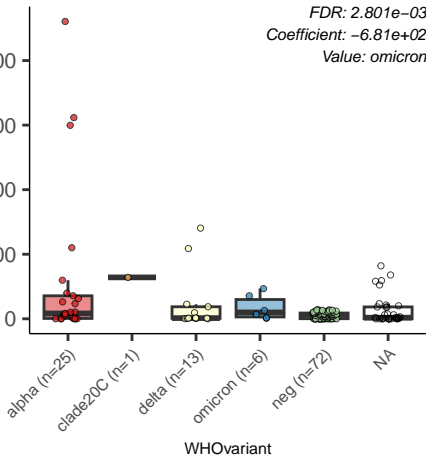


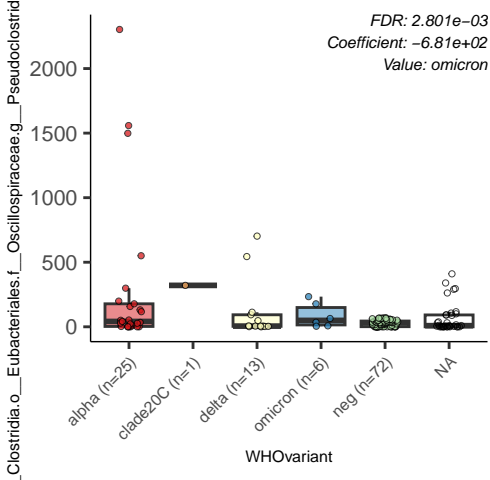
__Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Planococcaceae

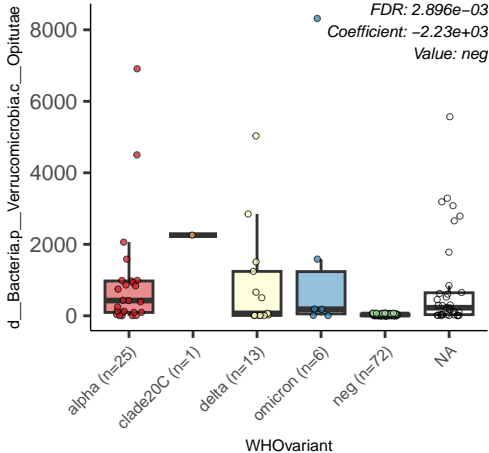


eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospirace

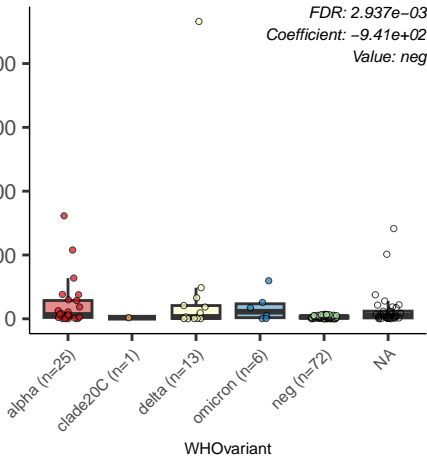
FDR: $2.801e-03$
Coefficient: $-6.81e+02$
Value: omicron

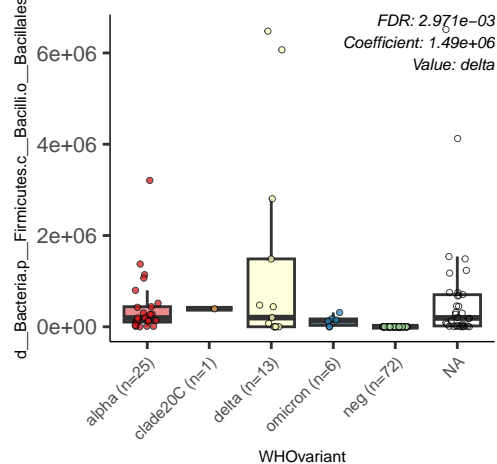


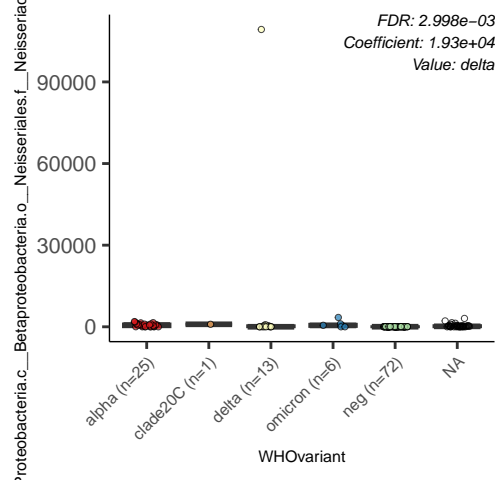




Actinobacteria.c__Actinomycetia.o__Pseudonocardiales.f__Pseudo

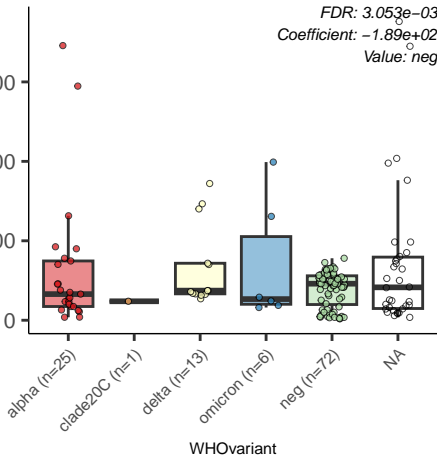




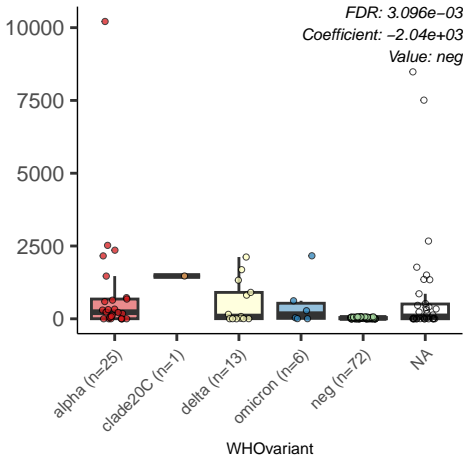


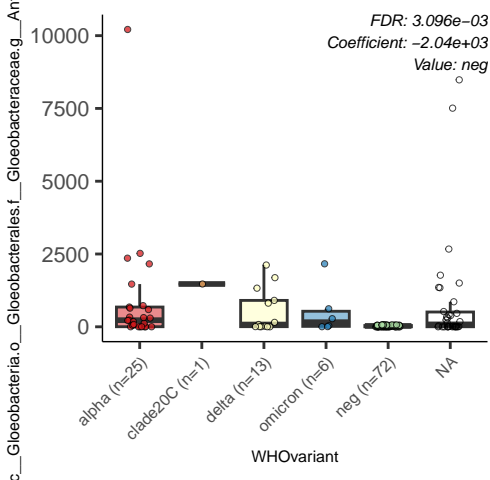
p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f

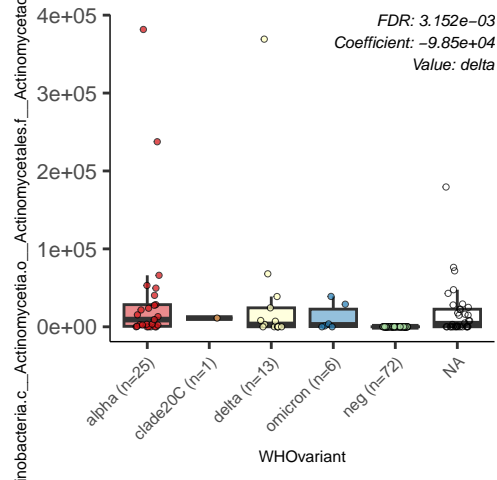
FDR: $3.053e-03$
Coefficient: $-1.89e+02$
Value: neg



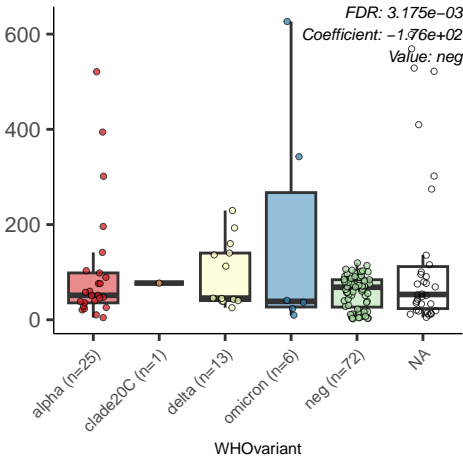
Cyanobacteria.c__Gloeobacteria.o__Gloeobacterales.f__Gloeoba



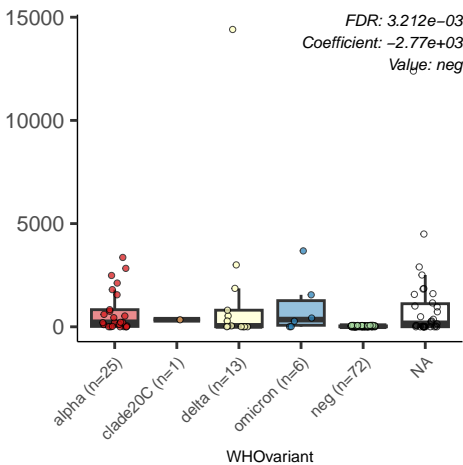


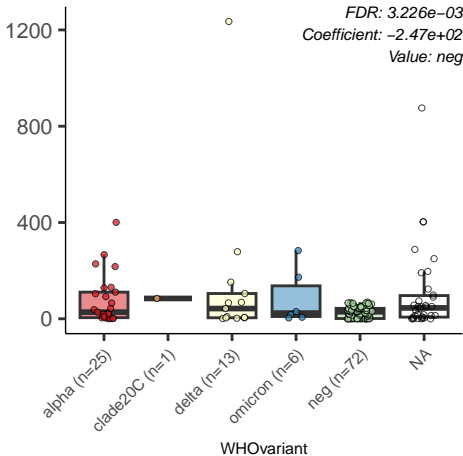


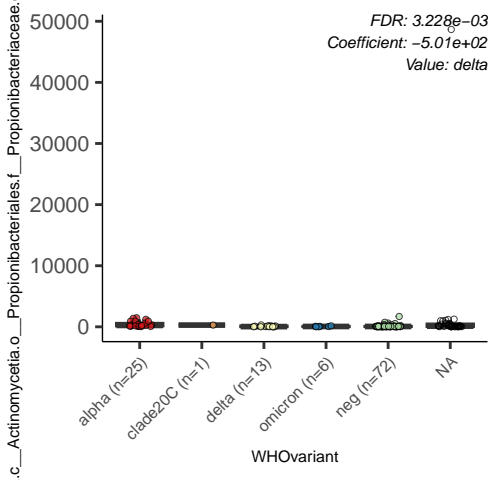
tertia.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia

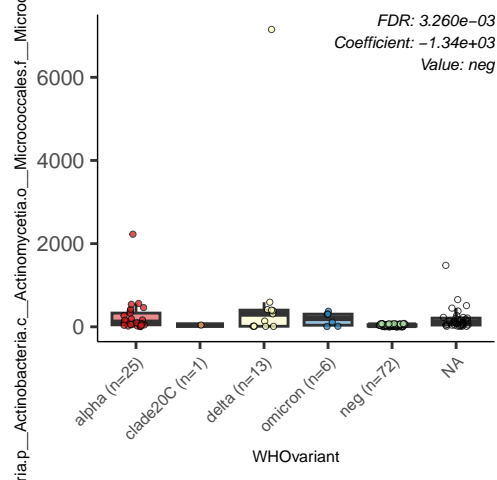


obacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

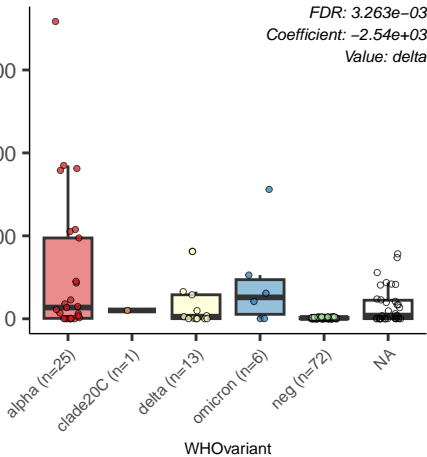


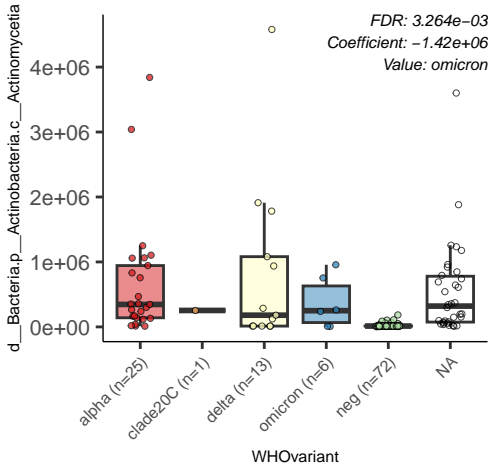


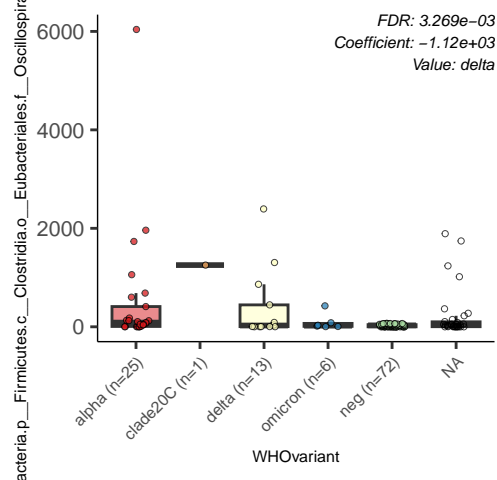


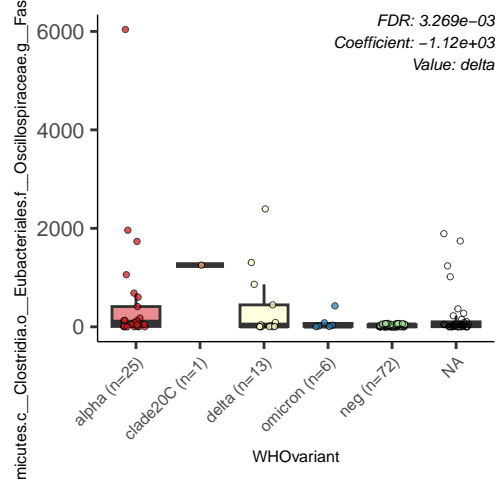


acteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae

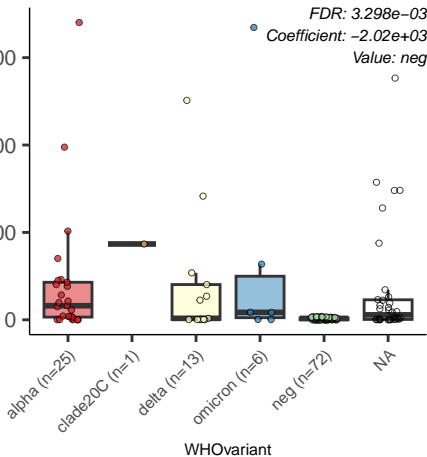


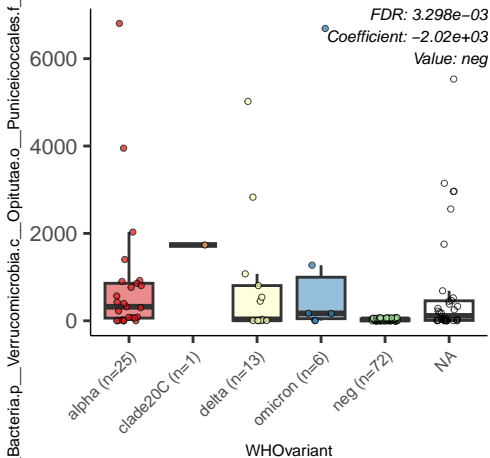






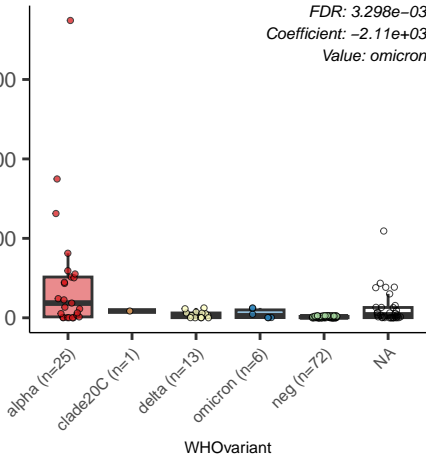
d__Bacteria.p__Verrucomicrobia.c__Opitutae.o__Puniceib





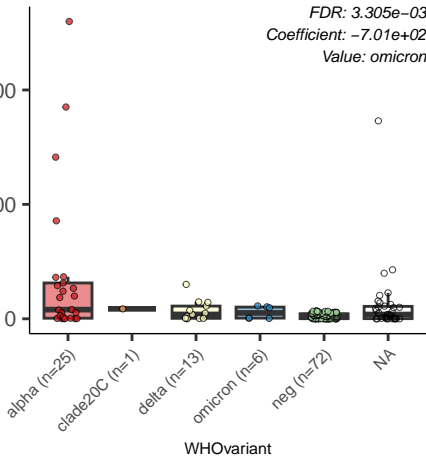
rmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Ar

FDR: 3.298e-03
Coefficient: -2.11e+03
Value: omicron



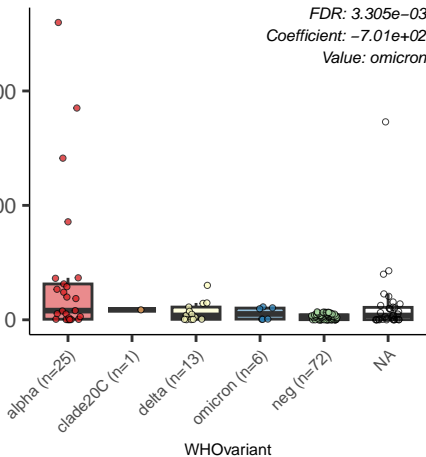
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridia

FDR: $3.305e-03$
Coefficient: $-7.01e+02$
Value: omicron



nicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Serper

FDR: 3.305e-03
Coefficient: -7.01e+02
Value: omicron



i.p._Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f__Weeks

FDR: 3.319×10^{-3}
Coefficient: -1.91×10^2
Value: delta

1000

500

0

alpha (n=25)

clade20C (n=1)

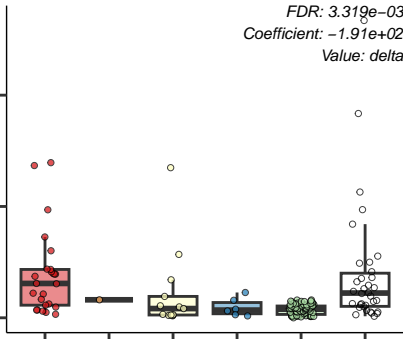
delta (n=13)

omicron (n=6)

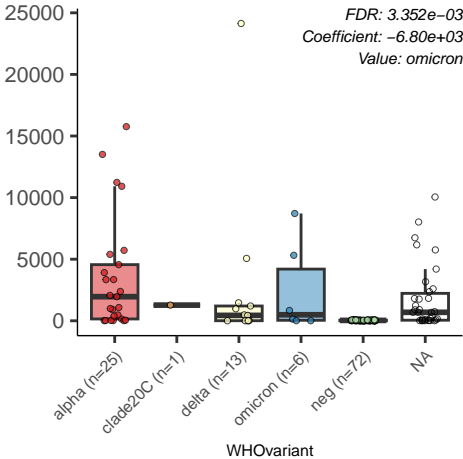
neg (n=72)

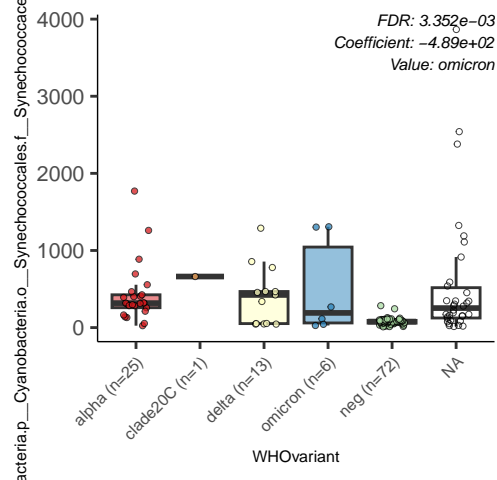
NA

WHOvariant



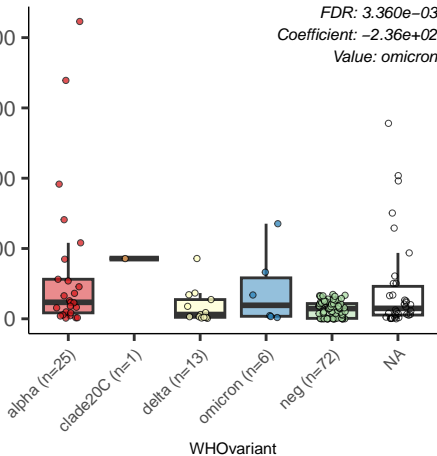
_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

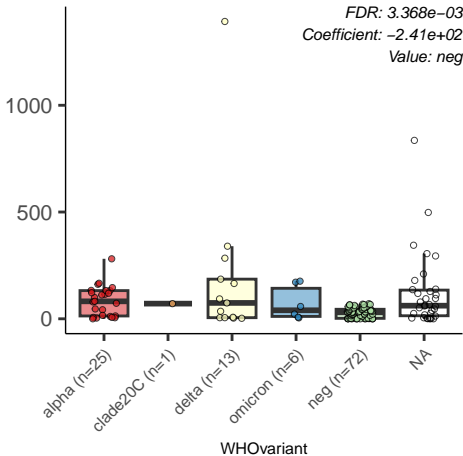


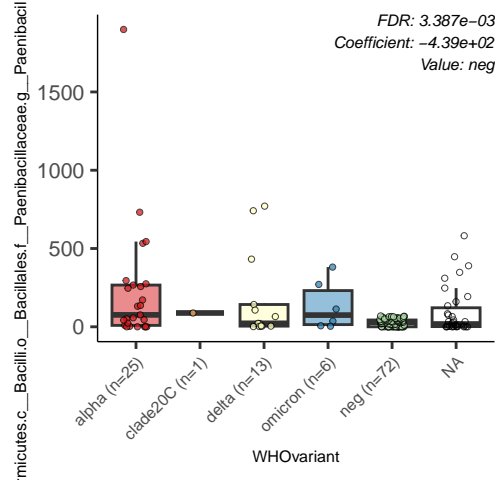


__Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales

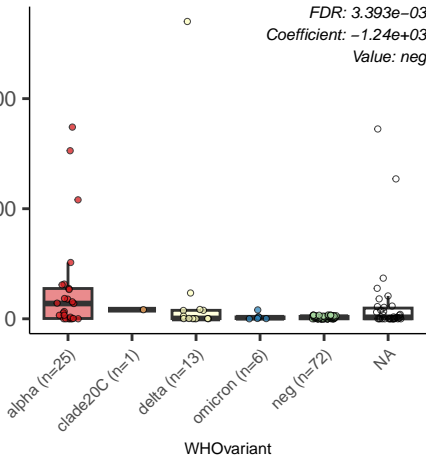
FDR: $3.360e-03$
Coefficient: $-2.36e+02$
Value: omicron

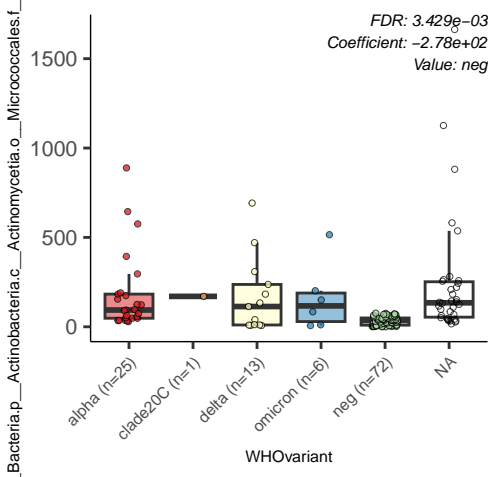




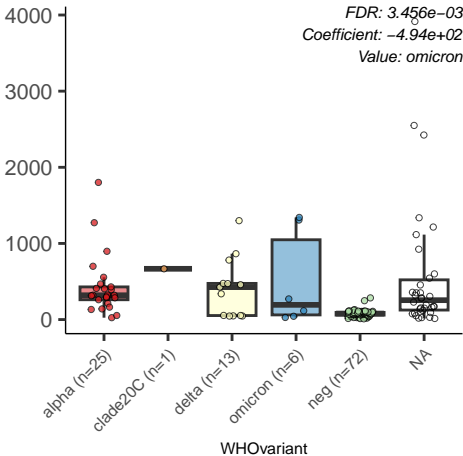


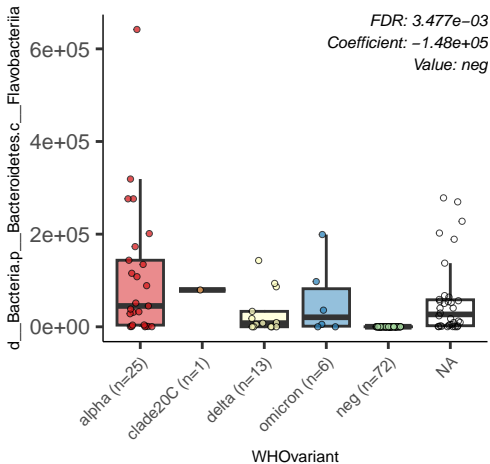
FDR: $3.393e-03$
Coefficient: $-1.24e+03$
Value: neg

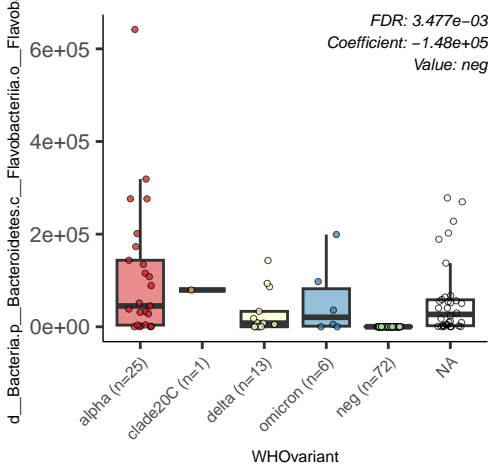


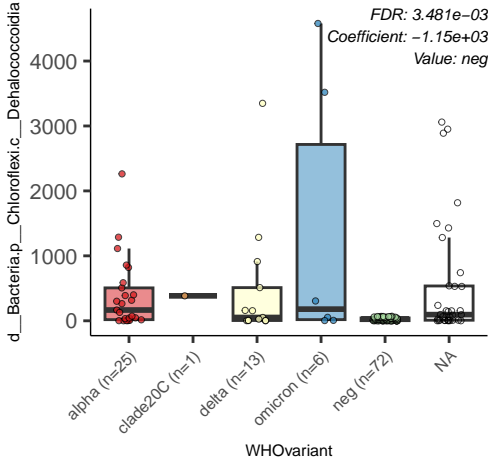


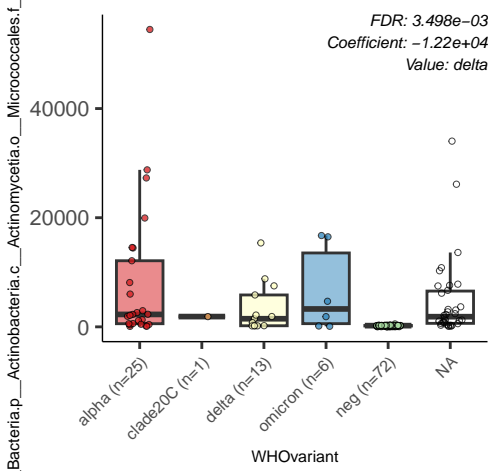
d_Bacteria.p__Cyanobacteria.o__Synechococcales.f__Synech



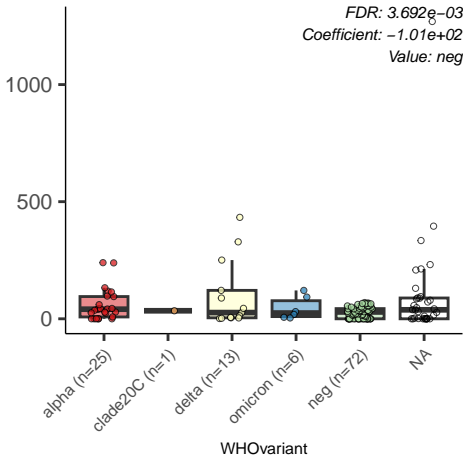


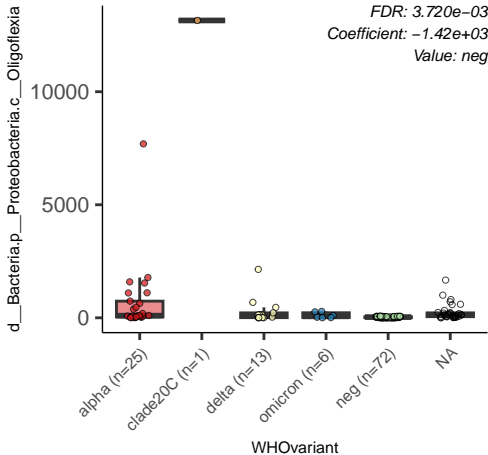






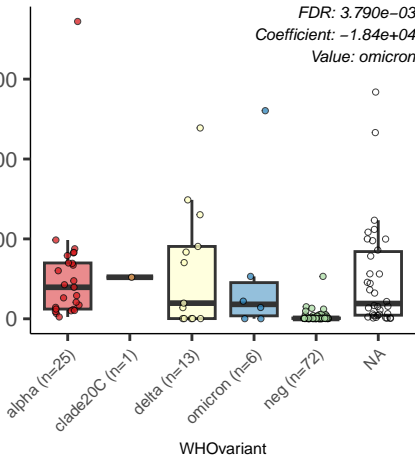
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus





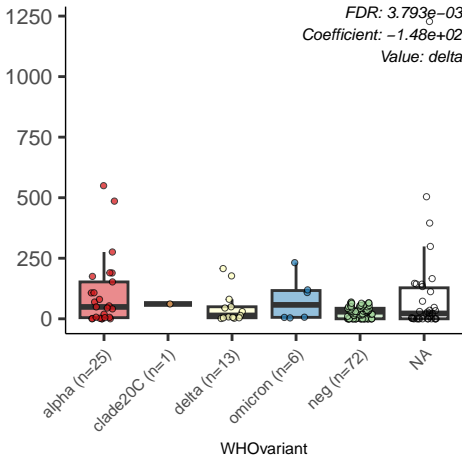
d__Bacteria.p__Firmicutes.c__Tissierellia

FDR: 3.790e-03
Coefficient: -1.84e+04
Value: omicron

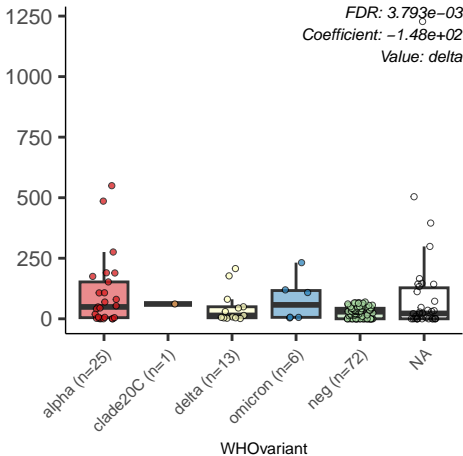


terial.p__Bacteroidetes.c__Bacteroidia.o__Marinilabiales.f__Marinil

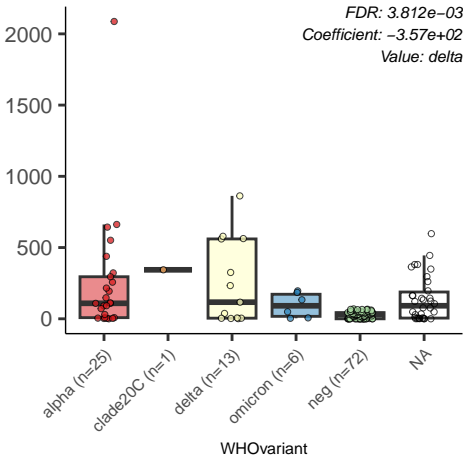
$FDR: 3.793e-03$
 $Coefficient: -1.48e+02$
 $Value: delta$

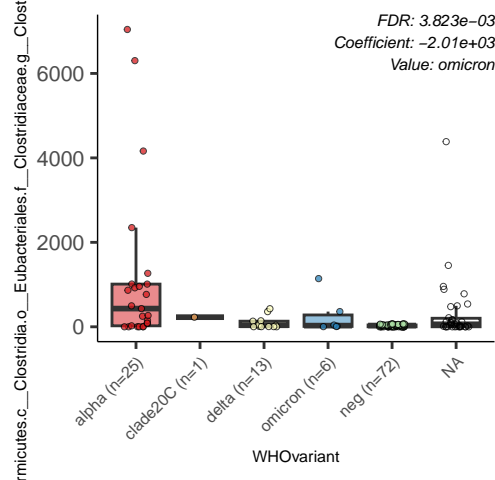


eroidetes.c__Bacteroidia.o__Marinilabiales.f__Marinilabiales

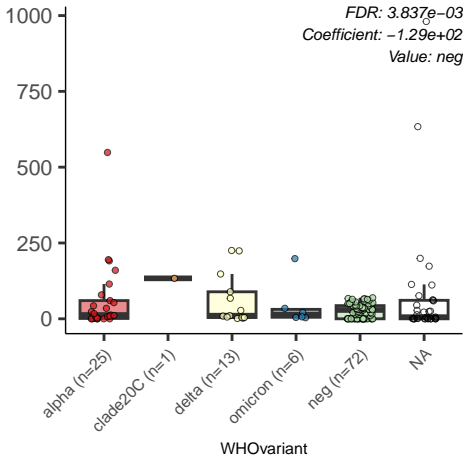


acteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Enterococcace





ia.p__Acidobacteria.c__Blastocatellia.g__Chloracidobacterium.s__C

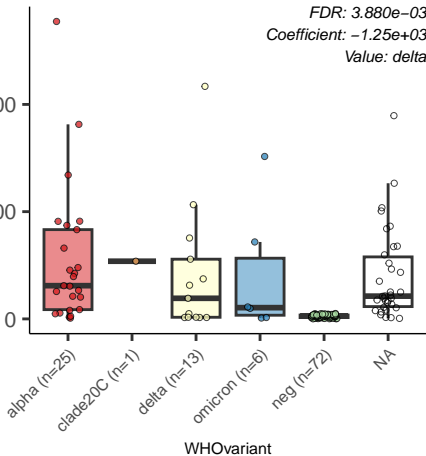


d_Bacteria.p_Acidobacteria

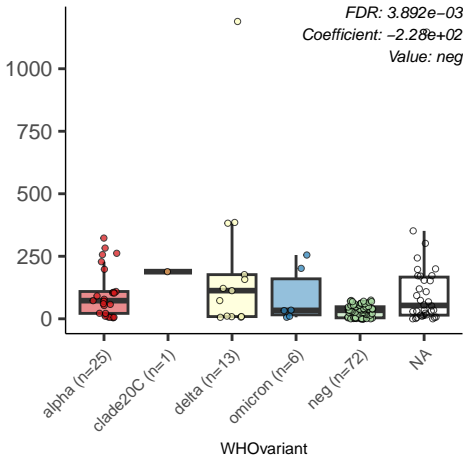
FDR: 3.880e-03

Coefficient: -1.25e+03

Value: delta

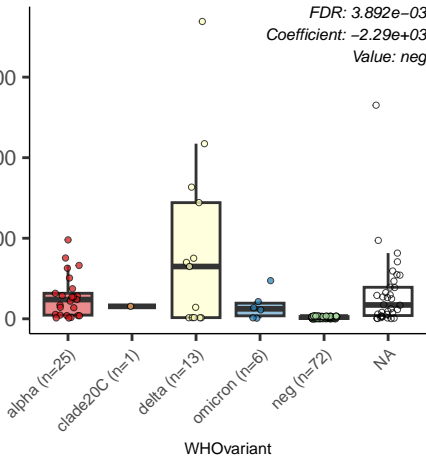


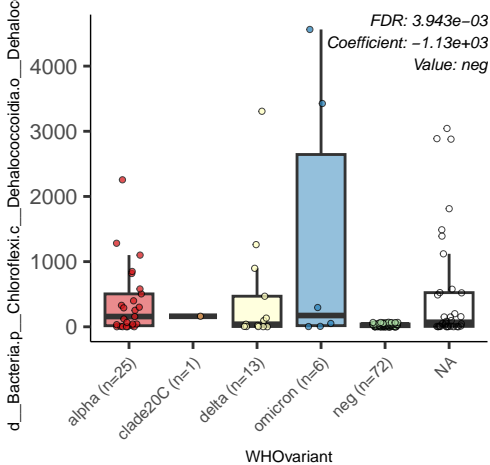
__Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Paenibacillace

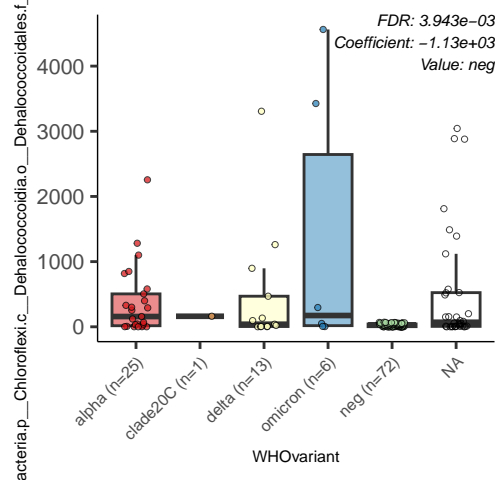


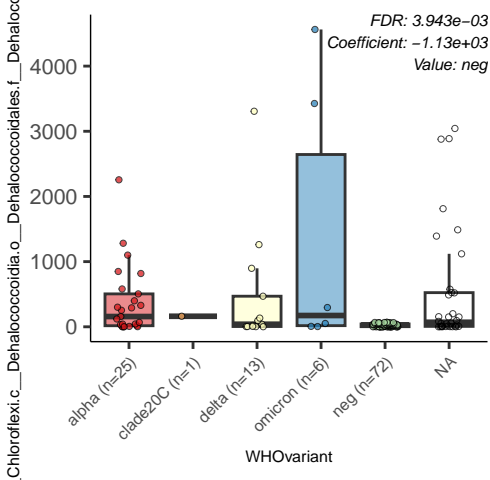
acteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcca

FDR: 3.892e-03
Coefficient: -2.29e+03
Value: neg



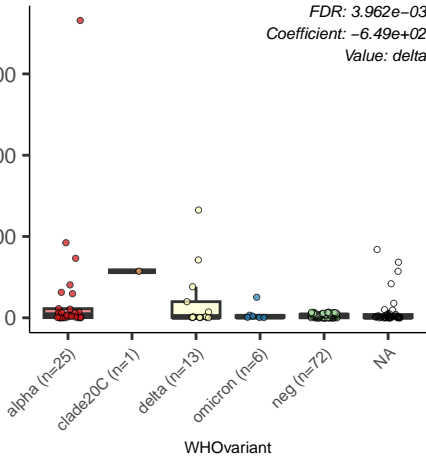




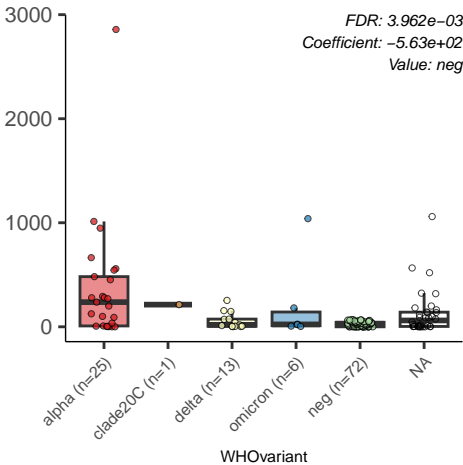


Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__A

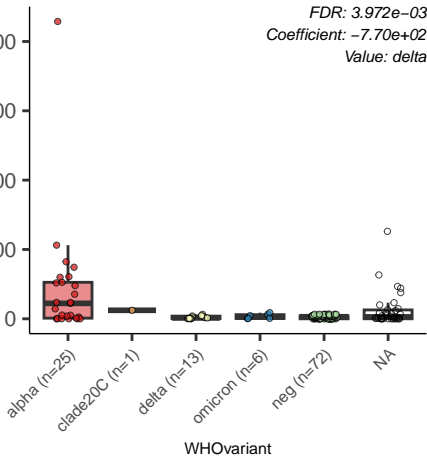
FDR: 3.962e-03
Coefficient: -6.49e+02
Value: delta



utes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Anaeroc

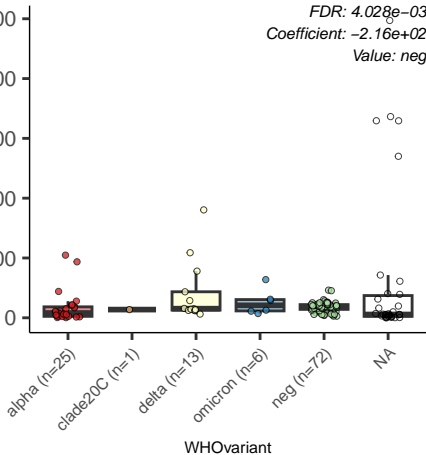


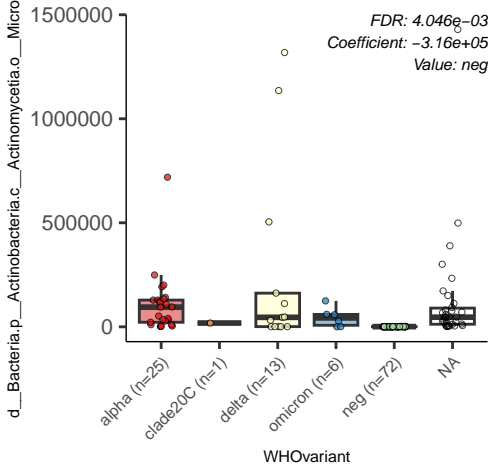
es.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Anaerob

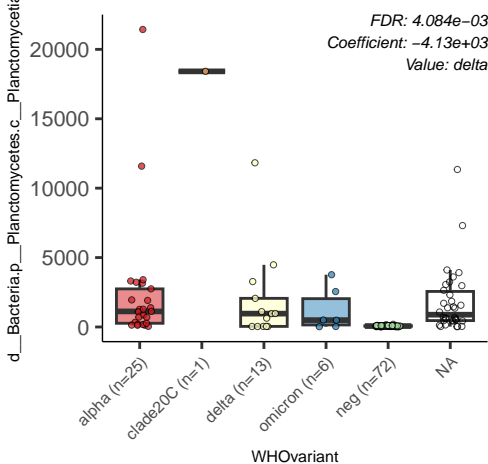


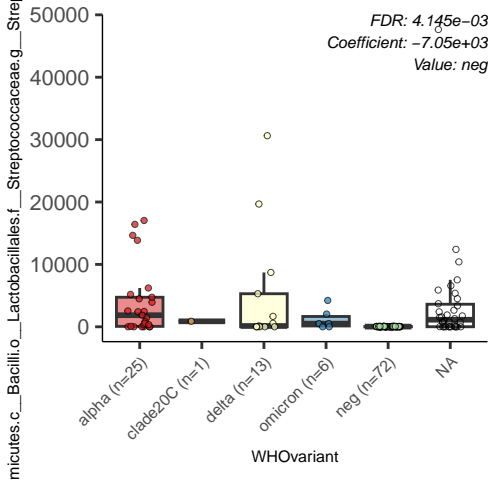
Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae

FDR: $4.028e-03$
Coefficient: $-2.16e+02$
Value: neg

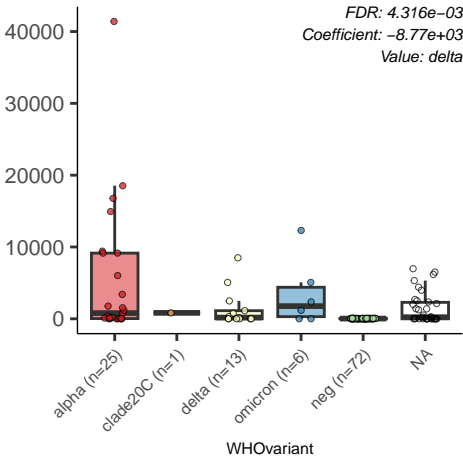




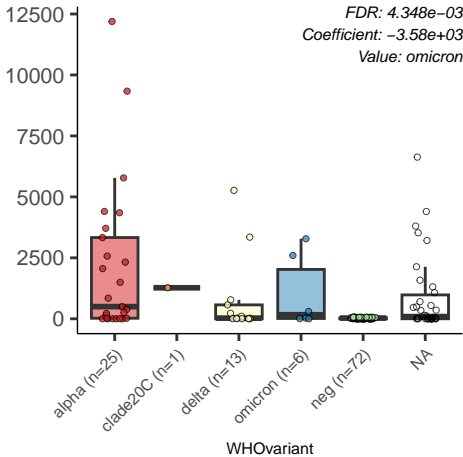


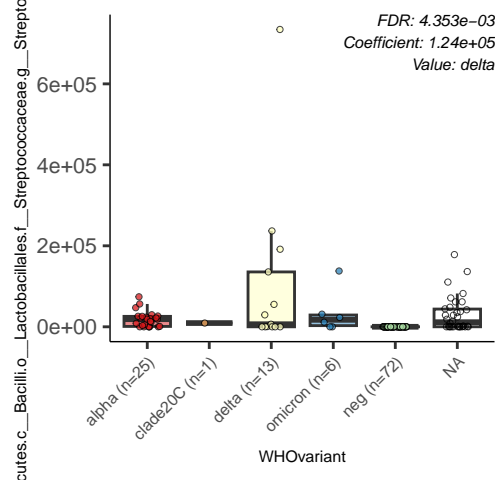


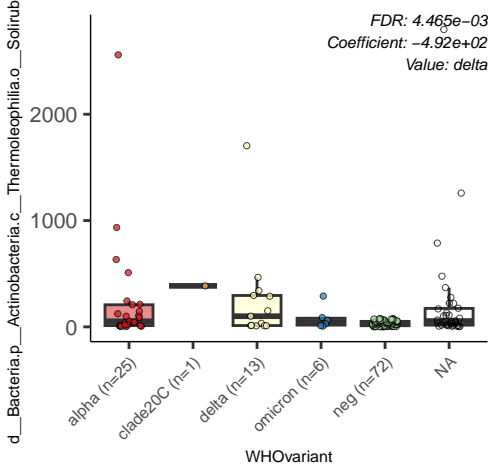
bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

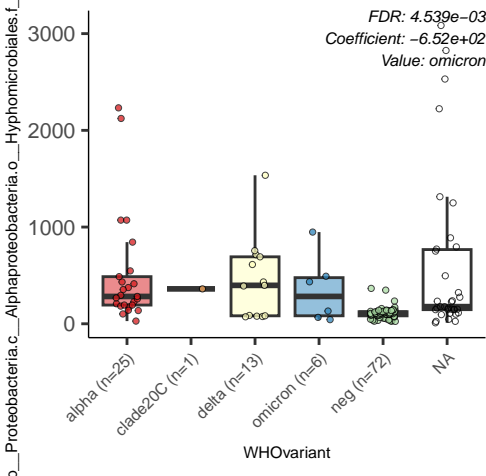


teroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g_E



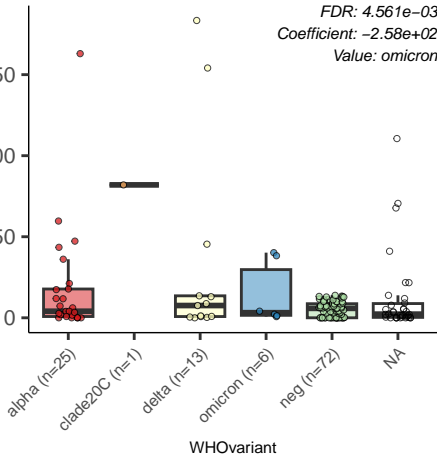




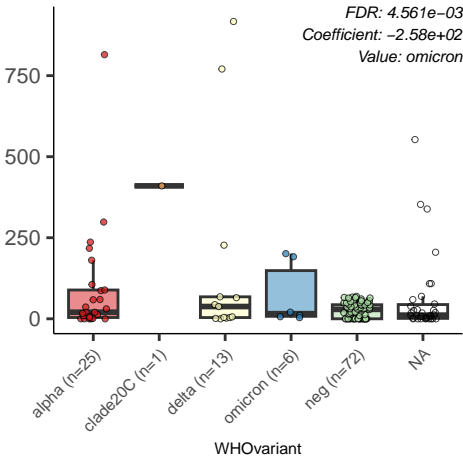


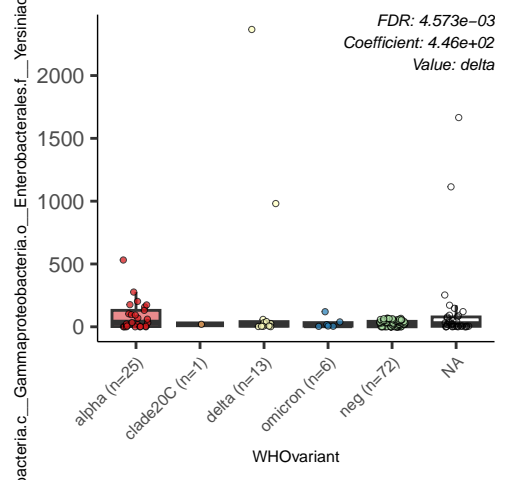
Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__Mycoplasmataceae

FDR: $4.561e-03$
Coefficient: $-2.58e+02$
Value: omicron

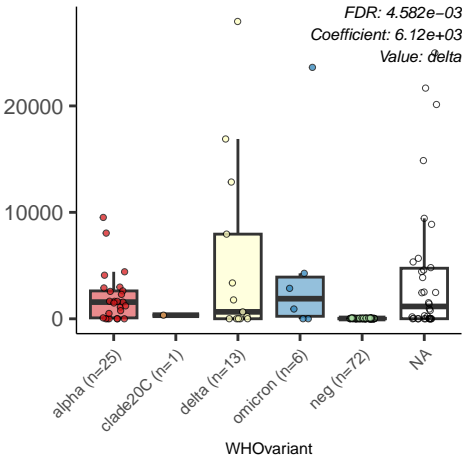


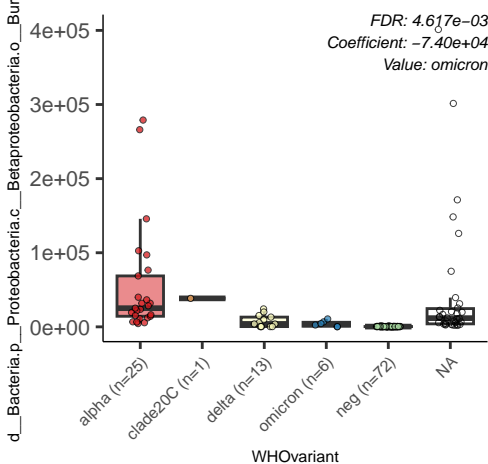
tes.o__Mycoplasmatales.f__Mycoplasmataceae.g__Candidatus.Hep

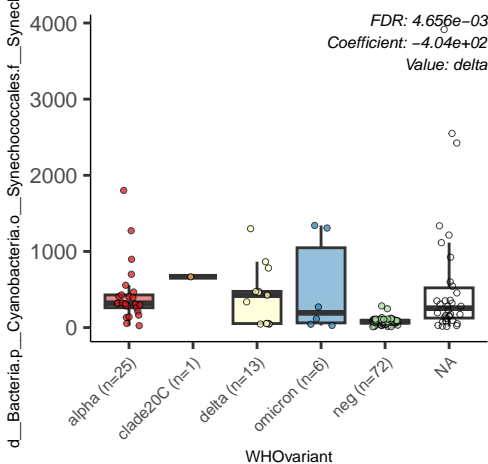




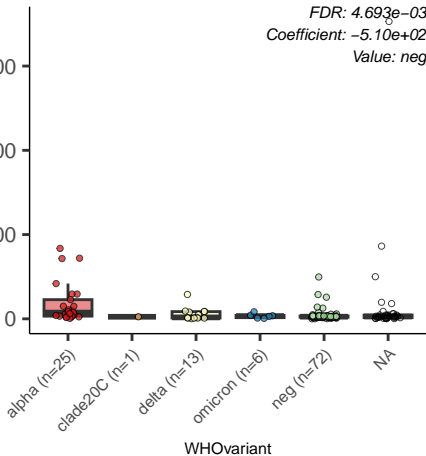
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep





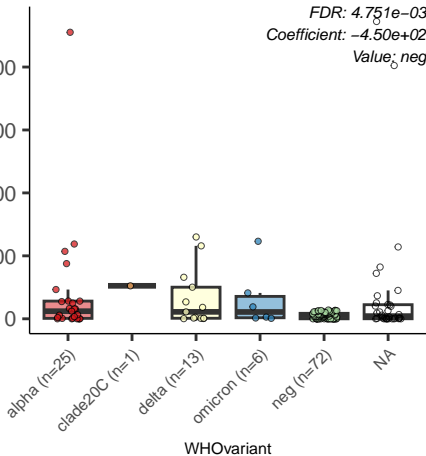


FDR: $4.693e-03$
Coefficient: $-5.10e+02$
Value: neg



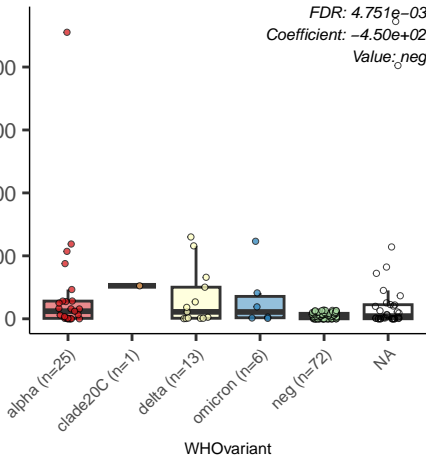
a.p__Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipe

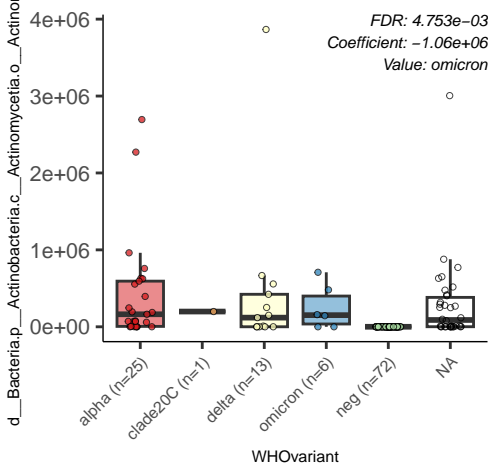
FDR: $4.751e-03$
Coefficient: $-4.50e+02$
Value: neg



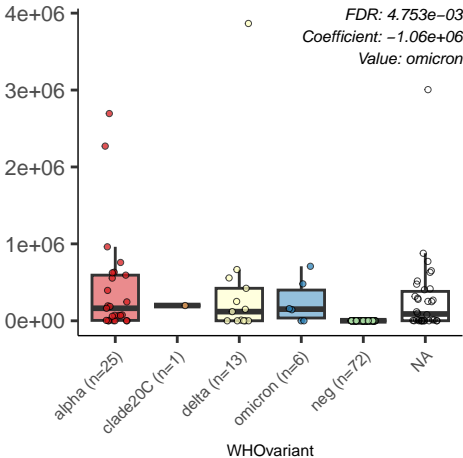
tes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipelotrichaceae

FDR: $4.751e-03$
Coefficient: $-4.50e+02$
Value: neg



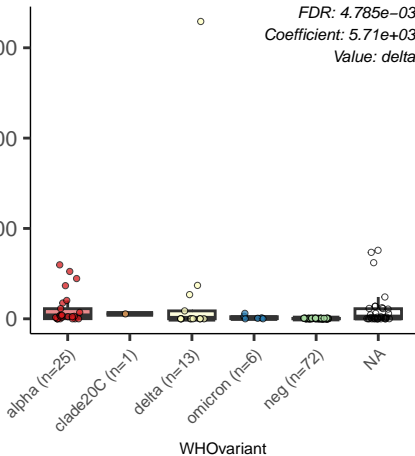


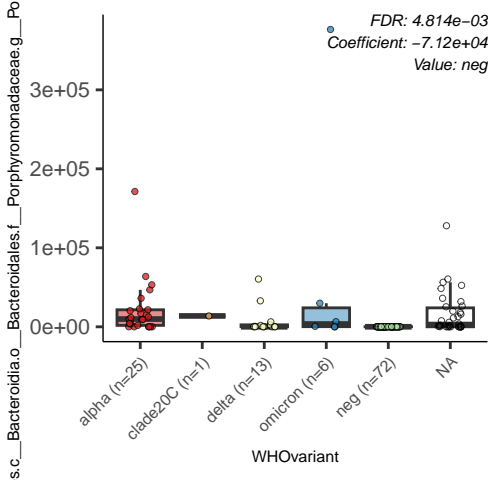
Bacteria.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f



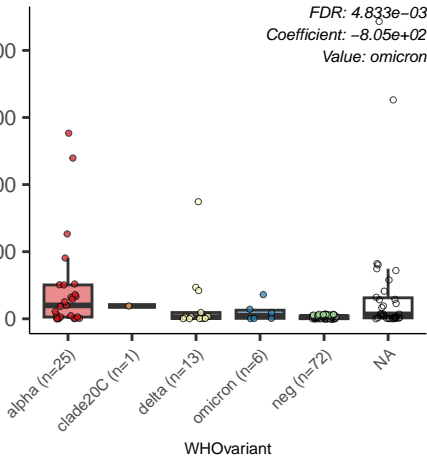
bacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae.g

FDR: 4.785e-03
Coefficient: 5.71e+03
Value: delta



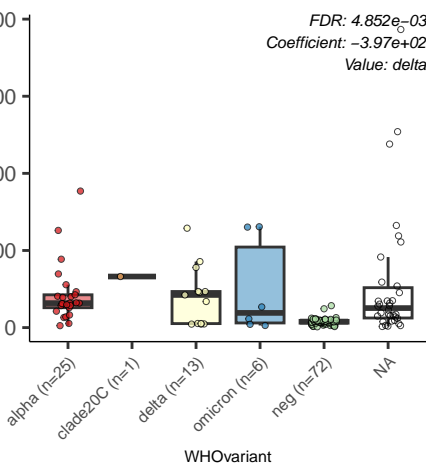


eria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__We



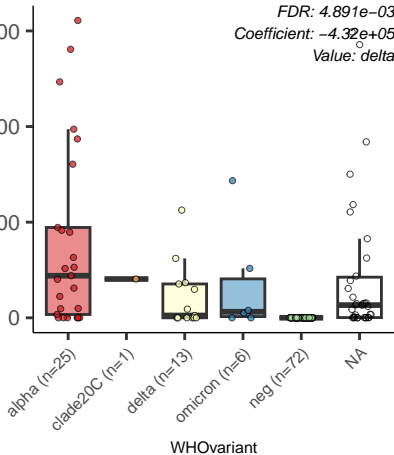
bacteria.p__Cyanobacteria.o__Synechococcales.f__Synechococcaceae

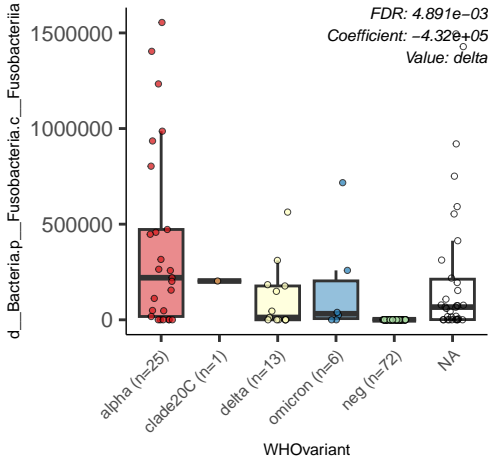
$FDR: 4.852e-03$
 $Coefficient: -3.97e+02$
 $Value: delta$

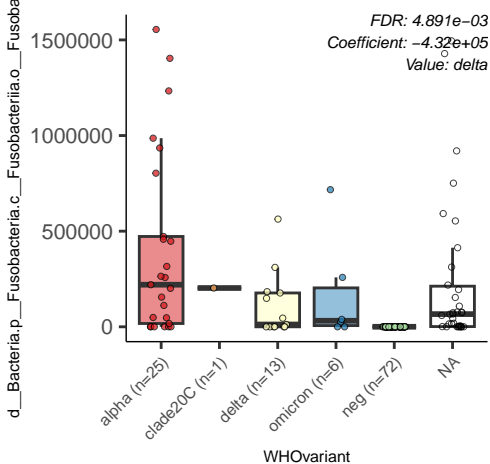


d_Bacteria.p_Fusobacteria

FDR: $4.891e-03$
Coefficient: $-4.32e+05$
Value: delta

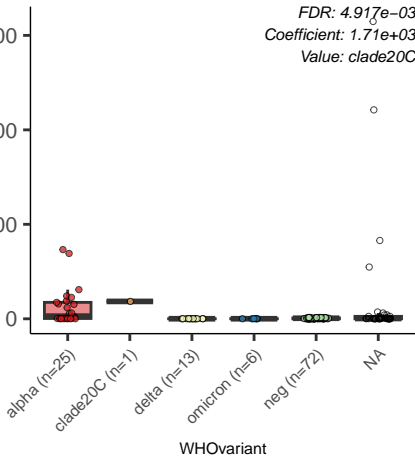






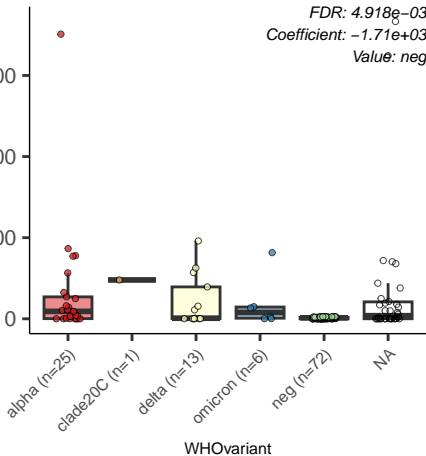
obacteria.c__Betaproteobacteria.o__Burkholderiales.f__Comamonad

FDR: $4.917e-03$
Coefficient: $1.71e+03$
Value: clade20C



cteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae

FDR: $4.918e-03$
Coefficient: $-1.71e+03$
Value: neg



o_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Dermaba

FDR: 5.067e-03
Coefficient: -1.58e+02
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

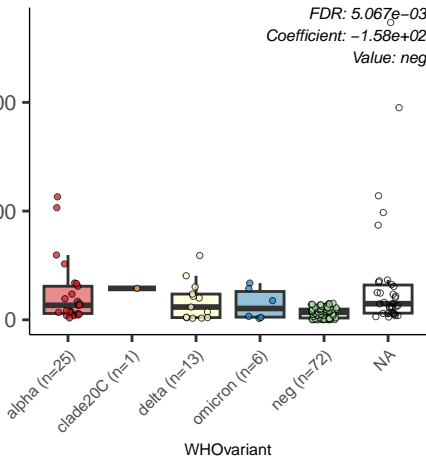
delta (n=13)

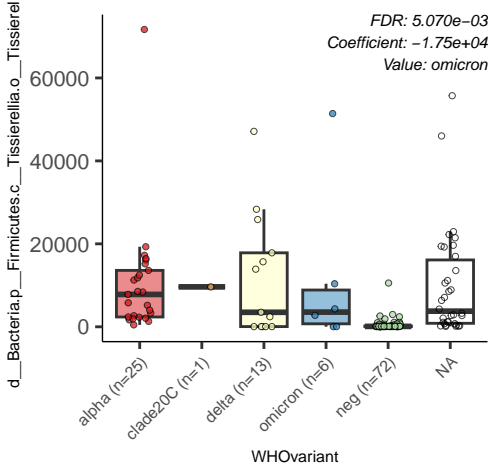
omicron (n=6)

neg (n=72)

NA

WHOvariant





a.p__Tenericutes.c__Mollicutes.o__Acholeplasma.tales.f__Acholeplasma

1000

500

0

alpha (n=25)

clade20C (n=1)

delta (n=13)

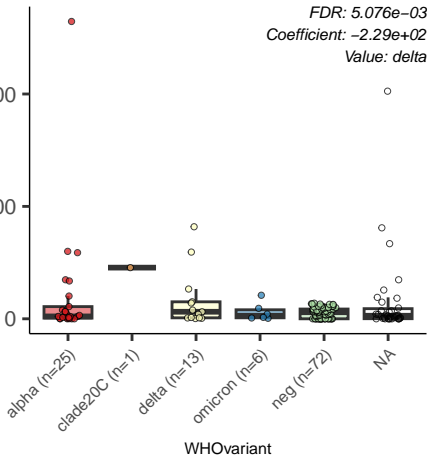
omicron (n=6)

neg (n=72)

NA

WHOvariant

FDR: 5.076e-03
Coefficient: -2.29e+02
Value: delta



FDR: 5.076e-03
Coefficient: -2.29e+02
Value: delta

1000

500

0

alpha (n=25)

clade20C (n=1)

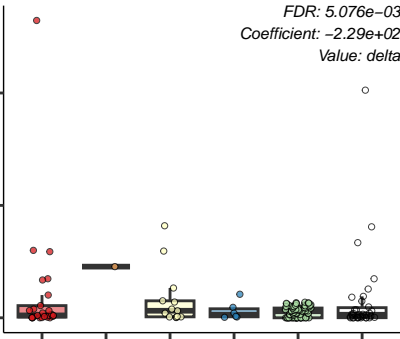
delta (n=13)

omicron (n=6)

neg (n=72)

NA

WHOvariant



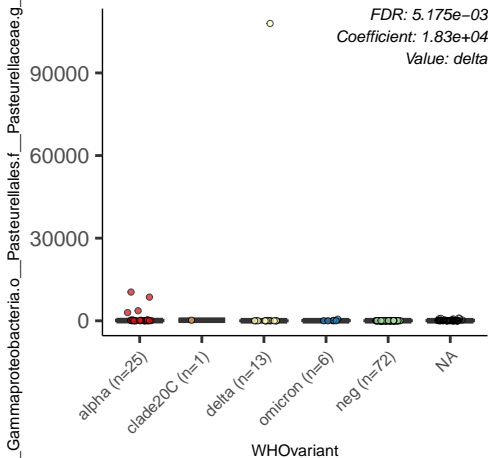
Value: neg

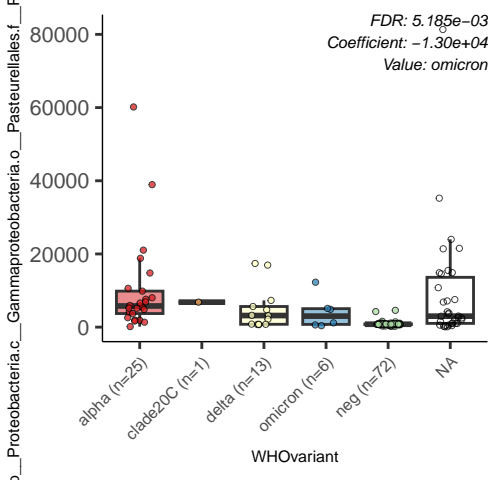


neg (n=72)

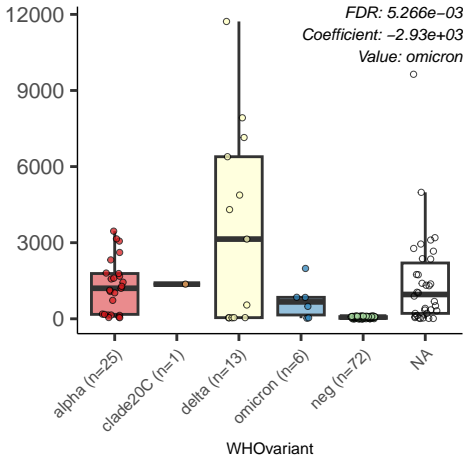
NA

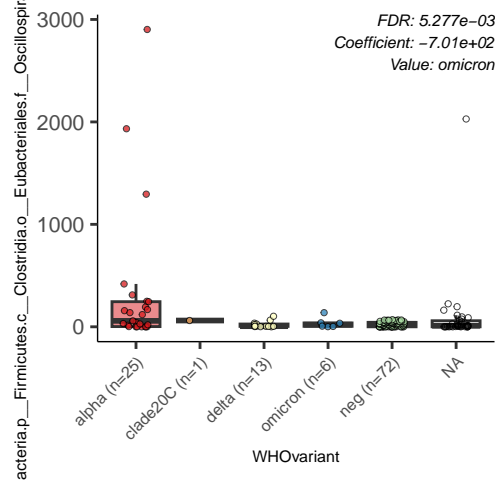
WHOvariant

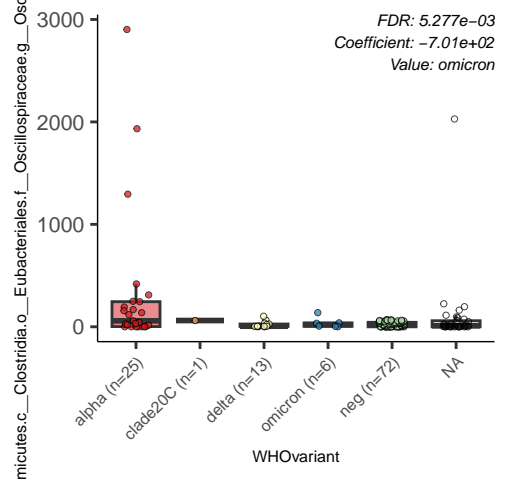




d_Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Ent





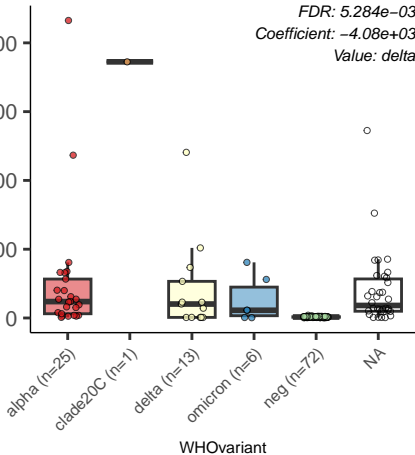


d_Bacteria.p__Planctomycetes

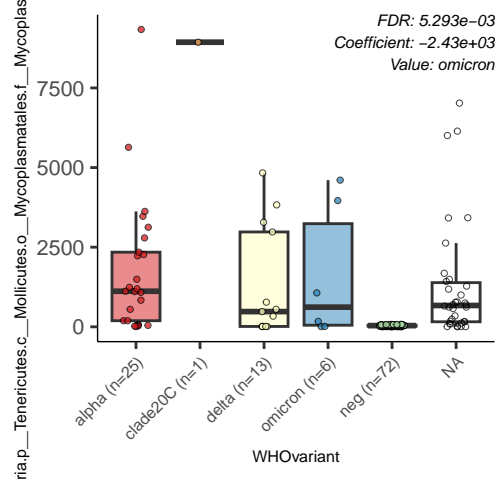
FDR: 5.284e-03

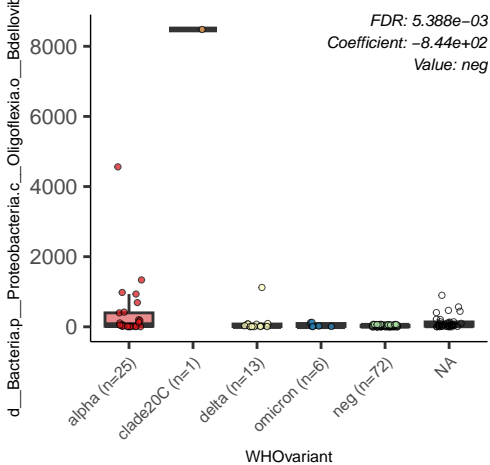
Coefficient: -4.08e+03

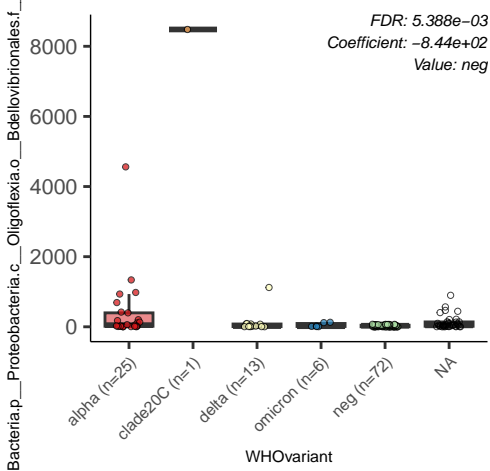
Value: delta

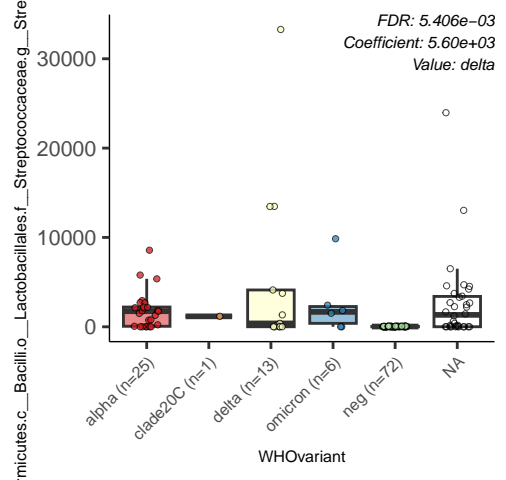


WHOvariant

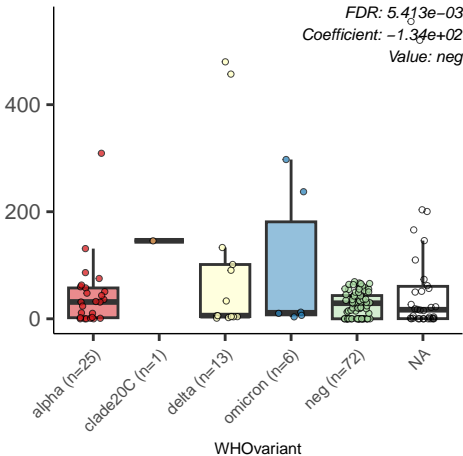


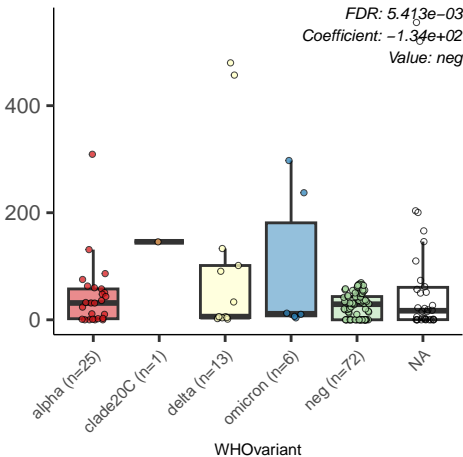


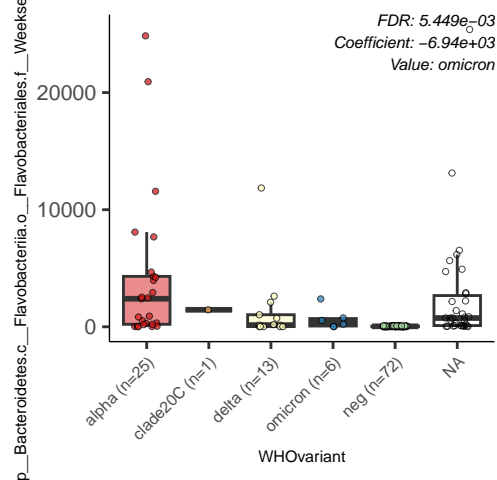


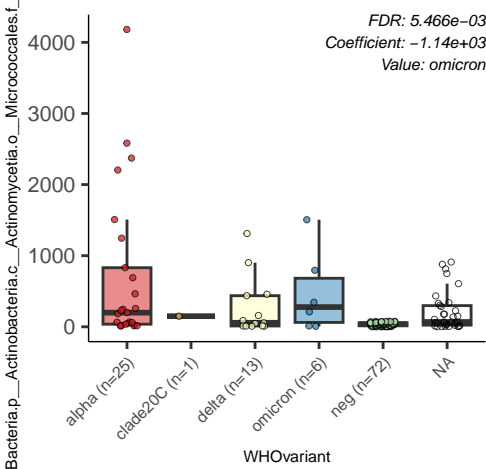


eria.p__Bacteroidetes.c__Bacteroidia.o__Marinilabiales.f__Marinil

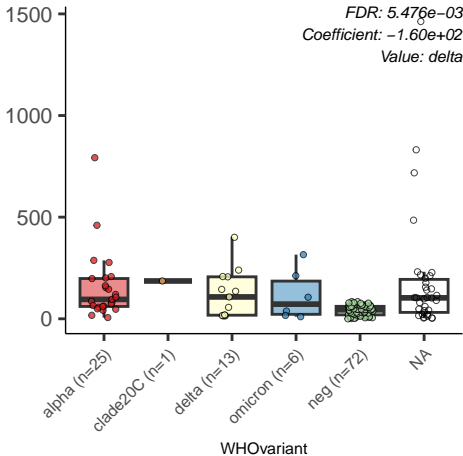


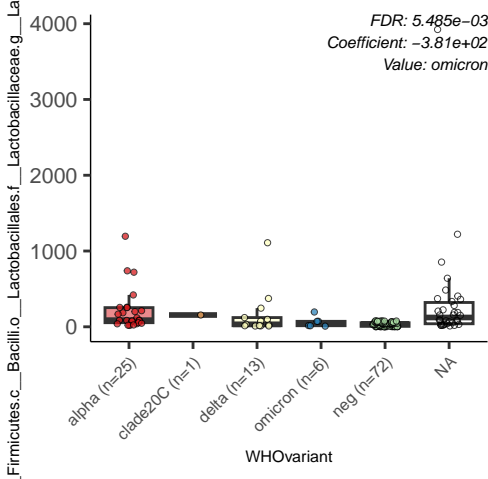


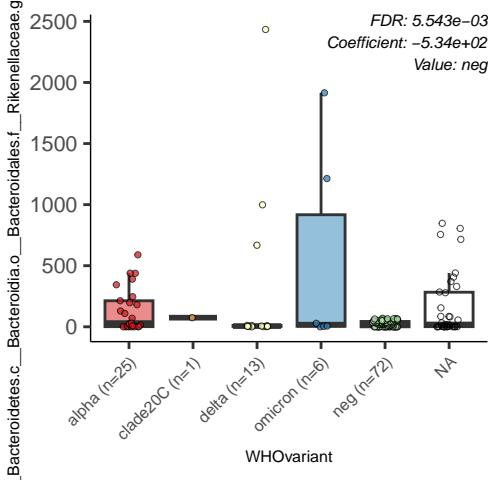


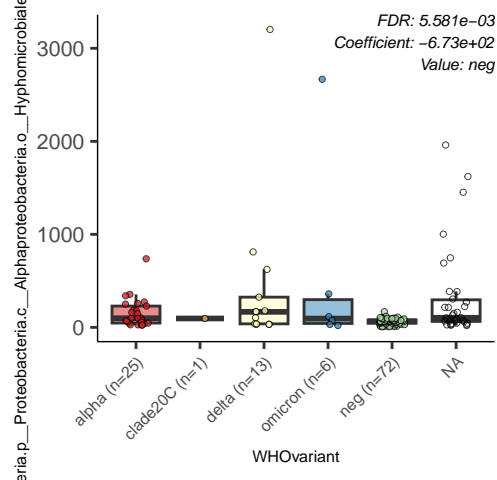


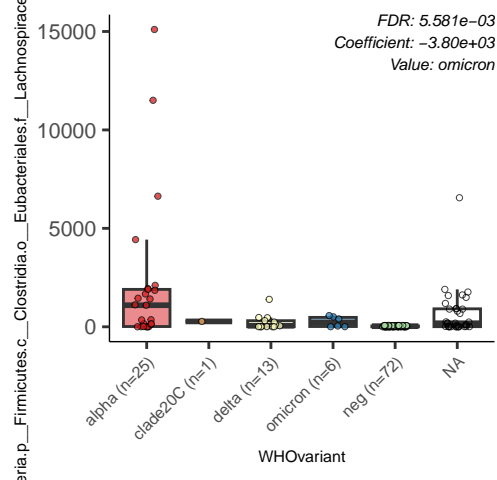
ia.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__R

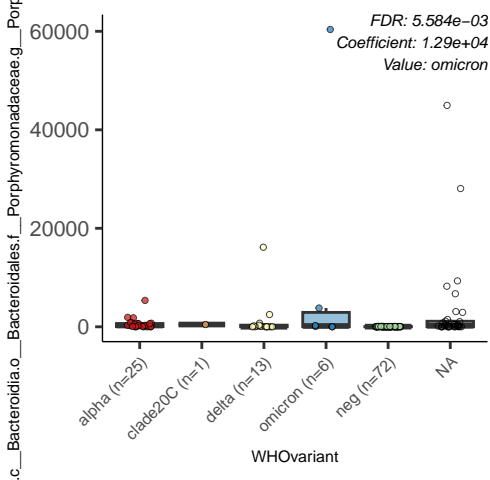




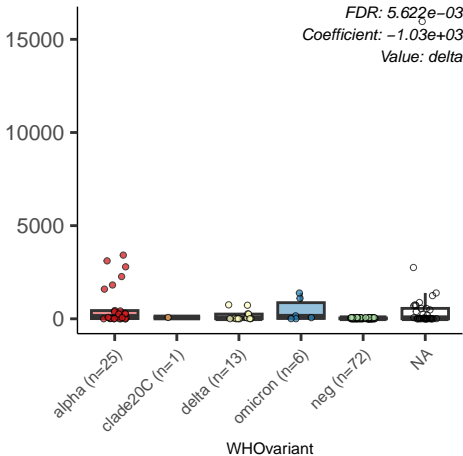


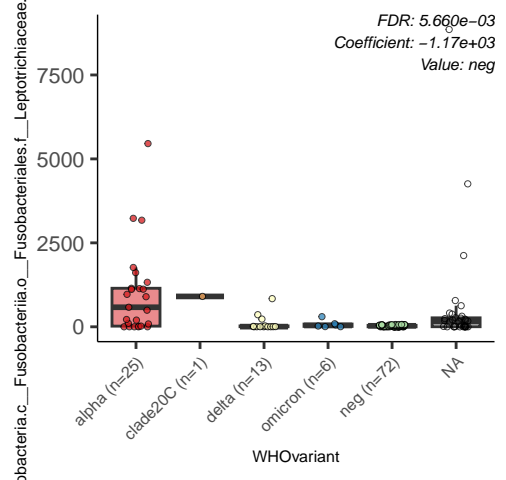


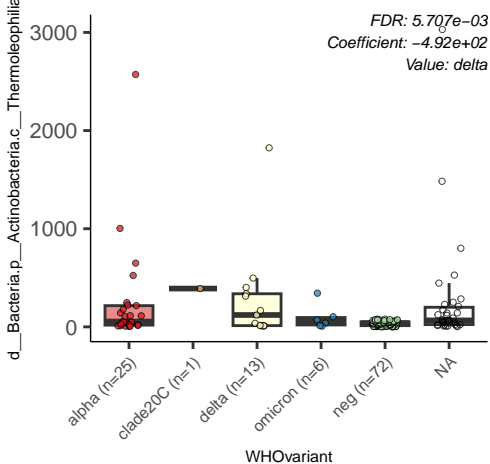




bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

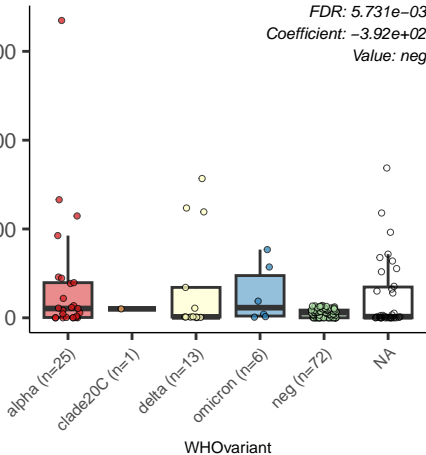




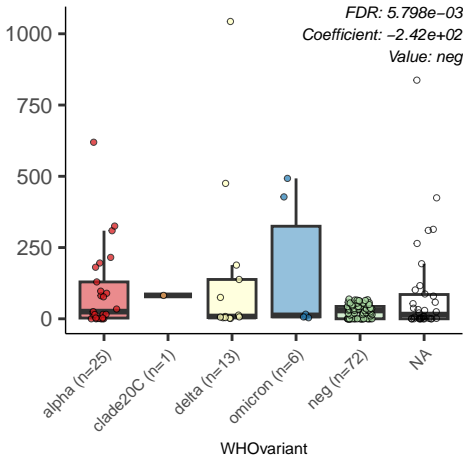


terial.p__Thermotogae.c__Thermotogae.o__Kosmotogales.f__Kosm

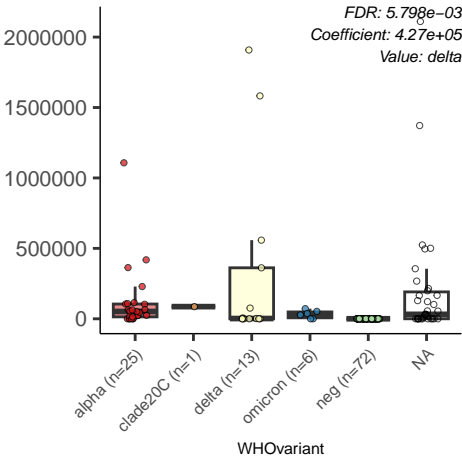
FDR: 5.731e-03
Coefficient: -3.92e+02
Value: neg



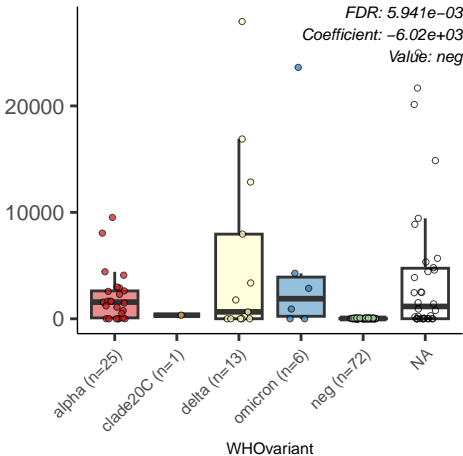
Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae.g

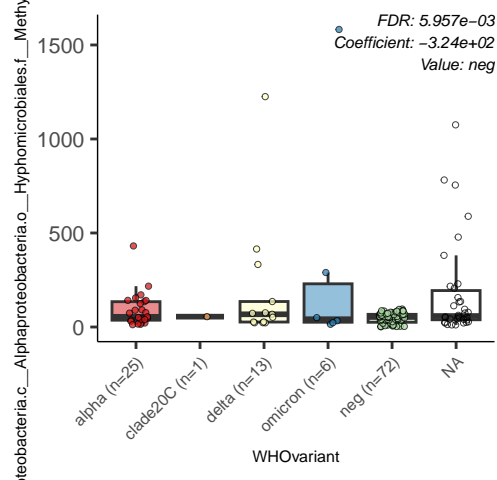


_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.g_Gemella.s_Ge

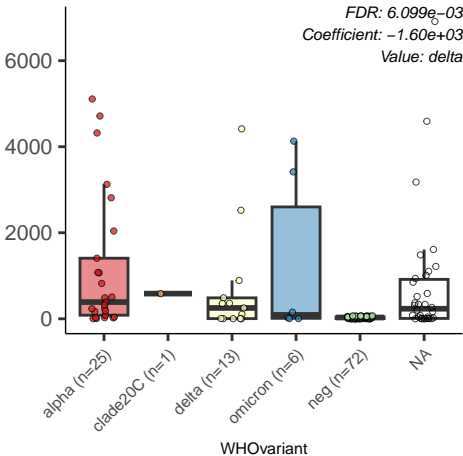


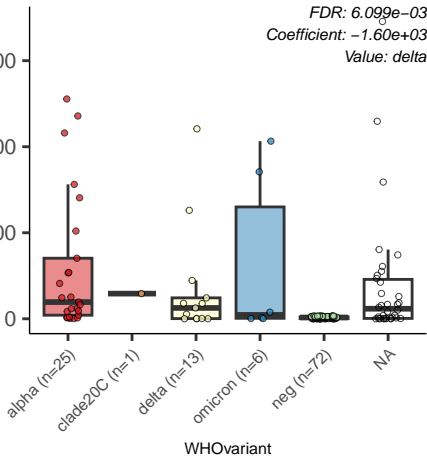
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus





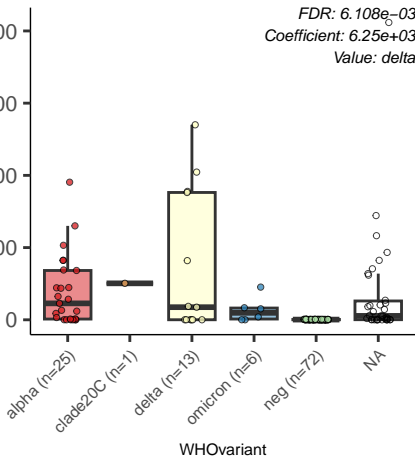
bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Peptostrept





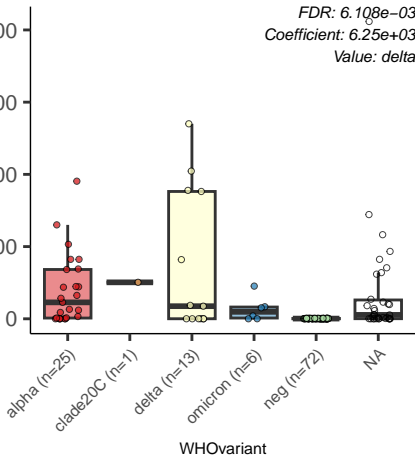
Candidatus.Saccharibacteria.c__Candidatus.Saccharimonadia.o

FDR: $6.108e-03$
Coefficient: $6.25e+03$
Value: delta



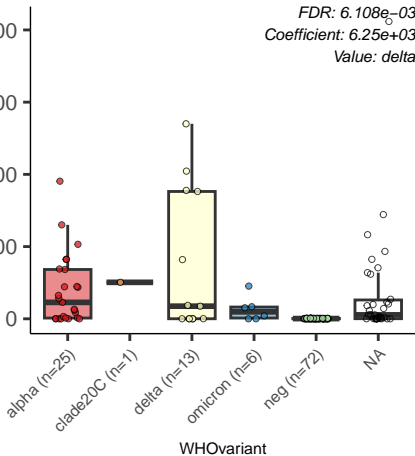
naribacteria.c__Candidatus.Saccharimonadia.o__Candidatus.Sacch

FDR: 6.108e-03
Coefficient: 6.25e+03
Value: delta



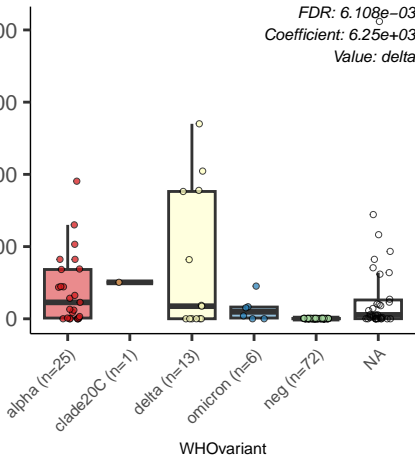
Candidatus.Saccharimonadia.o__Candidatus.Saccharimonadales.f

FDR: $6.108e-03$
Coefficient: $6.25e+03$
Value: delta



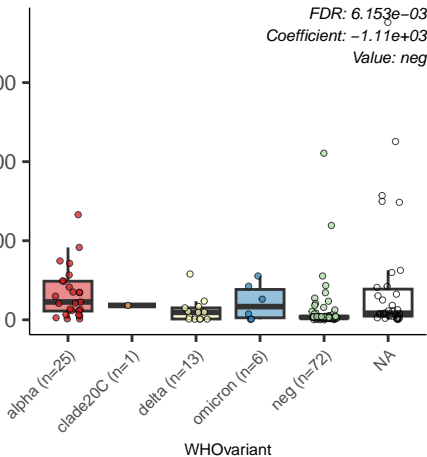
onadia.o__Candidatus.Saccharimonadales.f__Candidatus.Sacchari

FDR: 6.108e-03
Coefficient: 6.25e+03
Value: delta



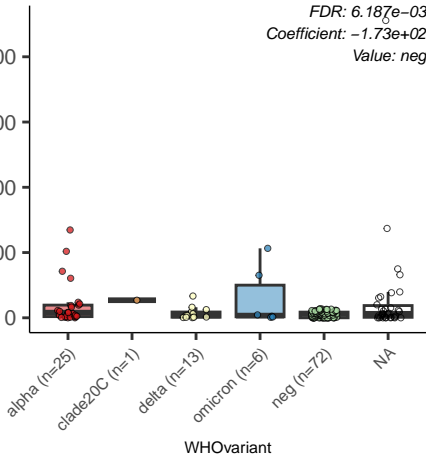
cteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniph

FDR: 6.153e-03
Coefficient: -1.11e+03
Value: neg



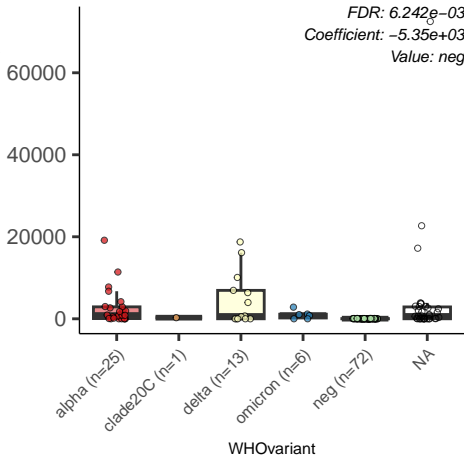
Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__

FDR: $6.187e-03$
Coefficient: $-1.73e+02$
Value: neg



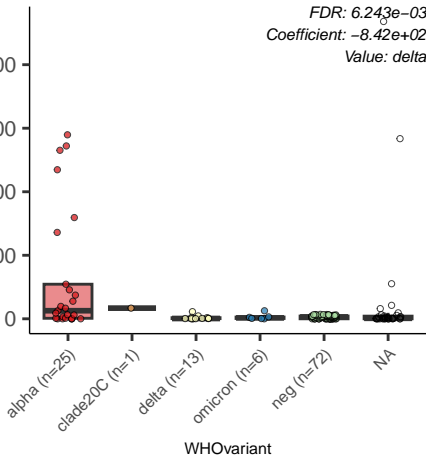
nicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

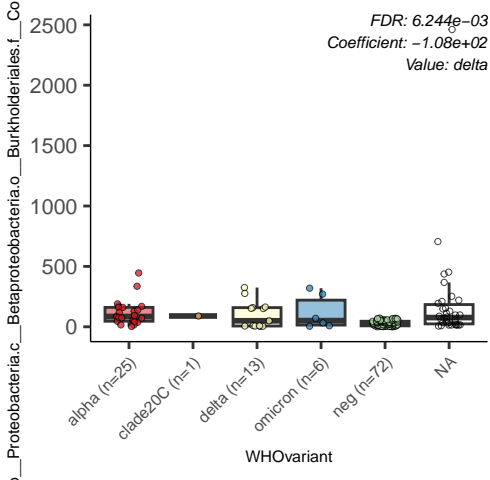
FDR: $6.242e-03$
Coefficient: $-5.35e+03$
Value: neg

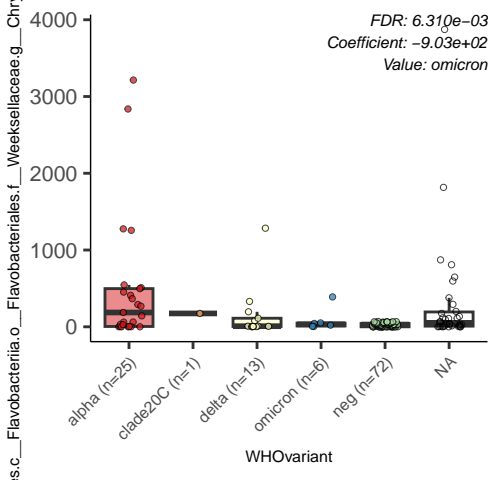


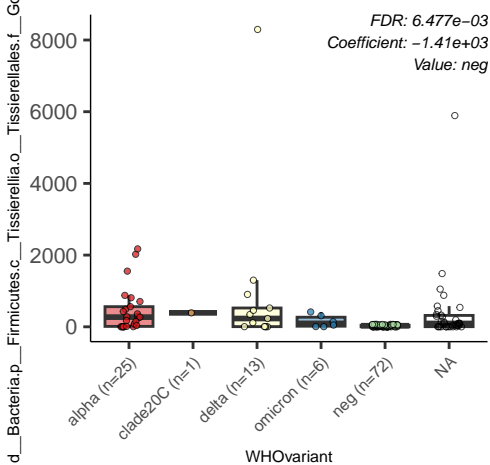
psilonproteobacteria.o__Campylobacterales.f__Campylobacteraceae

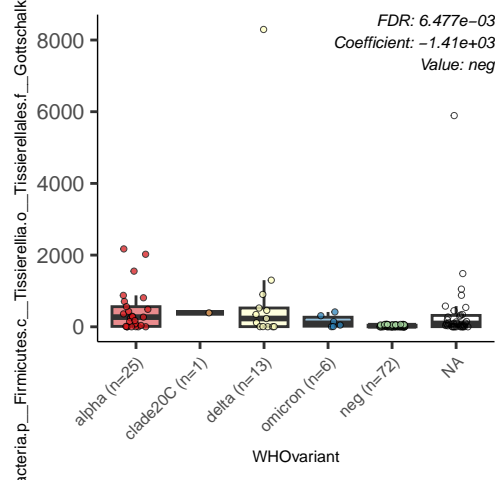
FDR: $6.243e-03$
Coefficient: $-8.42e+02$
Value: delta

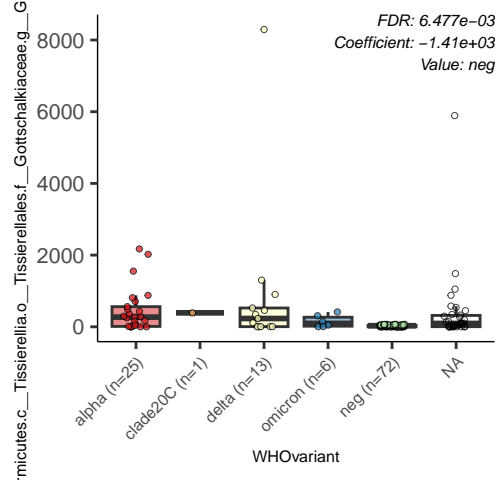


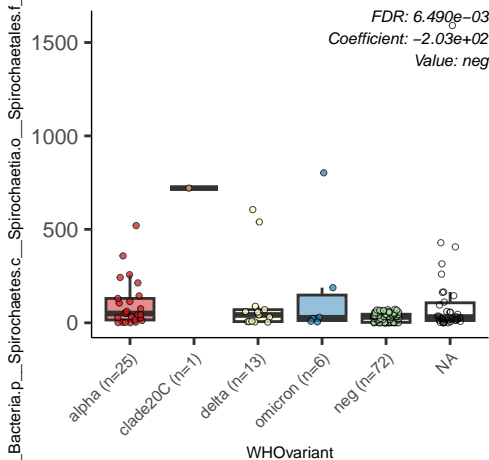




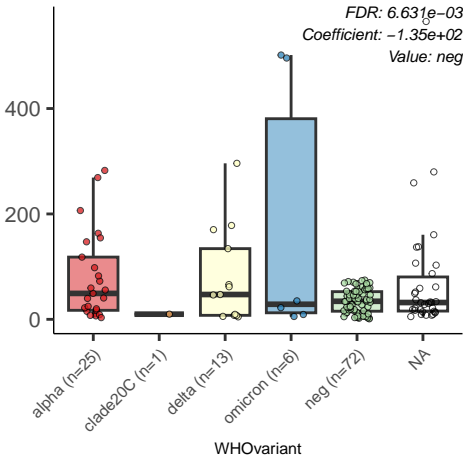


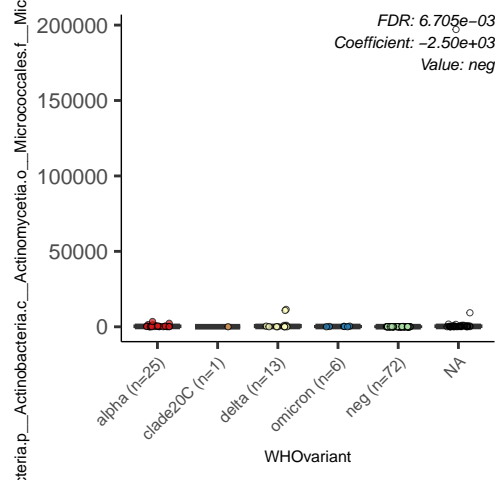


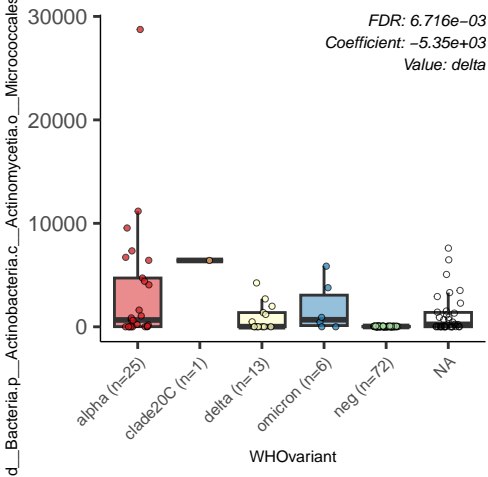




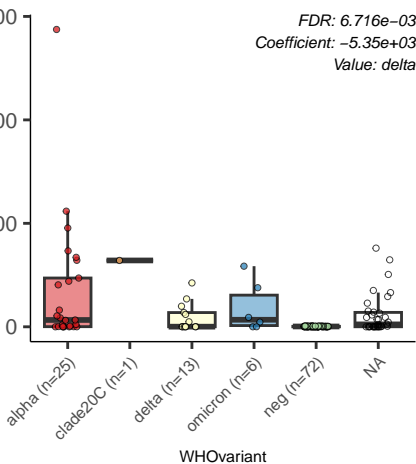
Actinobacteria.c_Actinomycetia.o_Propionibacteriales.f_Propio



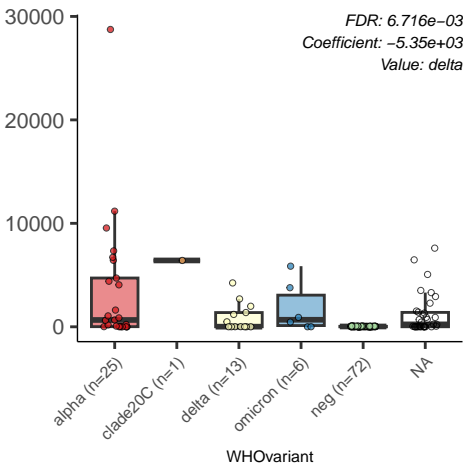




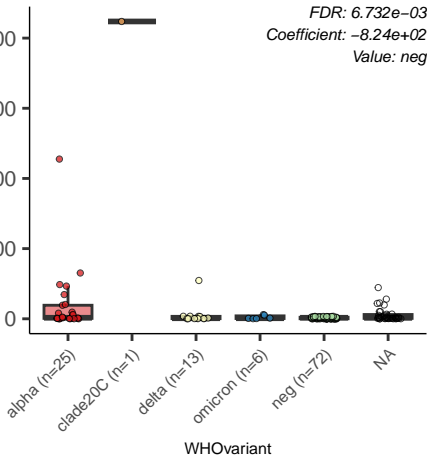
FDR: $6.716e-03$
Coefficient: $-5.35e+03$
Value: delta

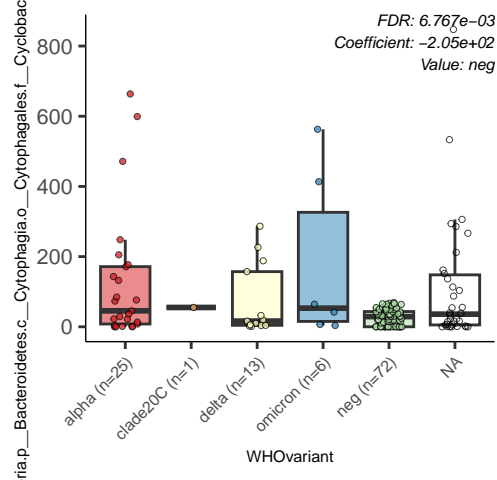


ctinobacteria.c__Actinomycetia.o__Micrococcales.f__Jonesiaceae.g



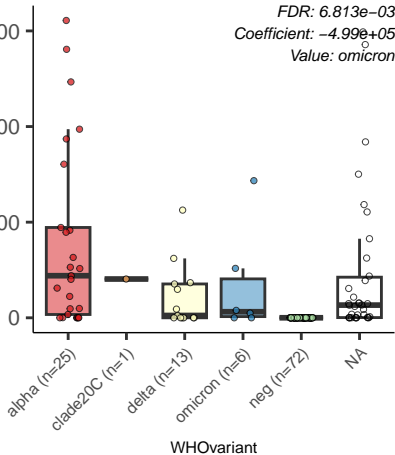
ia.p__Proteobacteria.c__Oligoflexia.o__Bdellovibrionales.f__Bdellov

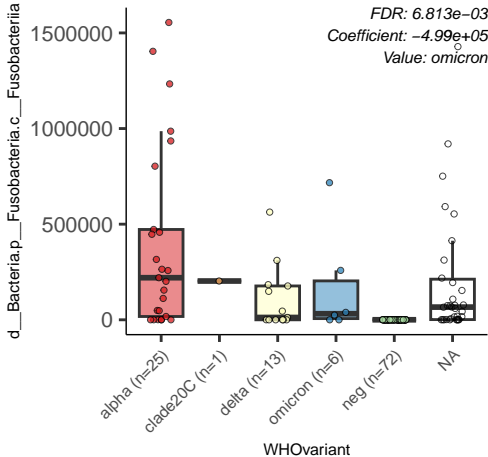


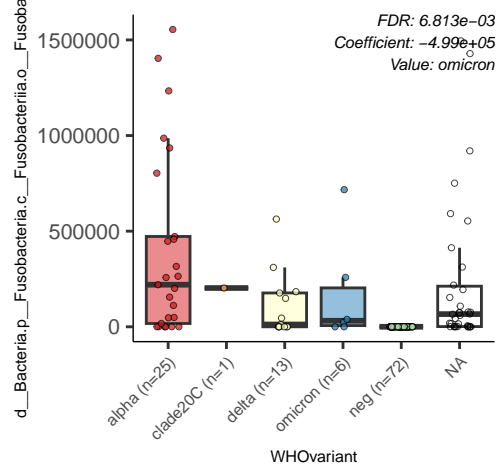


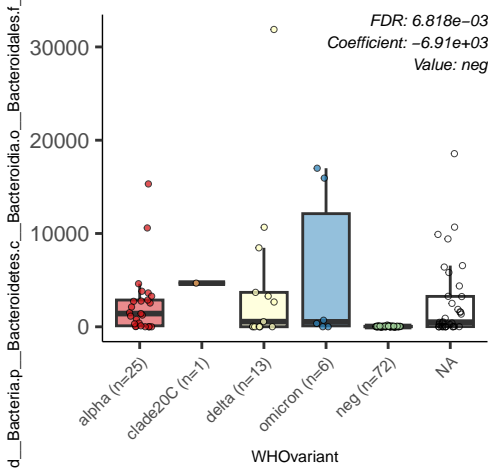
d_Bacteria.p_Fusobacteria

FDR: $6.813e-03$
Coefficient: $-4.99e+05$
Value: omicron

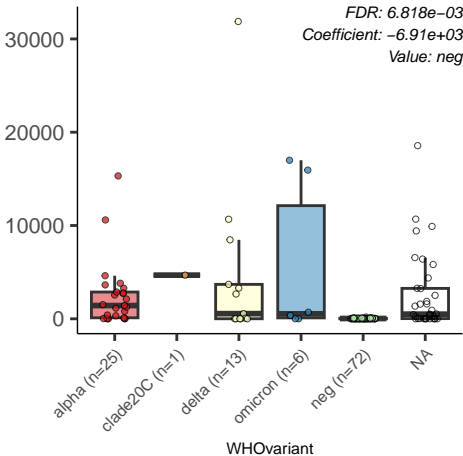






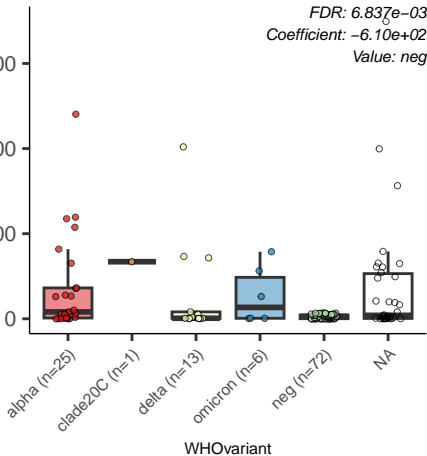


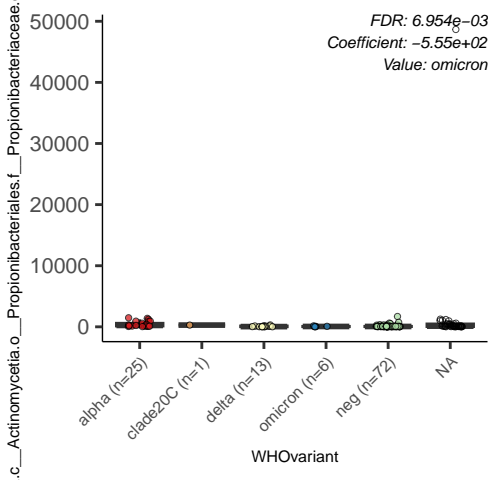
Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Rikenellaceae

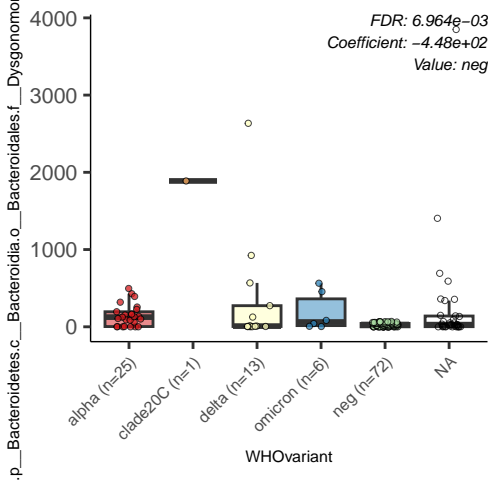


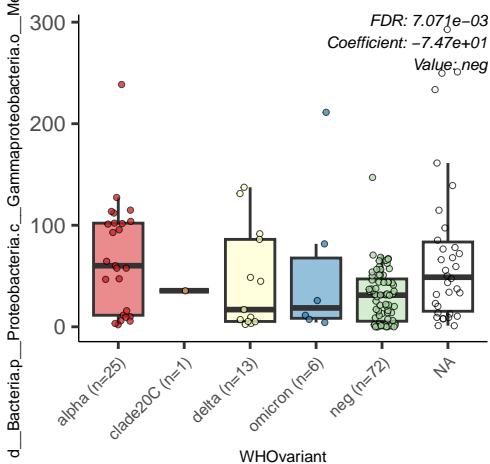
Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f__Rhodospirillales

FDR: $6.837e-03$
Coefficient: $-6.10e+02$
Value: neg

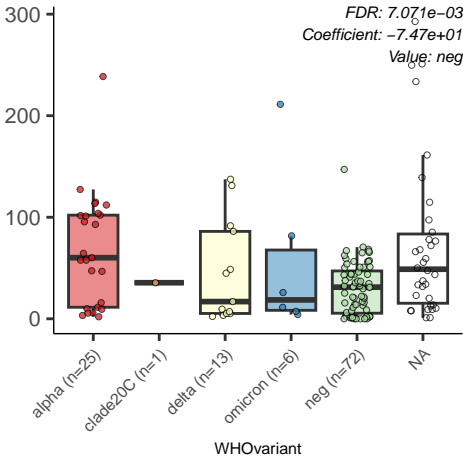




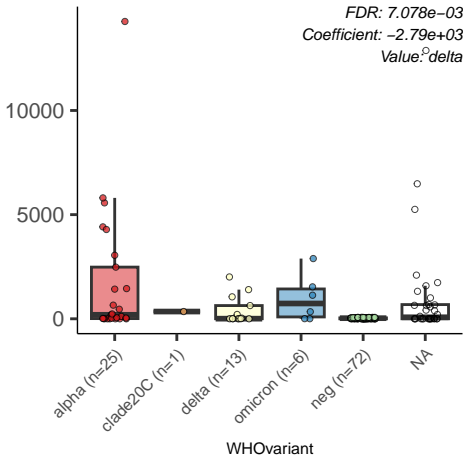


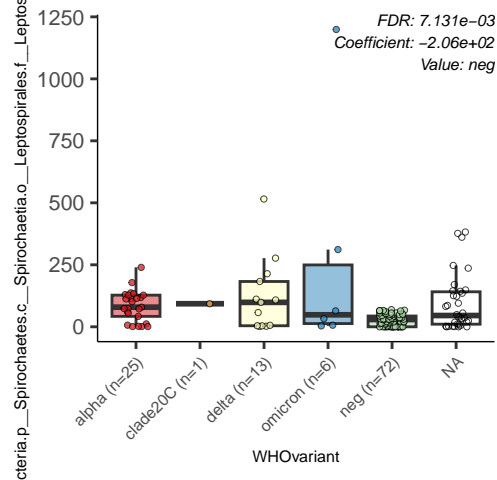


eria.p__Proteobacteria.c__Gammaproteobacteria.o__Methylococ



bacteria.c__Actinomycetia.o__Corynebacteriales.f__Nocardiaceae.g





eria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Prevote

FDR: $7.166e-03$
Coefficient: $-1.35e+04$
Value: delta

$1e+05$

$5e+04$

$0e+00$

alpha (n=25)

clade20C (n=1)

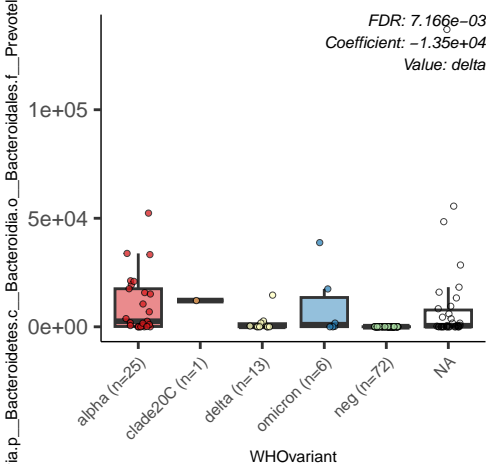
delta (n=13)

omicron (n=6)

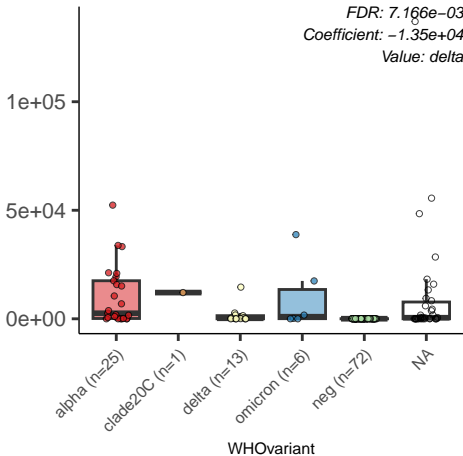
neg (n=72)

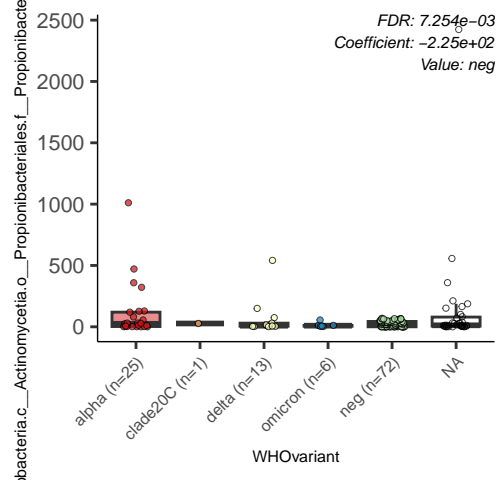
NA

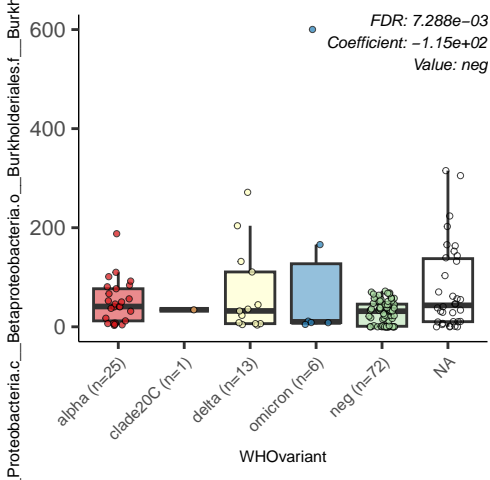
WHOvariant



FDR: $7.166e-03$
Coefficient: $-1.35e+04$
Value: delta

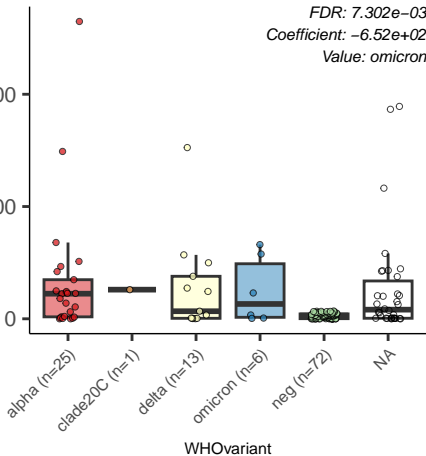


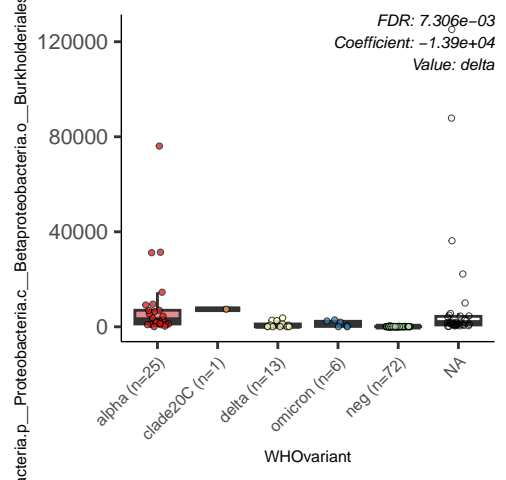




d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Marinifilum

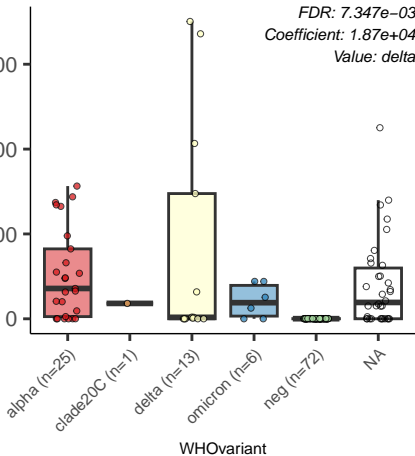
FDR: $7.302e-03$
Coefficient: $-6.52e+02$
Value: omicron





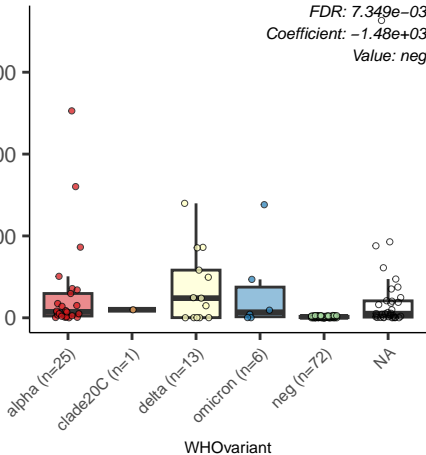
tes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

FDR: $7.347e-03$
Coefficient: $1.87e+04$
Value: delta



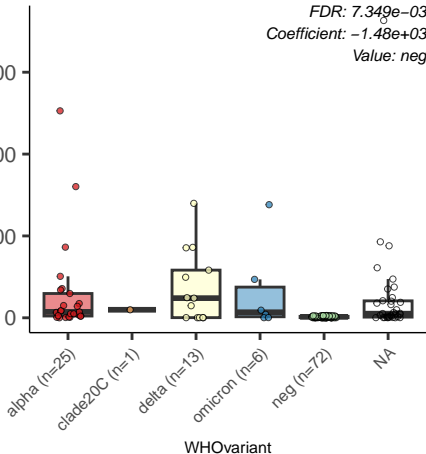
d_Bacteria.p_Actinobacteria.c_Coriobacteria.o_Egge

FDR: $7.349e-03$
Coefficient: $-1.48e+03$
Value: neg



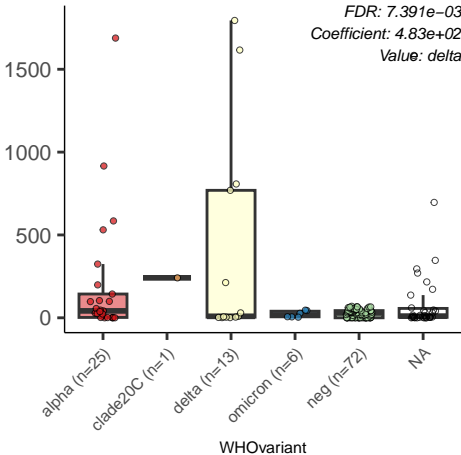
Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Eggerthellales.f

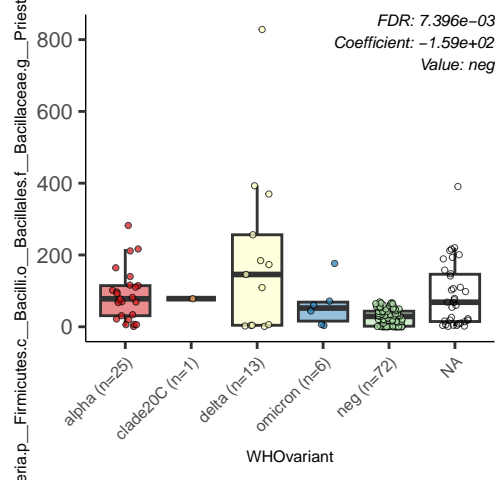
FDR: $7.349e-03$
Coefficient: $-1.48e+03$
Value: neg



Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales.f__E

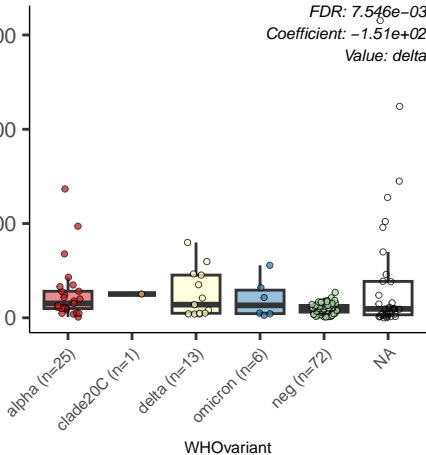
FDR: 7.391e-03
Coefficient: 4.83e+02
Value: delta

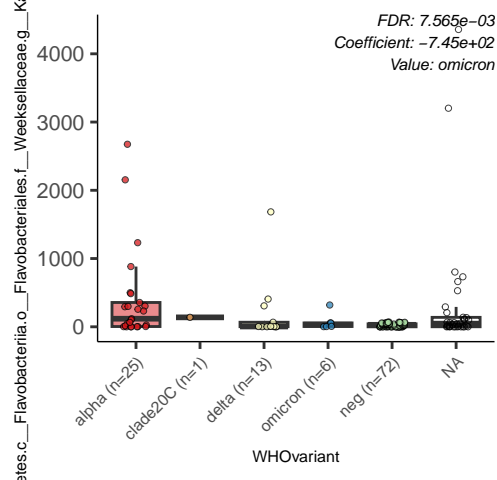




bacteria.o__Synechococcales.f__Synechococcaceae.g__Synecho

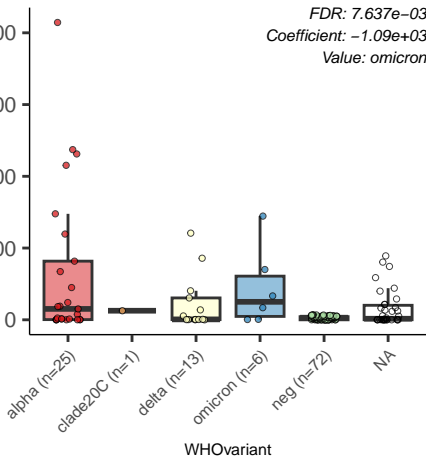
FDR: $7.546e-03$
Coefficient: $-1.51e+02$
Value: delta





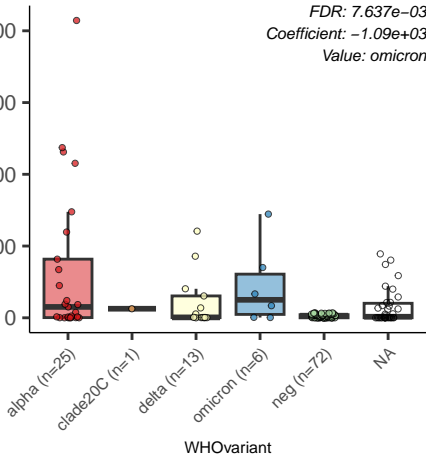
ria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Derma

FDR: $7.637e-03$
Coefficient: $-1.09e+03$
Value: omicron

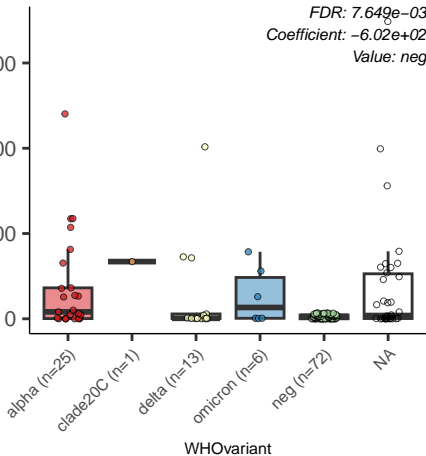


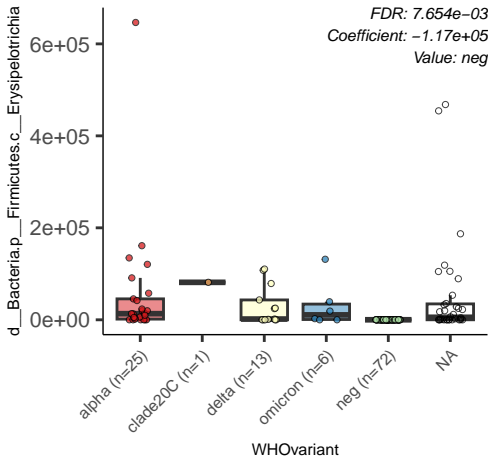
bbacteria.c__Actinomycetia.o__Micrococcales.f__Dermatophilaceae

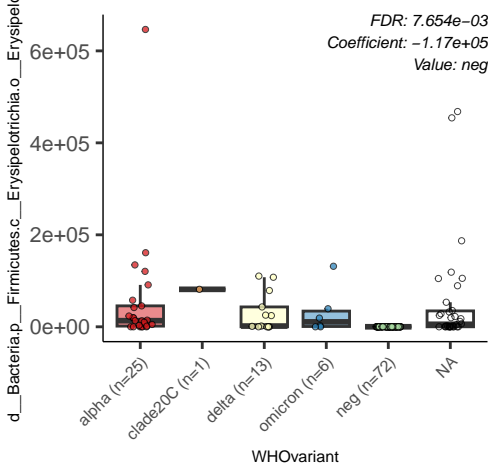
FDR: $7.637e-03$
Coefficient: $-1.09e+03$
Value: omicron



FDR: $7.649e-03$
Coefficient: $-6.02e+02$
Value: neg

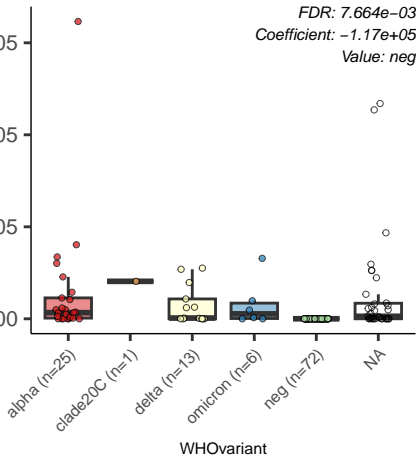






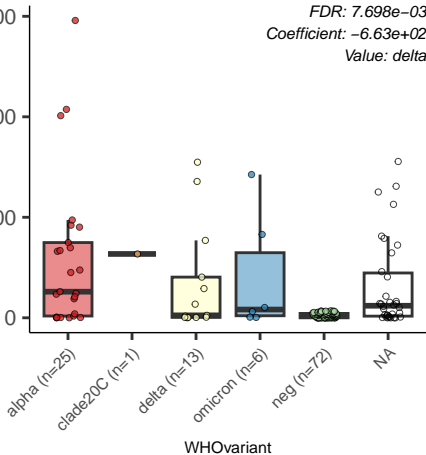
Bacteria.p__Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f

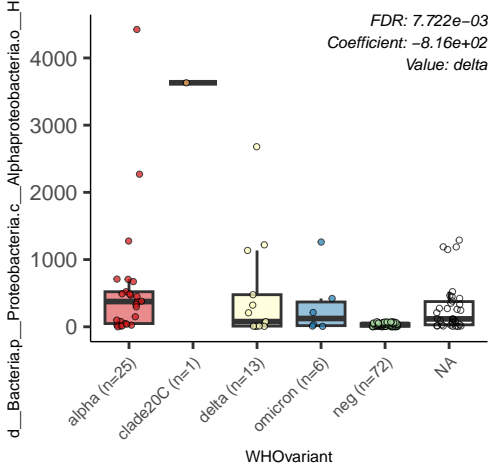
FDR: $7.664e-03$
Coefficient: $-1.17e+05$
Value: neg



cteria.c__Acidobacteriia.o__Acidobacteriales.f__Acidobacteriaceae.

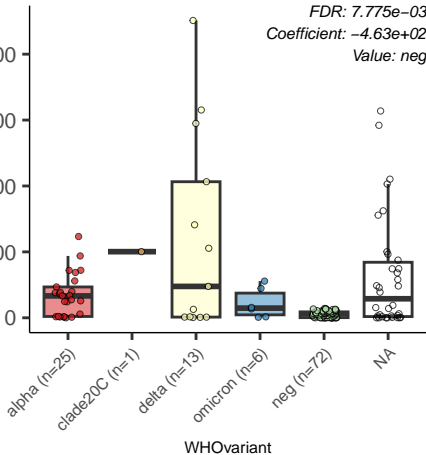
FDR: $7.698e-03$
Coefficient: $-6.63e+02$
Value: delta

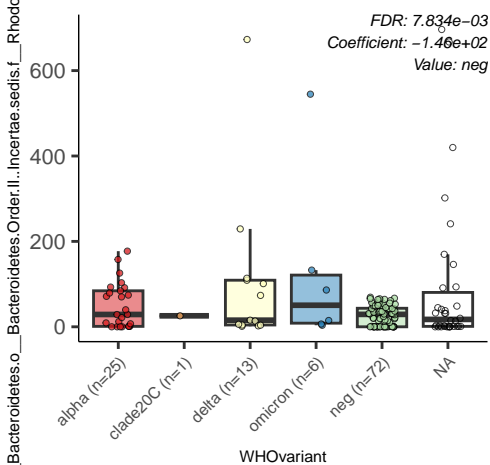




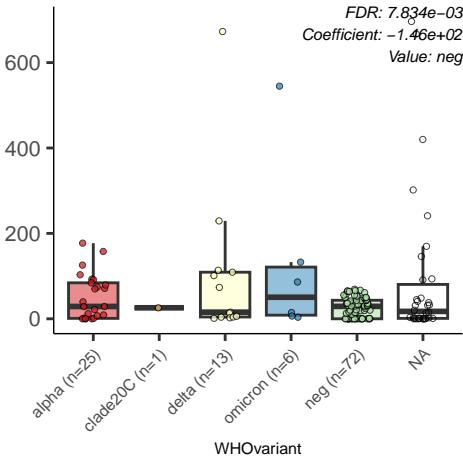
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Enterococce

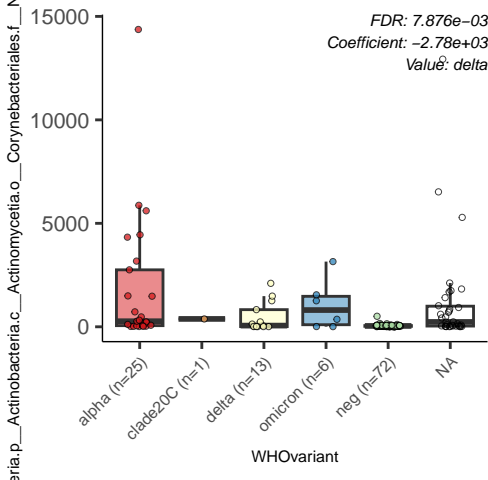
FDR: $7.775e-03$
Coefficient: $-4.63e+02$
Value: neg

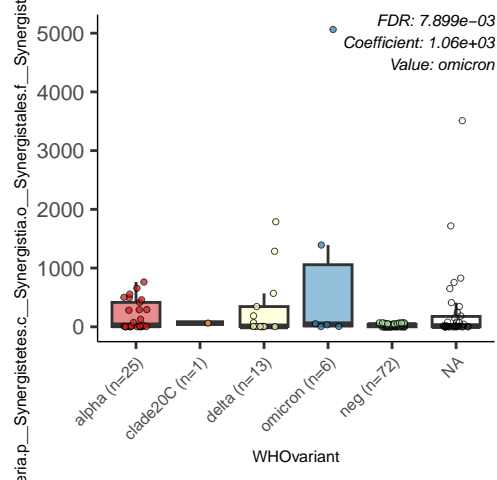


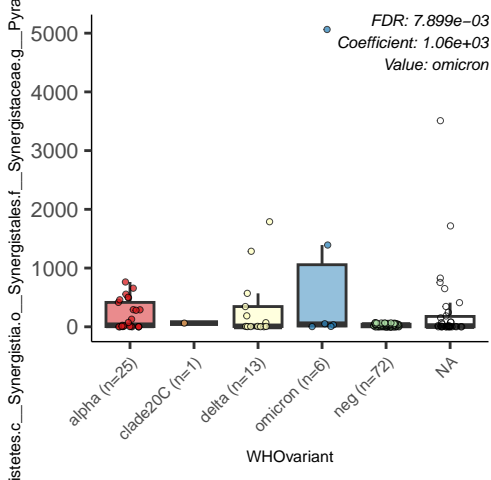


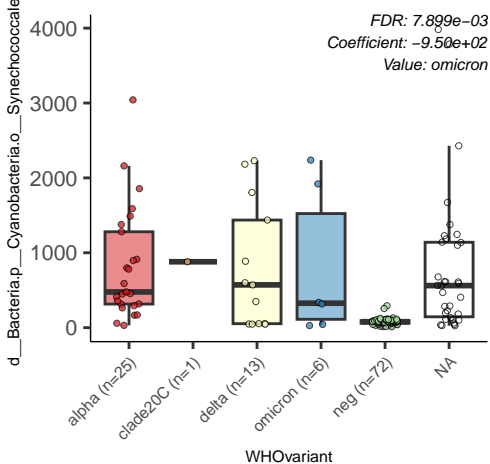
es.o__Bacteroidetes.Order.II..Incertae.sedis.f__Rhodothermaceae.g



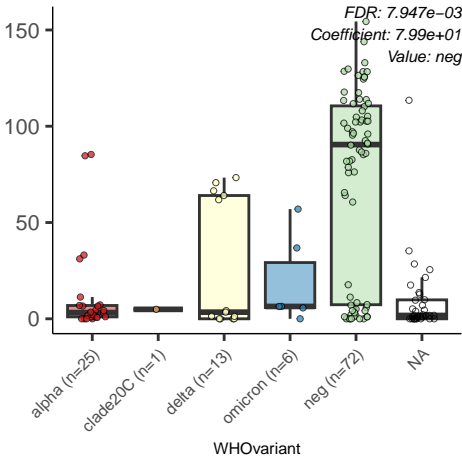








Alphaproteobacteria.o__Caulobacteriales.f__Caulobacteraceae.g



Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae.g__Capn

600

400

200

0

alpha (n=25)

clade20C (n=1)

delta (n=13)

omicron (n=6)

neg (n=72)

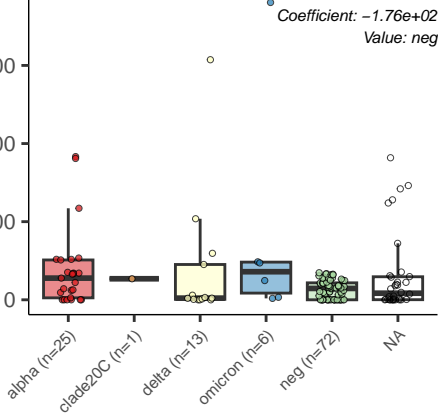
NA

WHOvariant

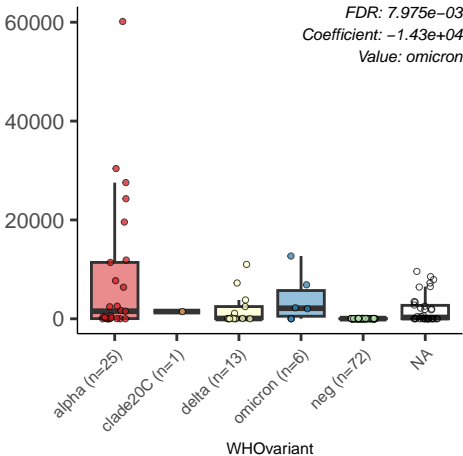
FDR: $7.952e-03$

Coefficient: $-1.76e+02$

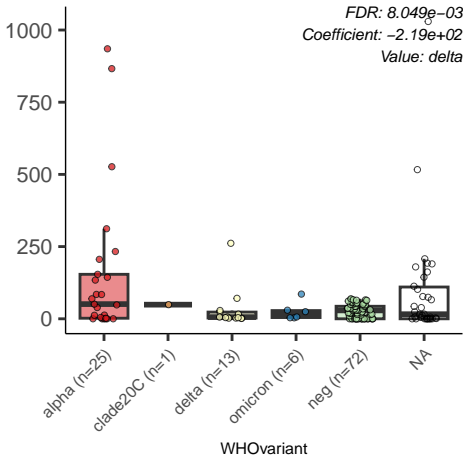
Value: neg



acteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae.g

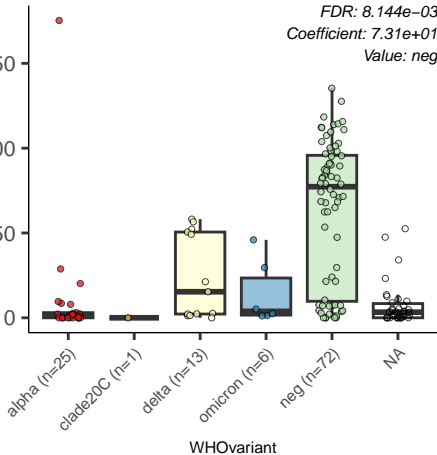


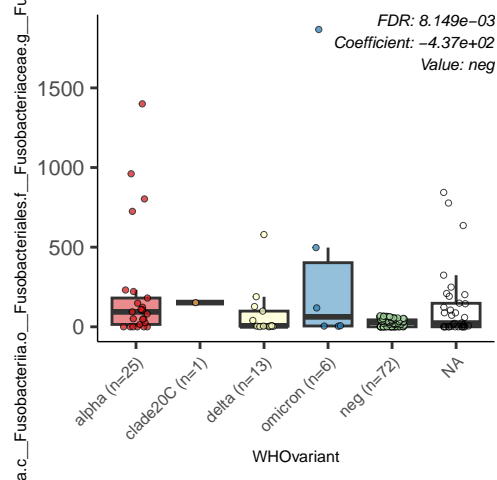
Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae.g__Elizabeth



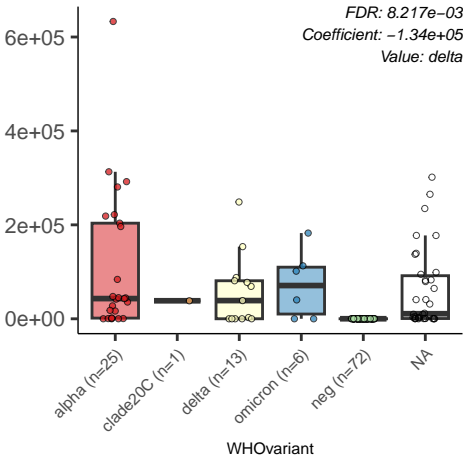
acteria.c__Alphaproteobacteria.o__Rhodobacterales.f__Rhodobacter

FDR: 8.144e-03
Coefficient: 7.31e+01
Value: neg



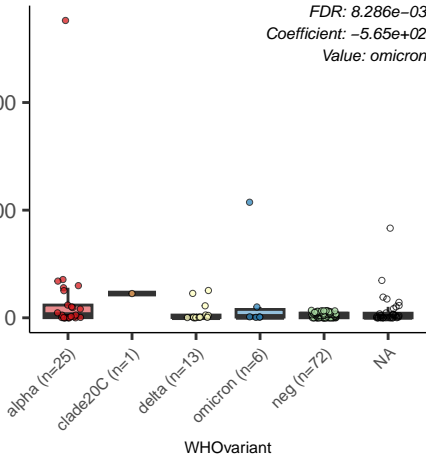


.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Actino



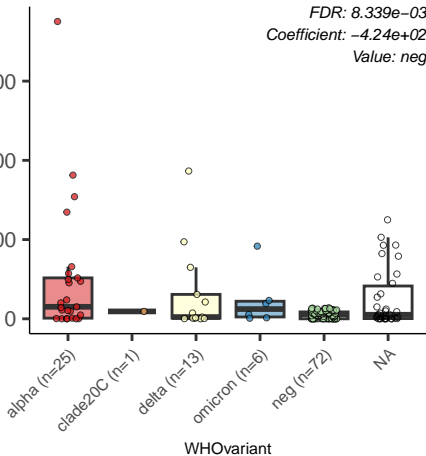
es.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g__Tre

FDR: $8.286e-03$
Coefficient: $-5.65e+02$
Value: omicron

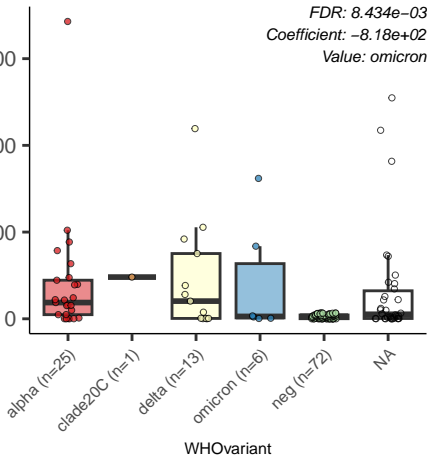


eria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Oscillospirace

FDR: $8.339e-03$
Coefficient: $-4.24e+02$
Value: neg

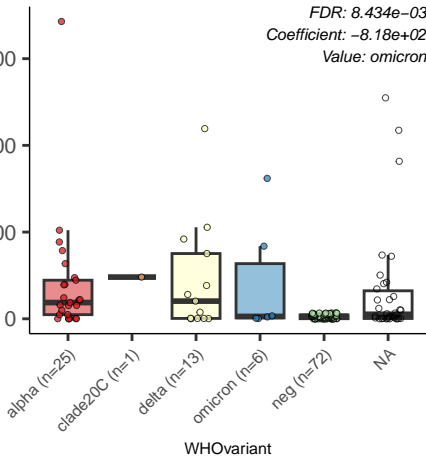


d_Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Chr



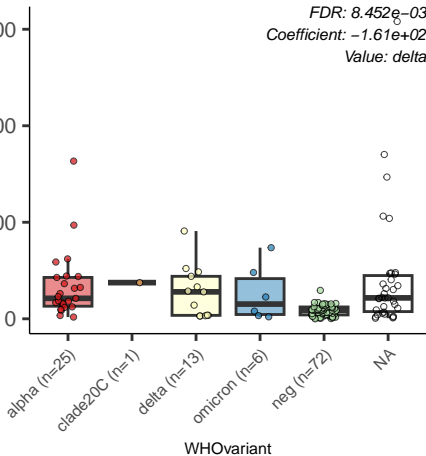
eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Christensenell

FDR: $8.434e-03$
Coefficient: $-8.18e+02$
Value: omicron



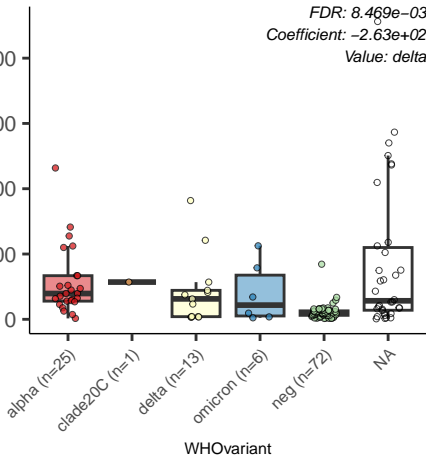
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsia

FDR: $8.452e-03$
Coefficient: $-1.61e+02$
Value: delta

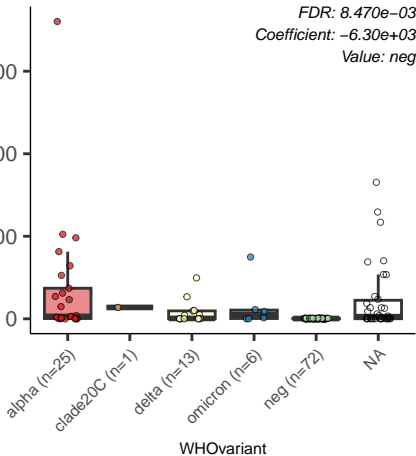


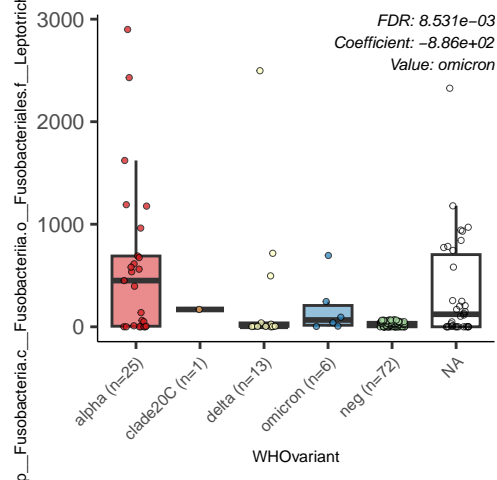
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales

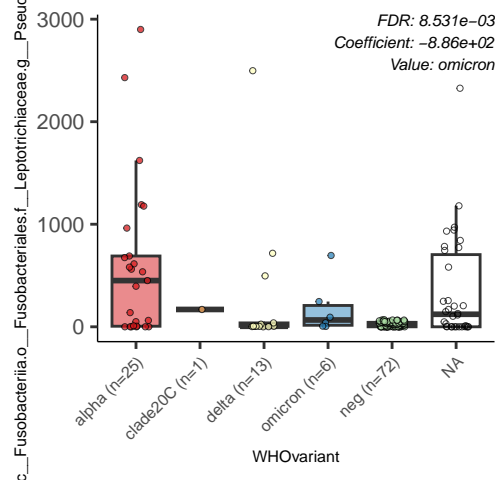
FDR: $8.469e-03$
Coefficient: $-2.63e+02$
Value: delta



unicutes.c__Negativicutes.o__Veillonellales.f__Veillonellaceae.g__Me

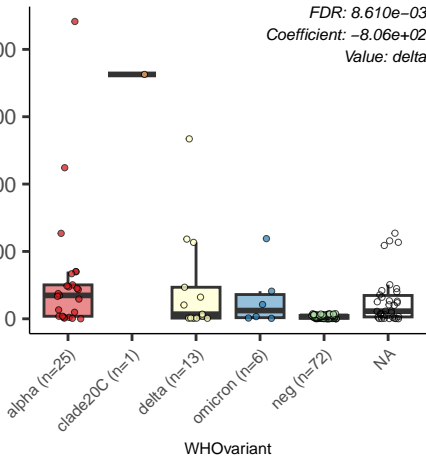






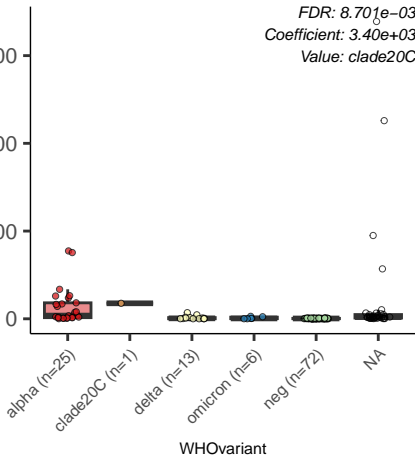
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Holosporal

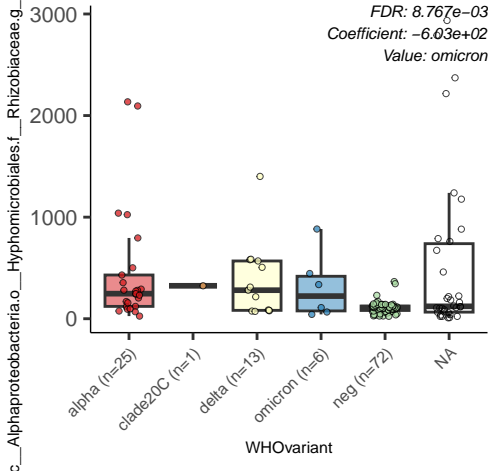
FDR: $8.610e-03$
Coefficient: $-8.06e+02$
Value: delta



Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Com

FDR: $8.701e-03$
Coefficient: $3.40e+03$
Value: clade20C





d__Bacteria.p__Cyanobacteria.o__Synechococcales.f__Acaryo

FDR: $8.850e-03$
Coefficient: $-5.83e+02$
Value: neg

2000

1000

0

alpha (n=25)

clade20C (n=1)

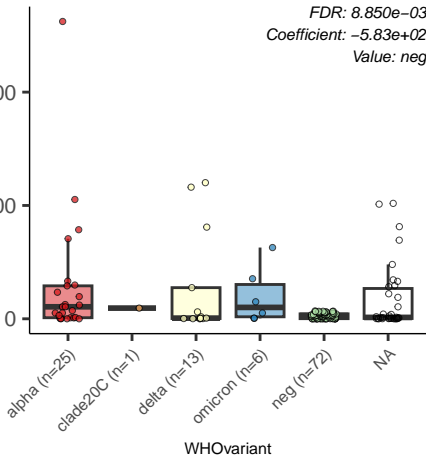
delta (n=13)

omicron (n=6)

neg (n=72)

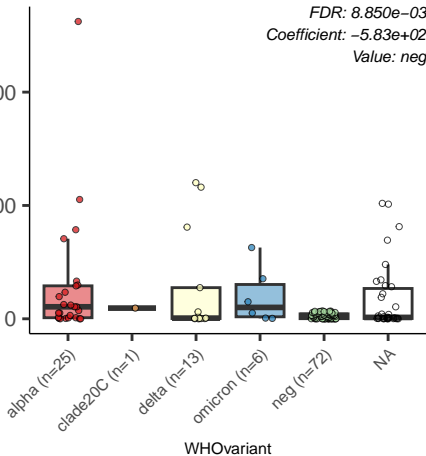
NA

WHOvariant



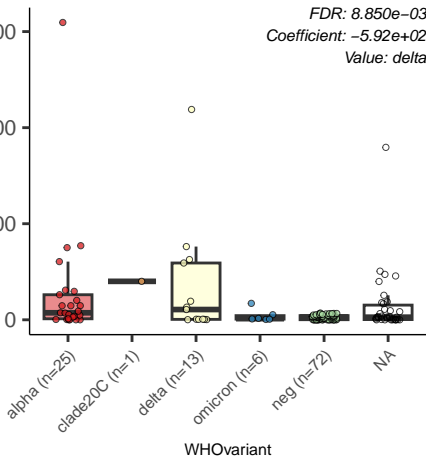
bacteria.p__Cyanobacteria.o__Synechococcales.f__Acaryochloridac

FDR: $8.850e-03$
Coefficient: $-5.83e+02$
Value: neg



utes.c__Clostridia.o__Eubacteriales.f__Christensenellaceae.g__Ch

FDR: 8.850e-03
Coefficient: -5.92e+02
Value: delta

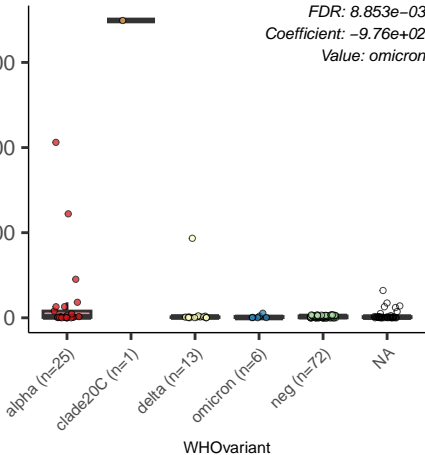


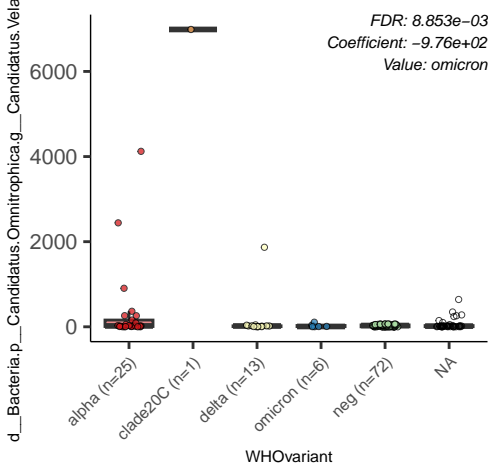
d_Bacteria.p__Candidatus.Omnitrophica

FDR: 8.853e-03

Coefficient: -9.76e+02

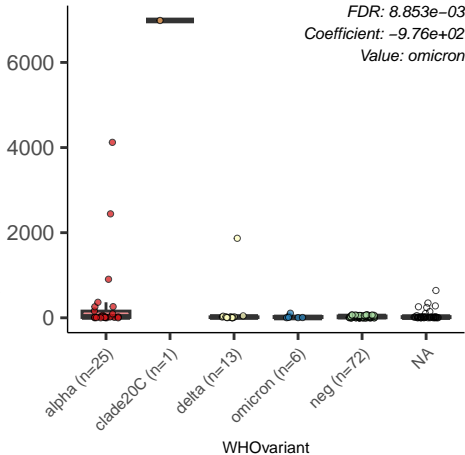
Value: omicron





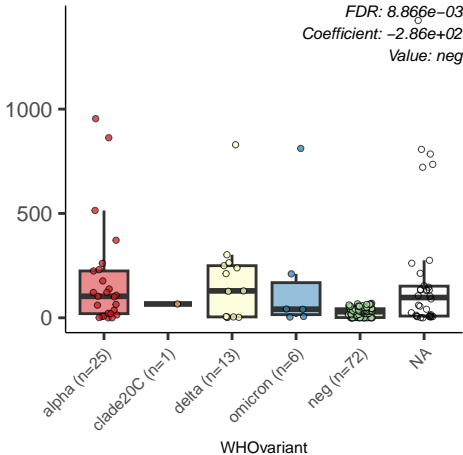
NA

Value: omicron

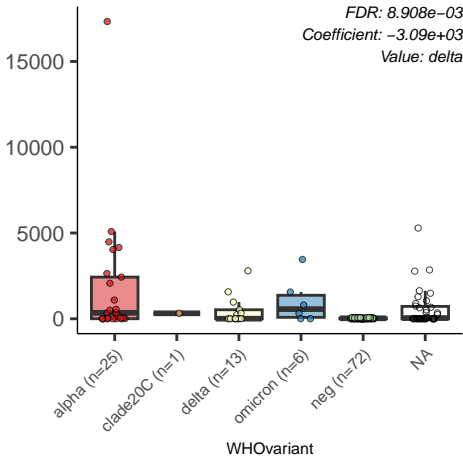


ria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Helicobacte

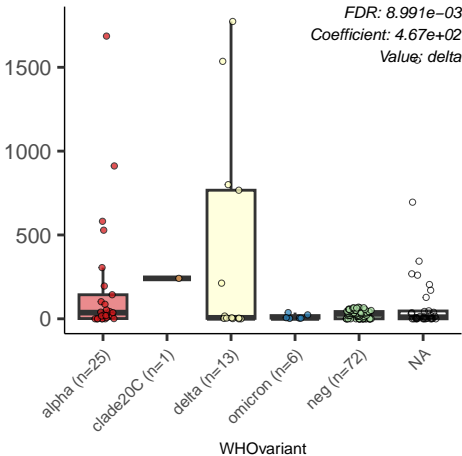
FDR: 8.866e-03
Coefficient: -2.86e+02
Value: neg

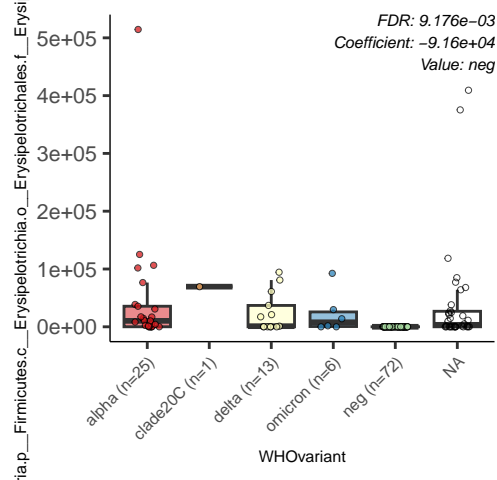


ia.c_Actinomycetia.o_Bifidobacteriales.f_Bifidobacteriaceae.g

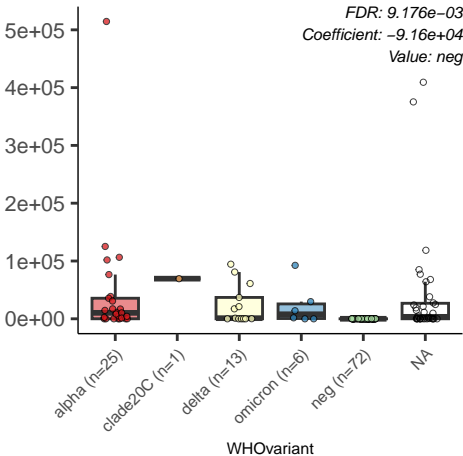


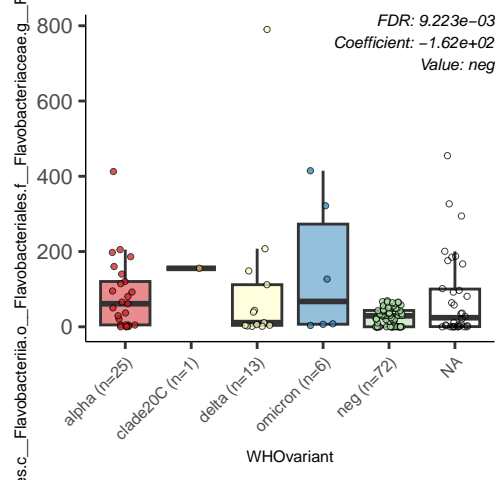
a.c__Gammaproteobacteria.o__Enterobacterales.f__Enterobacteri

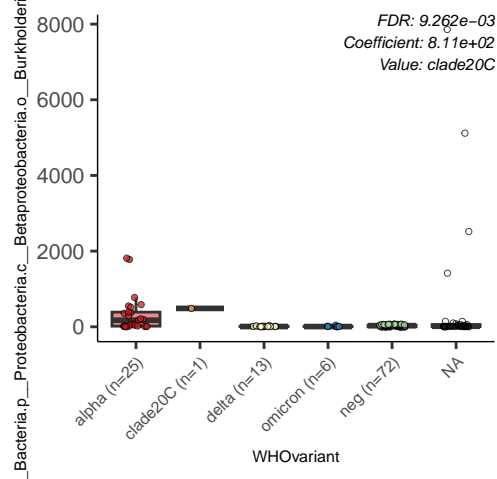




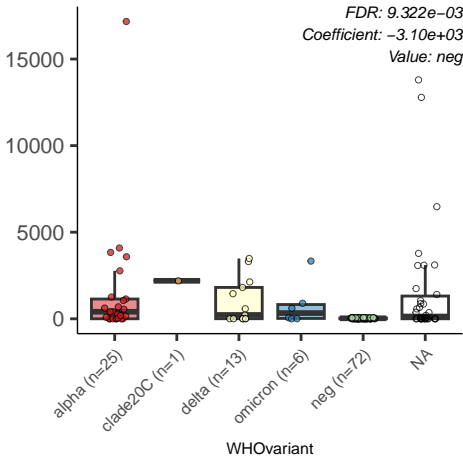
utes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipelotrichace



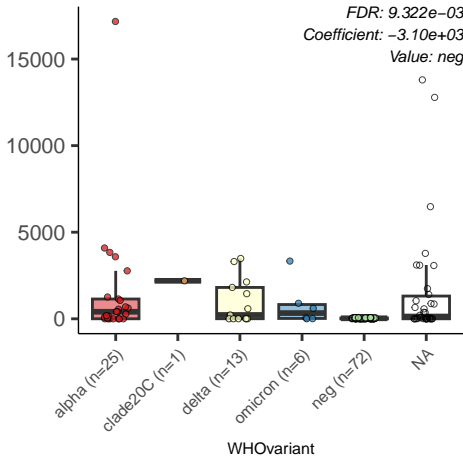


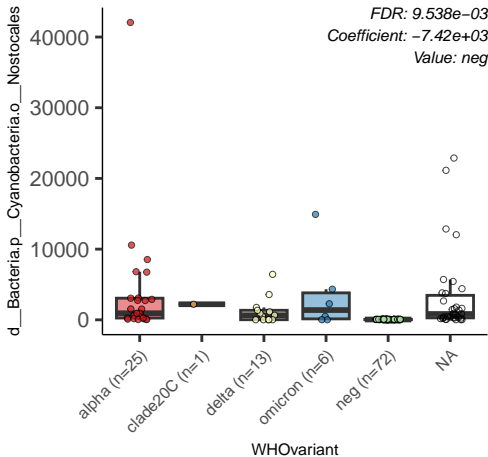


o_Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipel



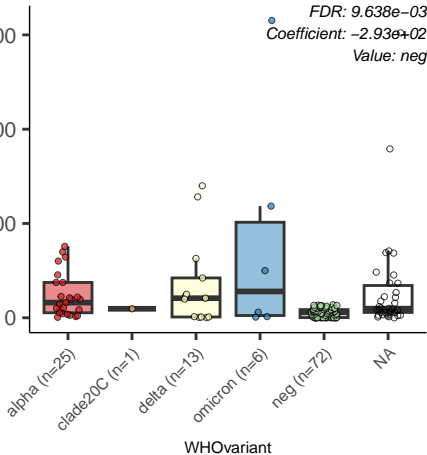
FDR: $9.322e-03$
Coefficient: $-3.10e+03$
Value: neg

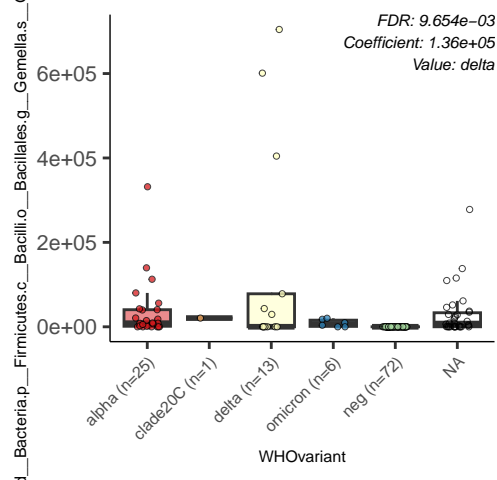


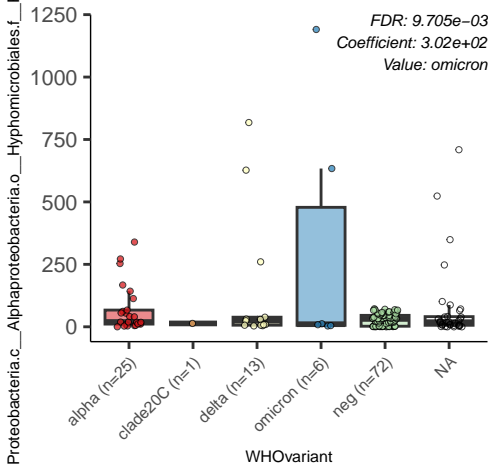


Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Lac

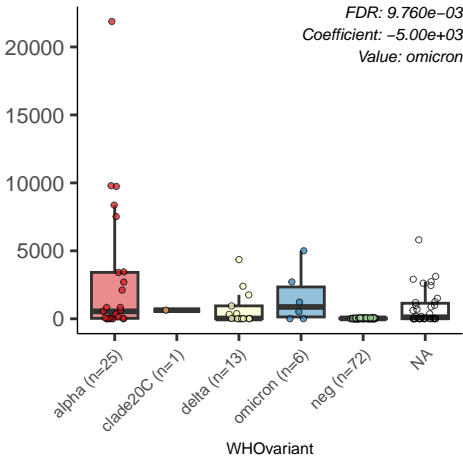
FDR: $9.638e-03$
Coefficient: $-2.93e+02$
Value: neg





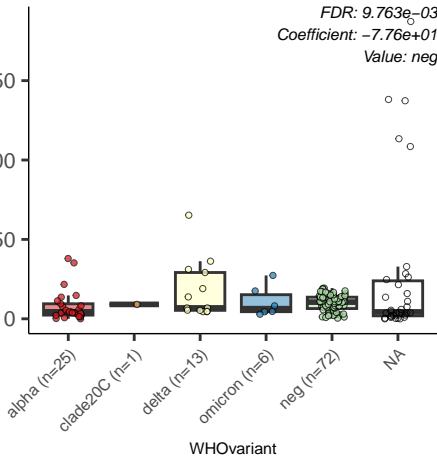


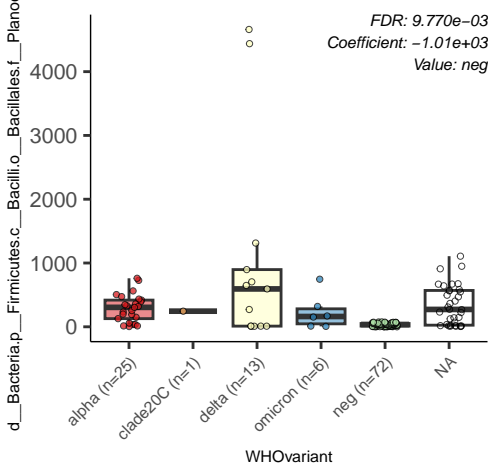
ctinobacteria.c__Actinomycetia.o__Pseudonocardiales.f__Pseudonocardia.g__Pseudonocardia.s__Pseudonocardia



acteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae

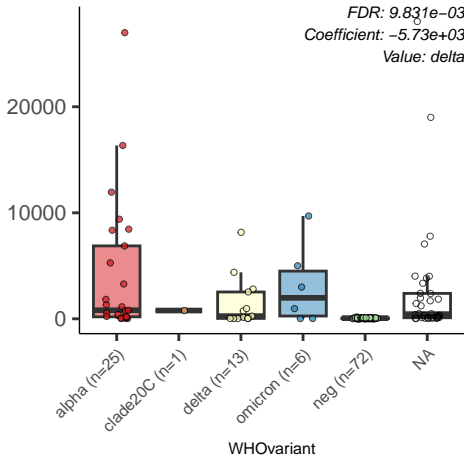
FDR: $9.763e-03$
Coefficient: $-7.76e+01$
Value: neg

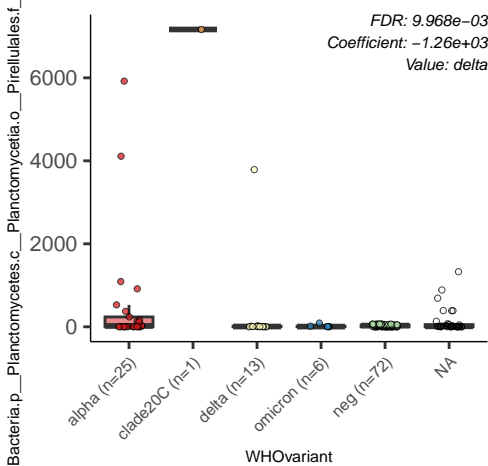


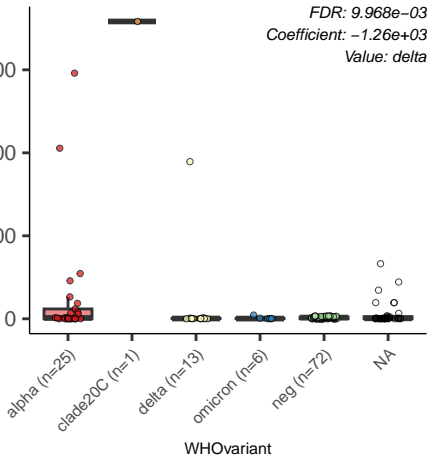


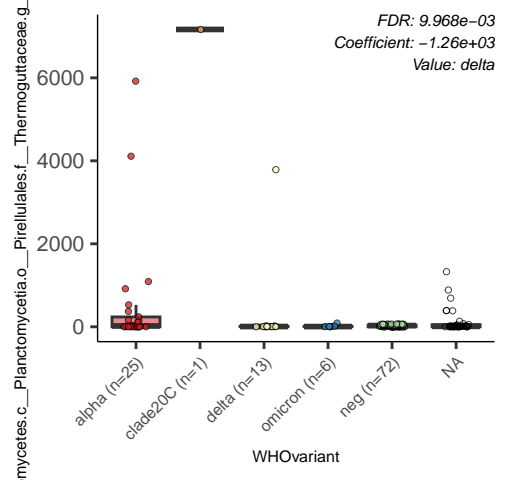
p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Microb

FDR: $9.831e-03$
Coefficient: $-5.73e+03$
Value: delta



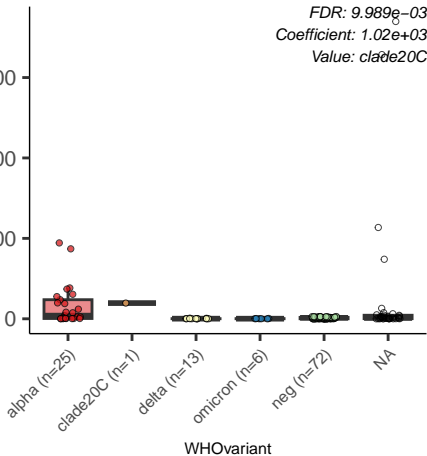


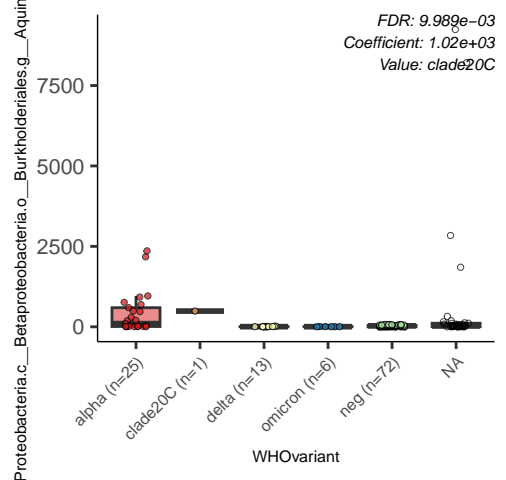




Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

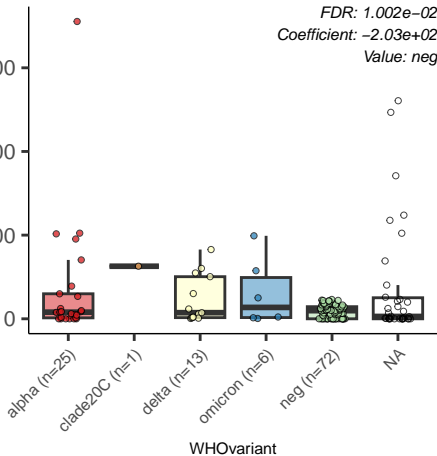
FDR: 9.989×10^{-3}
Coefficient: 1.02×10^3
Value: clade20C

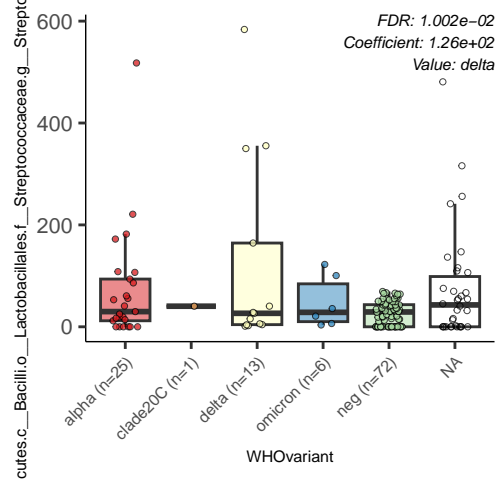


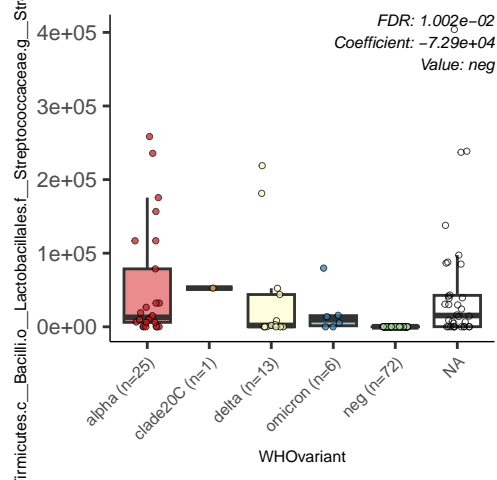


idetes.c_Flavobacteriia.o_Flavobacteriales.f_Flavobacteriaceae

FDR: $1.002e-02$
Coefficient: $-2.03e+02$
Value: neg

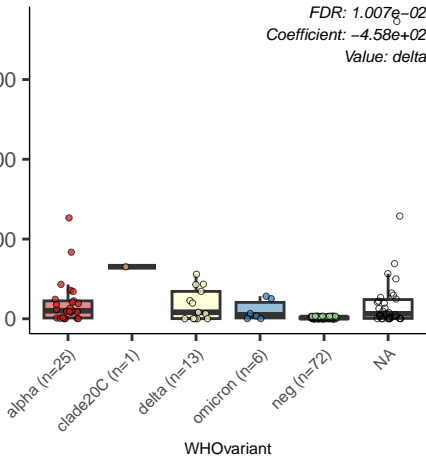






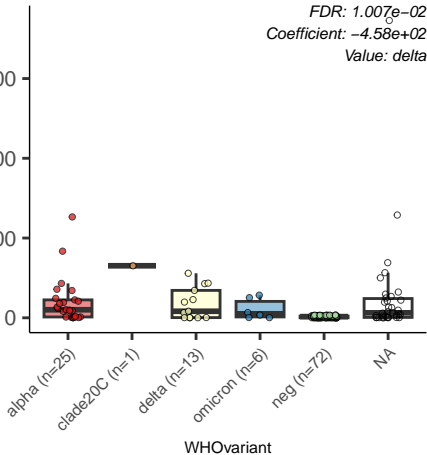
d__Bacteria.p__Tenericutes.c__Mollicutes.o__Acholeplas

FDR: $1.007e-02$
Coefficient: $-4.58e+02$
Value: delta

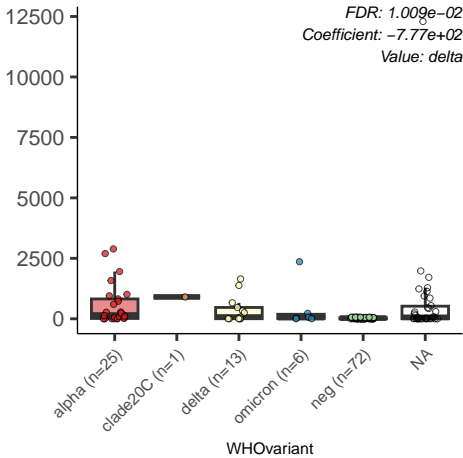


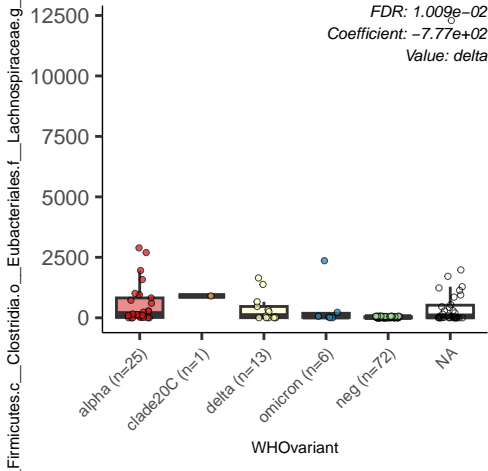
Bacteria.p_Tenericutes.c_Mollicutes.o_Acholeplasmatales.f_A

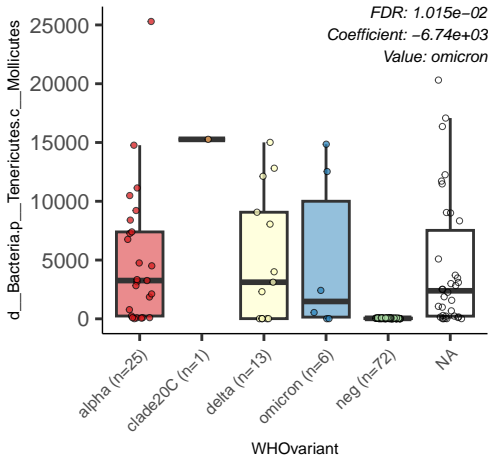
FDR: $1.007e-02$
Coefficient: $-4.58e+02$
Value: delta

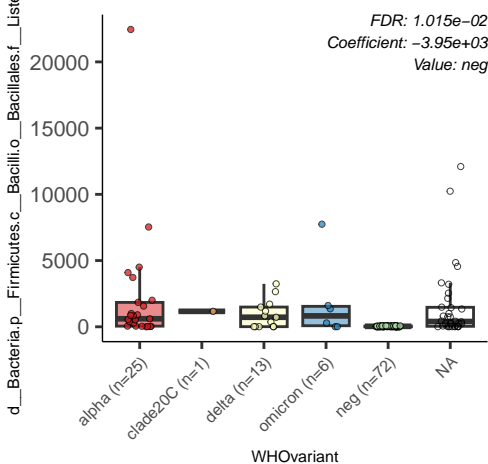


Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

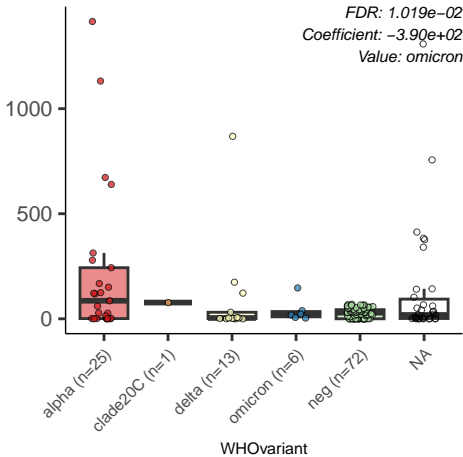






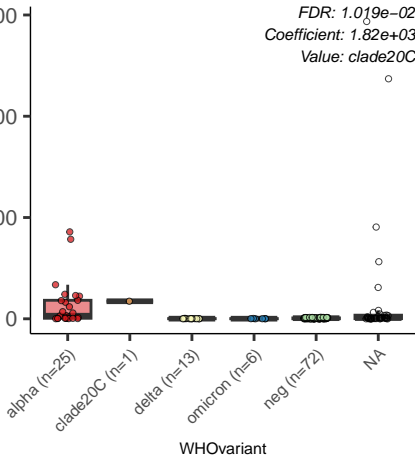


s.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g__Chr

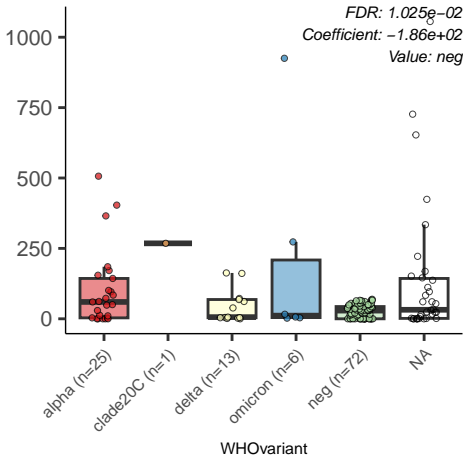


Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

FDR: 1.019×10^{-2}
Coefficient: 1.82×10^3
Value: clade20C

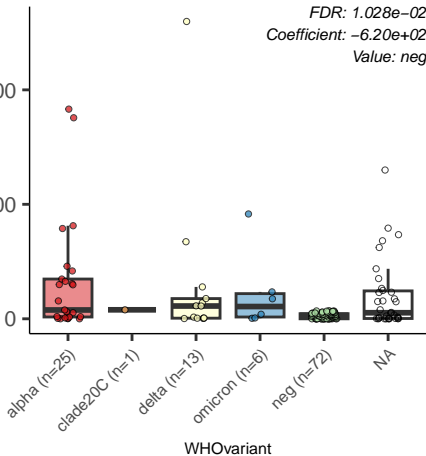


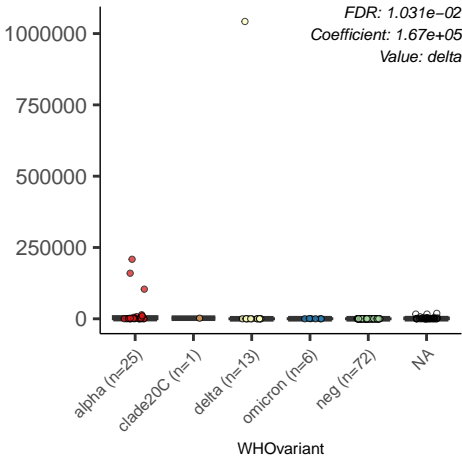
detes.c__Bacteroidia.o__Bacteroidales.f__Tannerellaceae.g__Parat

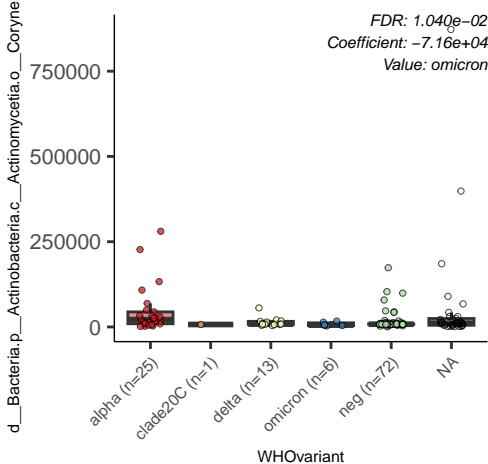


irmicutes.c__Negativicutes.o__Acidaminococcales.f__Acidaminococo

FDR: 1.028e-02
Coefficient: -6.20e+02
Value: neg

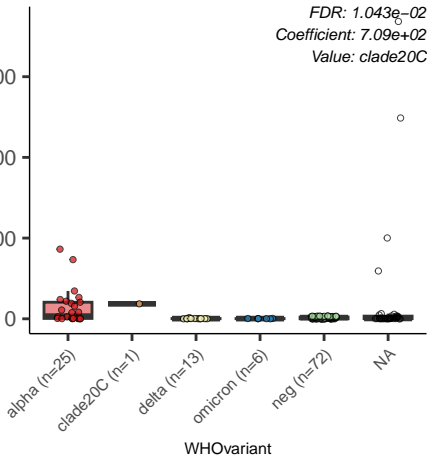


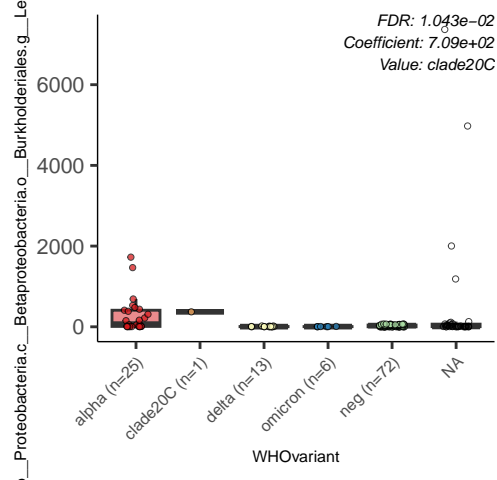




__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholder

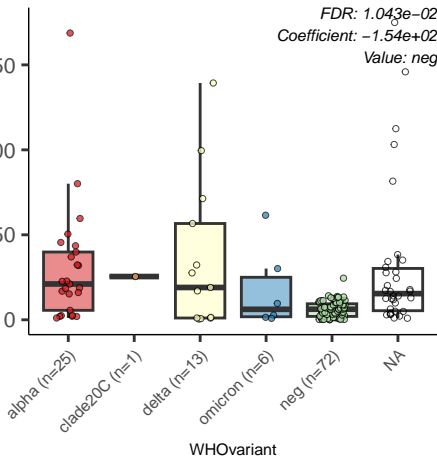
FDR: $1.043e-02$
Coefficient: $7.09e+02$
Value: clade20C

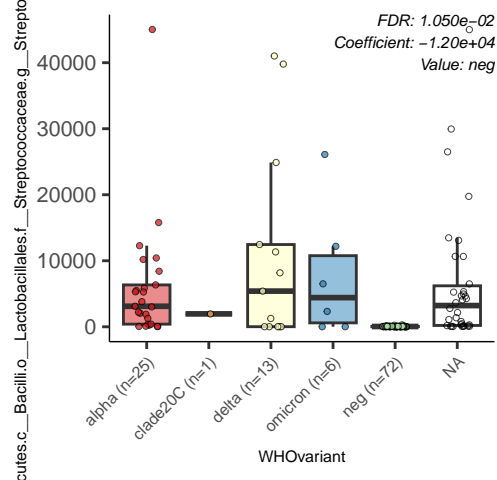


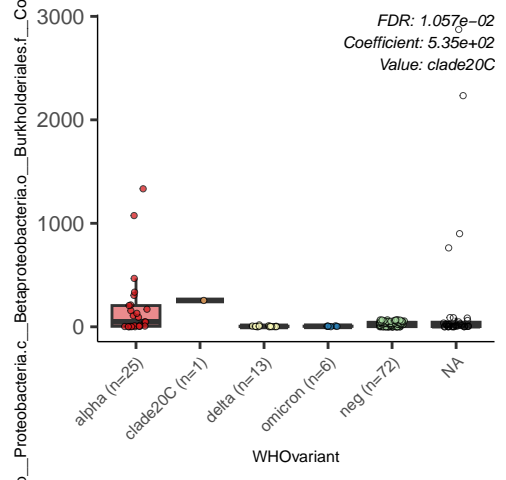


d_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__

FDR: $1.043e-02$
Coefficient: $-1.54e+02$
Value: neg

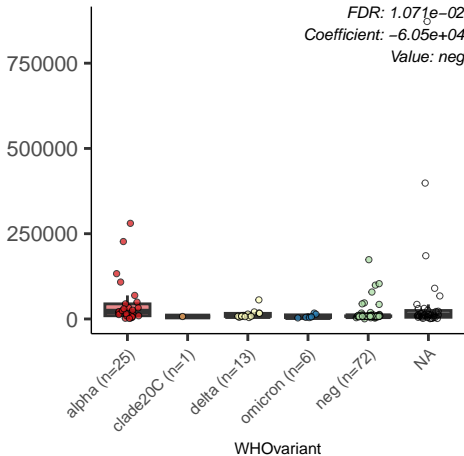


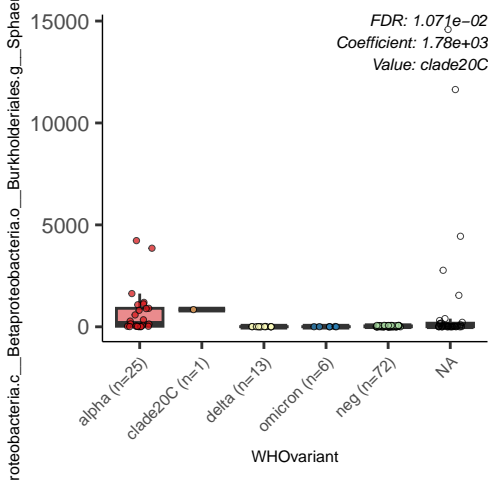




d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Coryne

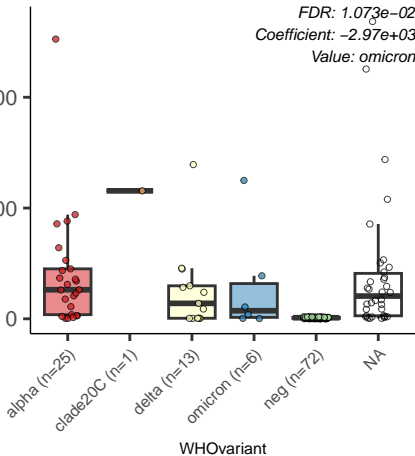
FDR: $1.071e-02$
Coefficient: $-6.05e+04$
Value: neg





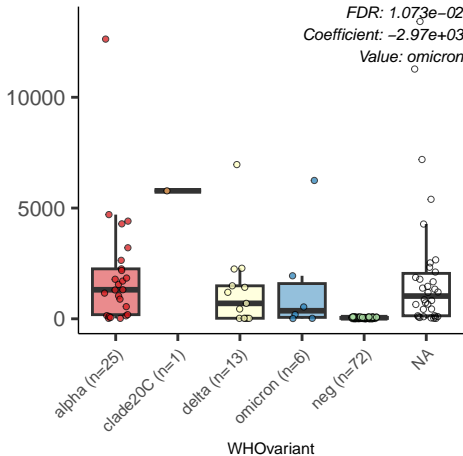
d__Bacteria.p__Bacteroidetes.c__Sphingobacteriia

FDR: $1.073e-02$
Coefficient: $-2.97e+03$
Value: omicron



d__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphing

FDR: $1.073e-02$
Coefficient: $-2.97e+03$
Value: omicron



tertia.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales

FDR: $1.073e-02$
Coefficient: $-2.97e+03$
Value: omicron

10000

5000

0

alpha (n=25)

clade20C (n=1)

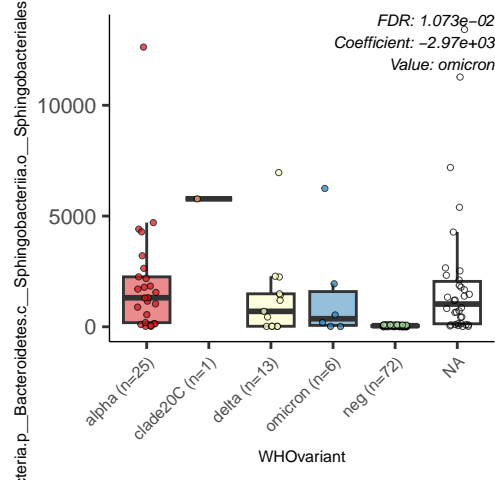
delta (n=13)

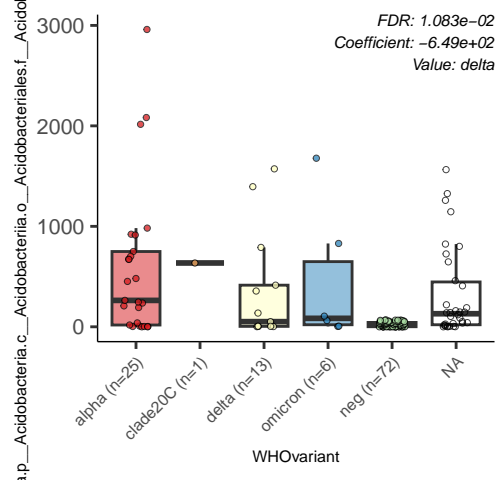
omicron (n=6)

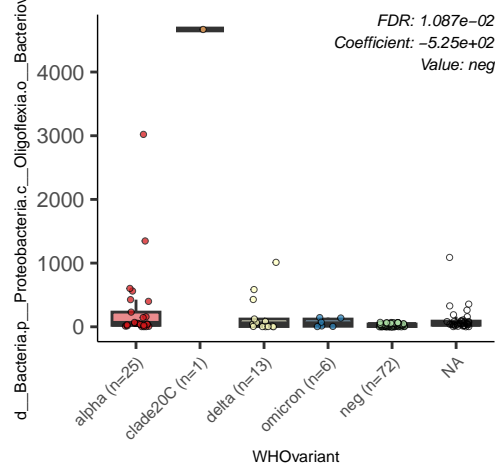
neg (n=72)

NA

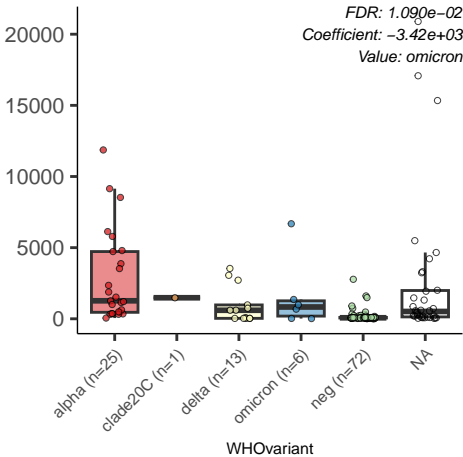
WHOvariant

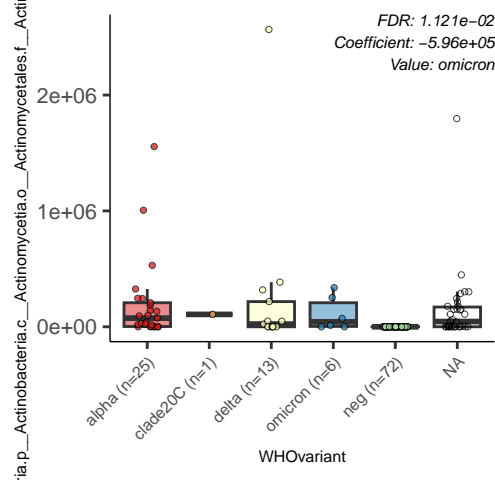






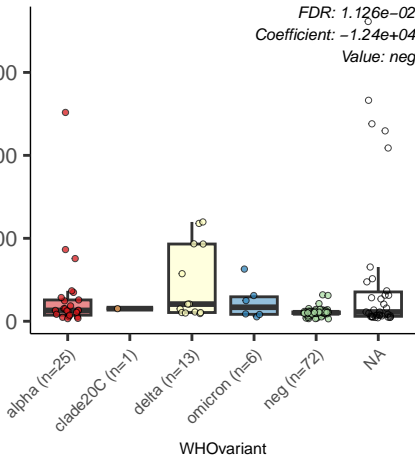
acteria.p_Firmicutes.c_Tissierellia.o_Tissierellales.f_Peptoniphila

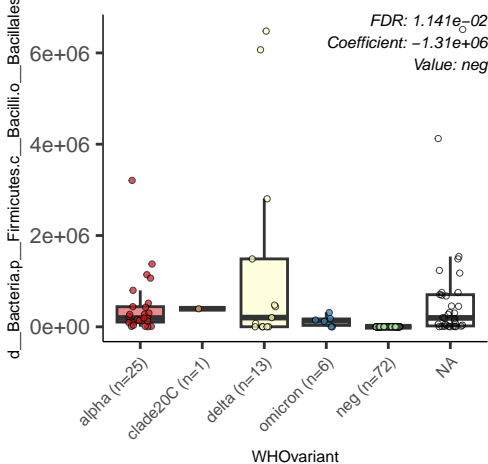




d__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Pse

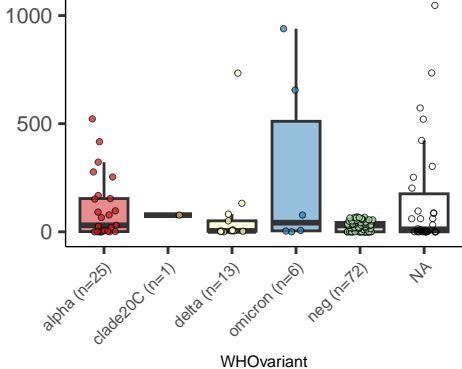
FDR: $1.126e-02$
Coefficient: $-1.24e+04$
Value: neg





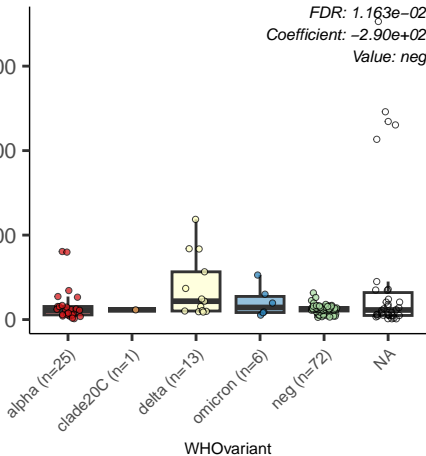
terial.c__Gammaproteobacteria.o__Alteromonadales.f__Shewanella

FDR: 1.143×10^{-2}
Coefficient: -2.27×10^2
Value: neg



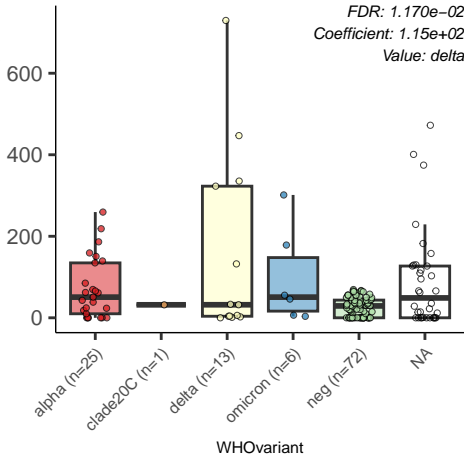
Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae

FDR: $1.163e-02$
Coefficient: $-2.90e+02$
Value: neg

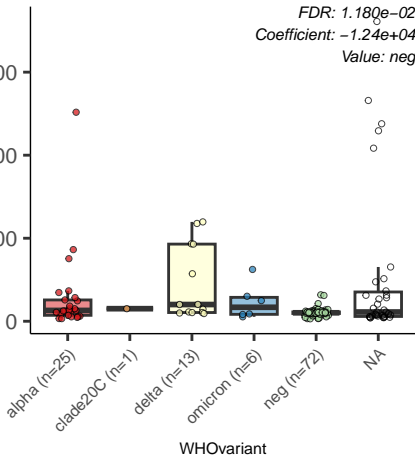


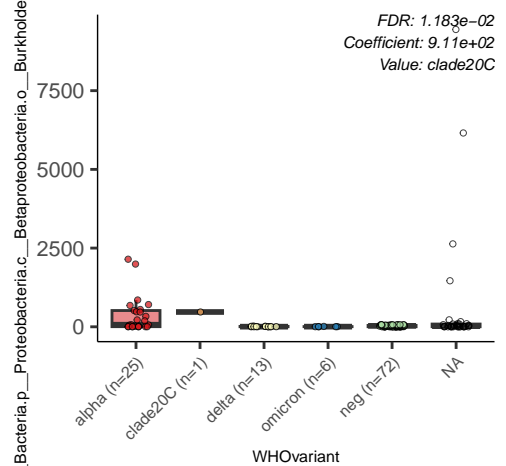
icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

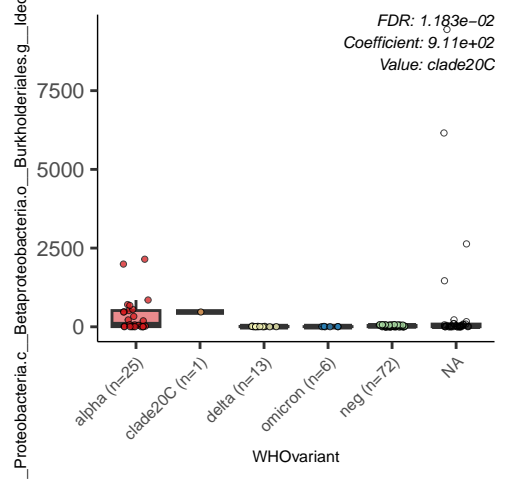
FDR: 1.170e-02
Coefficient: 1.15e+02
Value: delta

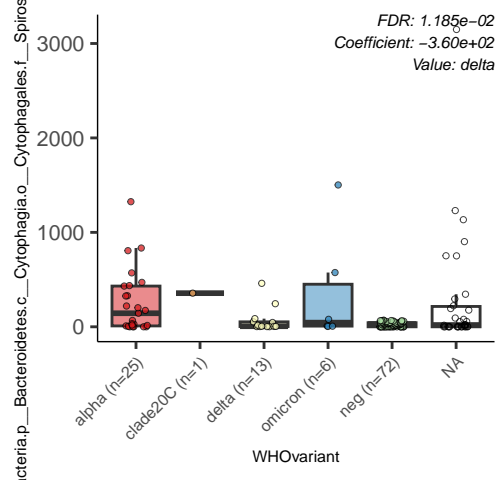


FDR: $1.180e-02$
Coefficient: $-1.24e+04$
Value: neg

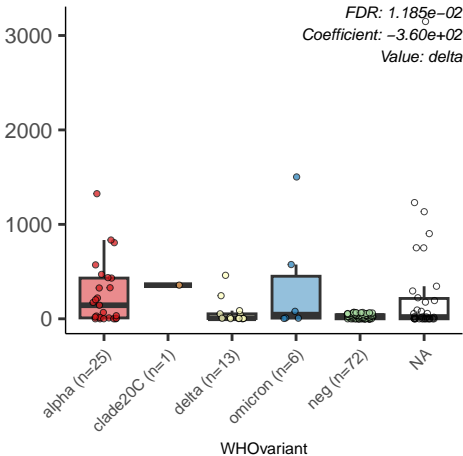


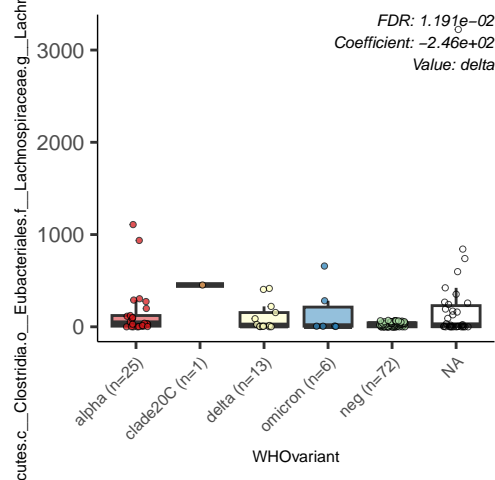






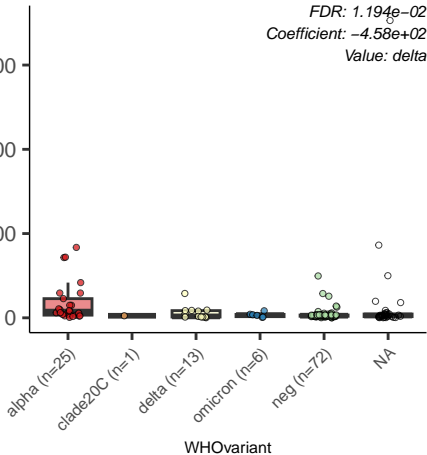
cteroidetes.c__Cytophagia.o__Cytophagales.f__Spirosomaceae.g





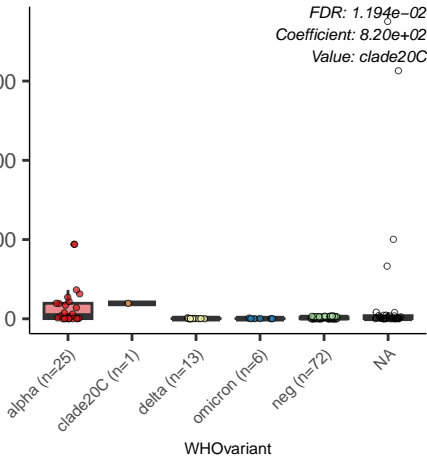
unicutes.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g__Ana

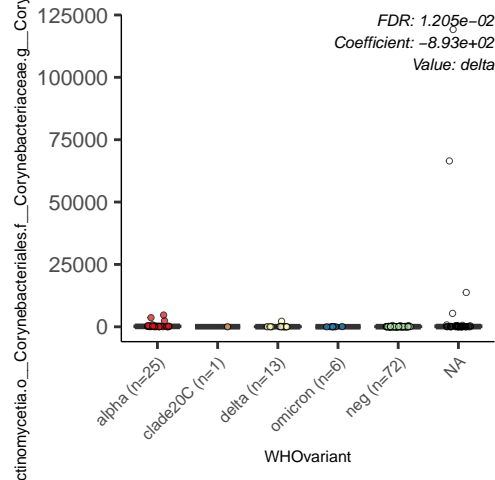
FDR: 1.194e-02
Coefficient: -4.58e+02
Value: delta

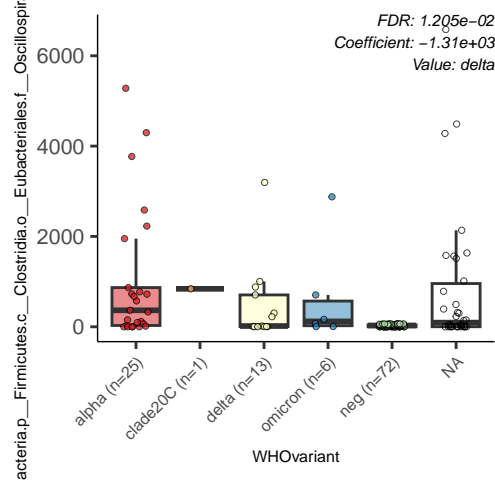


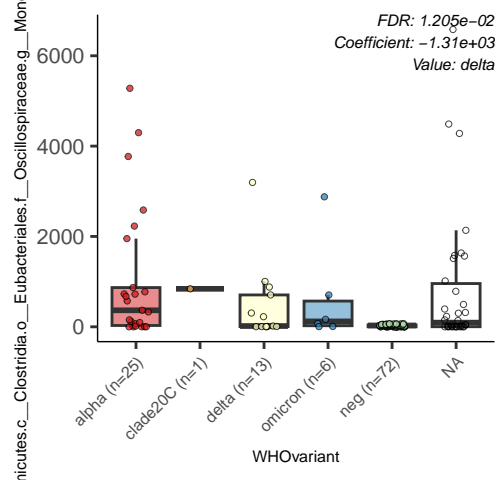
Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Com

FDR: 1.194e-02
Coefficient: 8.20e+02
Value: clade20C



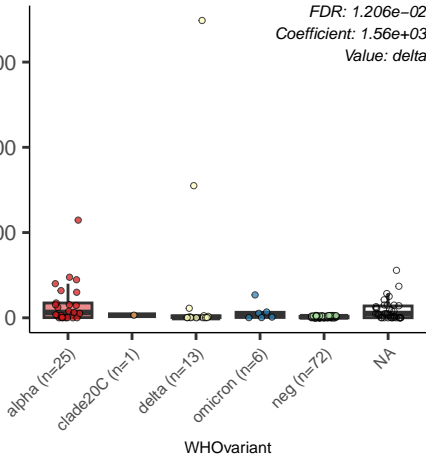


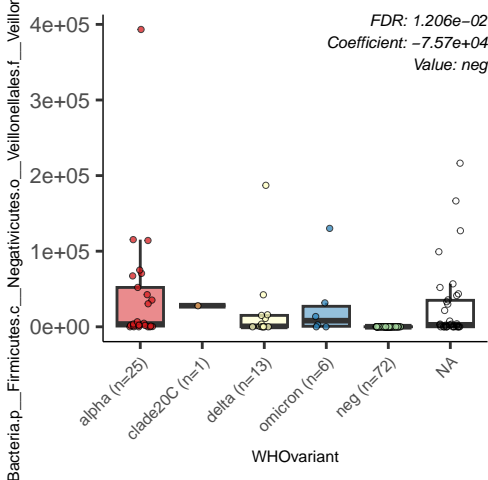




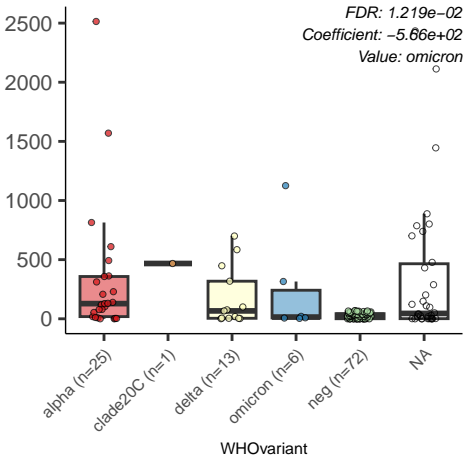
mmaproteobacteria.o__Pasteurellales.f__Pasteurellaceae.g__Aggr

FDR: 1.206e-02
Coefficient: 1.56e+03
Value: delta



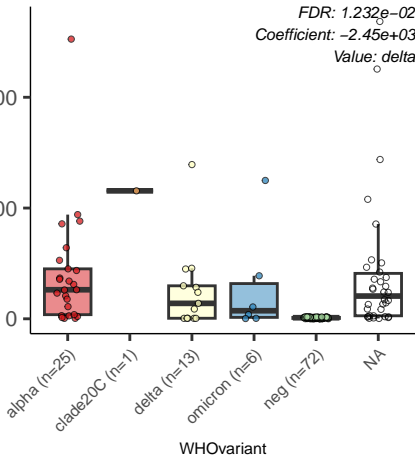


a.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Desulfitobacteria

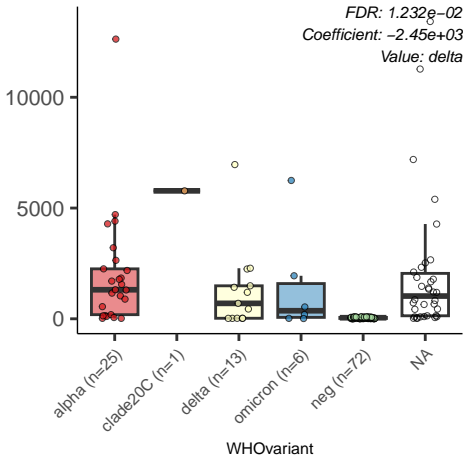


d__Bacteria.p__Bacteroidetes.c__Sphingobacteriia

FDR: $1.232e-02$
Coefficient: $-2.45e+03$
Value: delta



d__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphing



acteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales

FDR: $1.232e-02$
Coefficient: $-2.45e+03$
Value: delta

10000

5000

0

alpha (n=25)

clade20C (n=1)

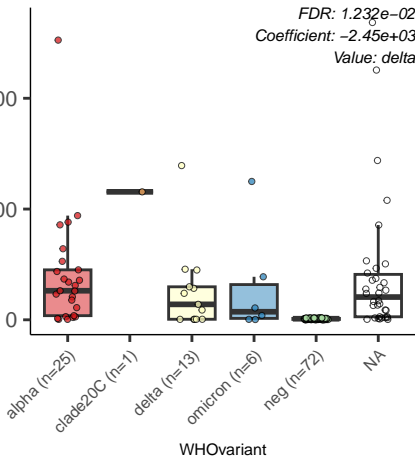
delta (n=13)

omicron (n=6)

neg (n=72)

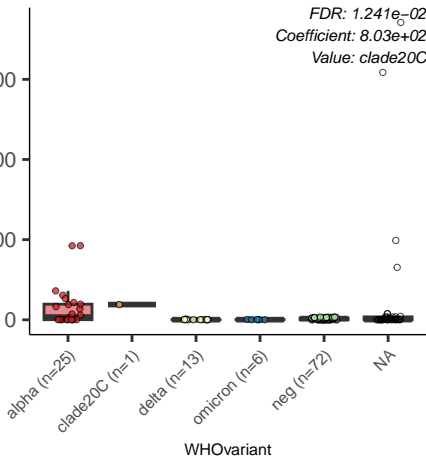
NA

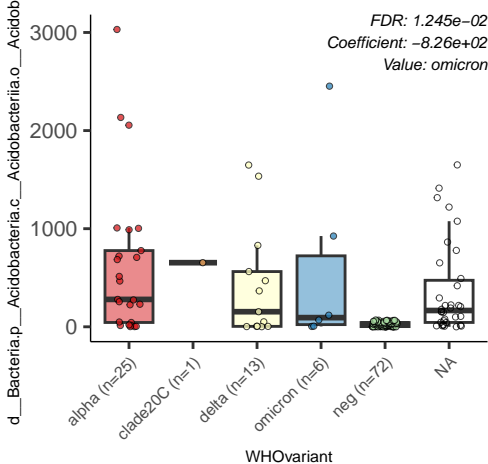
WHOvariant

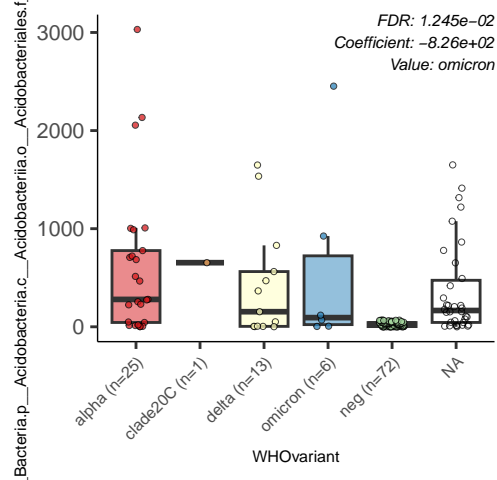


Betaproteobacteria.o__Burkholderiales.f__Comamonadaceae.g

FDR: $1.241e-02$
Coefficient: $8.03e+02$
Value: clade20C

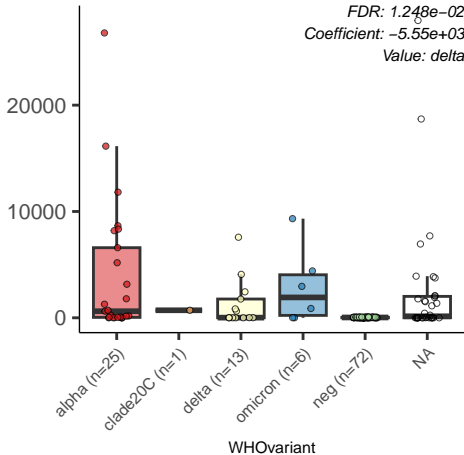


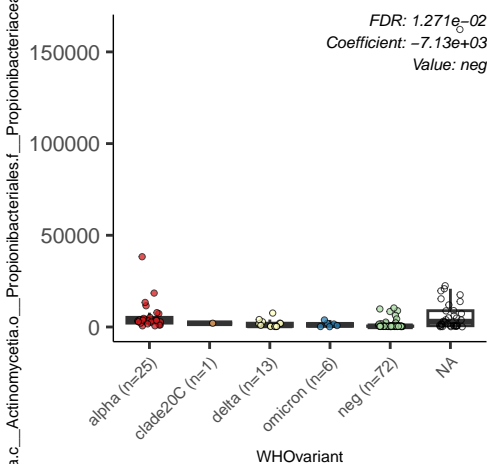




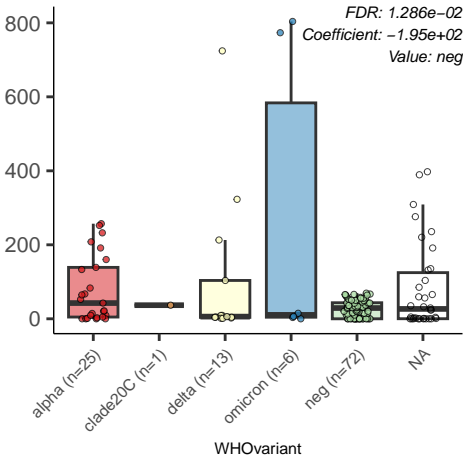
eria.c_Actinomycetia.o_Micrococcales.f_Microbacteriaceae.g

FDR: $1.248e-02$
Coefficient: $-5.55e+03$
Value: delta



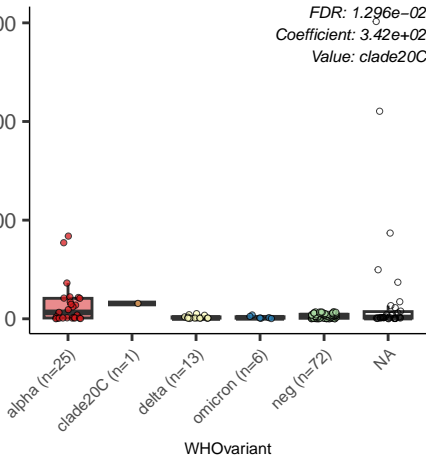


Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Rikenellaceae.g



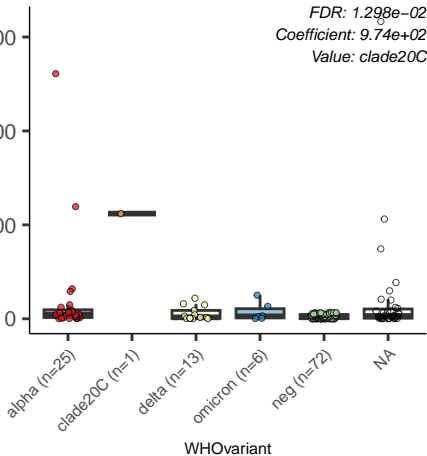
a.p._Proteobacteria.c_Alphaproteobacteria.o_Hyphomicrobiales.

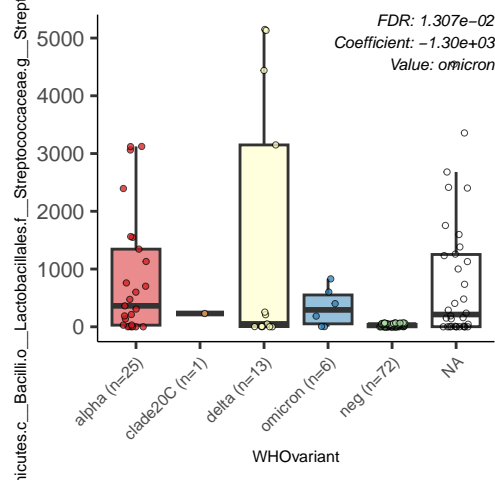
FDR: $1.296e-02$
Coefficient: $3.42e+02$
Value: clade20C



p__Bacteroidetes.c__Chitinophagia.o__Chitinophagales.f__Chitinop

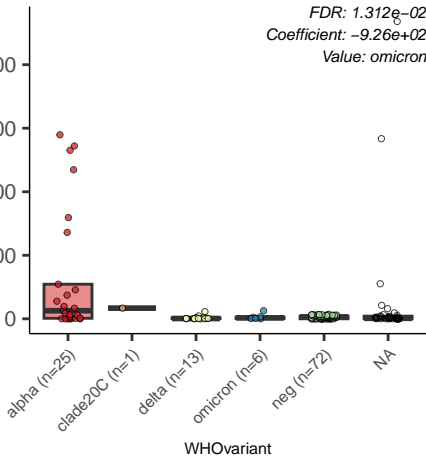
FDR: 1.298e-02
Coefficient: 9.74e+02
Value: clade20C

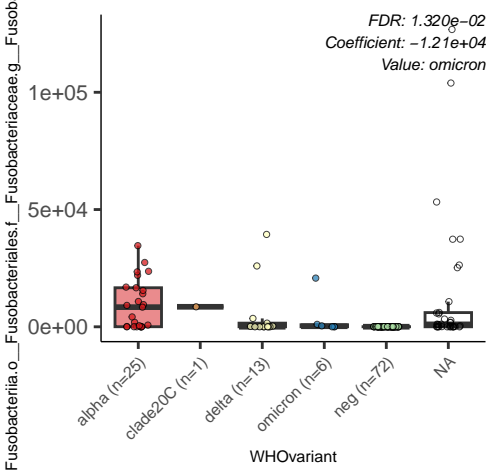




psilonproteobacteria.o__Campylobacterales.f__Campylobacteraceae

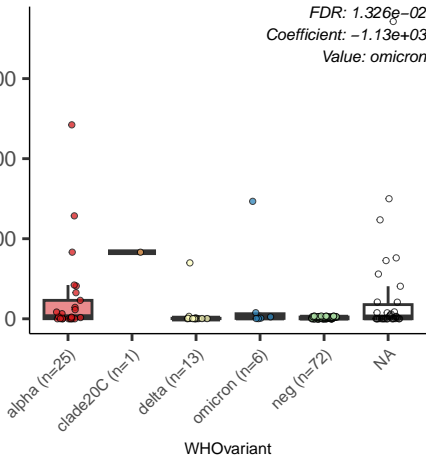
FDR: $1.312e-02$
Coefficient: $-9.26e+02$
Value: omicron



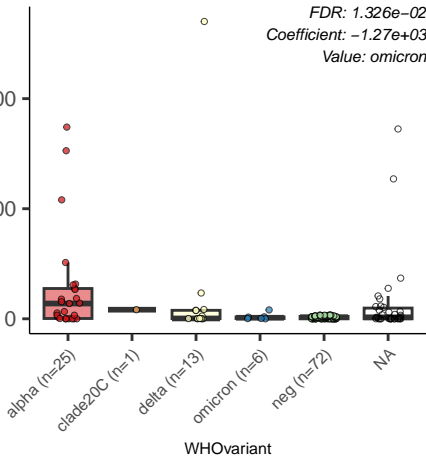


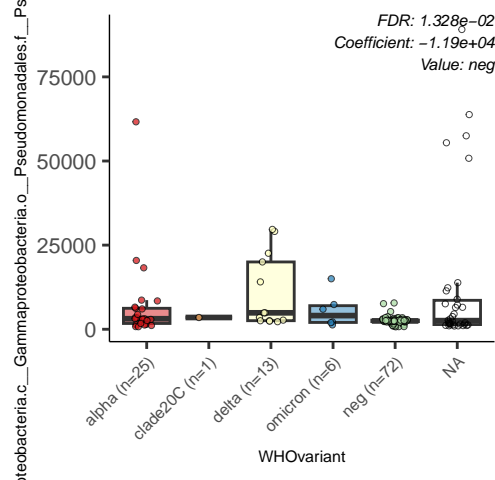
bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae

FDR: $1.326e-02$
Coefficient: $-1.13e+03$
Value: omicron

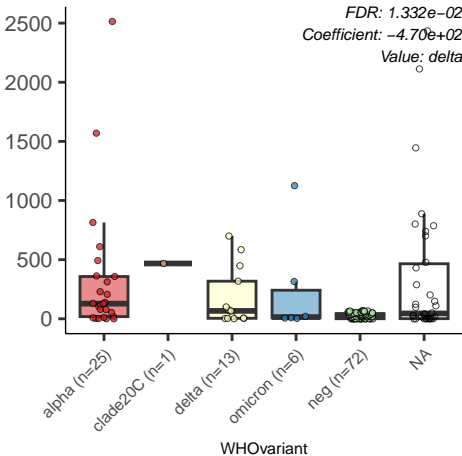


FDR: 1.326e-02
Coefficient: -1.27e+03
Value: omicron

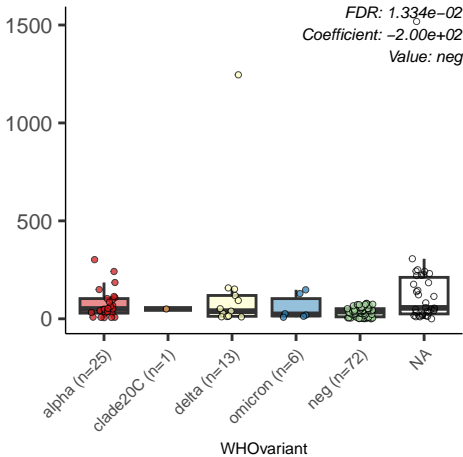




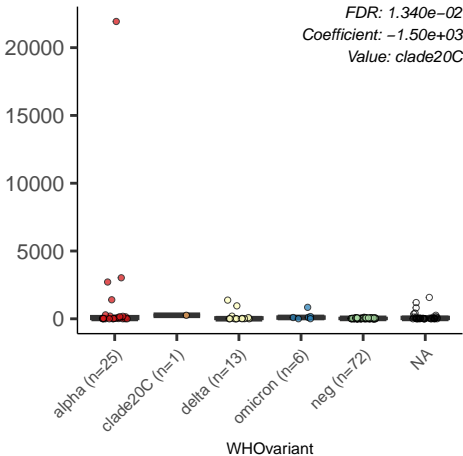
a.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Desulfitobacteria



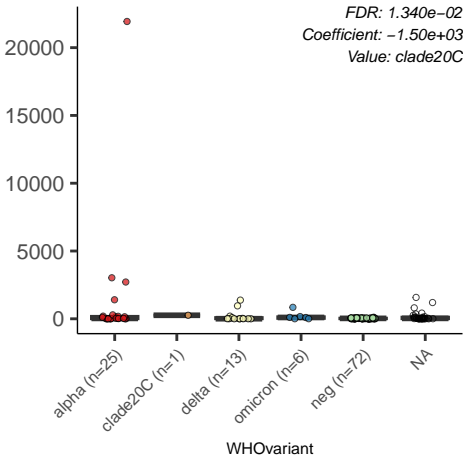
p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__B

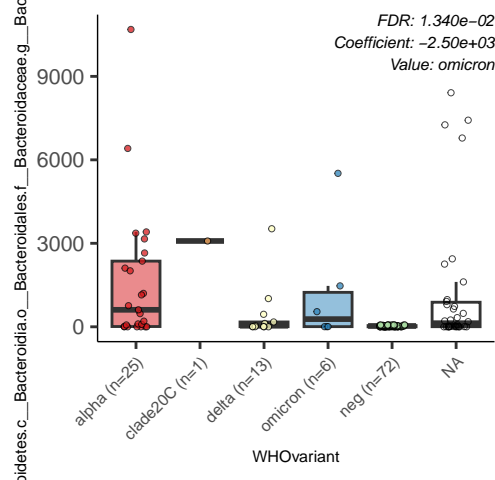


a.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neis



bacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae.g__

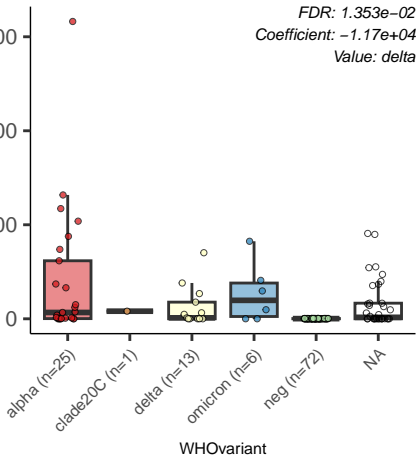




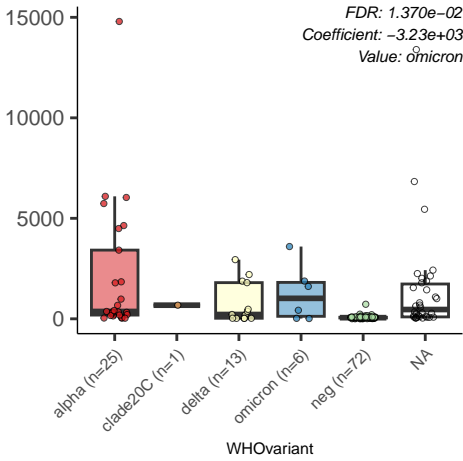
FDR: 1.353e-02

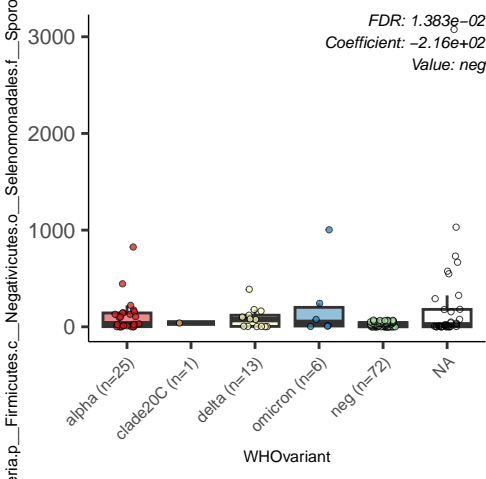
Coefficient: $-1.17e+04$

Value: delta



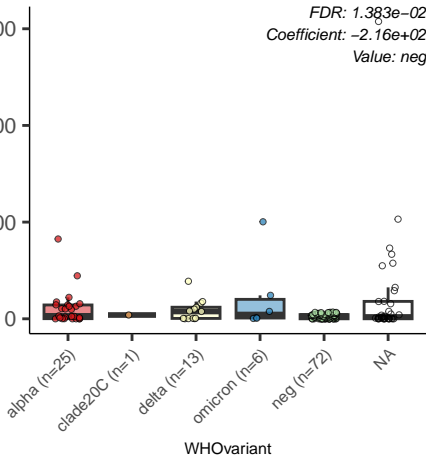
Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales

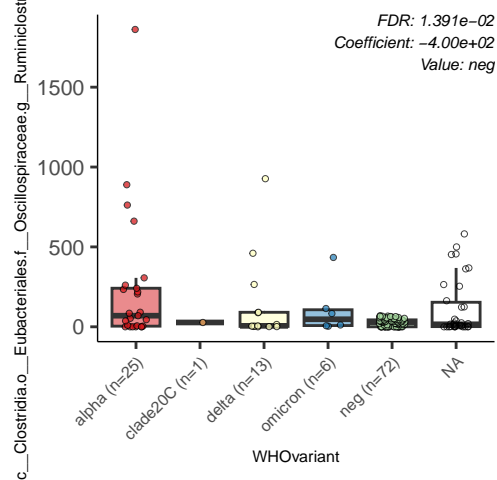


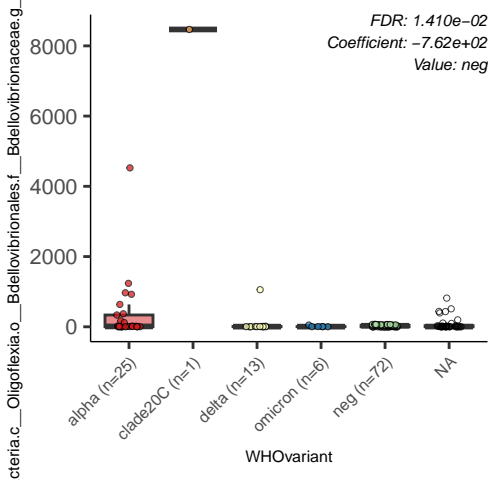


cutes.c__Negativicutes.o__Selenomonadales.f__Sporomusaceae.g

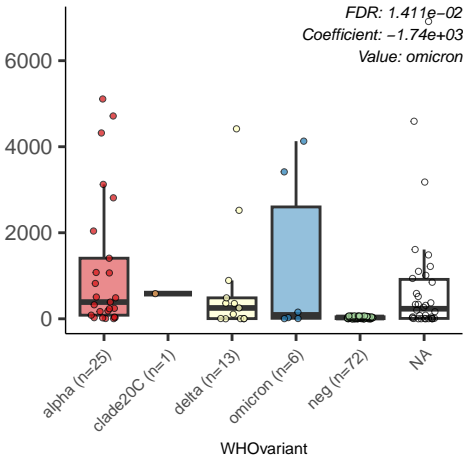
FDR: $1.383e-02$
Coefficient: $-2.16e+02$
Value: neg



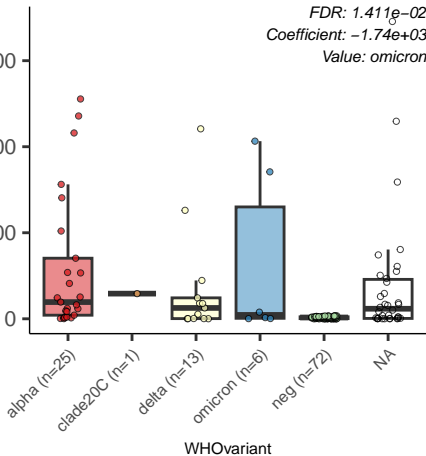




bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Peptostrept



FDR: $1.411e-02$
Coefficient: $-1.74e+03$
Value: omicron



a.c__Actinomycetia.o__Candidatus.Nanopelagiales.f__Candidatus

FDR: $1.426e-02$
Coefficient: $-2.49e+02$
Value: delta

1000

500

0

alpha (n=25)

clade20C (n=1)

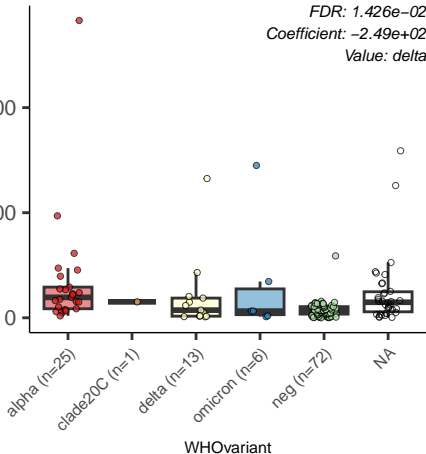
delta (n=13)

omicron (n=6)

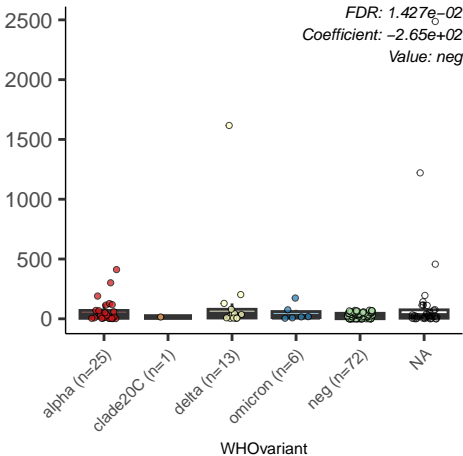
neg (n=72)

NA

WHOvariant

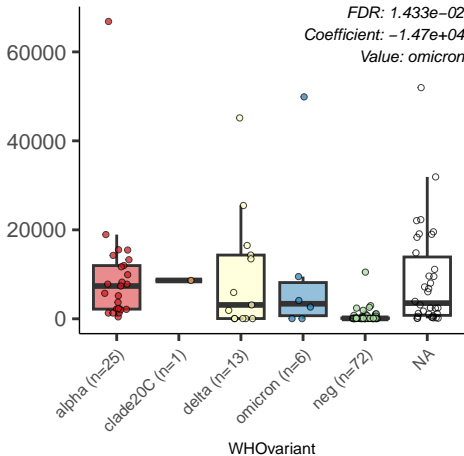


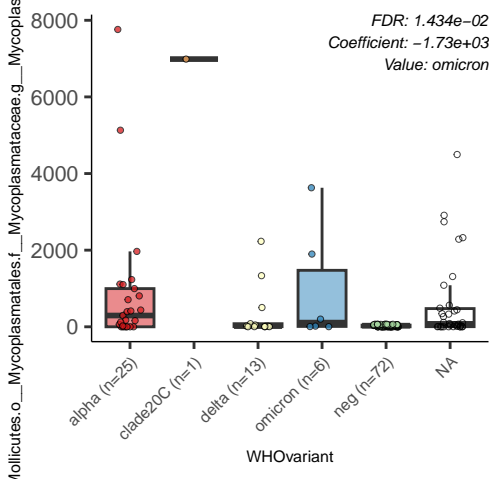
ctinobacteria.c__Actinomycetia.o__Micrococcales.f__Micrococcaceae

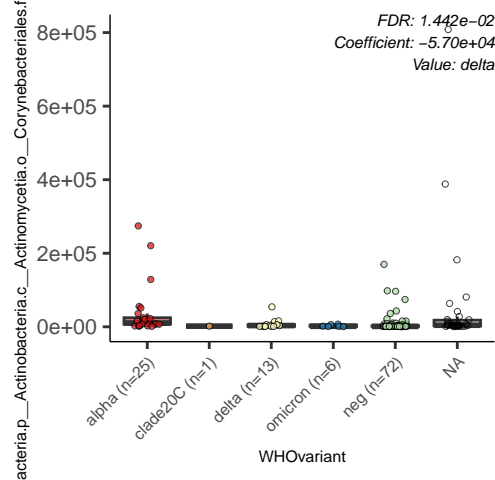


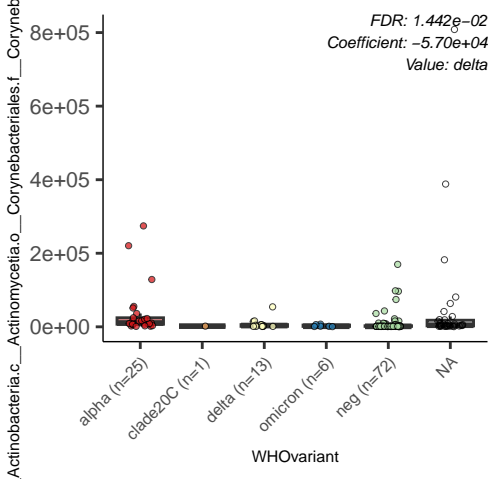
d__Bacteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Pe

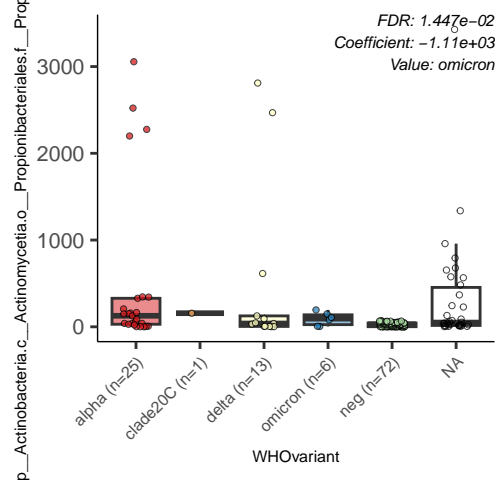
FDR: $1.433\text{e-}02$
Coefficient: $-1.47\text{e}+04$
Value: omicron

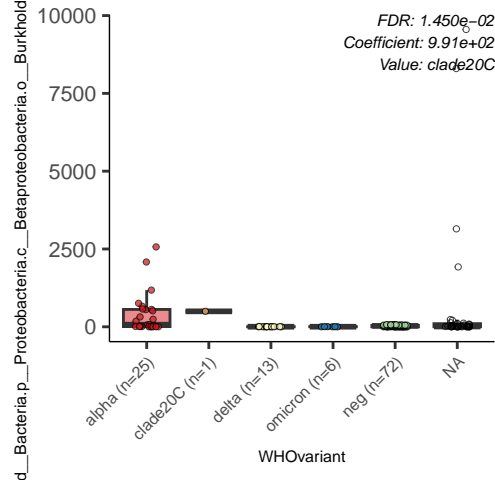




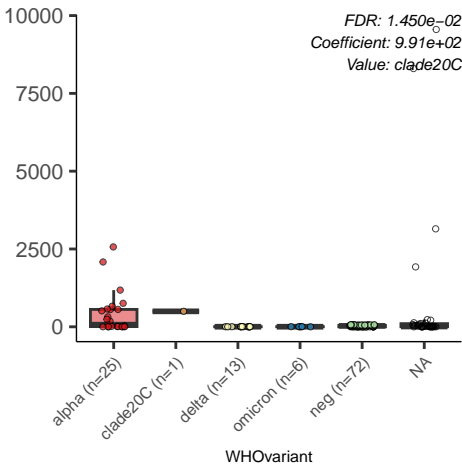




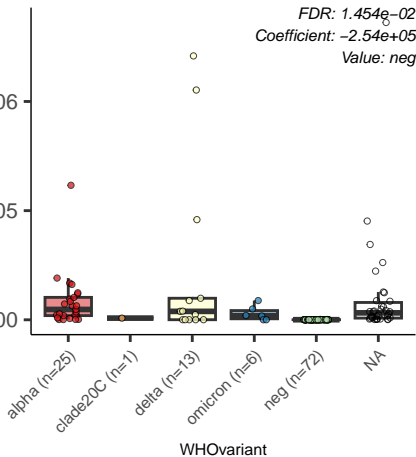


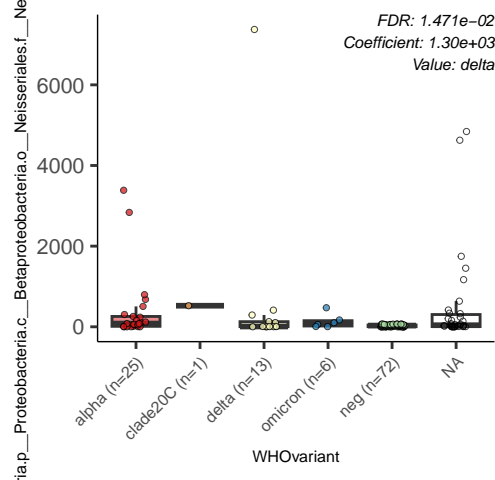


p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g__lr



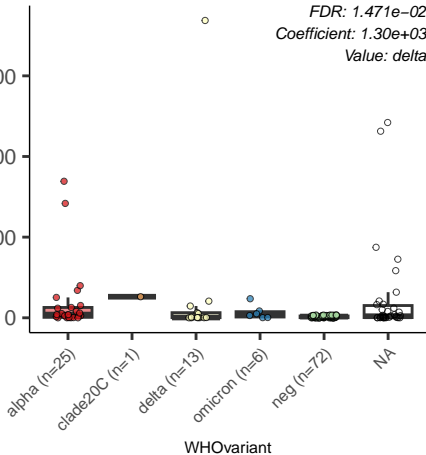
Bacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f





obacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae.

FDR: 1.471e-02
Coefficient: 1.30e+03
Value: delta

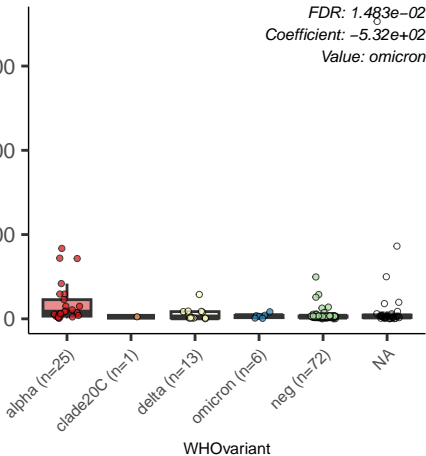


FDR: 1.483e-02
Coefficient: -5.32e+02
Value: omicron

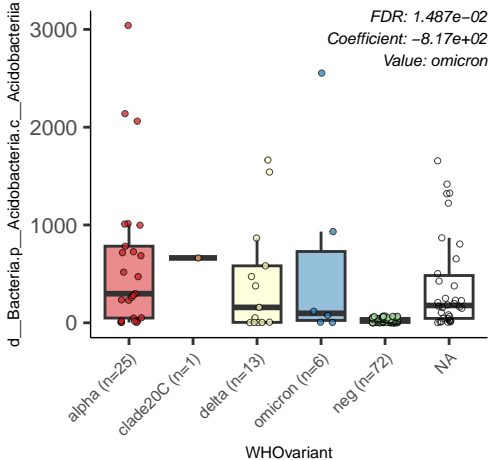
Box plot showing the distribution of WHO variants across different categories. The y-axis represents a value (likely log-odds) ranging from -100 to 100. The x-axis categories are alpha (n=25), clade20C (n=1), delta (n=13), omicron (n=6), neg (n=72), and NA. The alpha variant shows a positive median, while others are near zero. Statistical values: FDR: 1.483e-02, Coefficient: -5.32e+02, Value: omicron.

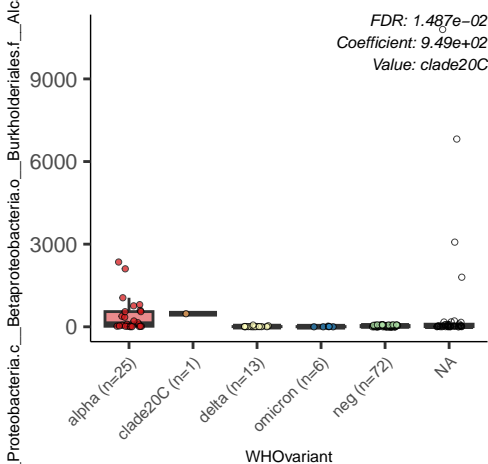
Coefficient: $-5.32e+02$

Value: omicron



WHOvariant





Firmicutes.c__Negativicutes.o__Veillonellales.f__Veillonellaceae.g

FDR: $1.496e-02$
Coefficient: $-3.51e+04$
Value: neg

150000

100000

50000

0

alpha (n=25)

clade20C (n=1)

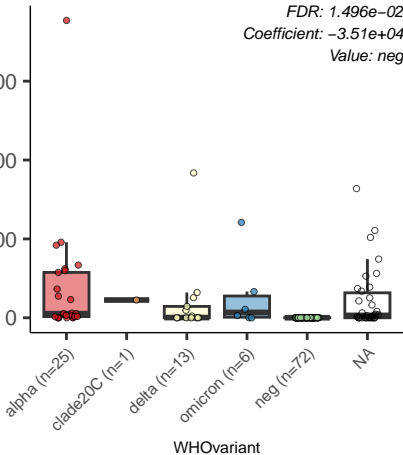
delta (n=13)

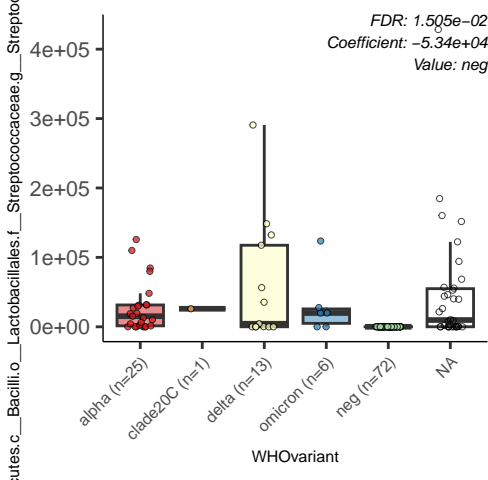
omicron (n=6)

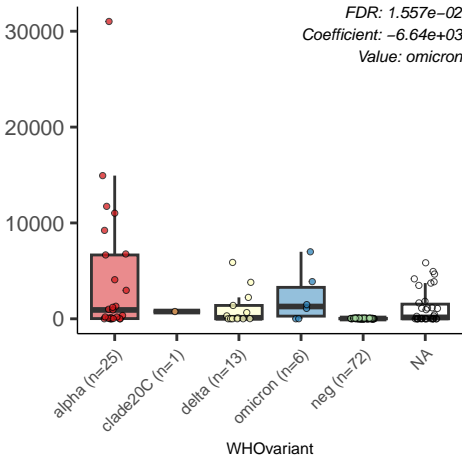
neg (n=72)

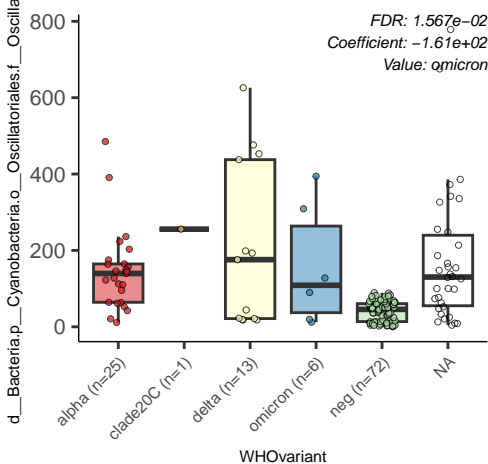
NA

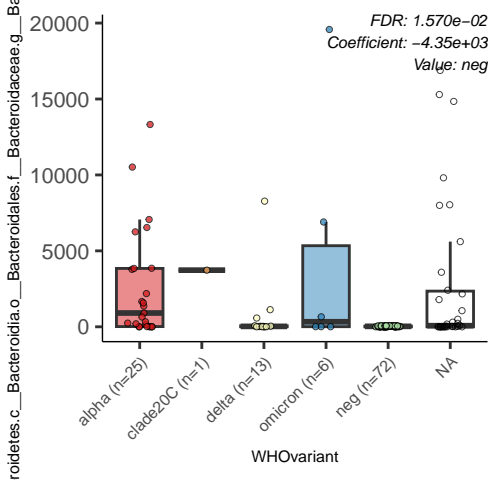
WHOvariant





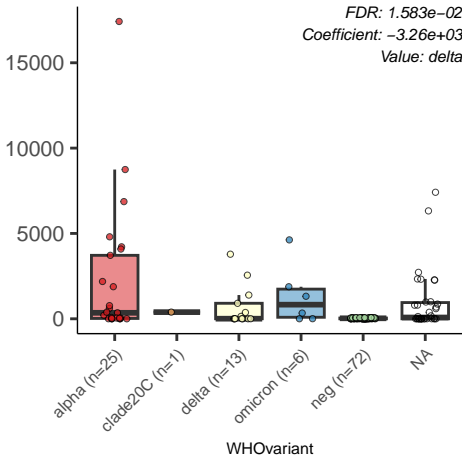


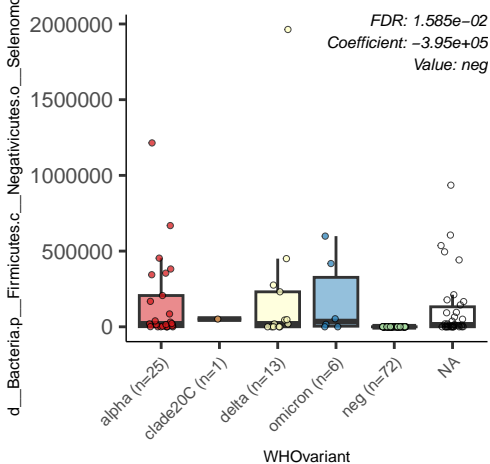


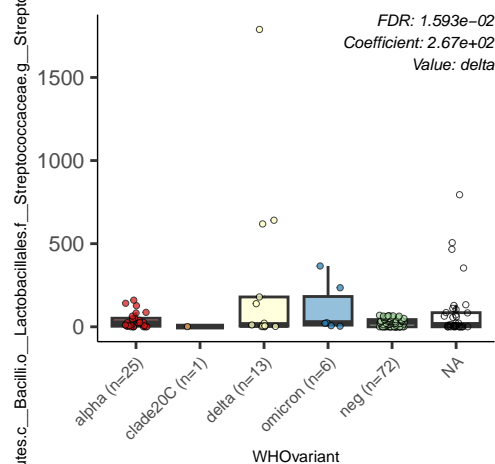


Actinomycetia.o__Corynebacteriales.f__Mycobacteriaceae.g__My

FDR: 1.583e-02
Coefficient: -3.26e+03
Value: delta

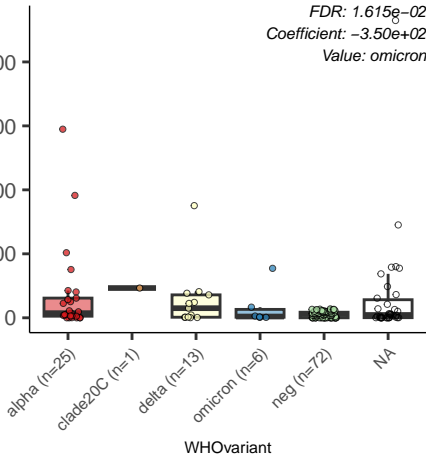






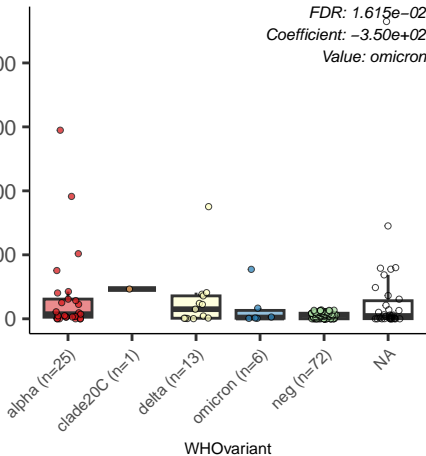
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Eubacteri

FDR: 1.615e-02
Coefficient: -3.50e+02
Value: omicron

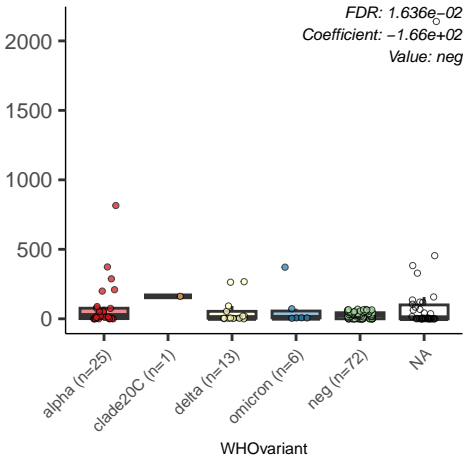


irmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriaceae.g__Alk

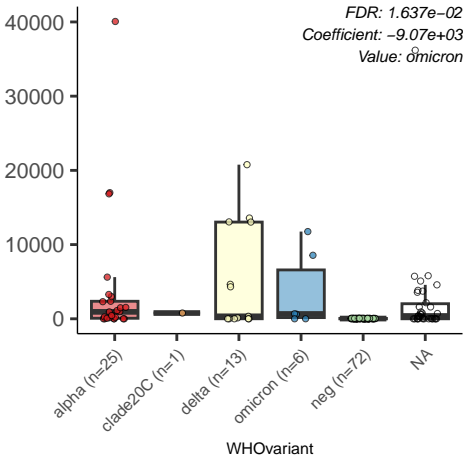
FDR: $1.615e-02$
Coefficient: $-3.50e+02$
Value: omicron

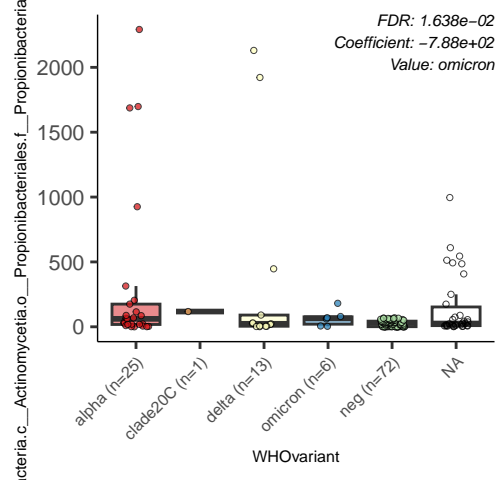


Firmicutes.c__Clostridia.o__Eubacteriales.f__Vallitaleaceae.g__Val

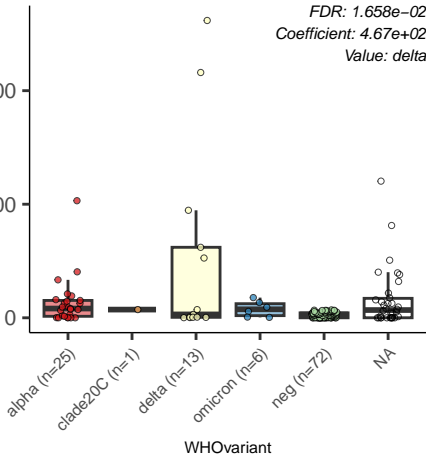


Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g__Se



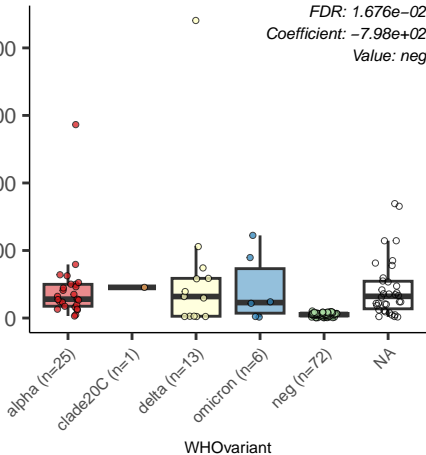


FDR: 1.658e-02
Coefficient: 4.67e+02
Value: delta



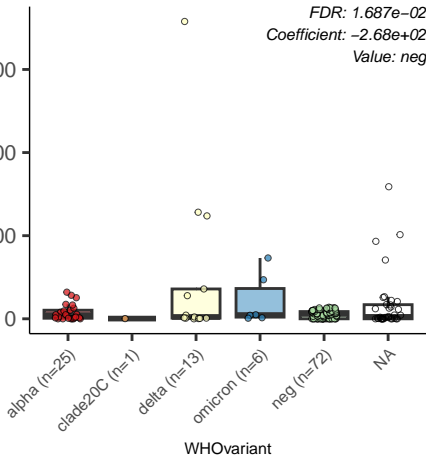
d__Bacteria.p__Cyanobacteria.o__Oscillatoriales

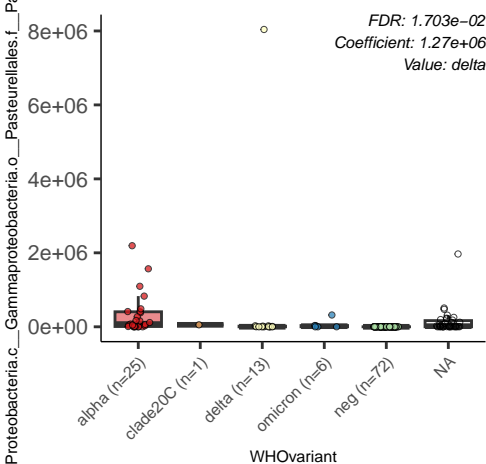
FDR: $1.676e-02$
Coefficient: $-7.98e+02$
Value: neg

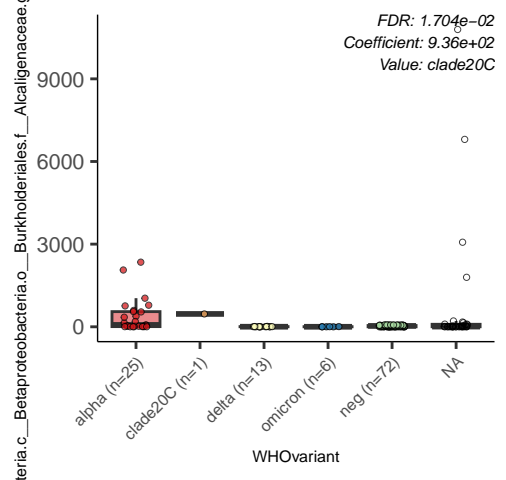


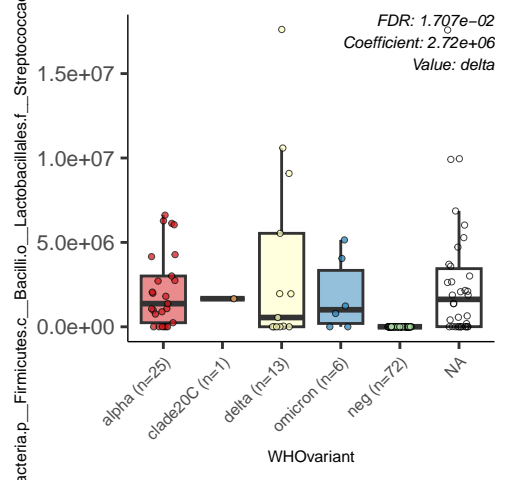
icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

FDR: 1.687e-02
Coefficient: -2.68e+02
Value: neg

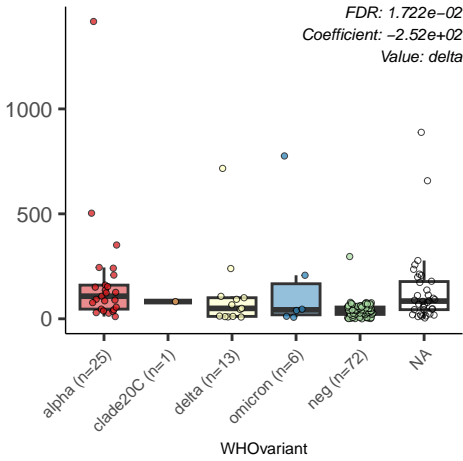


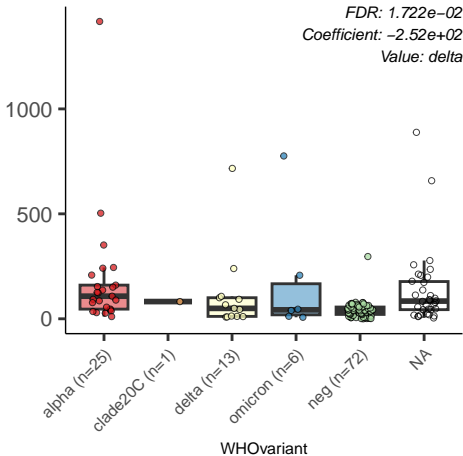


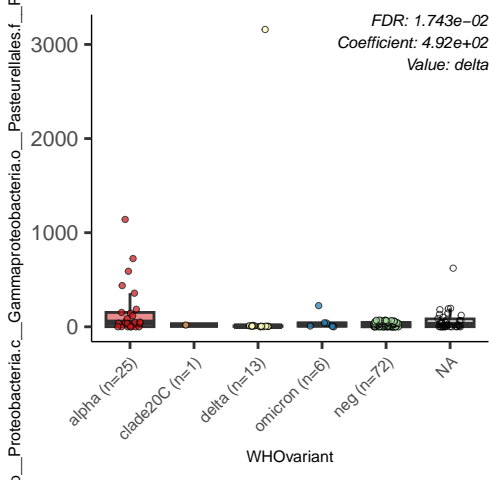




d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Candidatus.N

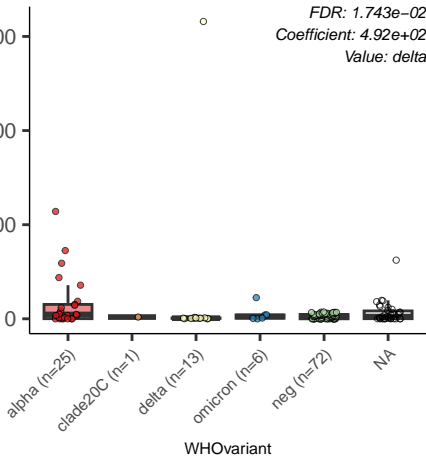


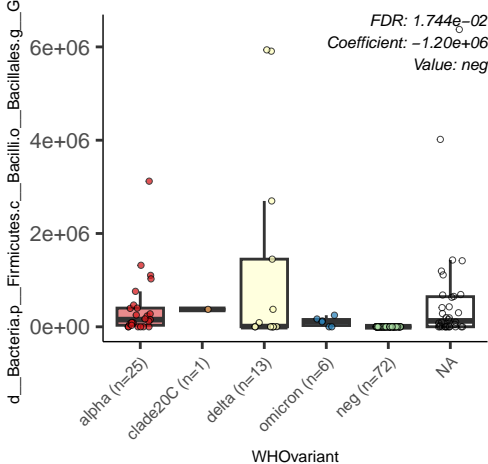




bacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurella

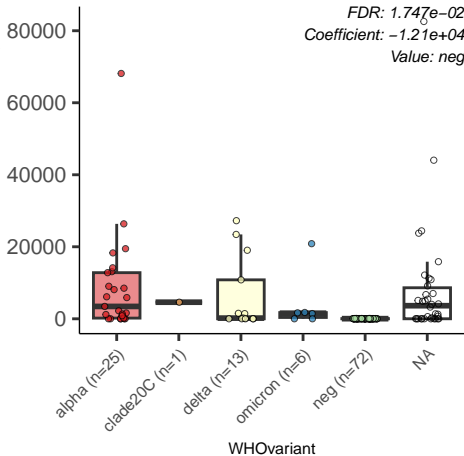
FDR: 1.743e-02
Coefficient: 4.92e+02
Value: delta



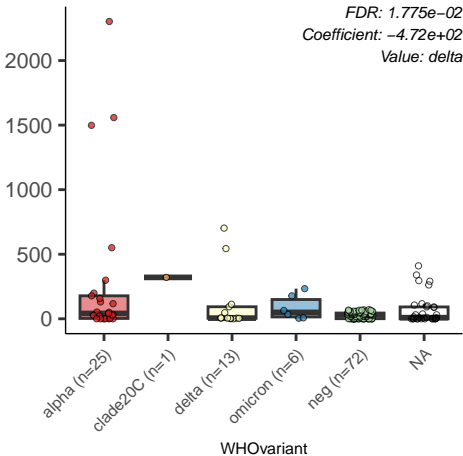


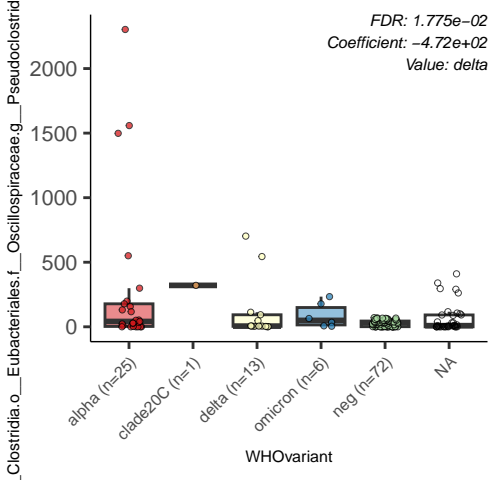
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

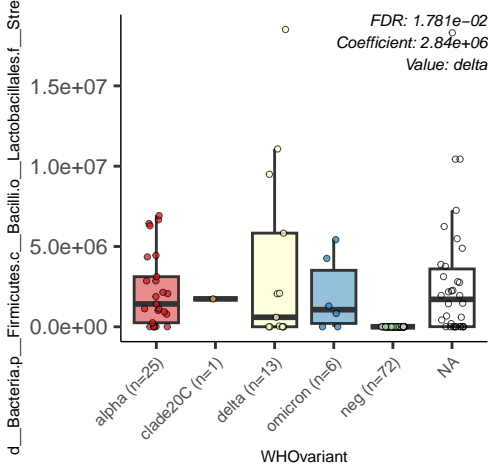
FDR: 1.747×10^{-2}
Coefficient: -1.21×10^4
Value: neg



eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira

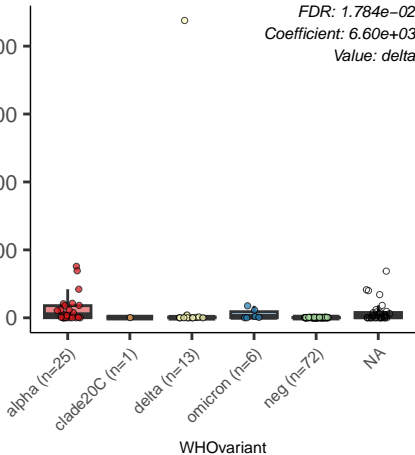


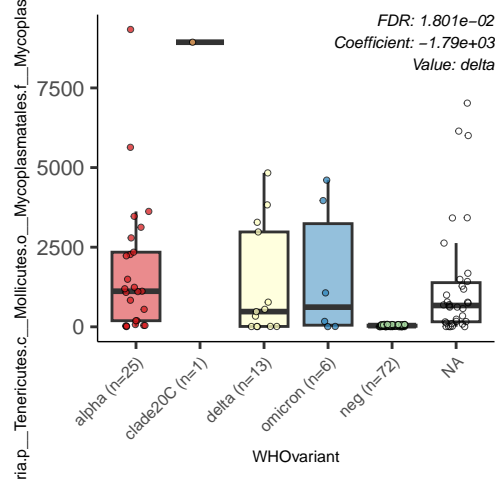




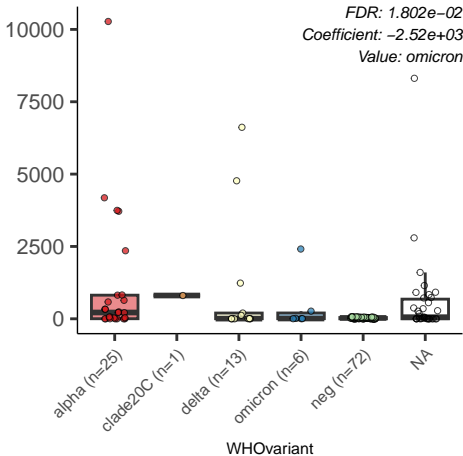
Gamma__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae.g__A

FDR: 1.784e-02
Coefficient: 6.60e+03
Value: delta



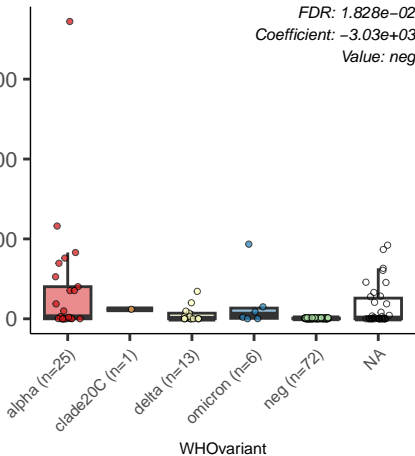


monadia.o__Candidatus.Nanosynbacterales.f__Candidatus.Nanosyn

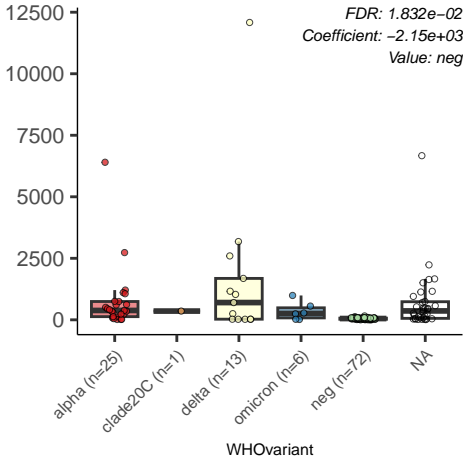


eroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagaceae.g__S

FDR: $1.828e-02$
Coefficient: $-3.03e+03$
Value: neg

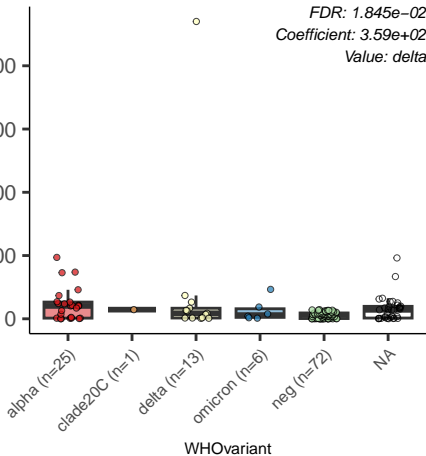


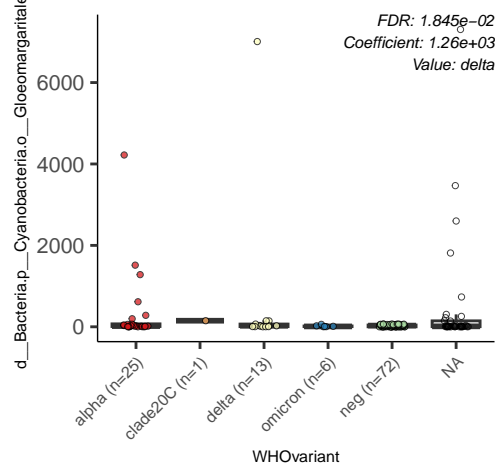
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococ



a.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales

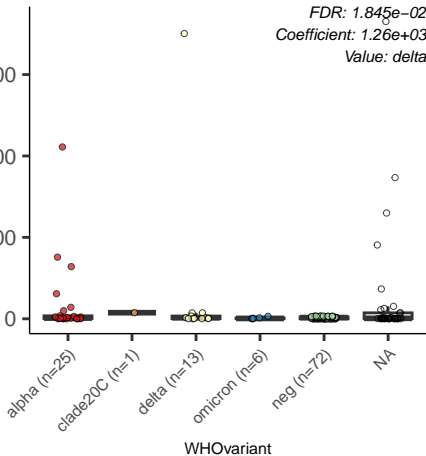
FDR: 1.845e-02
Coefficient: 3.59e+02
Value: delta

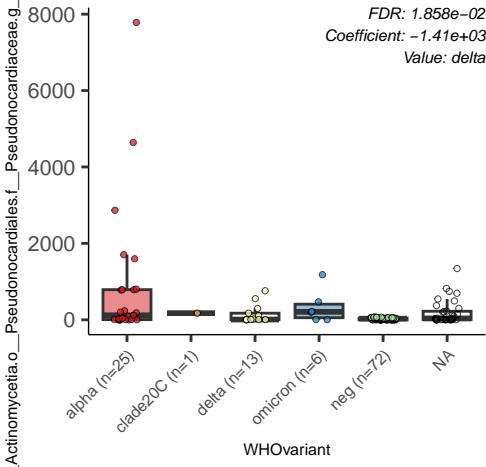


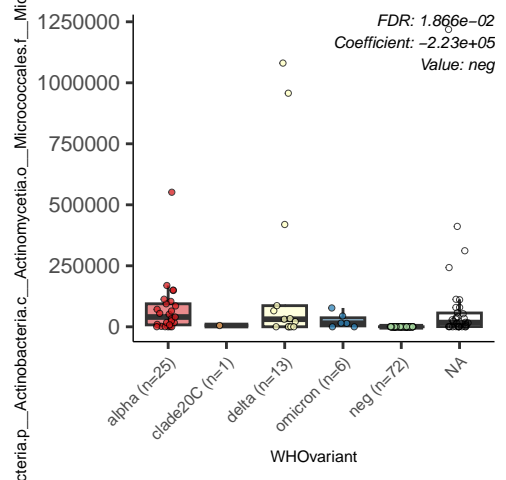


d_Bacteria.p__Cyanobacteria.o__Gloeomargaritales.f__Gloeos

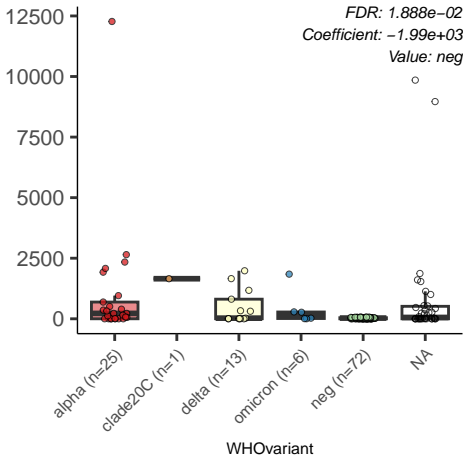
FDR: 1.845e-02
Coefficient: 1.26e+03
Value: delta



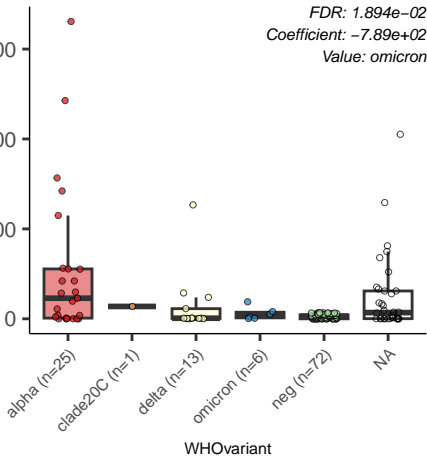


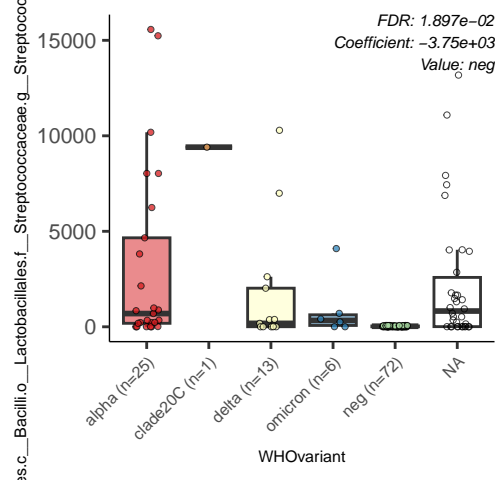


s.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipelotrichaceae.g



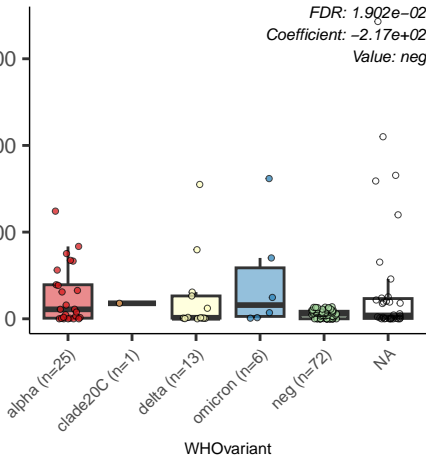
s.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_Chry

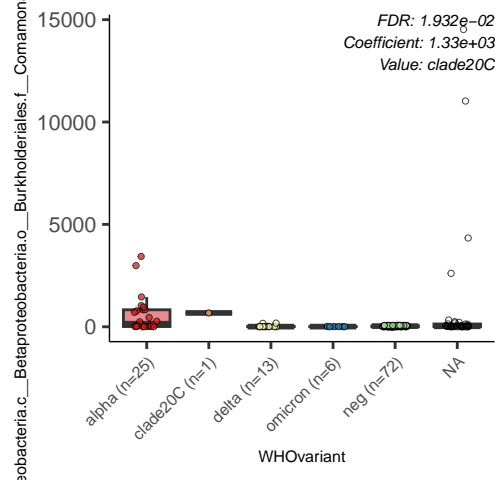


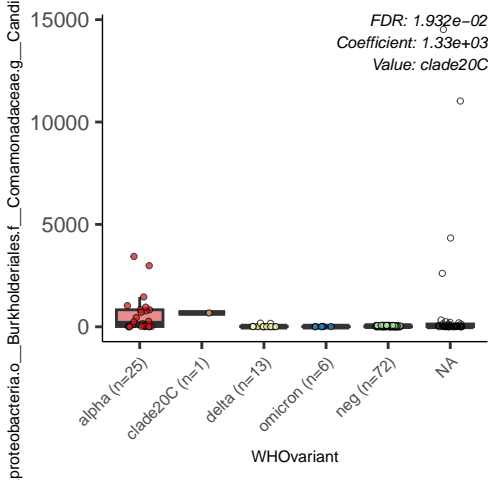


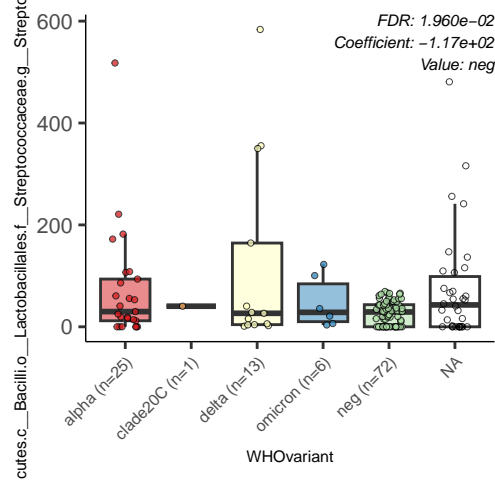
ia.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Cyclobacte

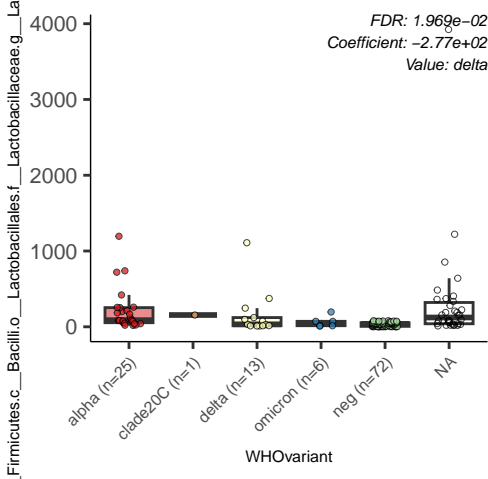
FDR: $1.902e-02$
Coefficient: $-2.17e+02$
Value: neg





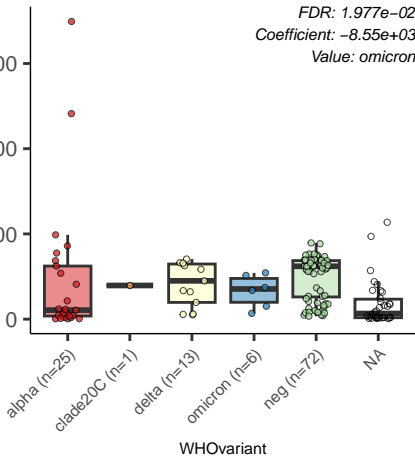


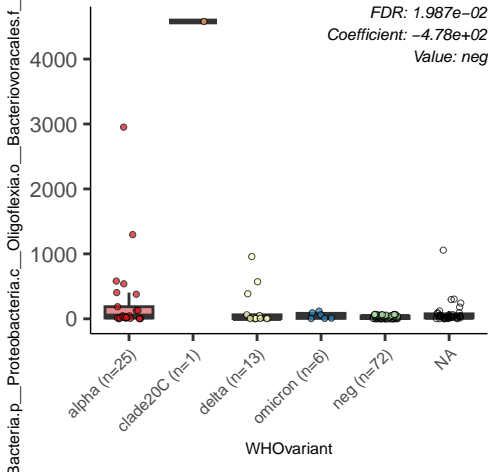




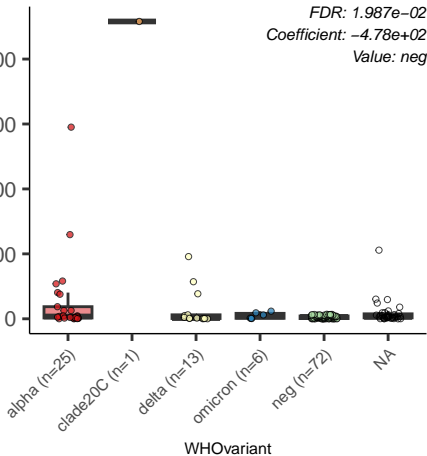
Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales

FDR: $1.977e-02$
Coefficient: $-8.55e+03$
Value: omicron





Proteobacteria.c__Oligoflexia.o__Bacteriovoracales.f__Halobacter



micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

FDR: 1.991e-02
Coefficient: 8.39e+01
Value: delta

1000

500

0

alpha (n=25)

clade20C (n=1)

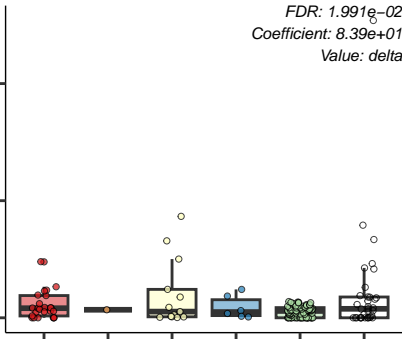
delta (n=13)

omicron (n=6)

neg (n=72)

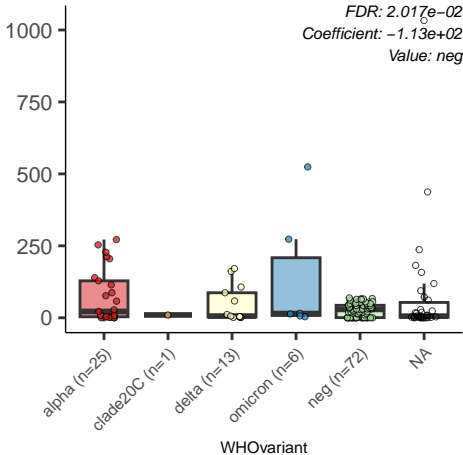
NA

WHOvariant

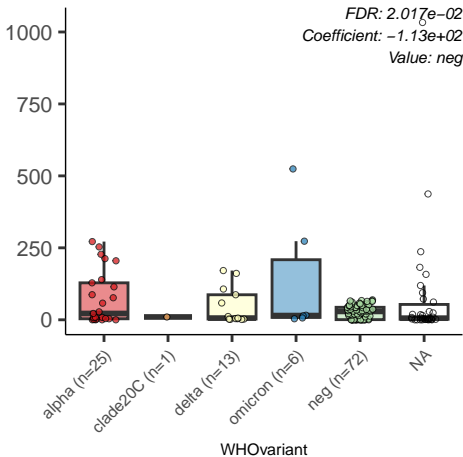


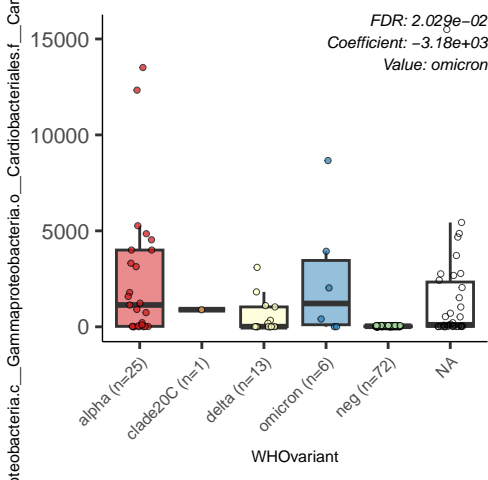
cteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synerg

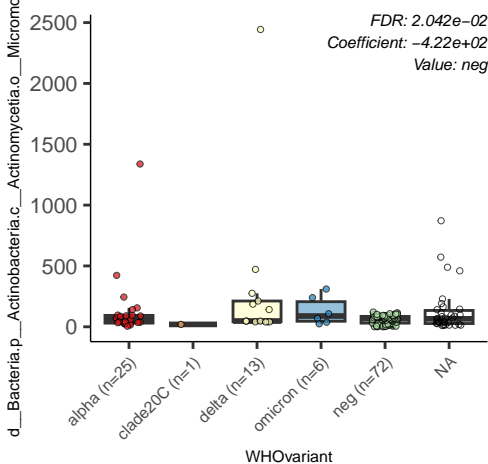
FDR: 2.017e-02
Coefficient: -1.13e+02
Value: neg

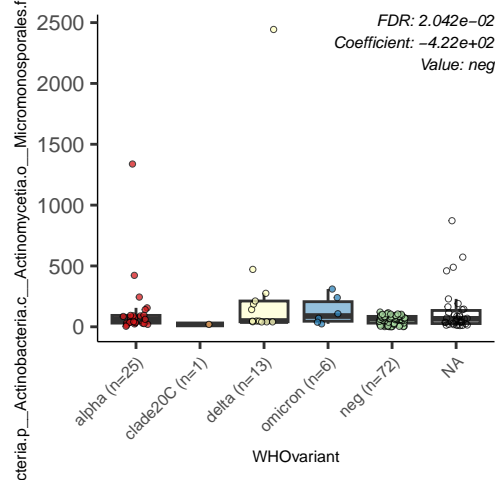


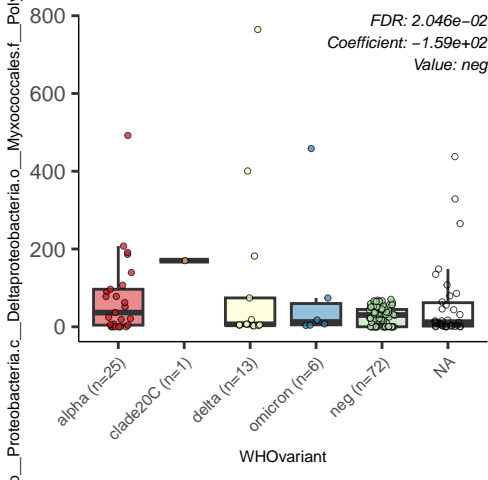
nergistetes.c__Synergistia.o__Synergistales.f__Synergistaceae.g

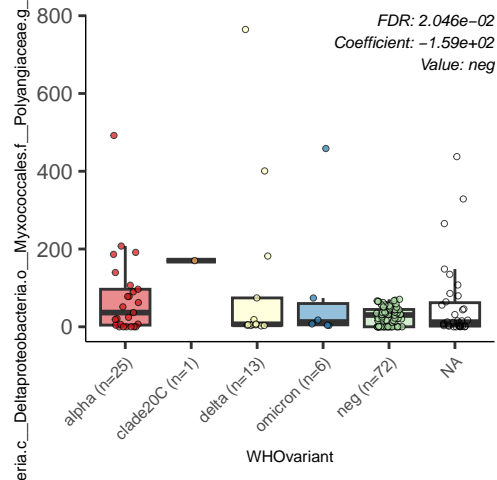






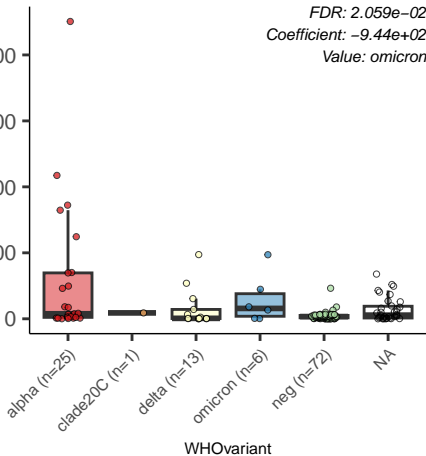






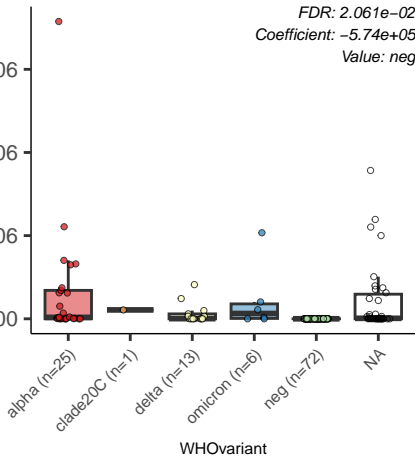
Actinomycetia.o__Corynebacteriales.f__Corynebacteriaceae.g__Co

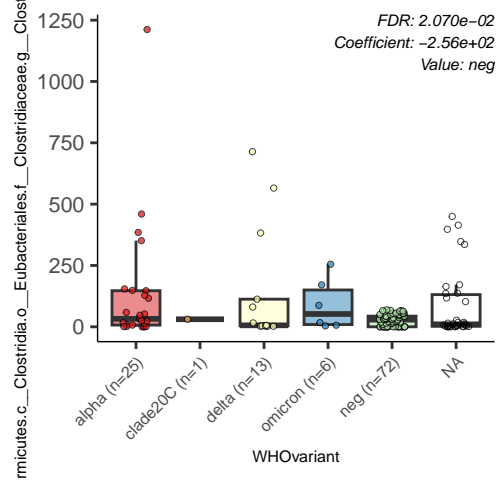
FDR: $2.059e-02$
Coefficient: $-9.44e+02$
Value: omicron

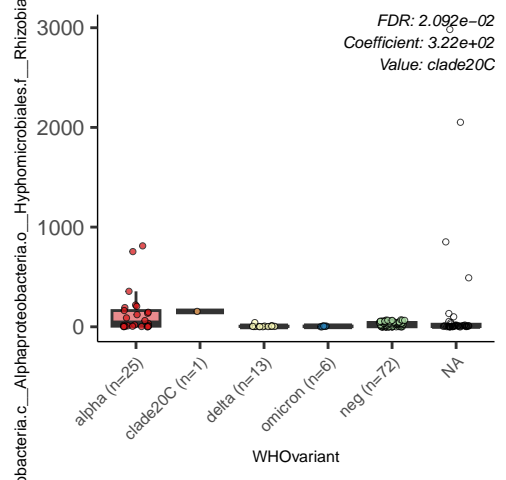


bacteria.p_Firmicutes.c_Negativicutes.o_Veillonellales.f_Veillonell

FDR: 2.061e-02
Coefficient: -5.74e+05
Value: neg

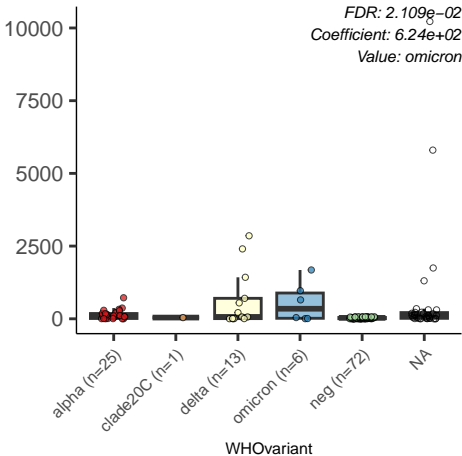






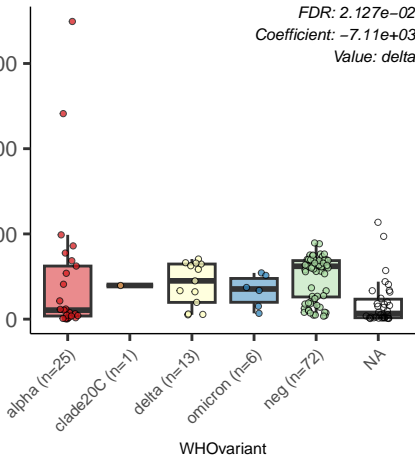
a.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales

FDR: 2.109×10^{-2}
Coefficient: 6.24×10^2
Value: omicron



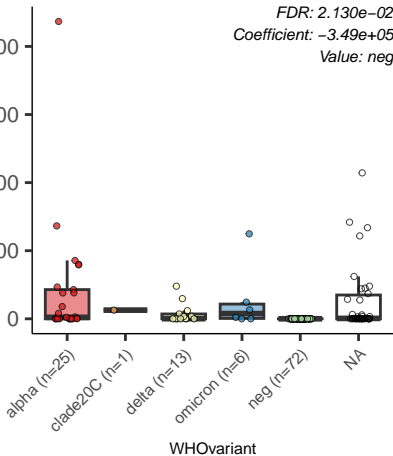
Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales

FDR: $2.127e-02$
Coefficient: $-7.11e+03$
Value: delta

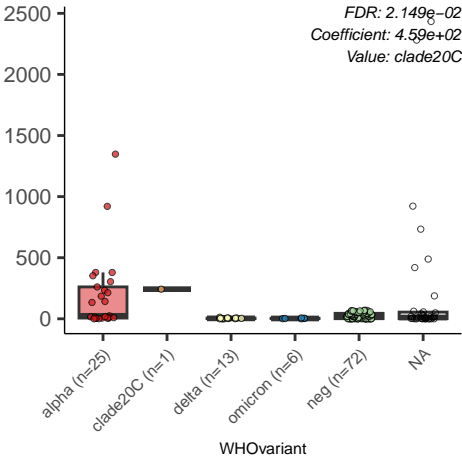


hivites.c__Negativicutes.o__Veillonellales.f__Veillonellaceae.g__Me

FDR: 2.130e-02
Coefficient: -3.49e+05
Value: neg

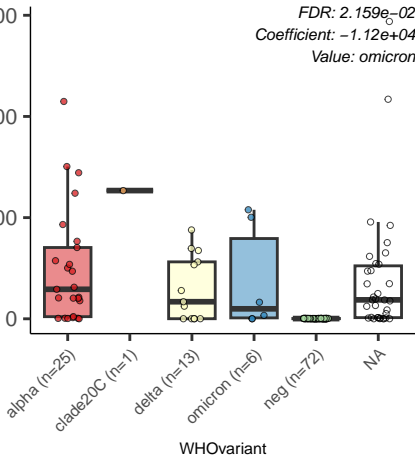


c__Alphaproteobacteria.o__Hyphomicrobiales.f__Nitrobacteraceae.



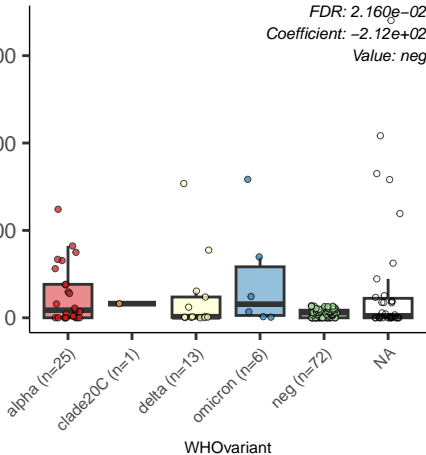
d_Bacteria.p_Tenericutes

FDR: $2.159e-02$
Coefficient: $-1.12e+04$
Value: omicron



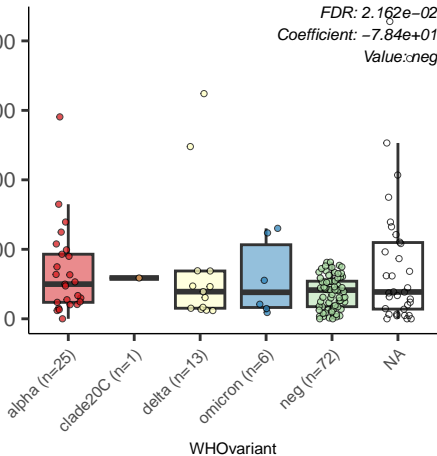
detes.c__Cytophagia.o__Cytophagales.f__Cyclobacteriaceae.g__C

FDR: 2.160e-02
Coefficient: -2.12e+02
Value: neg



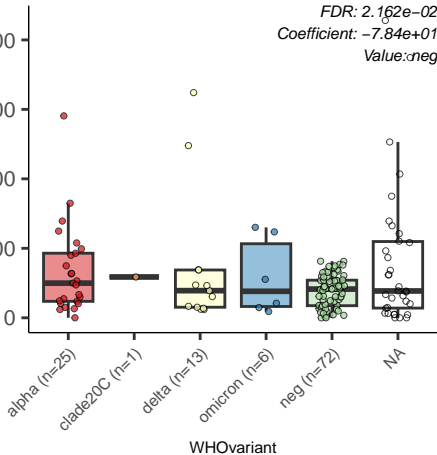
teobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__Halobacterium

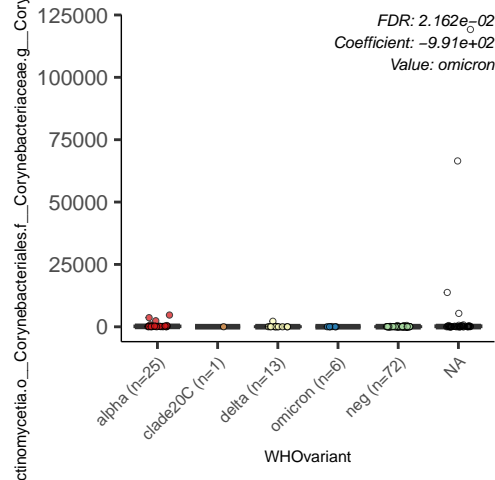
FDR: $2.162e-02$
Coefficient: $-7.84e+01$
Value: neg

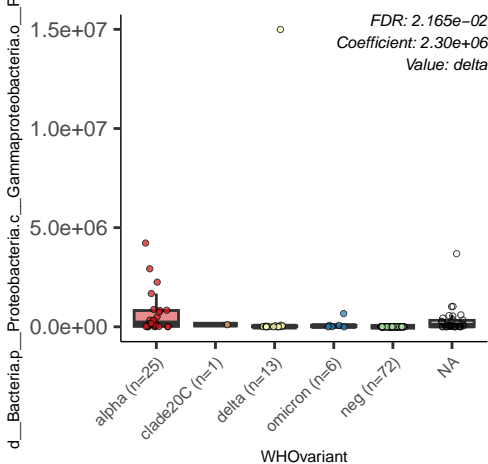


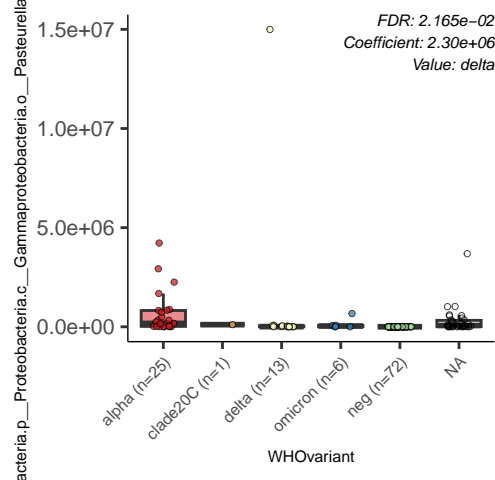
nmmaproteobacteria.o__Oceanospirillales.f__Halomonadaceae.g__C

FDR: $2.162e-02$
Coefficient: $-7.84e+01$
Value: neg

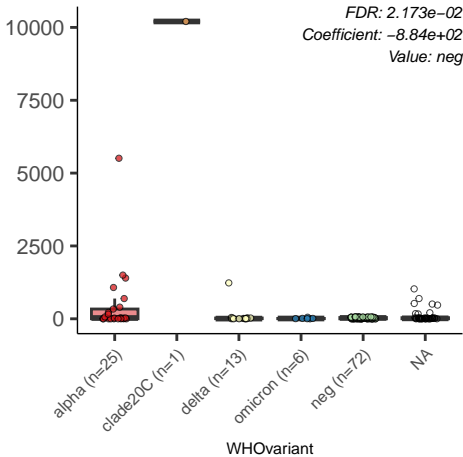




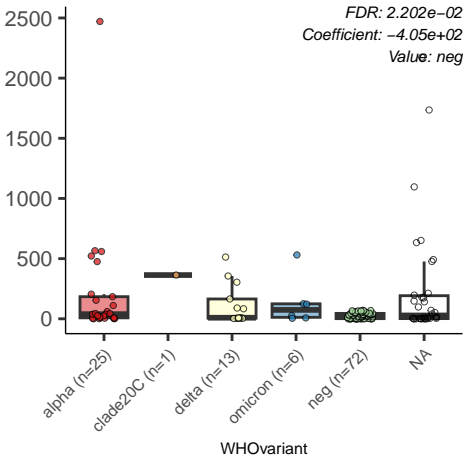




Bacteria.p_Spirochaetes.c_Spirochaetia.o_Spirochaetales.f_Bo

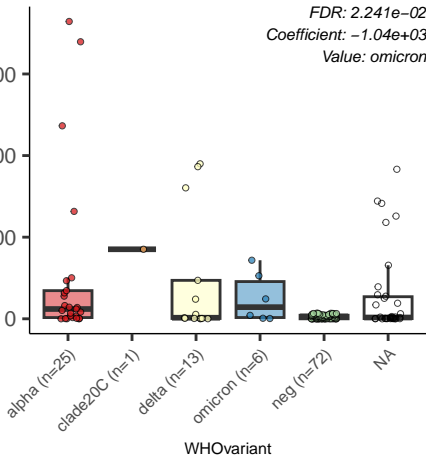


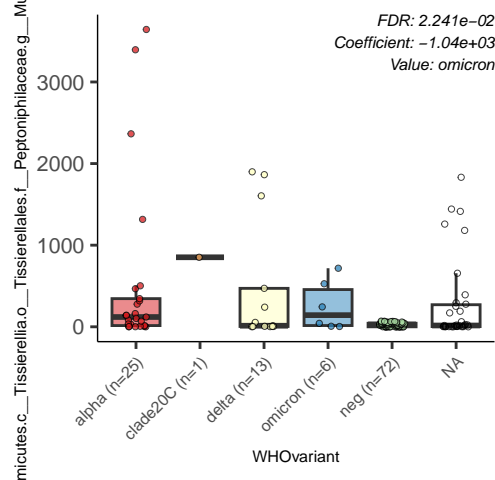
bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__Pi

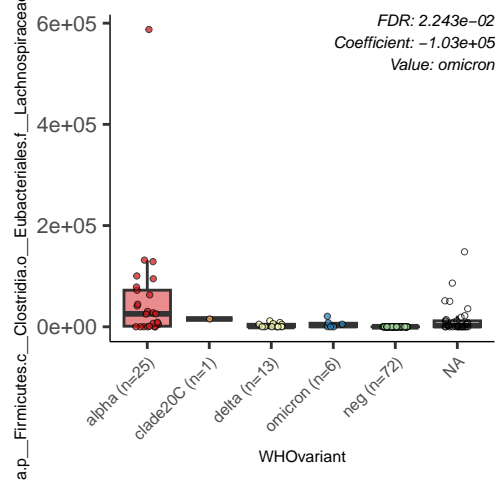


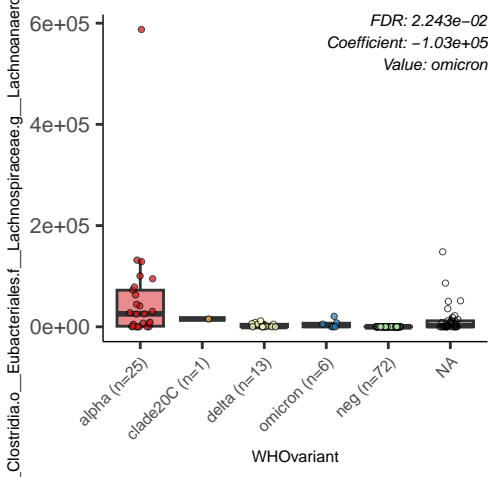
bacteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniph

FDR: 2.241e-02
Coefficient: -1.04e+03
Value: omicron

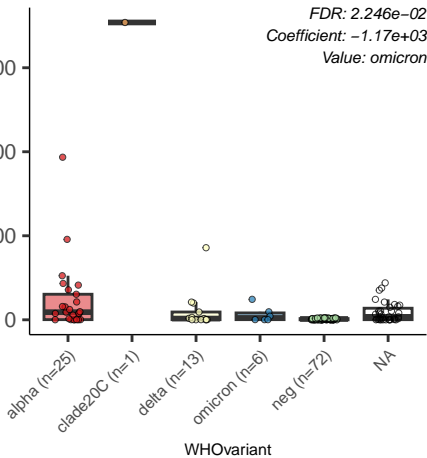


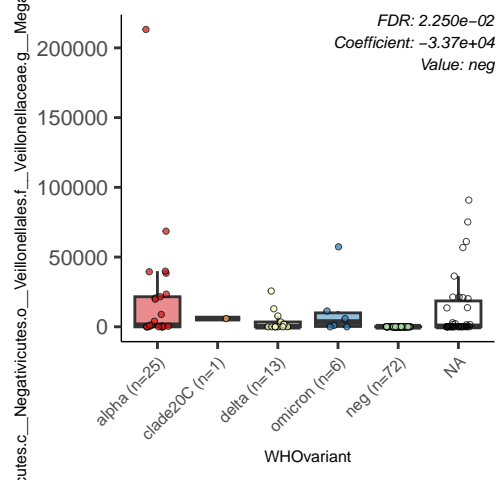




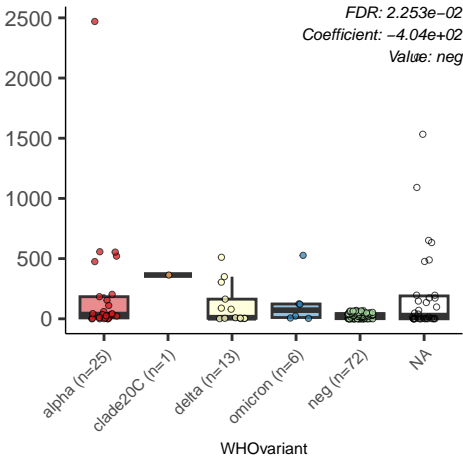


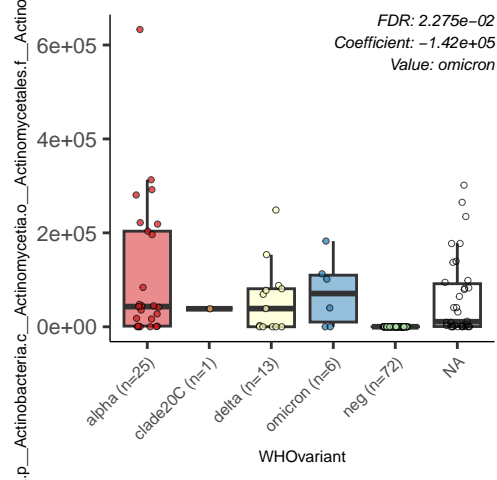
d_Bacteria.p__Spirochaetes.c__Spirochaetia.o__Spirochaetales



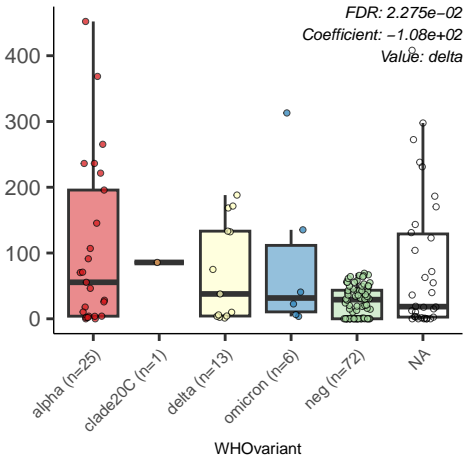


lanctomycetes.c__Planctomycetia.o__Pirellulales.f__Pirellulaceae.g

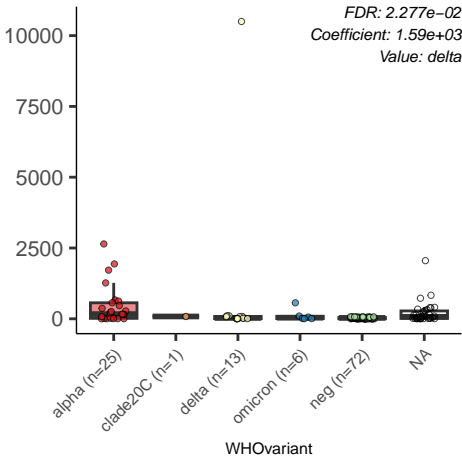


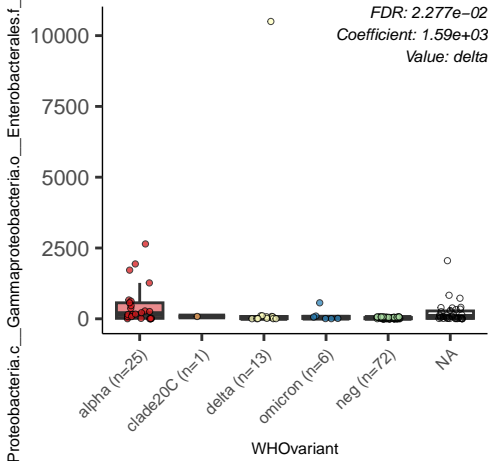


Firmicutes.c__Clostridia.o__Thermoanaerobacterales.f__Thermo



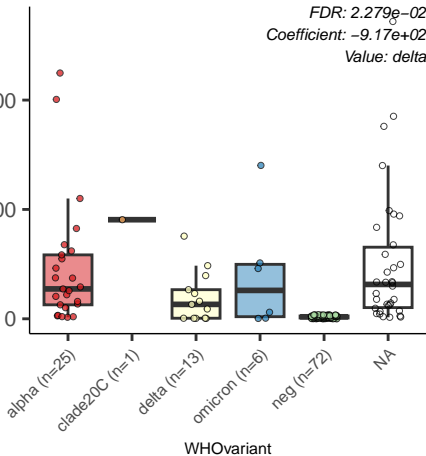
irria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobactera





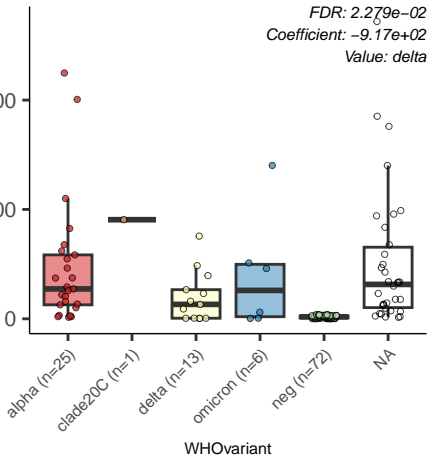
d_Bacteria.p_Bacteroidetes.c_Chitinophagia

FDR: $2.279e-02$
Coefficient: $-9.17e+02$
Value: delta



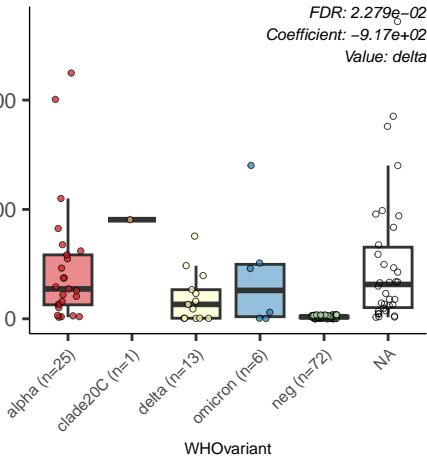
d_Bacteria.p_Bacteroidetes.c__Chitinophagia.o__Chitin

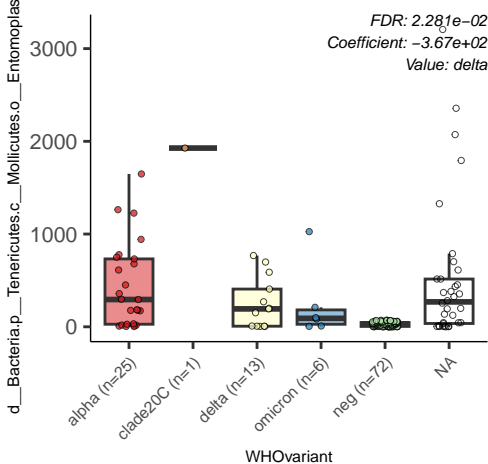
FDR: 2.279×10^{-2}
Coefficient: -9.17×10^2
Value: delta



_Bacteria.p__Bacteroidetes.c__Chitinophagia.o__Chitinophagales.f

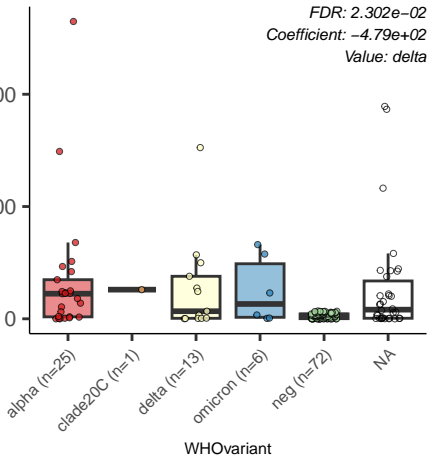
FDR: 2.279×10^{-2}
Coefficient: -9.17×10^2
Value: delta



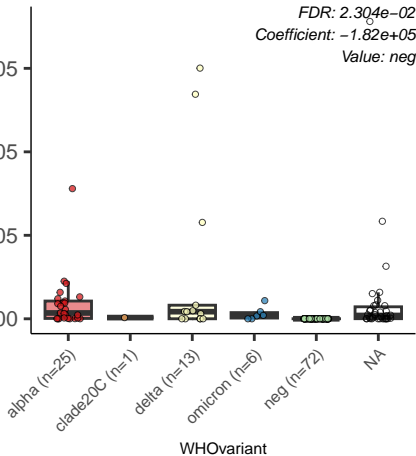


d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Marinifilum

FDR: 2.302×10^{-2}
Coefficient: -4.79×10^2
Value: delta

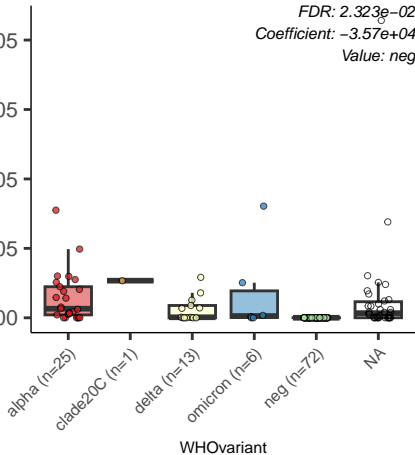


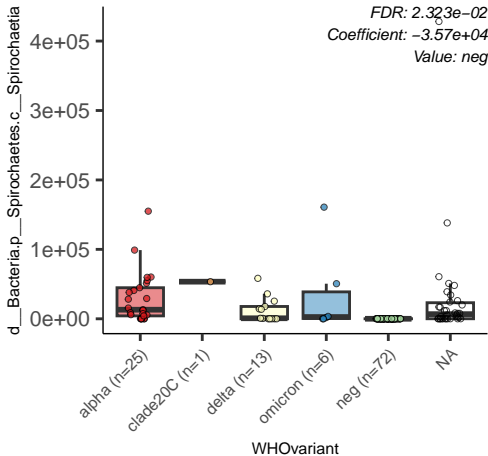
tinobacteria.c__Actinomycetia.o__Micrococcales.f__Micrococcaceae

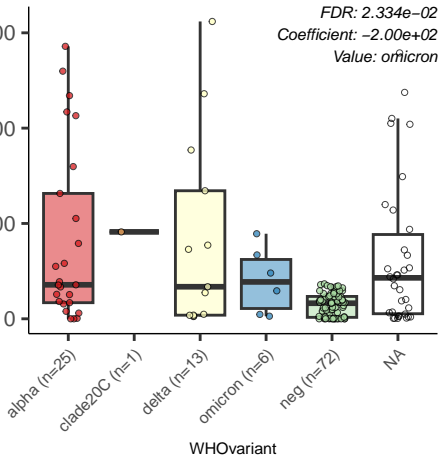


d_Bacteria.p__Spirochaetes

FDR: $2.323e-02$
Coefficient: $-3.57e+04$
Value: neg

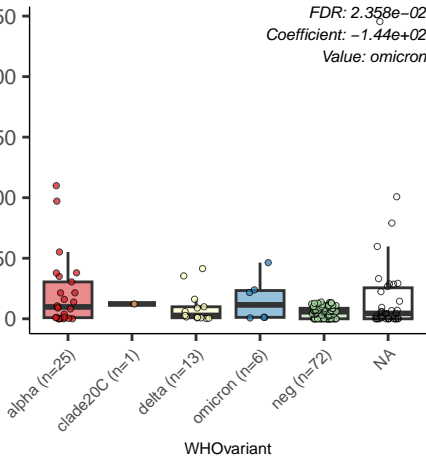


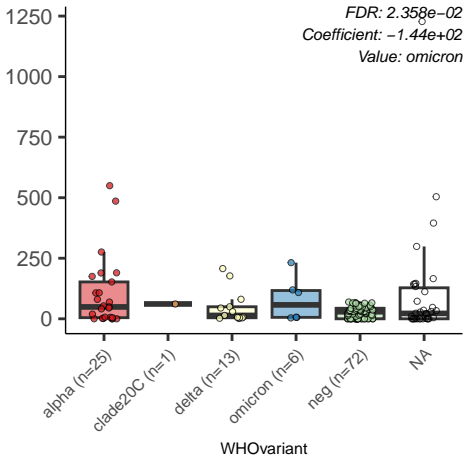




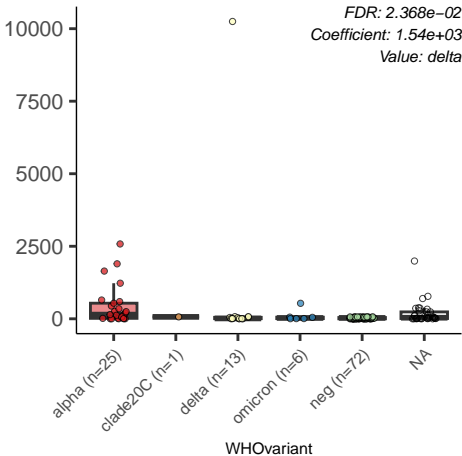
terial.p__Bacteroidetes.c__Bacteroidia.o__Marinilabiales.f__Marinil

FDR: $2.358e-02$
Coefficient: $-1.44e+02$
Value: omicron



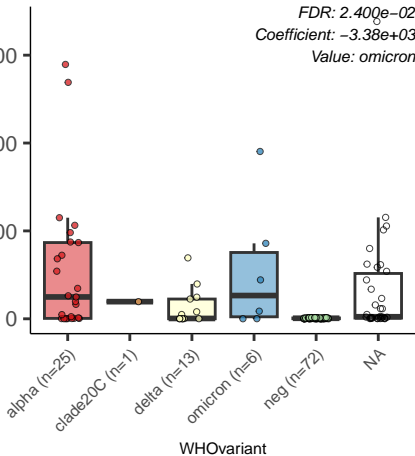


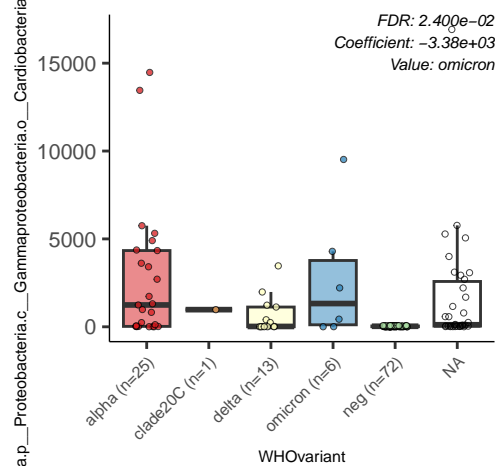
Gamma__Gammaproteobacteria.o__Enterobacterales.f__Bruguierivoracace



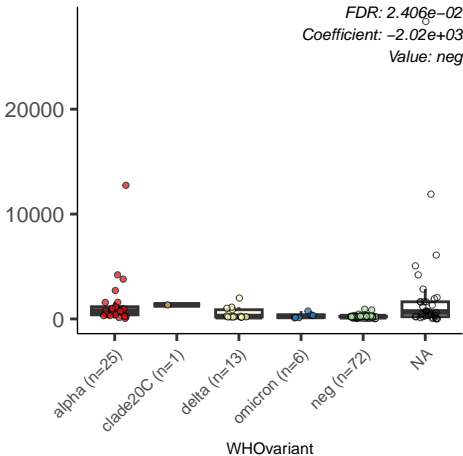
d_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Ca

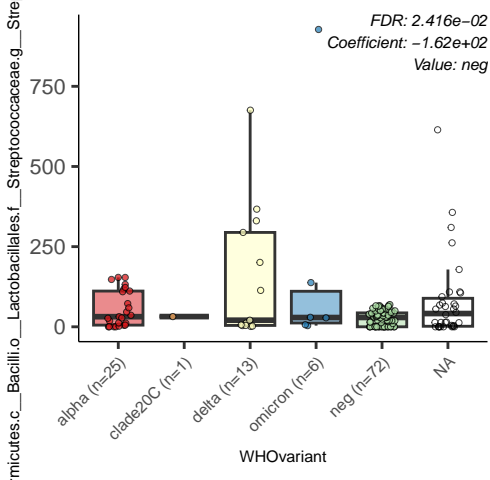
FDR: $2.400e-02$
Coefficient: $-3.38e+03$
Value: omicron

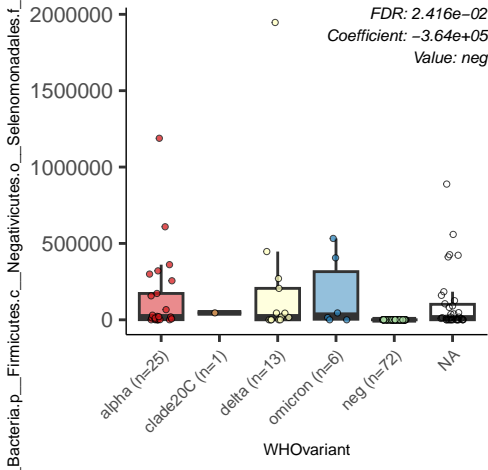


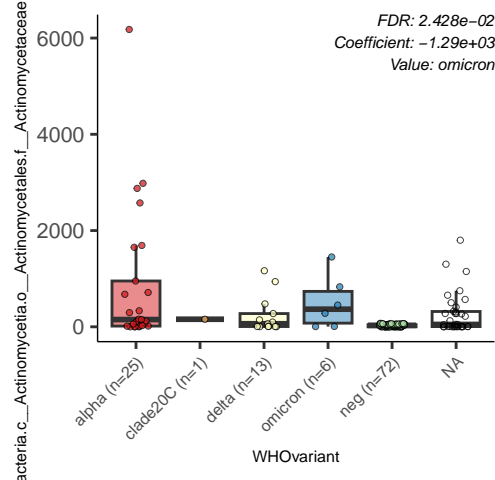


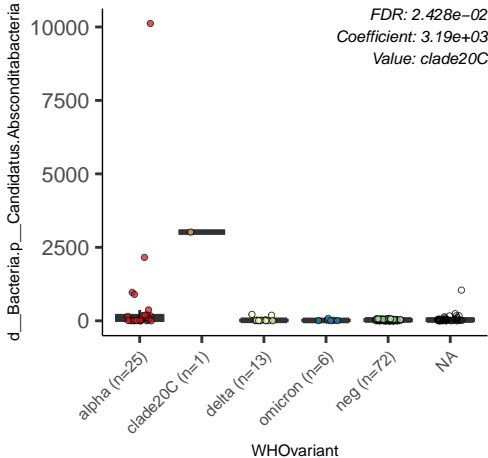
ria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Micro

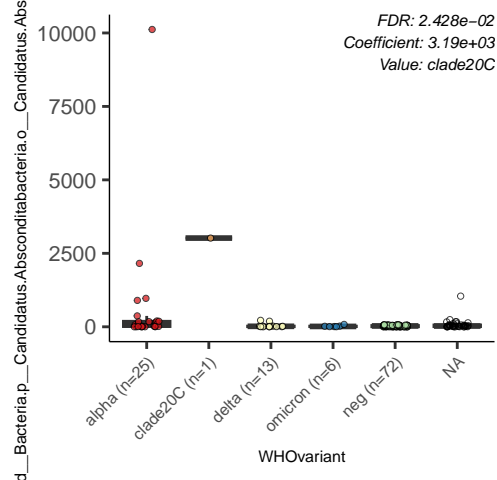




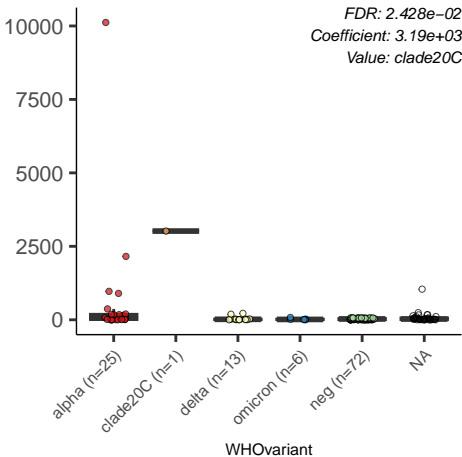




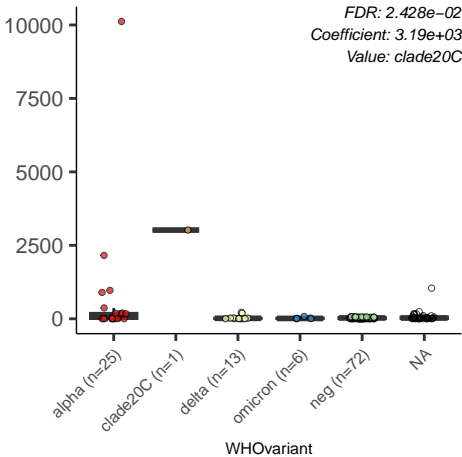


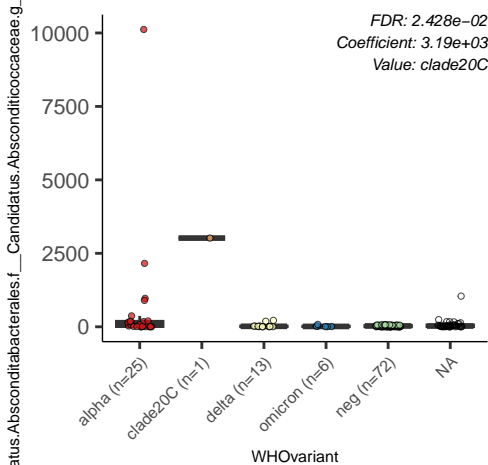


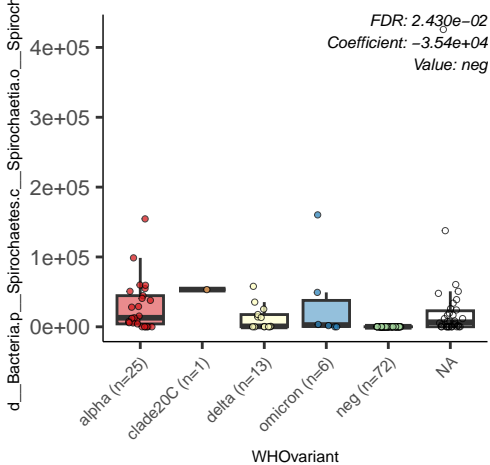
candidatus.Absconditabacteria.o__Candidatus.Absconditabacterales.

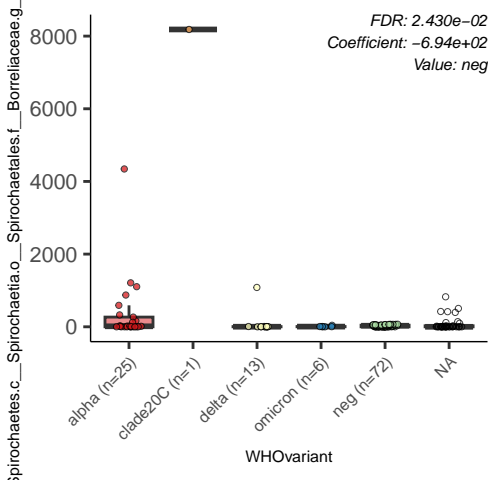


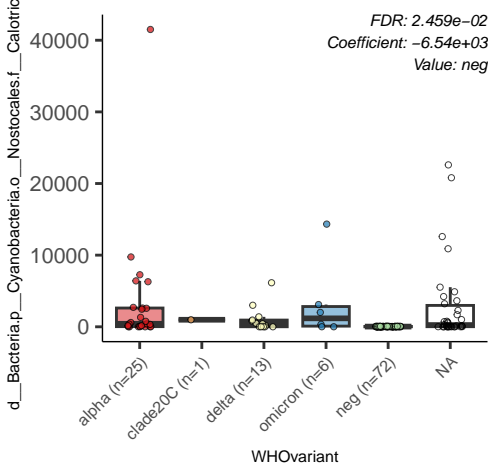
nditabacteria.o__Candidatus.Absconditabacterales.f__Candidatus.A





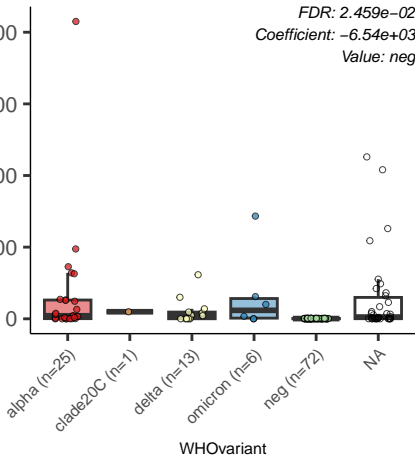


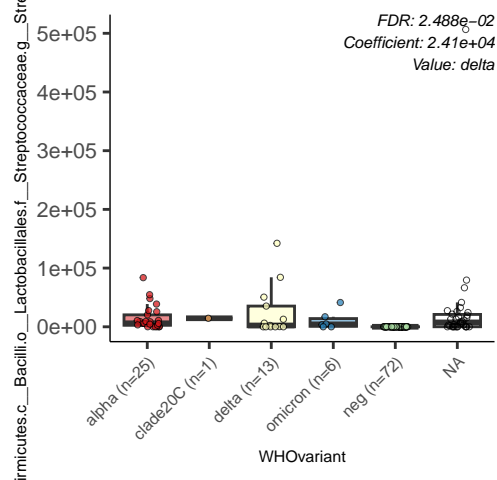




d__Bacteria.p__Cyanobacteria.o__Nostocales.f__Calotrichaceae

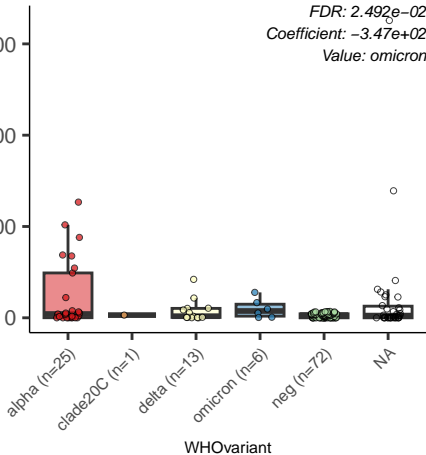
FDR: $2.459e-02$
Coefficient: $-6.54e+03$
Value: neg

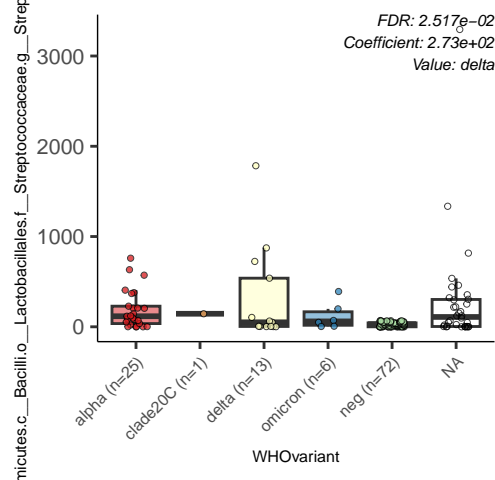


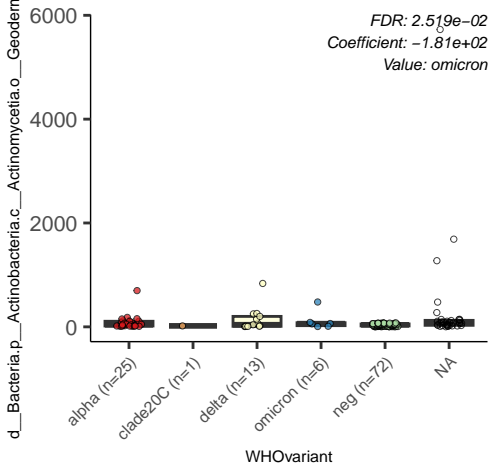


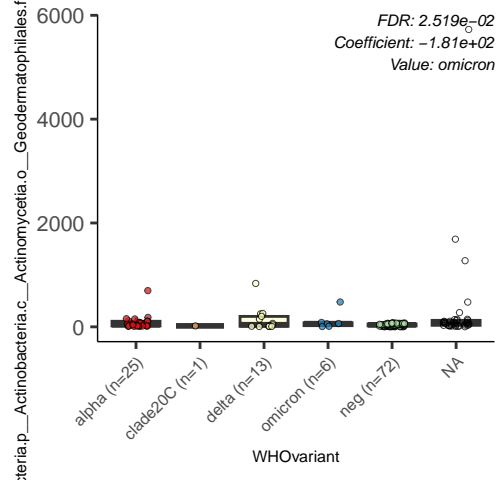
Negativicutes.o__Acidaminococcales.f__Acidaminococcaceae.g

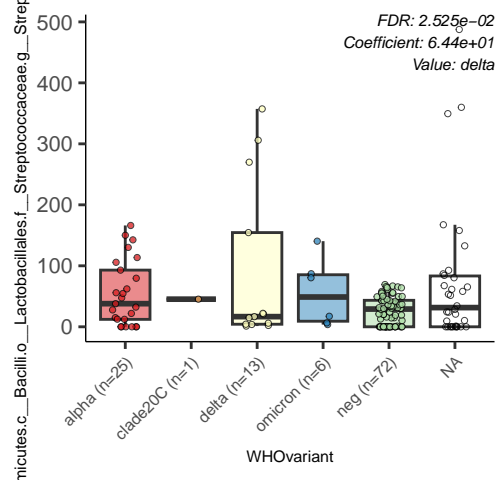
FDR: $2.492e-02$
Coefficient: $-3.47e+02$
Value: omicron

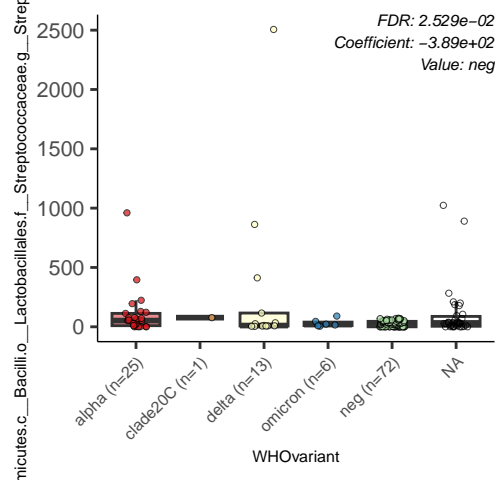


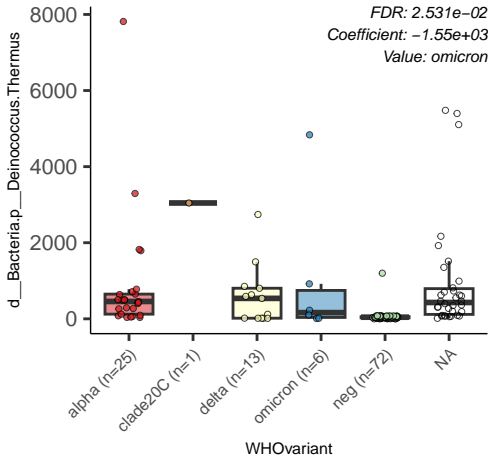


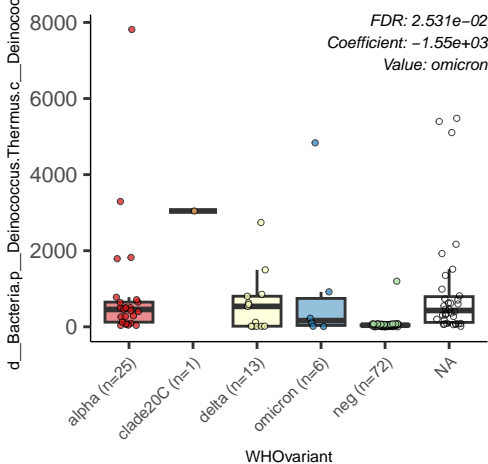






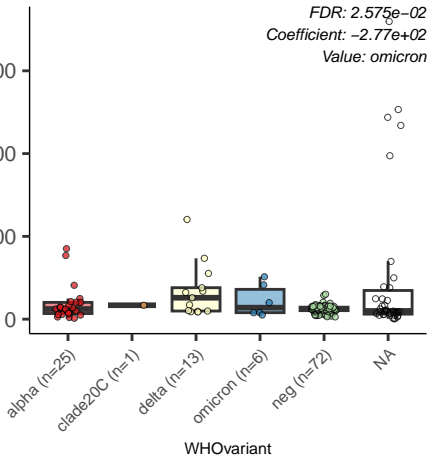




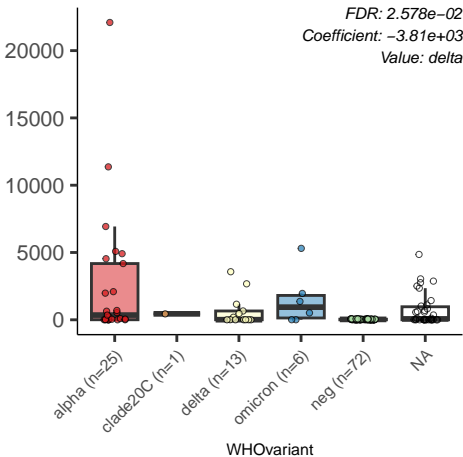


o__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__Bu

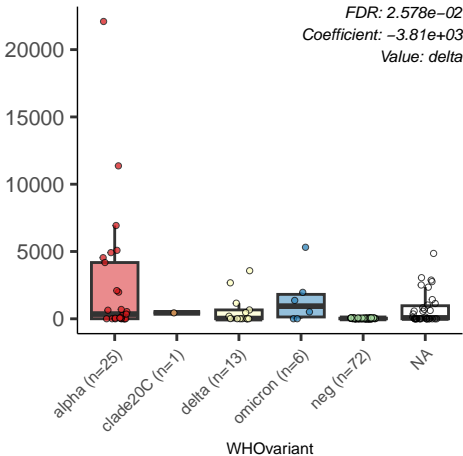
FDR: $2.575e-02$
Coefficient: $-2.77e+02$
Value: omicron

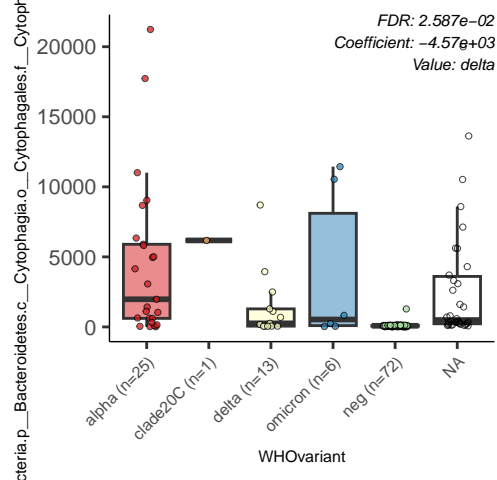


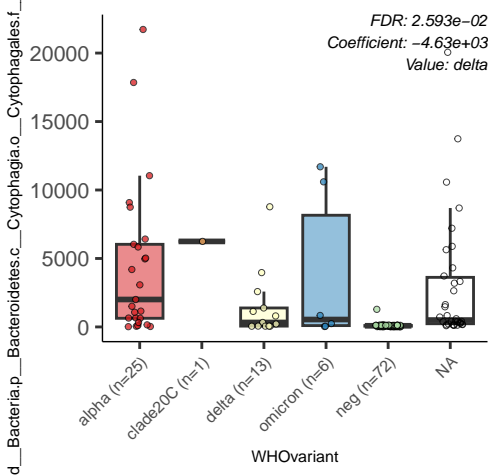
bacteria.c_Actinomycetia.o_Micrococcales.f_Microbacteriaceae.g

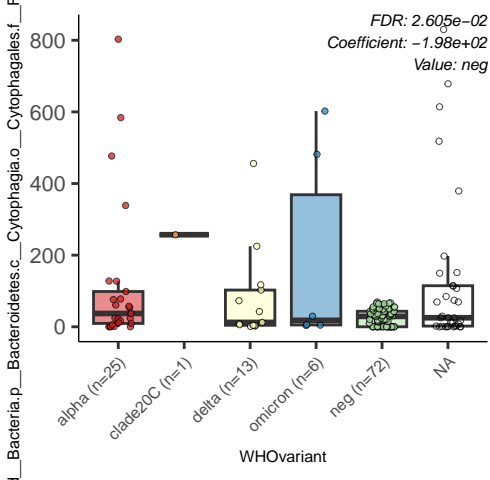


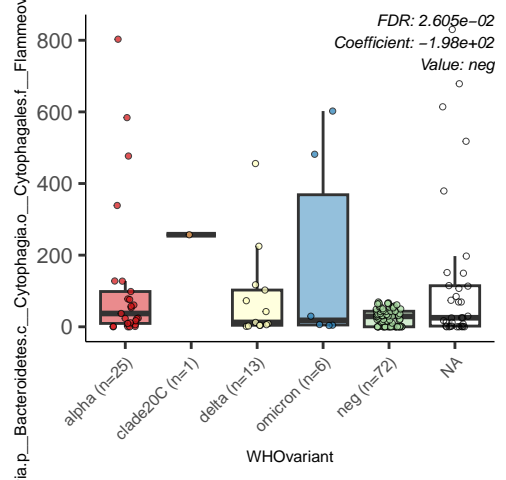
ia.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Microb

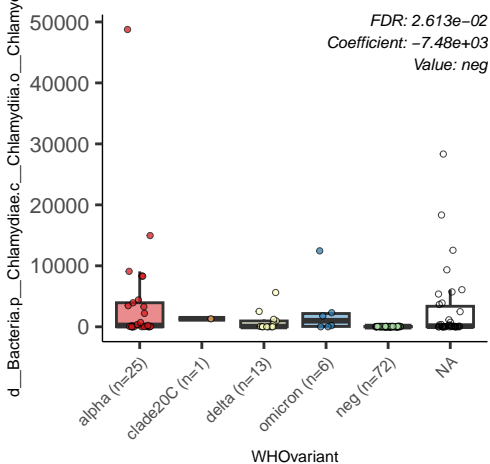


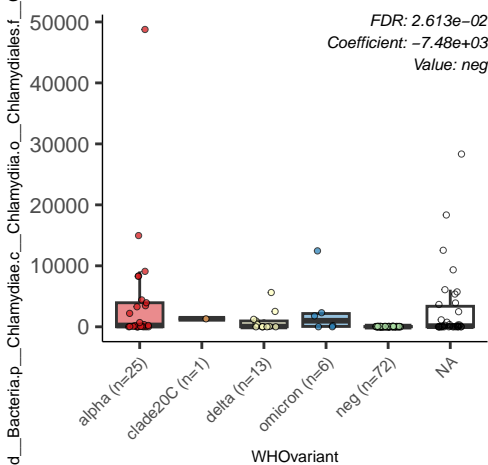


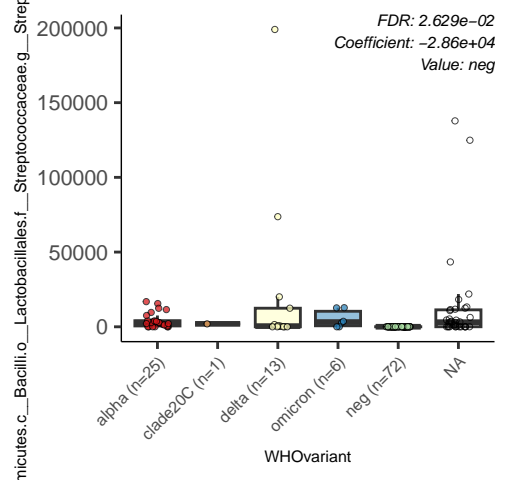






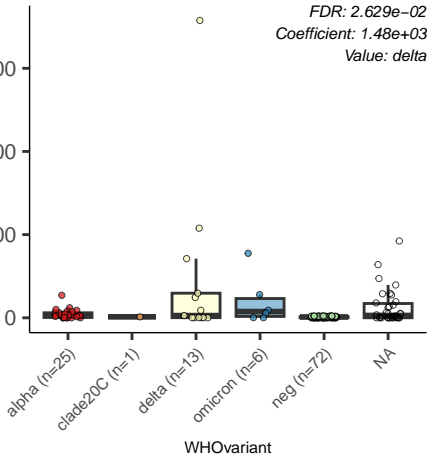


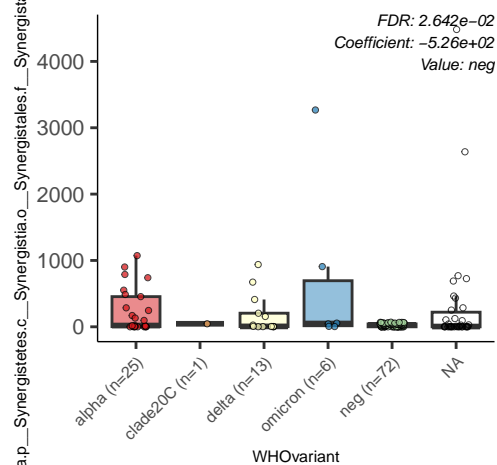


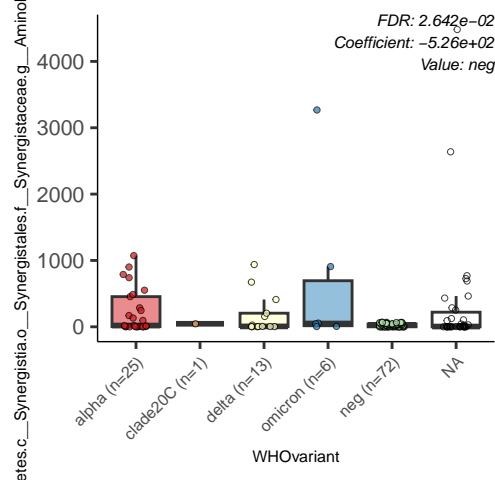


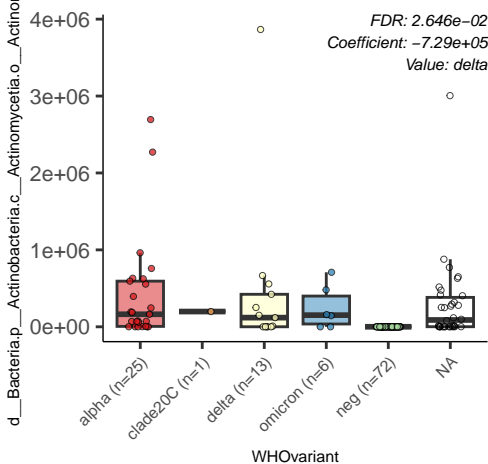
s.c._Bacilli.o_Lactobacillales.f__Streptococcaceae.g__Streptococ

FDR: 2.629e-02
Coefficient: 1.48e+03
Value: delta

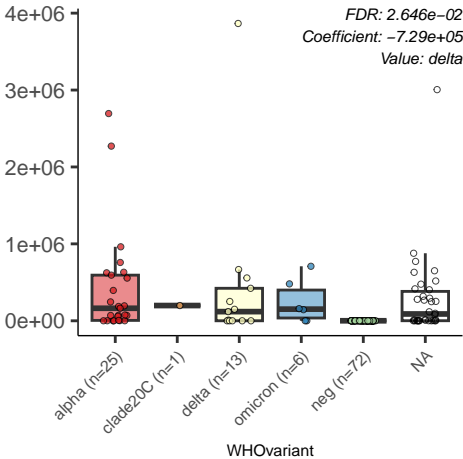




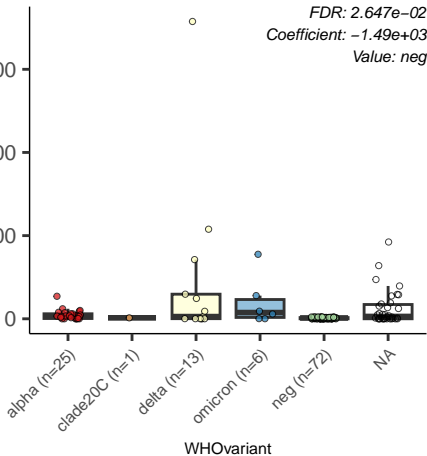


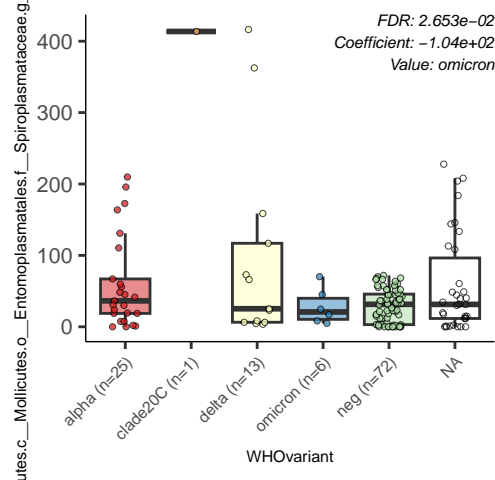


Bacteria.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f



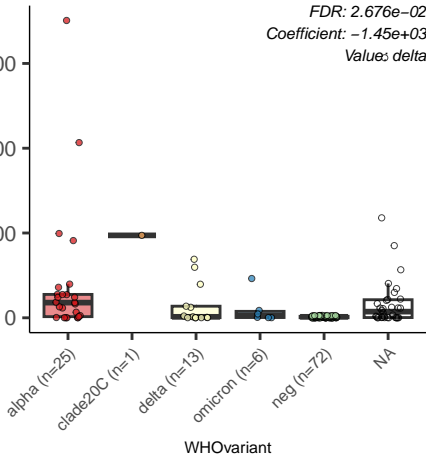
s.c._Bacilli.o_Lactobacillales.f__Streptococcaceae.g__Streptococ

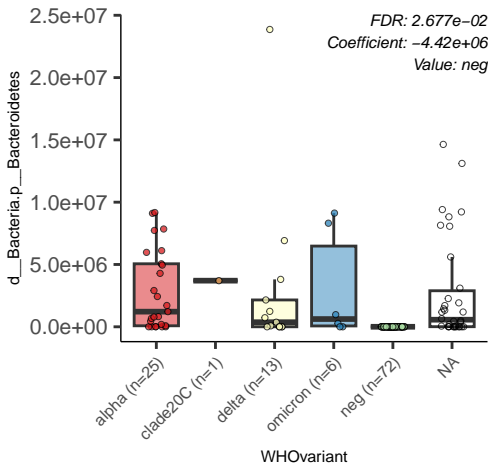




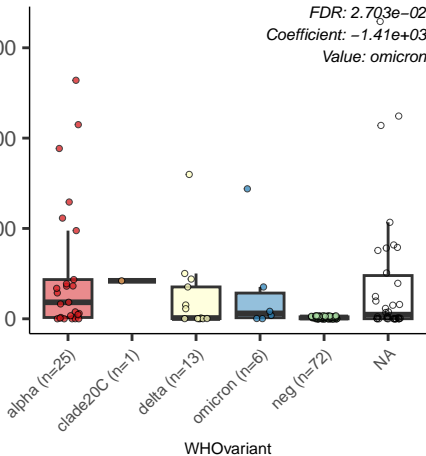
a.p._Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Week

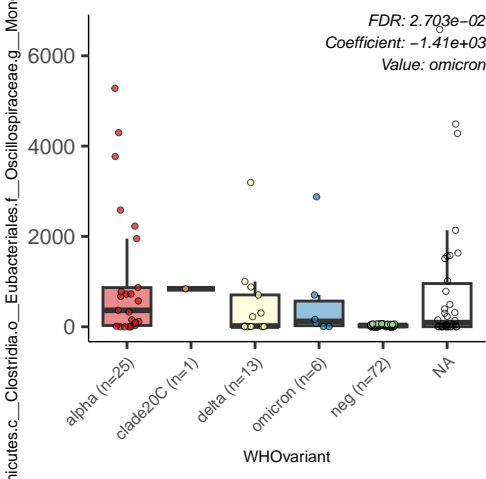
FDR: 2.676e-02
Coefficient: -1.45e+03
Values: delta

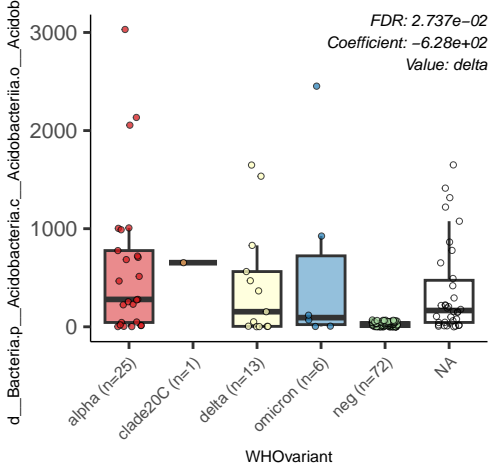


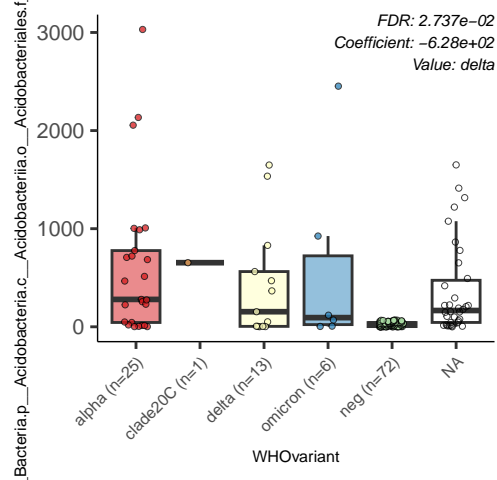


FDR: $2.703e-02$
Coefficient: $-1.41e+03$
Value: omicron



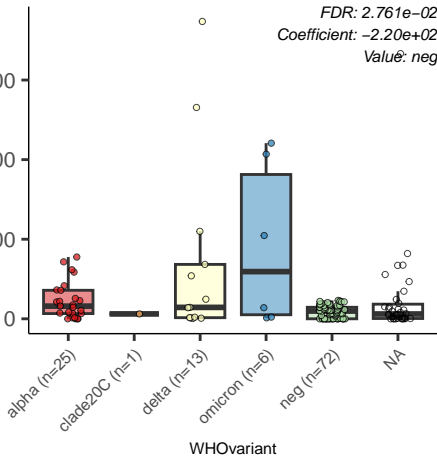






nicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Lactob

FDR: 2.761e-02
Coefficient: -2.20e+02
Value: neg



d__Bacteria.p__Gemmatimonadetes

FDR: $2.769e-02$
Coefficient: $-2.68e+02$
Value: delta

1000

500

0

alpha (n=25)

clade20C (n=1)

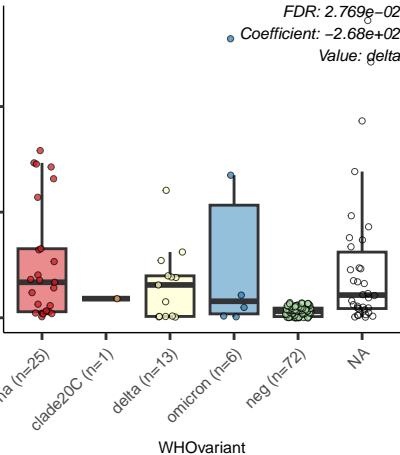
delta (n=13)

omicron (n=6)

neg (n=72)

NA

WHOvariant



d__Bacteria.p__Gemmatimonadetes.c__Gemmatimonada

FDR: 2.769×10^{-2}
Coefficient: -2.68×10^2
Value: delta

1000
500
0

alpha (n=25)

clade20C (n=1)

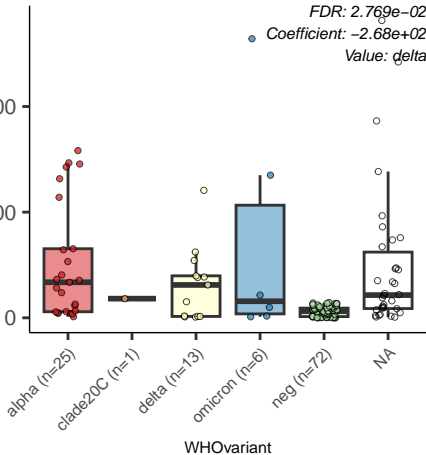
delta (n=13)

omicron (n=6)

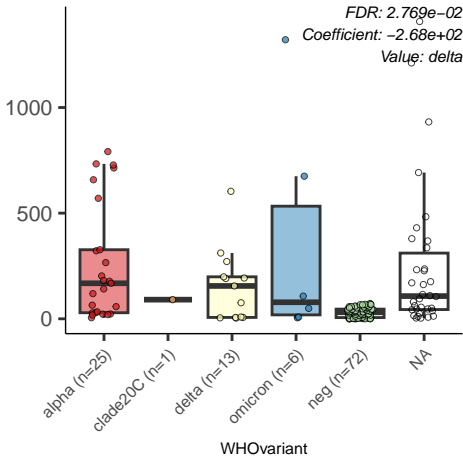
neg (n=72)

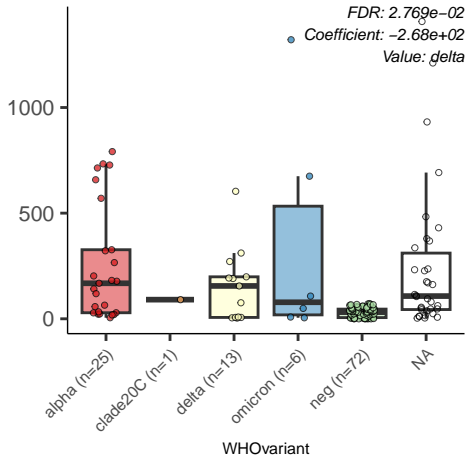
NA

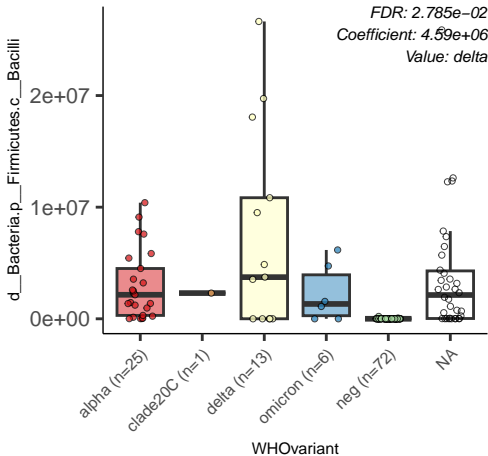
WHOvariant

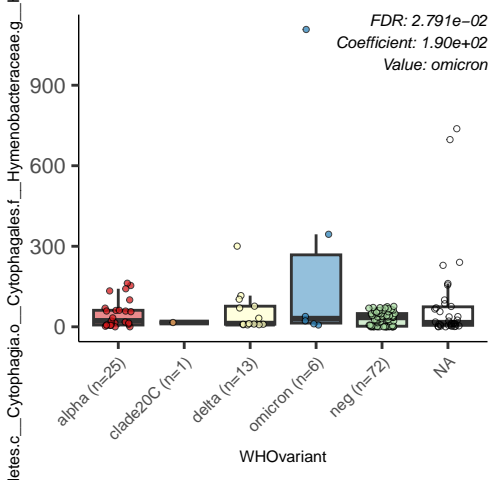


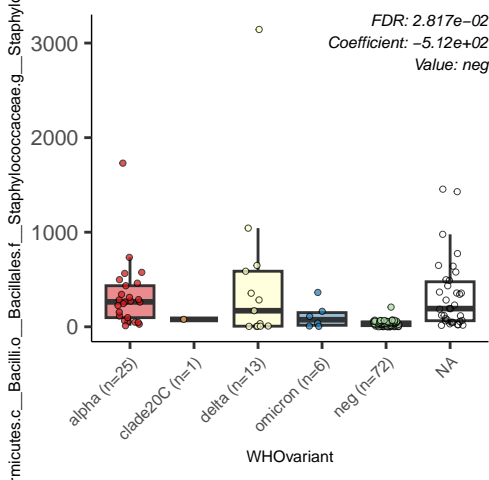
d_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_Ge





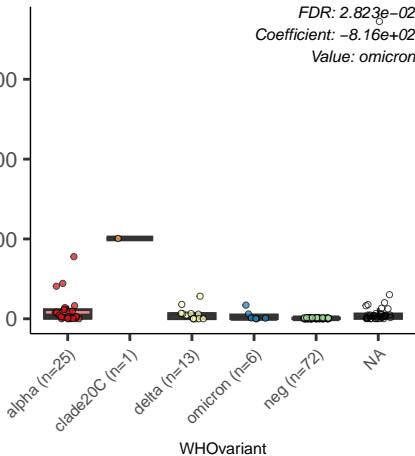




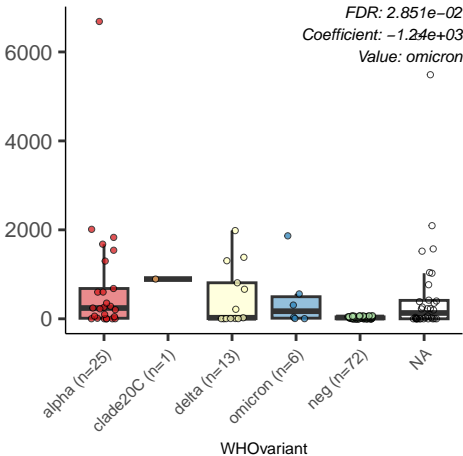


eria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacter

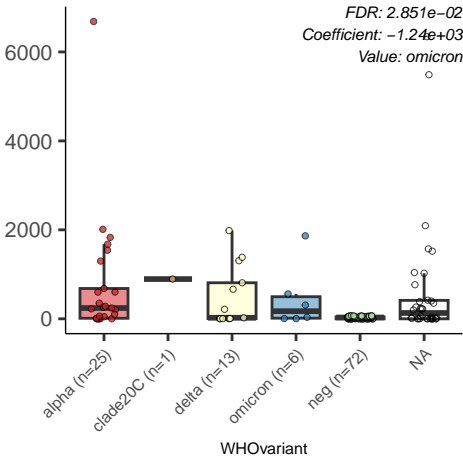
FDR: $2.823e-02$
Coefficient: $-8.16e+02$
Value: omicron

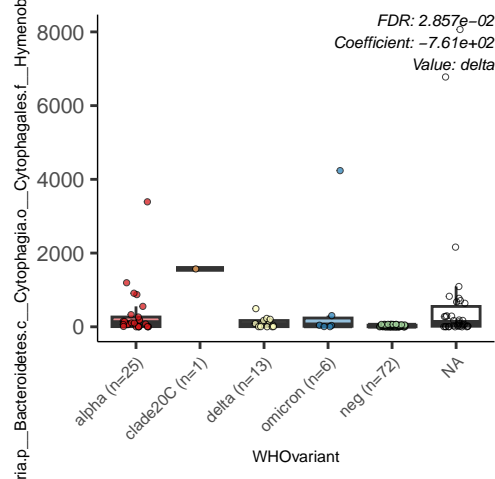


l.p__Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipe



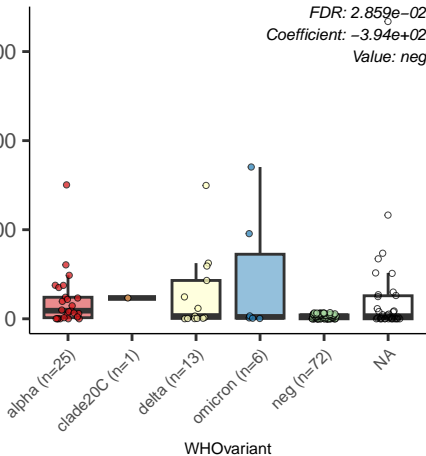
s.c._Erysipelotrichia.o__Erysipelotrichales.f__Erysipelotrichaceae.g

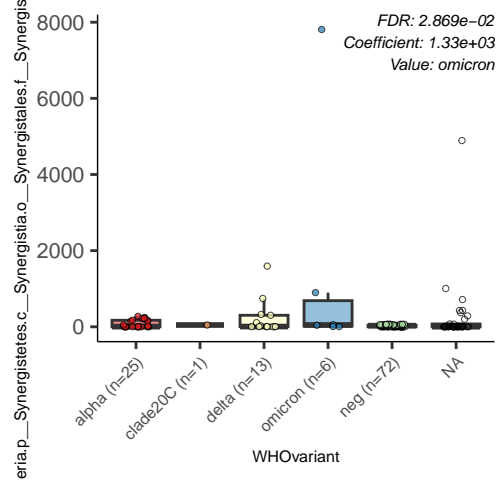


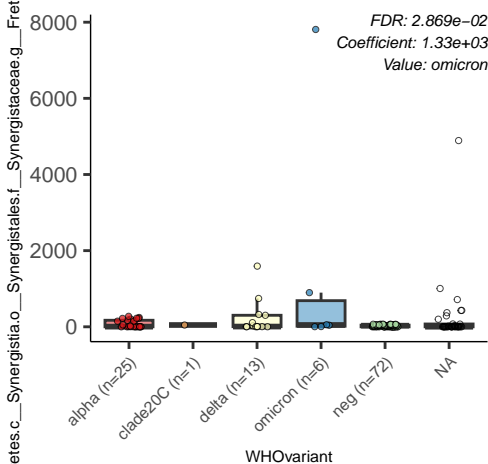


proidetes.c_Bacteroidia.o_Bacteroidales.f_Muribaculaceae.g_M

FDR: 2.859e-02
Coefficient: -3.94e+02
Value: neg

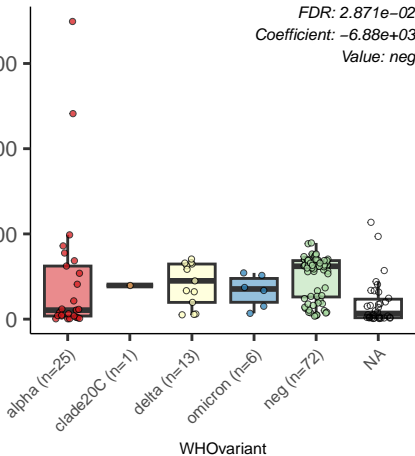






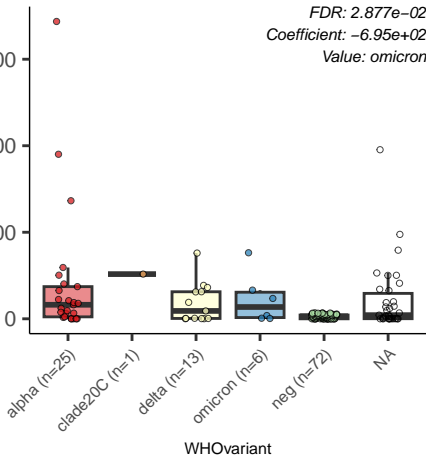
Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales

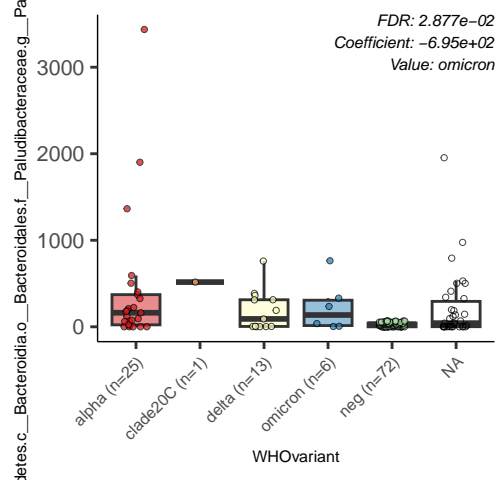
FDR: $2.871e-02$
Coefficient: $-6.88e+03$
Value: neg

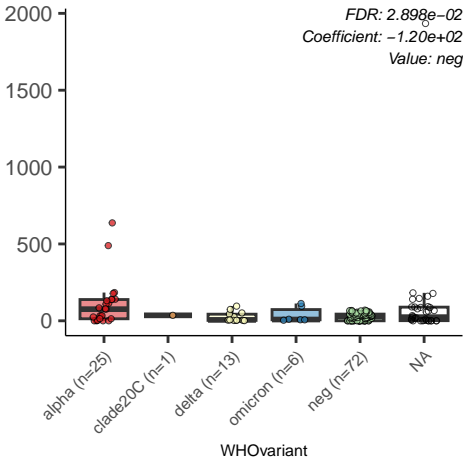


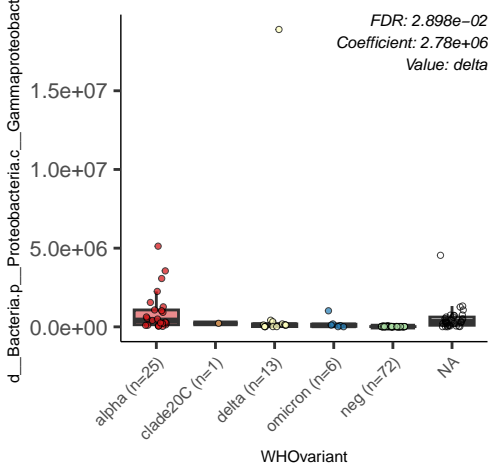
d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_P

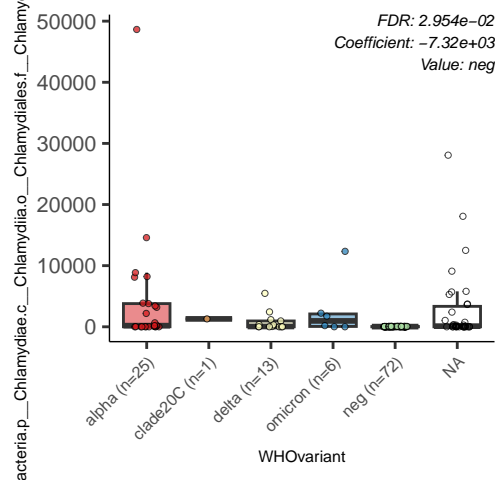
FDR: $2.877\text{e-}02$
Coefficient: $-6.95\text{e}+02$
Value: omicron



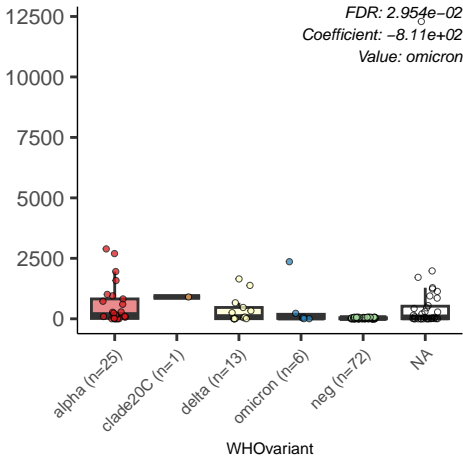


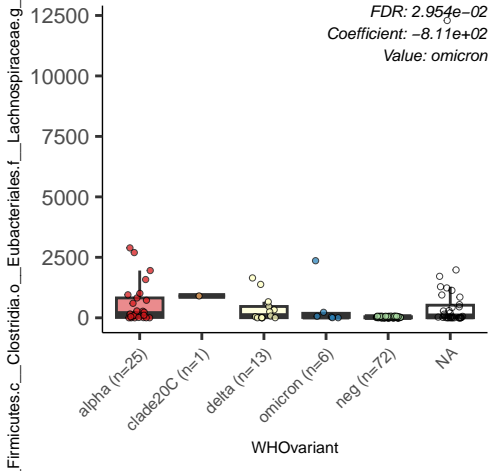


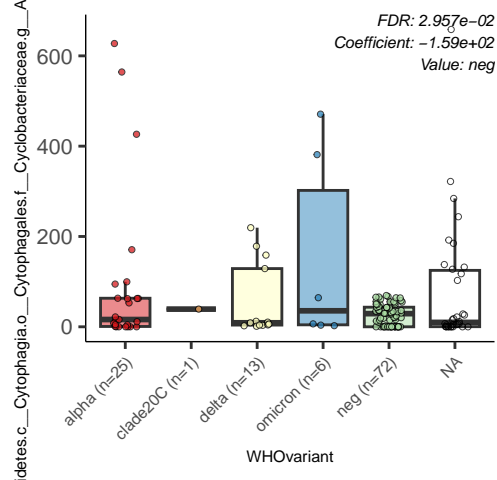


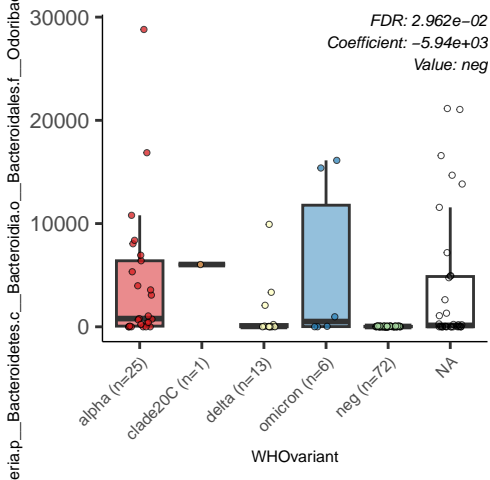


Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

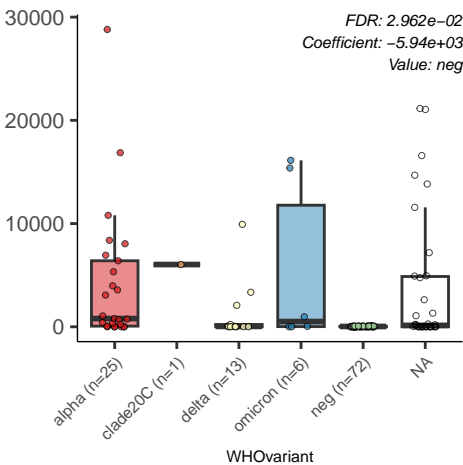


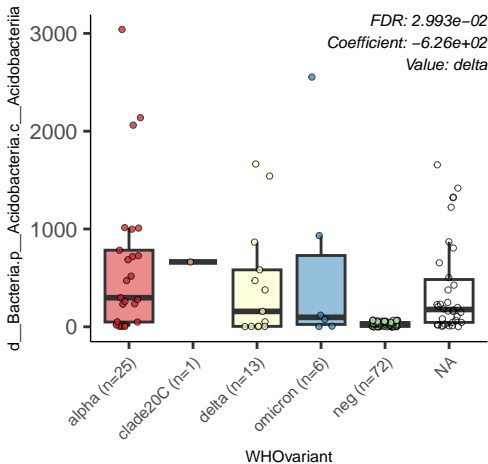






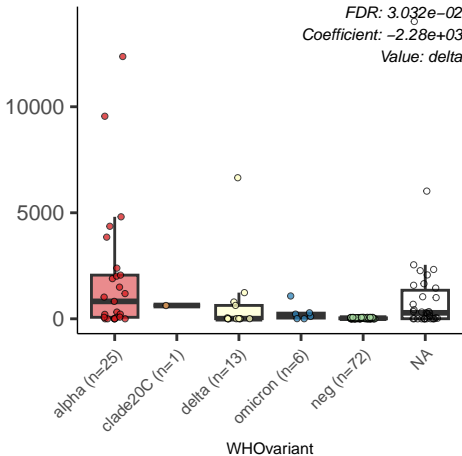
oidetes.c__Bacteroidia.o__Bacteroidales.f__Odoribacteraceae.g__C





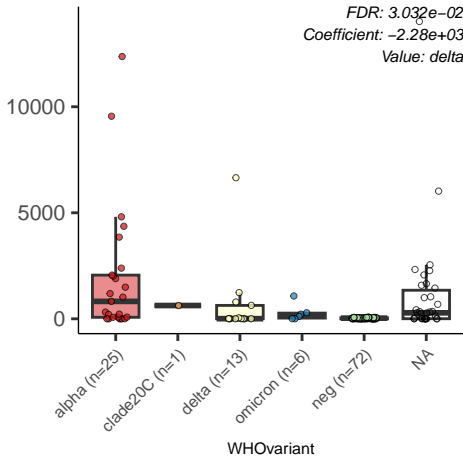
eria.p_Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_We

FDR: $3.032e-02$
Coefficient: $-2.28e+03$
Value: delta



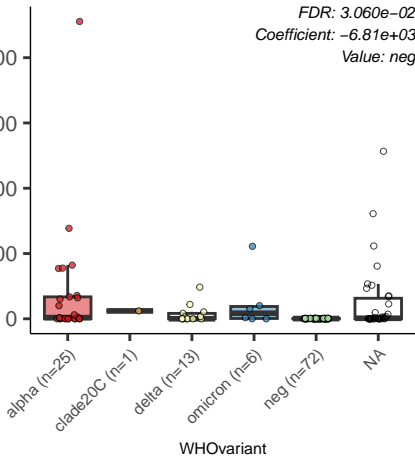
eroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae

FDR: $3.032e-02$
Coefficient: $-2.28e+03$
Value: delta



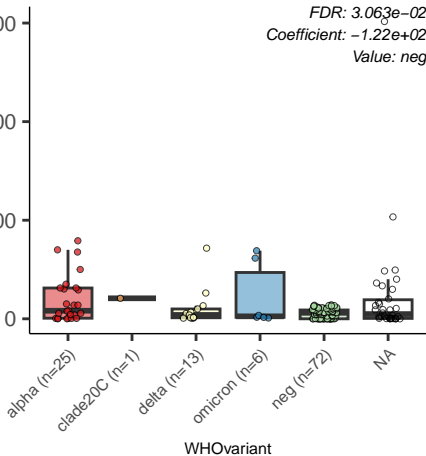
Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Chlamydiaceae.g

FDR: $3.060e-02$
Coefficient: $-6.81e+03$
Value: neg

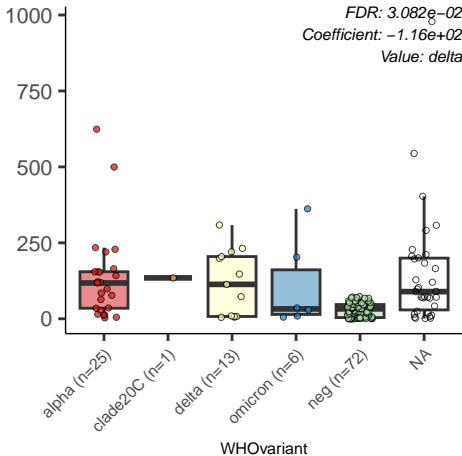


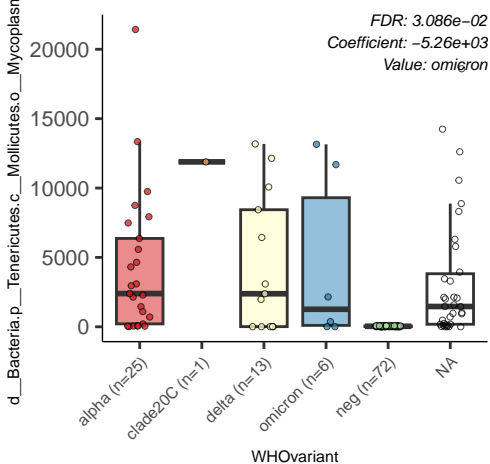
u_Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Amoebobophila

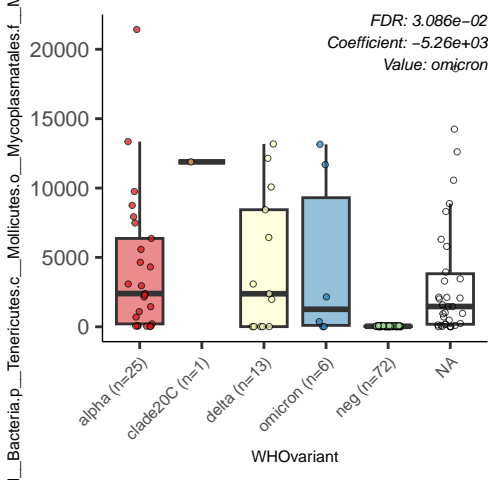
FDR: $3.063e-02$
Coefficient: $-1.22e+02$
Value: neg

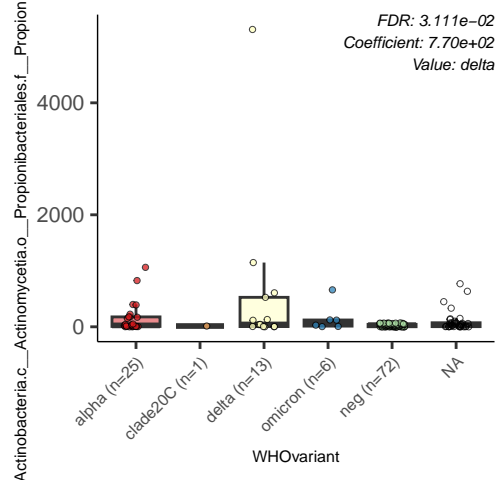


FDR: $3.082e-02$
Coefficient: $-1.16e+02$
Value: delta









FDR: $3.111\text{e-}02$
Coefficient: $7.70\text{e+}02$
Value: delta

4000

2000

0

alpha (n=25)

clade20C (n=1)

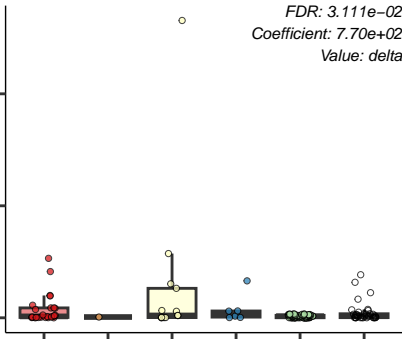
delta (n=13)

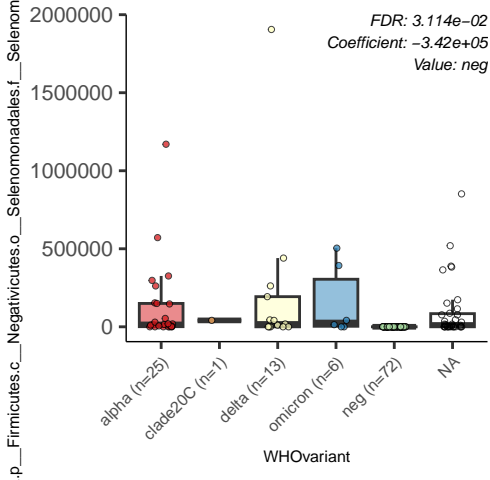
omicron (n=6)

neg (n=72)

NA

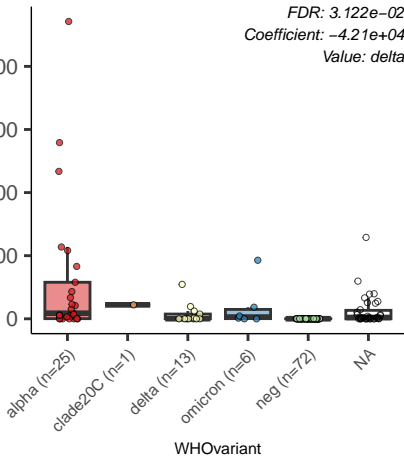
WHOvariant

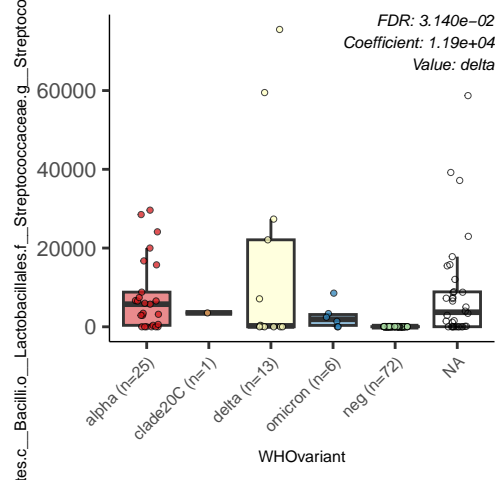




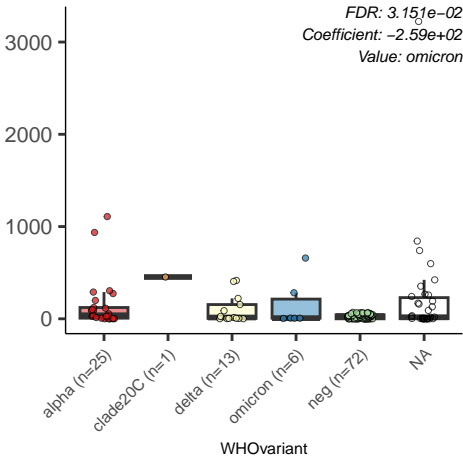
ria.c_Fusobacteriia.o_Fusobacteriales.f_Leptotrichiaceae.g_Le

FDR: 3.122e-02
Coefficient: -4.21e+04
Value: delta



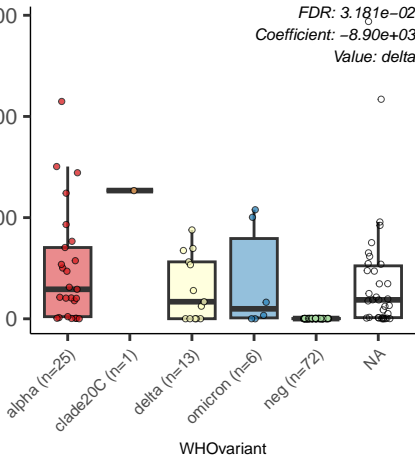


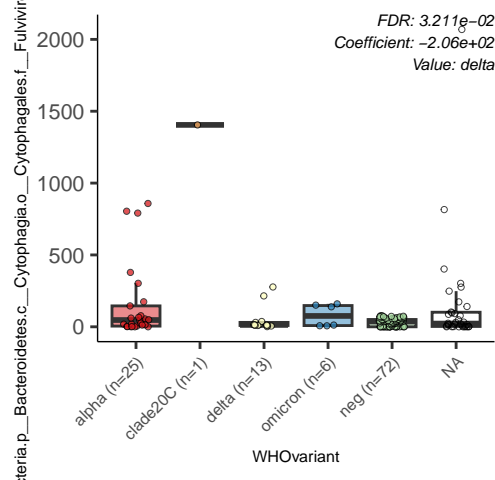
cutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Lachnospiraceae

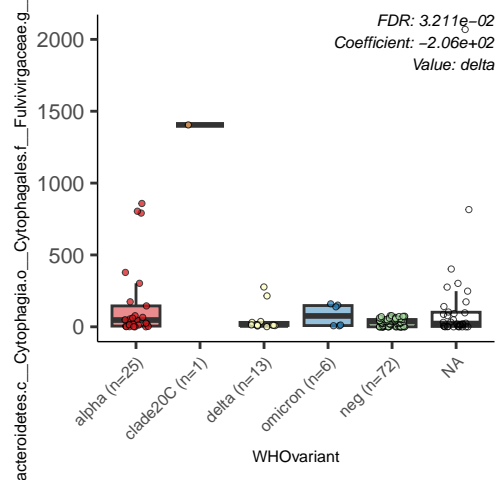


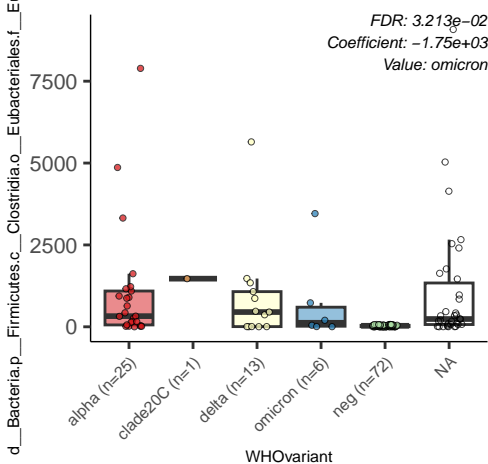
d_Bacteria.p__Tenericutes

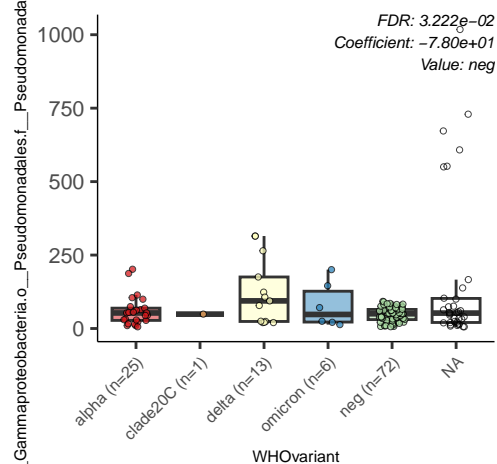
FDR: $3.181e-02$
Coefficient: $-8.90e+03$
Value: delta



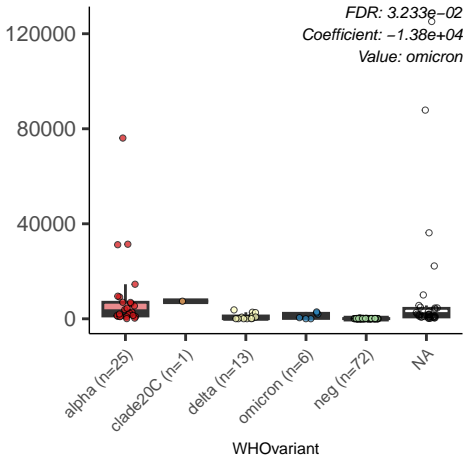




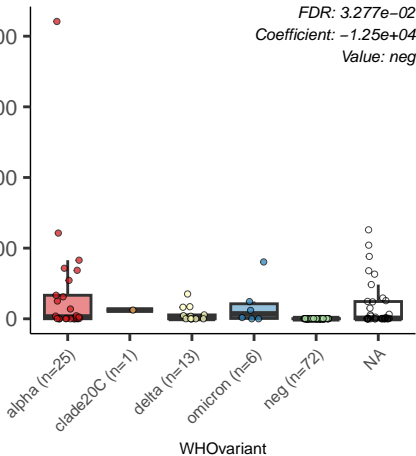


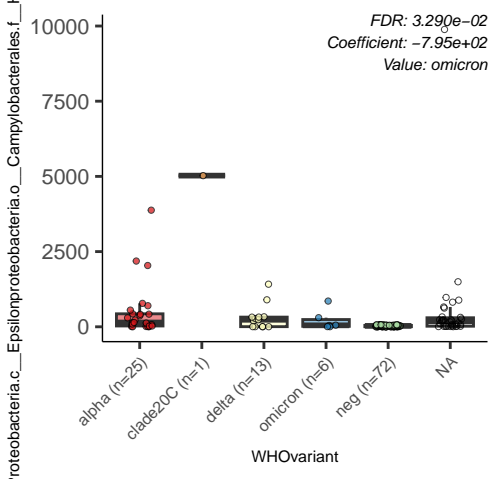


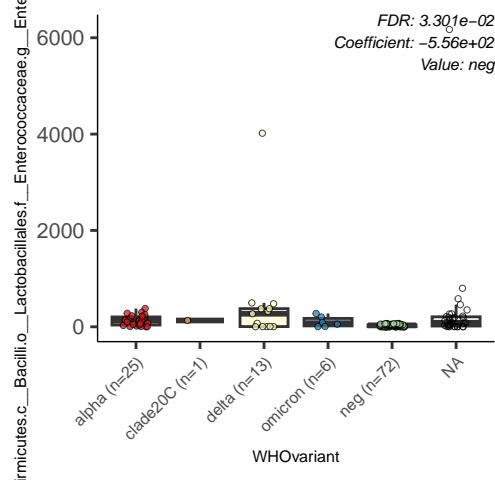
acteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales

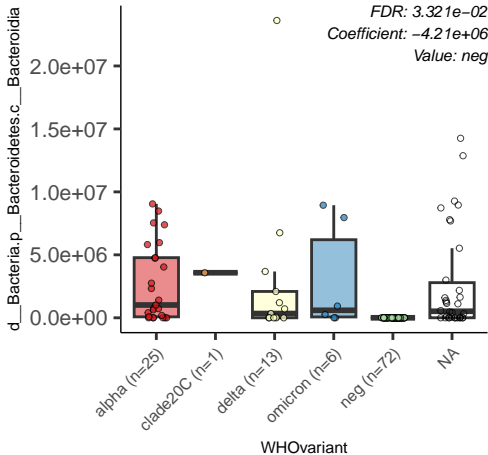


ites.c__Negativicutes.o__Selenomonadales.f__Selenomonadaceae



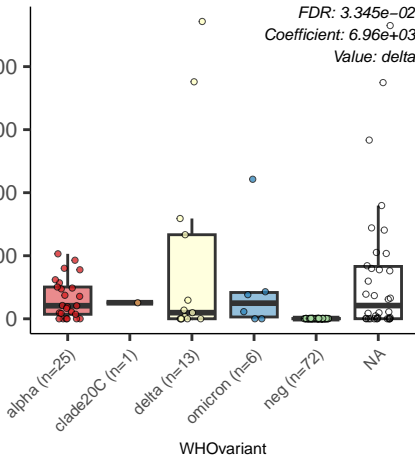




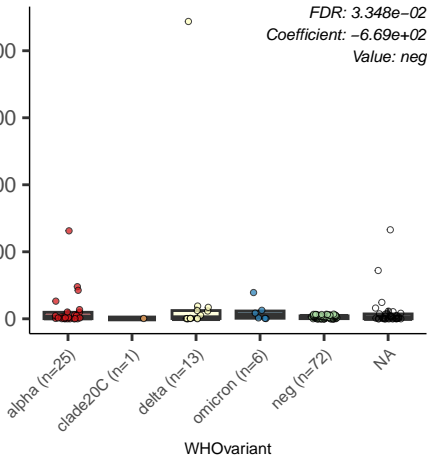


Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str

FDR: 3.345e-02
Coefficient: 6.96e+03
Value: delta

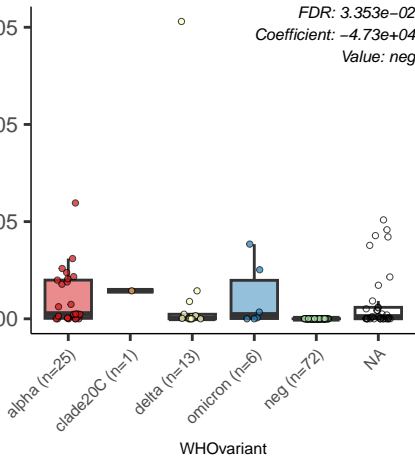


.c_Actinomycetia.o_Pseudonocardiales.f_Pseudonocardaceae

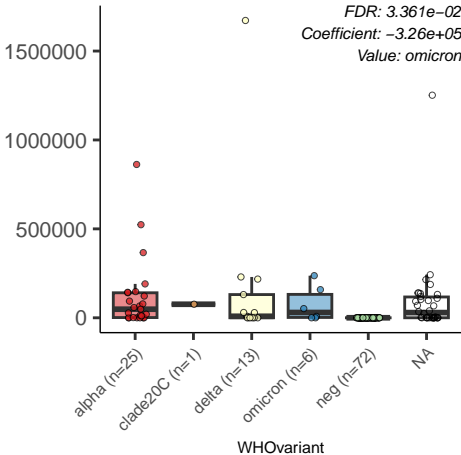


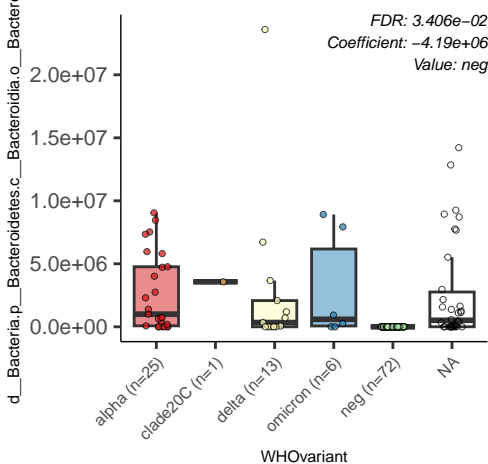
_Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.

FDR: $3.353e-02$
Coefficient: $-4.73e+04$
Value: neg

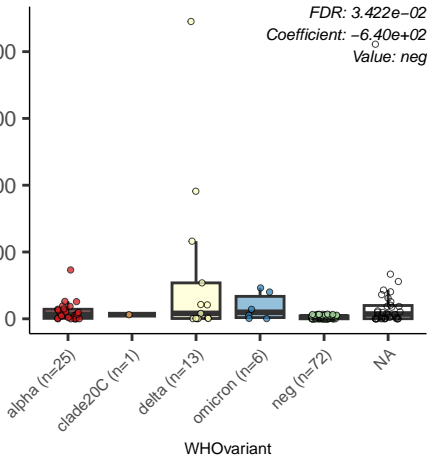


FDR: $3.361e-02$
Coefficient: $-3.26e+05$
Value: omicron

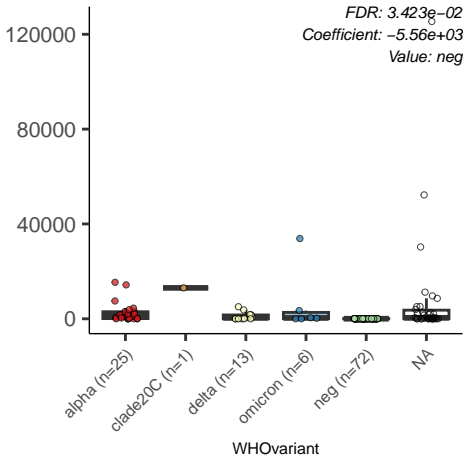


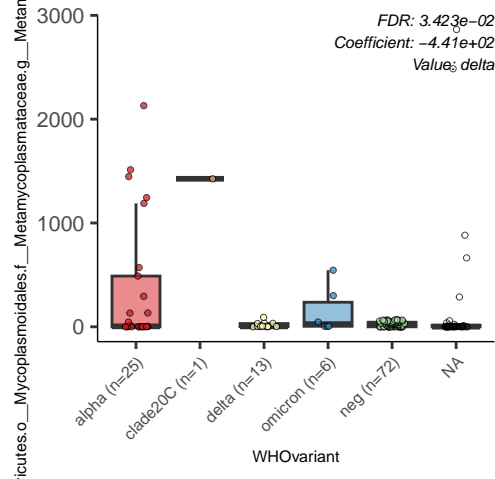


icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus



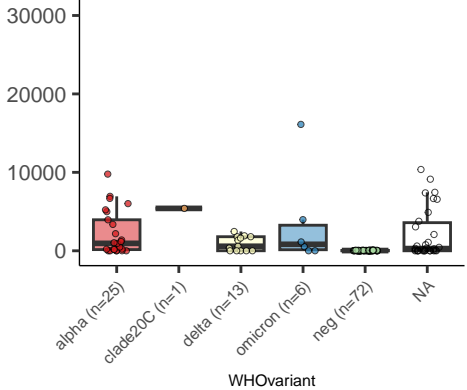
eria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Tannerell





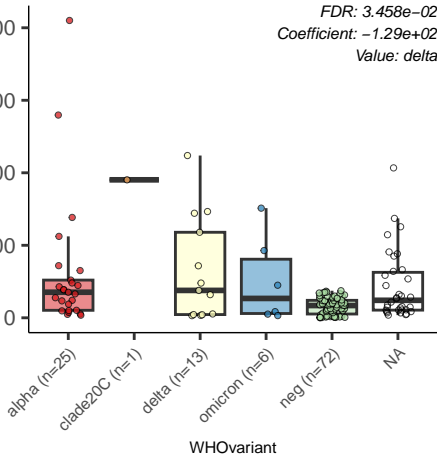
bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g

FDR: $3.451e-02$
Coefficient: $-3.01e+03$
Value: neg

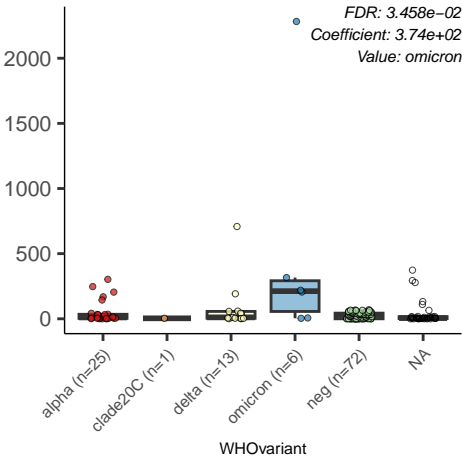


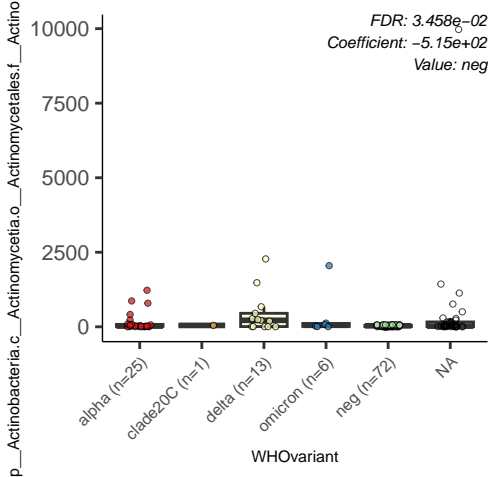
d_Bacteria.p__Cyanobacteria.o__Chroococcales

FDR: $3.458e-02$
Coefficient: $-1.29e+02$
Value: delta

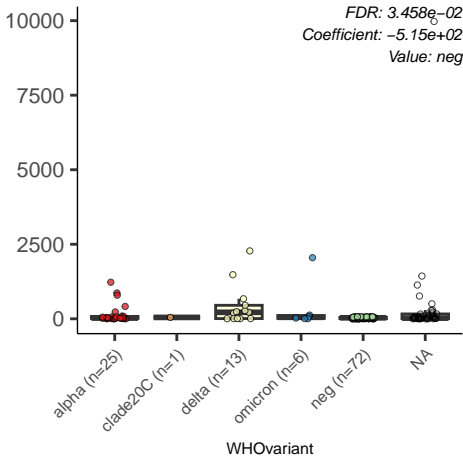


Actinomycetia.o__Propionibacteriales.f__Propionibacteriaceae.g__F



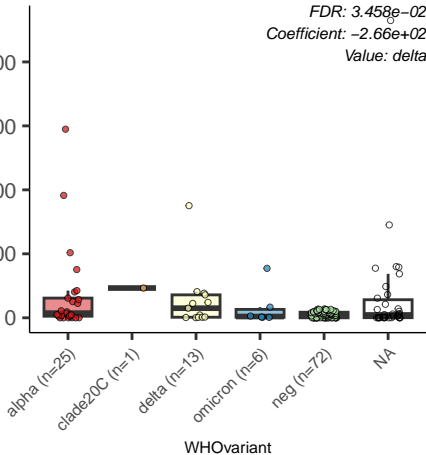


Actinomyces



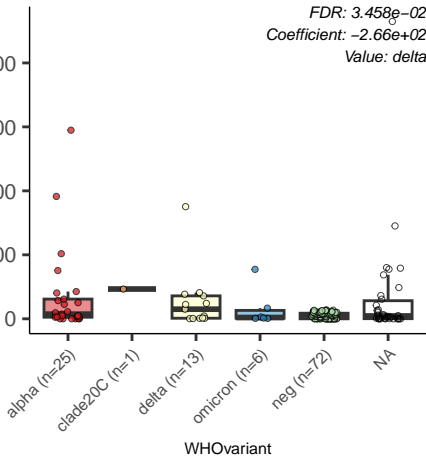
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Eubacteri

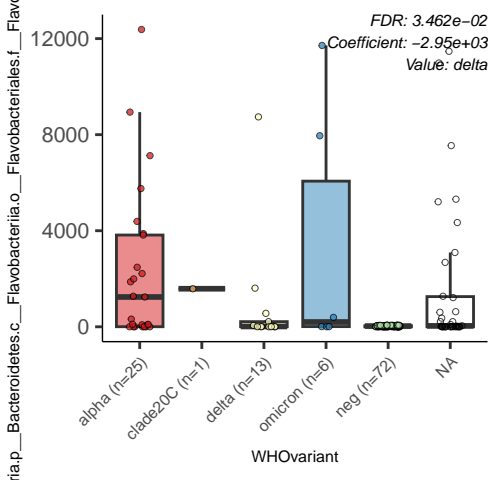
FDR: 3.458e-02
Coefficient: -2.66e+02
Value: delta

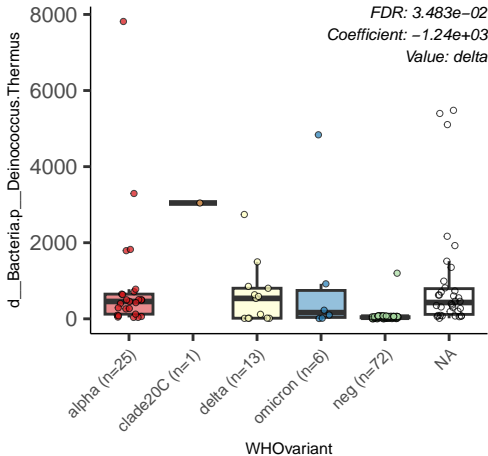


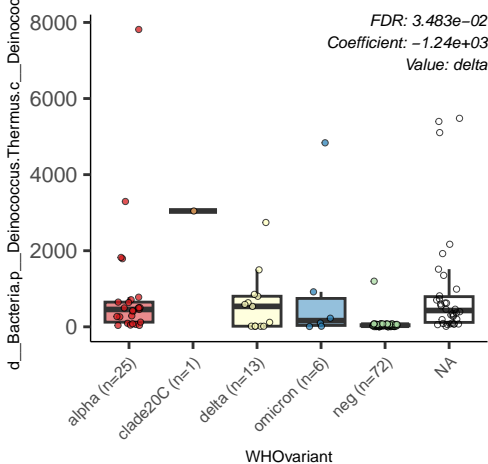
irmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriaceae.g__Alk

$FDR: 3.458e-02$
 $Coefficient: -2.66e+02$
 $Value: delta$



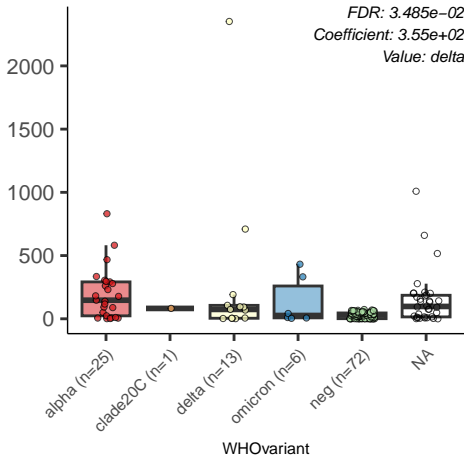






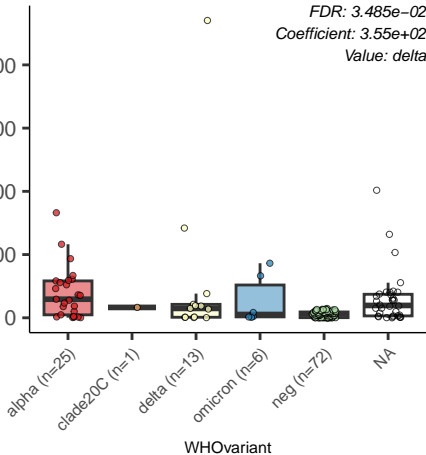
Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales.f__

FDR: $3.485e-02$
Coefficient: $3.55e+02$
Value: delta

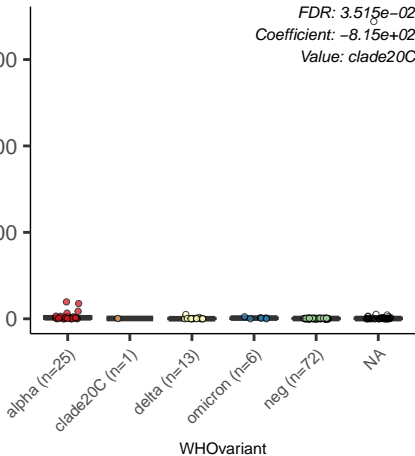


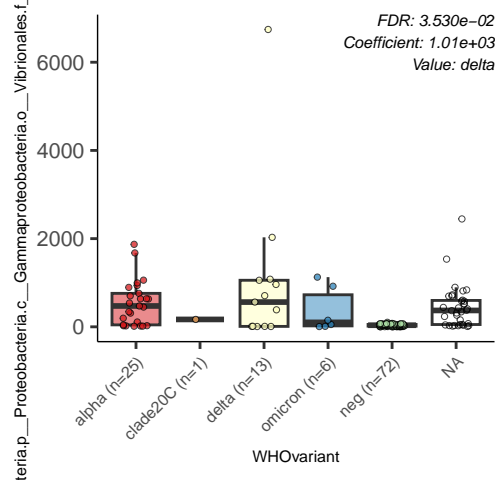
eria.c__Gammaproteobacteria.o__Enterobacterales.f__Morganellac

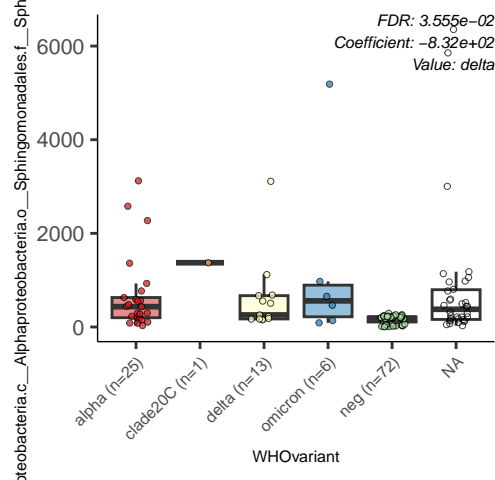
FDR: 3.485e-02
Coefficient: 3.55e+02
Value: delta

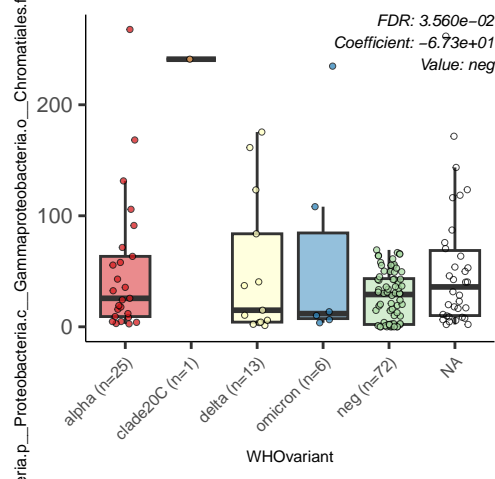


FDR: $3.515e-02$
 Coefficient: $-8.15e+02$
 Value: clade20C



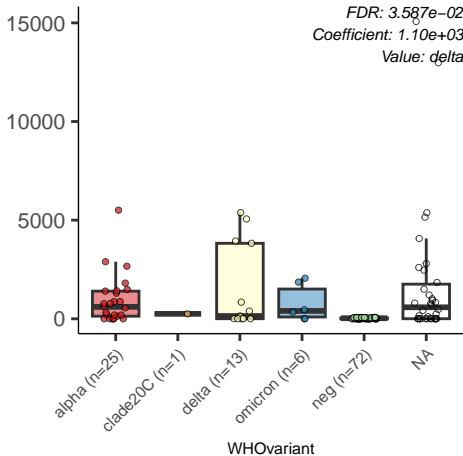




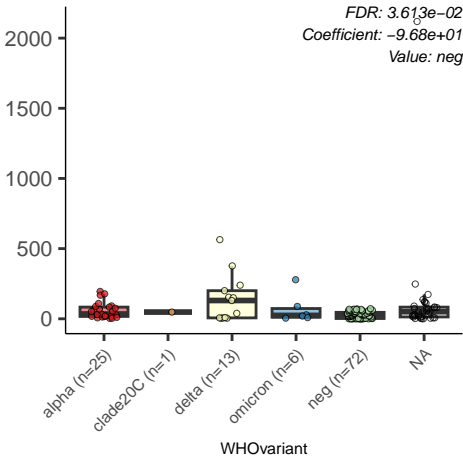


Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__St

FDR: 3.587e-02
Coefficient: 1.10e+03
Value: delta

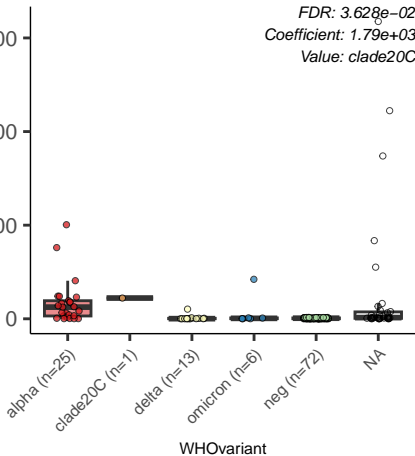


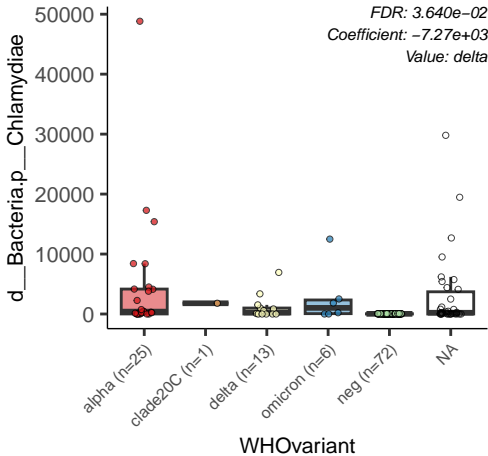
acteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae

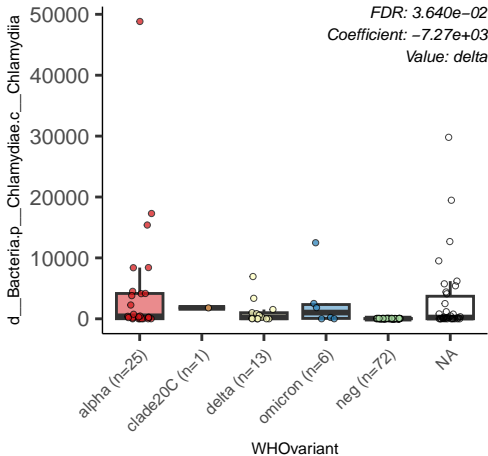


.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__C

FDR: $3.628e-02$
Coefficient: $1.79e+03$
Value: clade20C

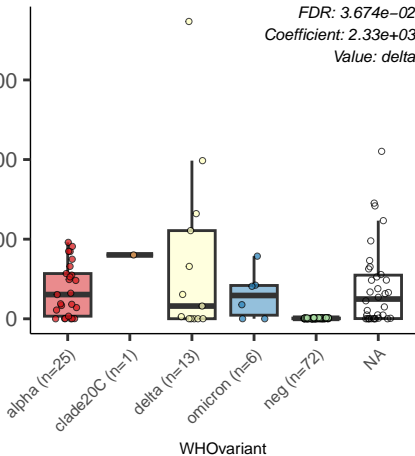




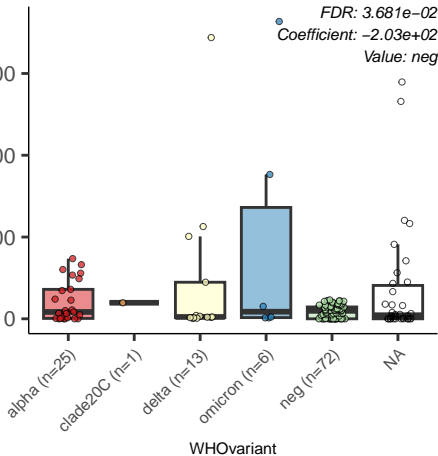


nicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

FDR: 3.674e-02
Coefficient: 2.33e+03
Value: delta

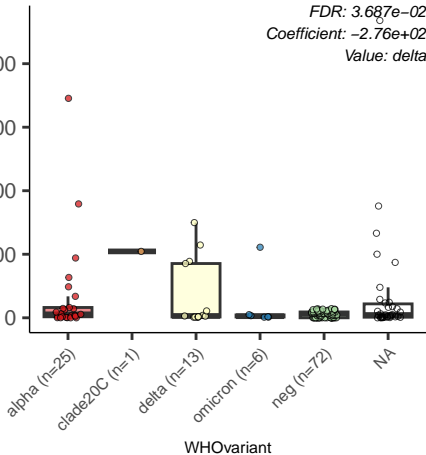


eroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae.g__B



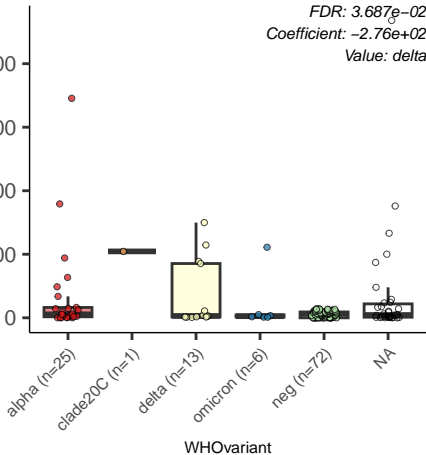
.p__Verrucomicrobia.c__Opitutae.o__Puniceicoccales.f__Puniceico

FDR: $3.687e-02$
Coefficient: $-2.76e+02$
Value: delta



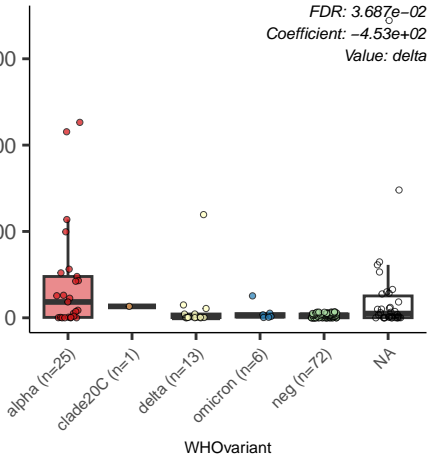
obia.c__Opitutae.o__Puniceicoccales.f__Puniceicoccaceae.g__Corr

FDR: $3.687e-02$
Coefficient: $-2.76e+02$
Value: delta



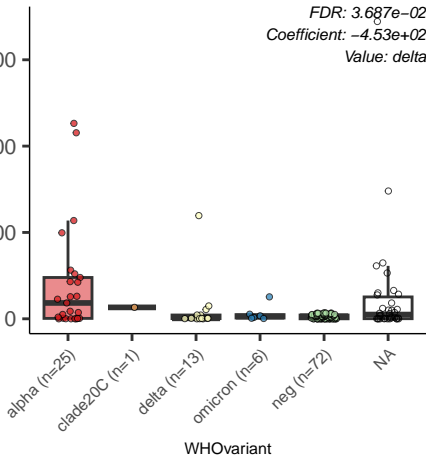
Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Flavobac

FDR: $3.687e-02$
Coefficient: $-4.53e+02$
Value: delta



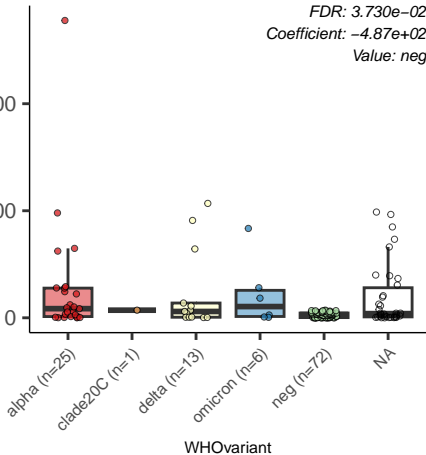
c_Flavobacteriia.o_Flavobacteriales.f_Flavobacteriaceae.g_Am

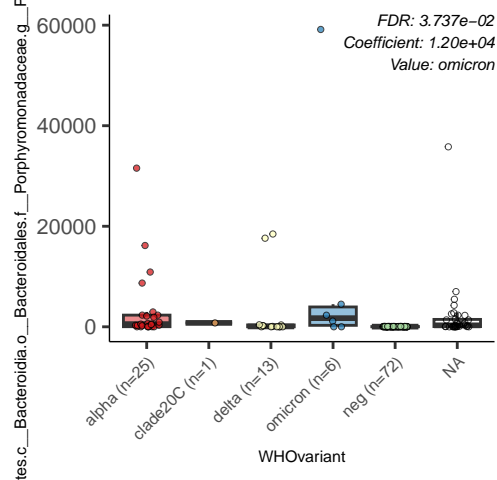
FDR: $3.687e-02$
Coefficient: $-4.53e+02$
Value: delta



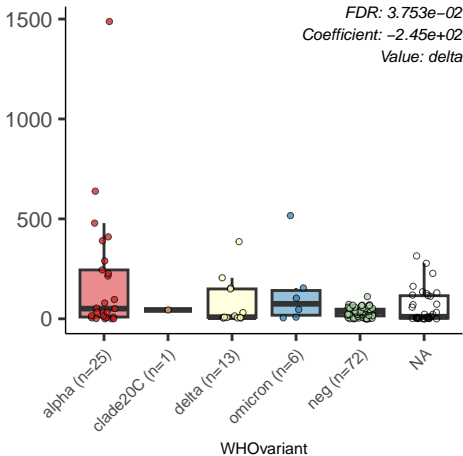
Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__

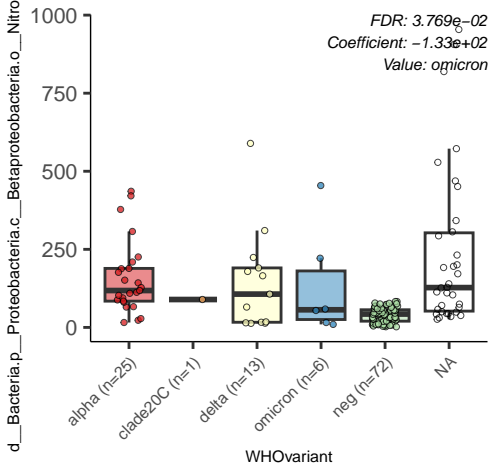
FDR: $3.730e-02$
Coefficient: $-4.87e+02$
Value: neg

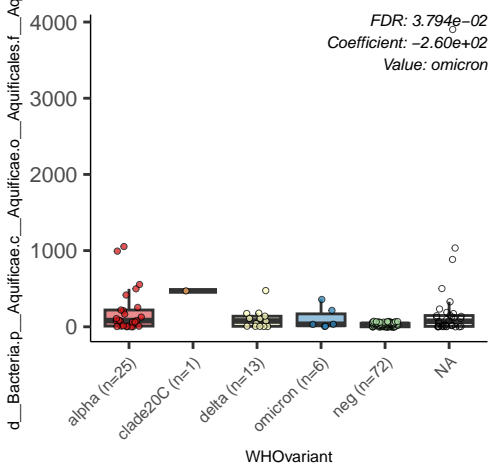


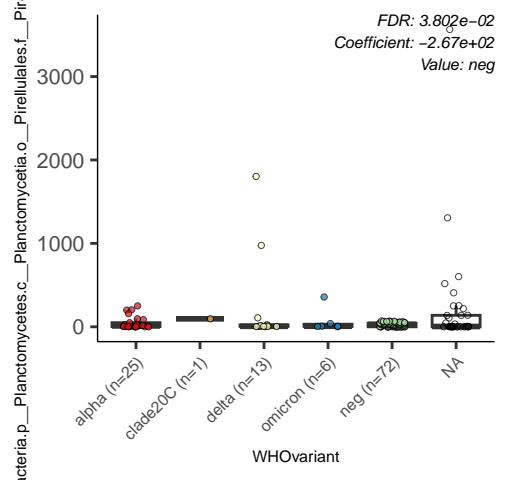


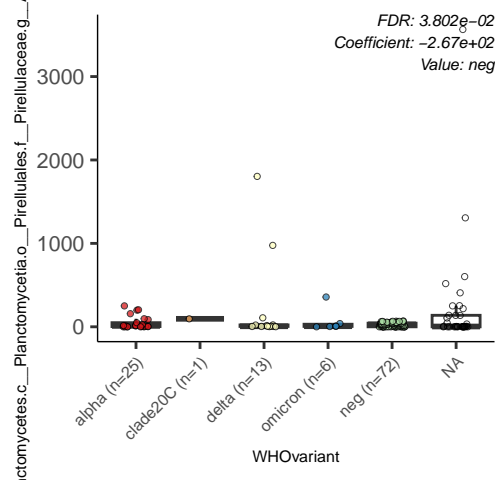
bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae











eroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g__P

FDR: 3.813e-02
Coefficient: 4.73e+05
Value: clade20C

1e+06

5e+05

0e+00

alpha (n=25)

clade20C (n=1)

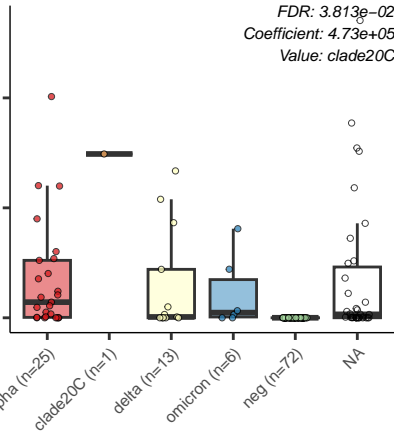
delta (n=13)

omicron (n=6)

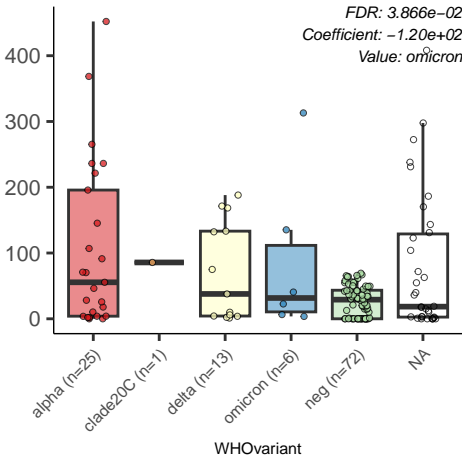
neg (n=72)

NA

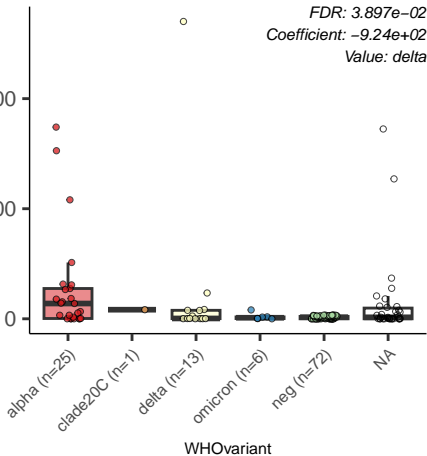
WHOvariant

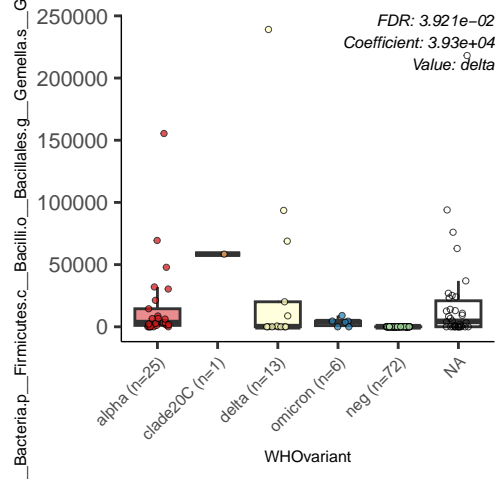


Firmicutes.c__Clostridia.o__Thermoanaerobacterales.f__Thermo



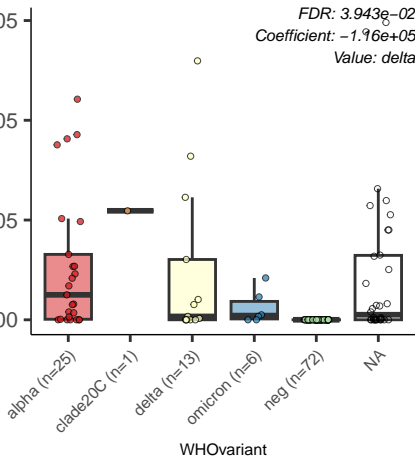
FDR: $3.897e-02$
Coefficient: $-9.24e+02$
Value: delta

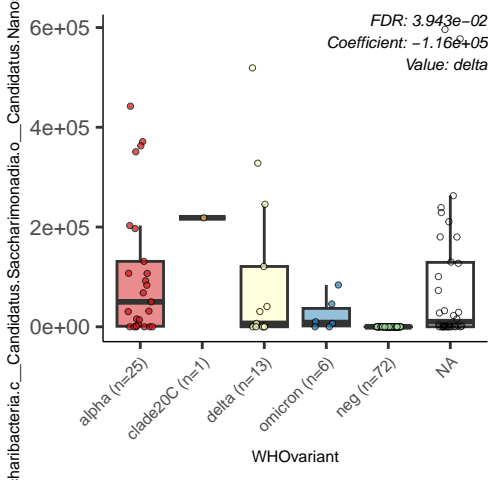


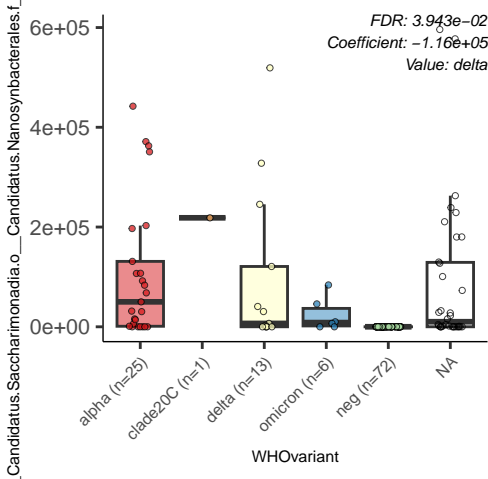


Candidatus.Saccharibacteria.c__Candidatus.Saccharimonadia.o

FDR: $3.943e-02$
Coefficient: $-1.16e+05$
Value: delta

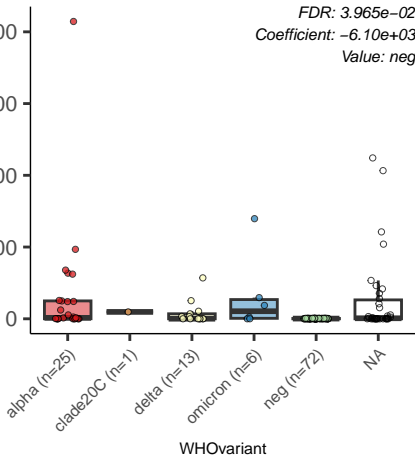






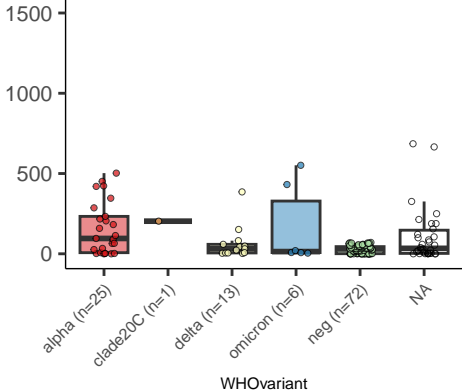
a.p__Cyanobacteria.o__Nostocales.f__Calotrichaceae.g__Calothrix

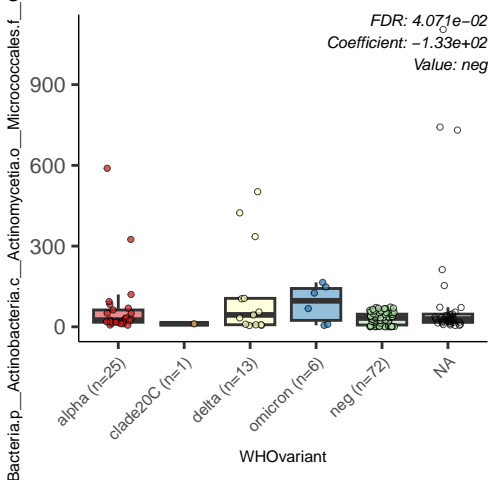
FDR: $3.965e-02$
Coefficient: $-6.10e+03$
Value: neg



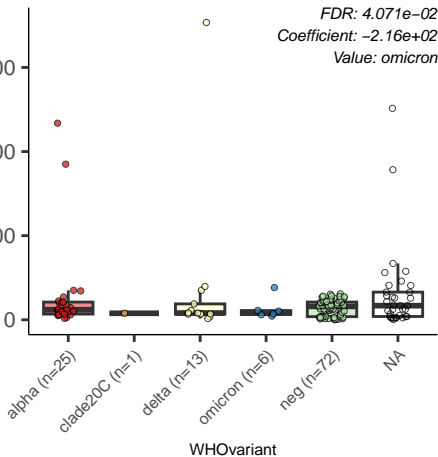
d_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales.f_

FDR: $4.036e-02$
Coefficient: $-1.50e+02$
Value: delta

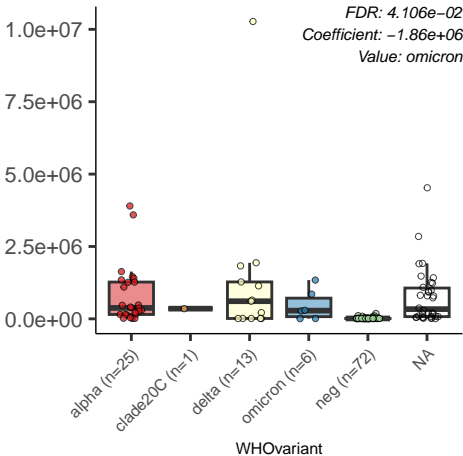




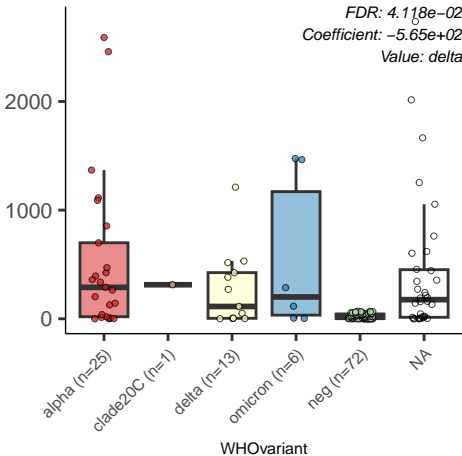
ctinobacteria.c__Actinomycetia.o__Micrococcales.f__Micrococcace

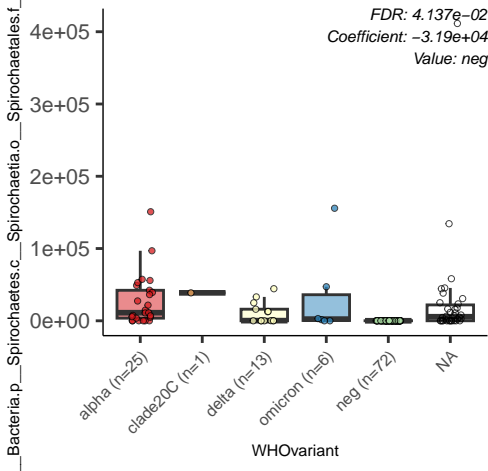


d_Bacteria.p_Actinobacteria



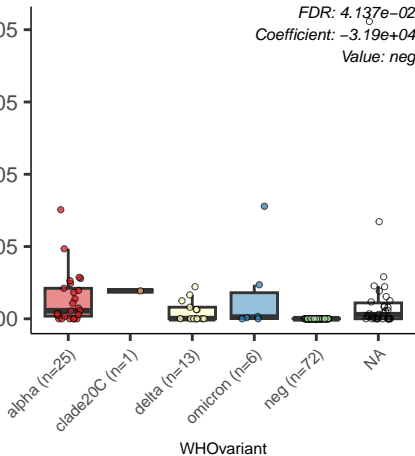
d_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales.f_





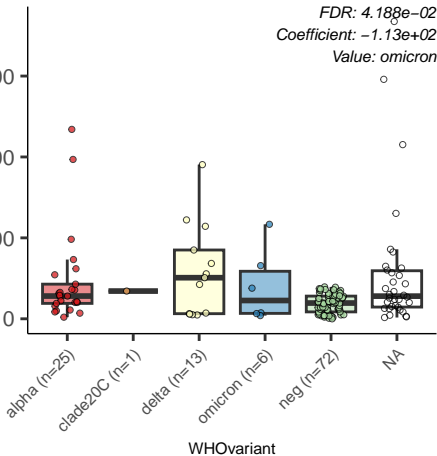
eria.p__Spirochaetes.c__Spirochaetia.o__Spirochaetales.f__Trepon

FDR: $4.137e-02$
Coefficient: $-3.19e+04$
Value: neg



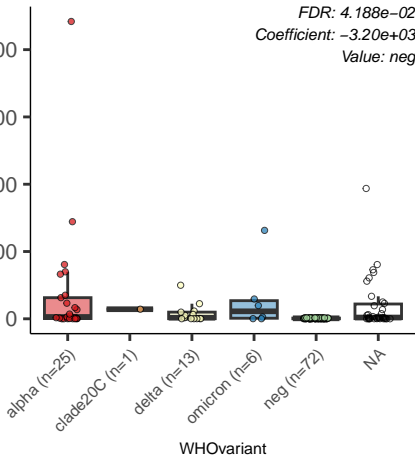
d__Bacteria.p__Armatimonadetes

FDR: $4.188e-02$
Coefficient: $-1.13e+02$
Value: omicron

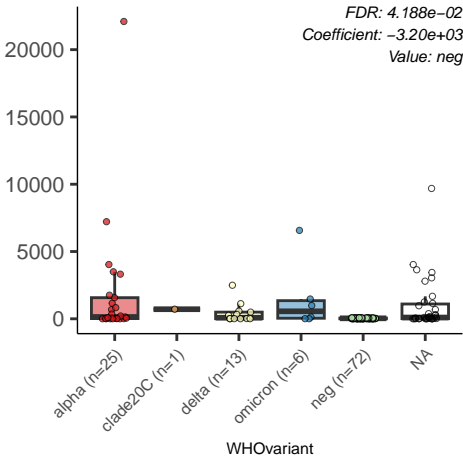


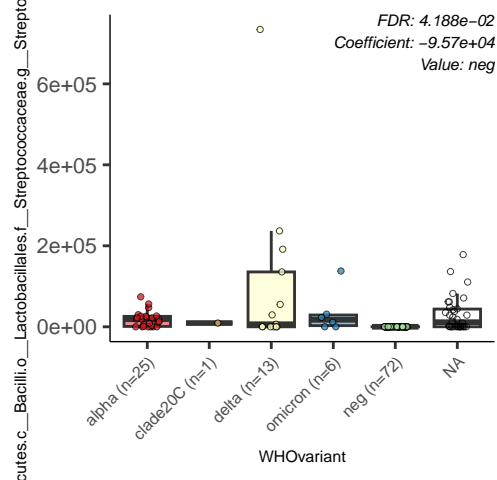
d__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae

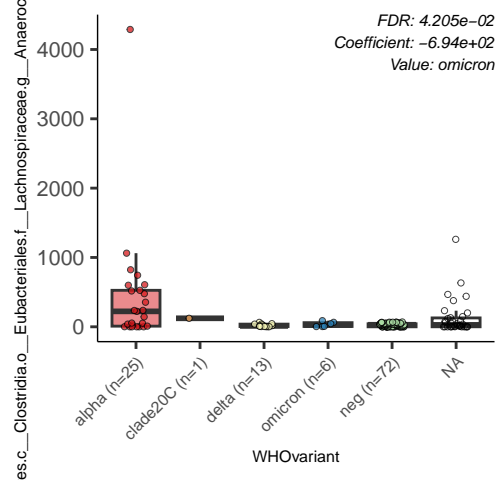
FDR: $4.188e-02$
Coefficient: $-3.20e+03$
Value: neg

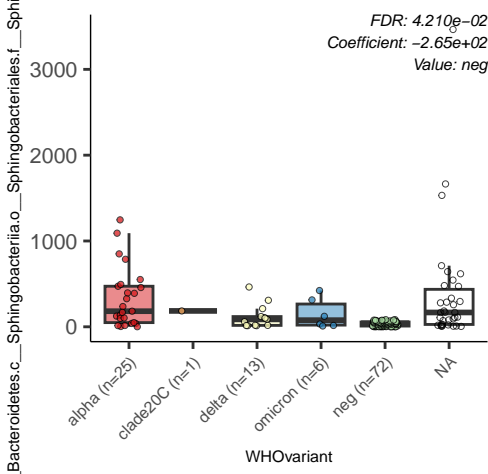


Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae.g__Brochothrix



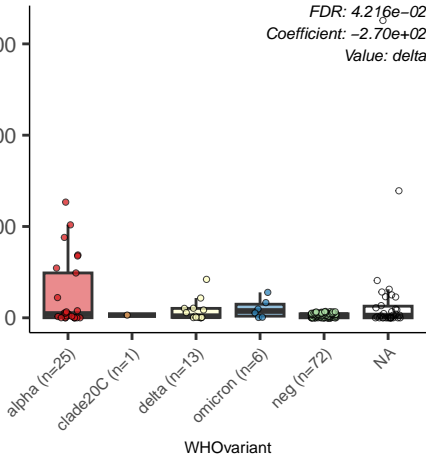




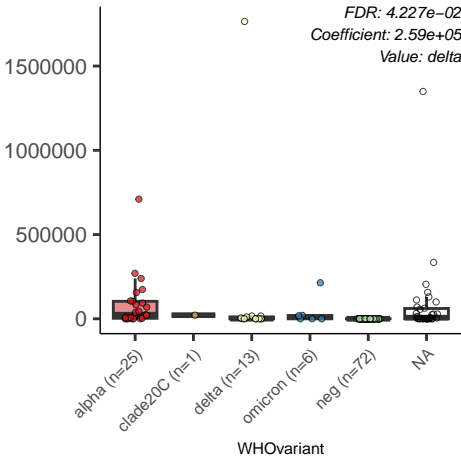


Negativicutes.o__Acidaminococcales.f__Acidaminococcaceae.g

FDR: $4.216e-02$
Coefficient: $-2.70e+02$
Value: delta

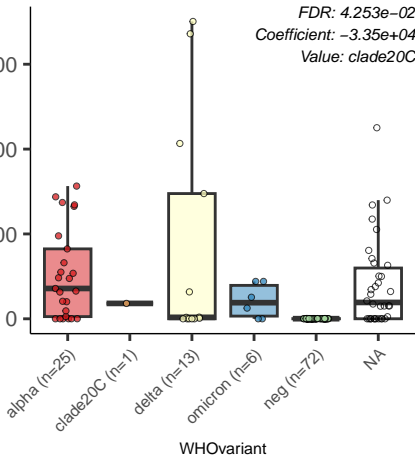


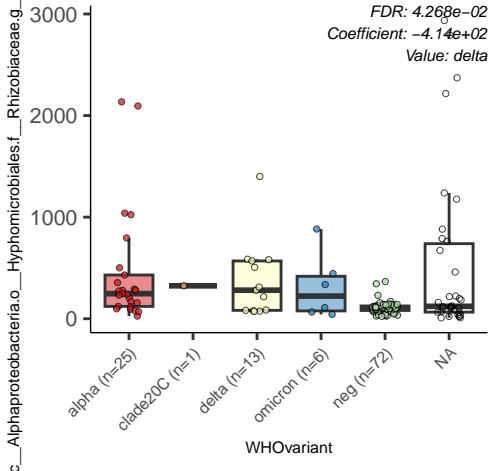
FDR: 4.227e-02
Coefficient: 2.59e+05
Value: delta



tes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

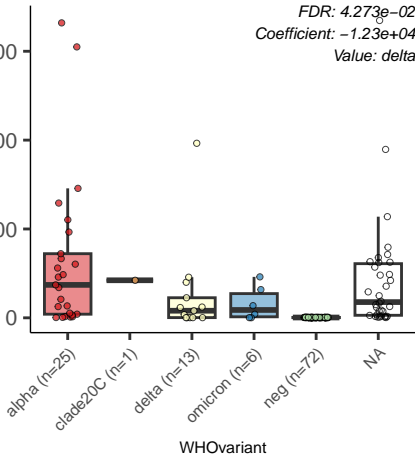
FDR: $4.253e-02$
Coefficient: $-3.35e+04$
Value: clade20C



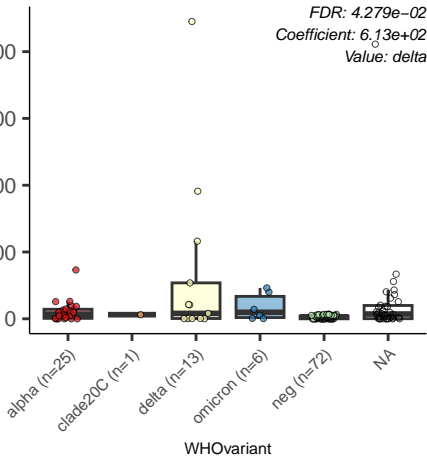


Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales

FDR: $4.273e-02$
Coefficient: $-1.23e+04$
Value: delta

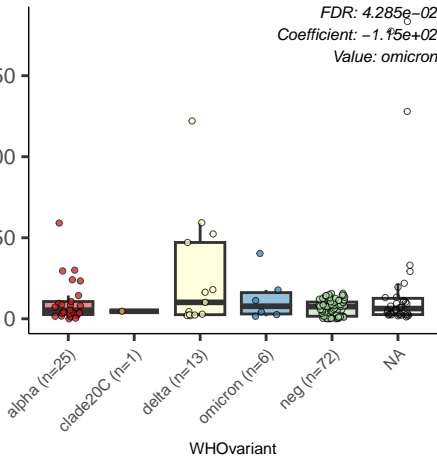


icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus



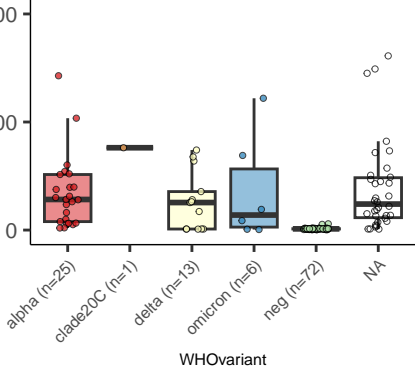
d_Bacteria.p_Actinobacteria.c_Acidimicrobia.o_Acidimicrobia

FDR: $4.285e-02$
Coefficient: $-1.15e+02$
Value: omicron



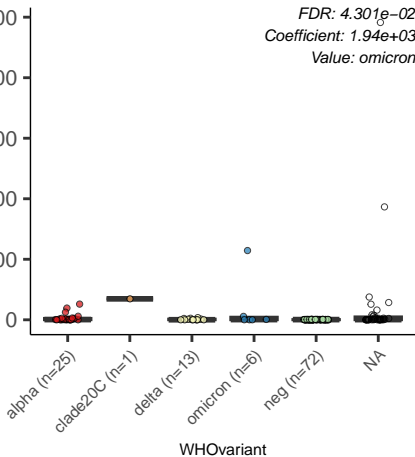
d_Bacteria.p__Cyanobacteria

FDR: $4.293e-02$
Coefficient: $-8.40e+03$
Value: delta

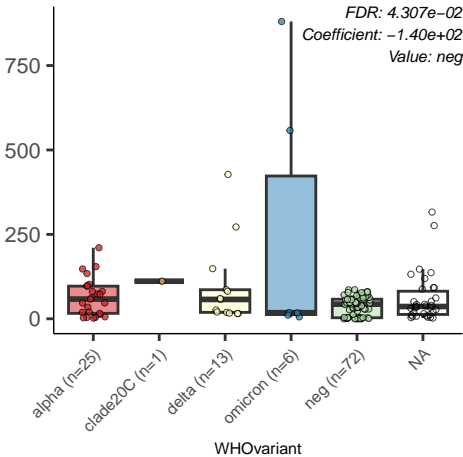


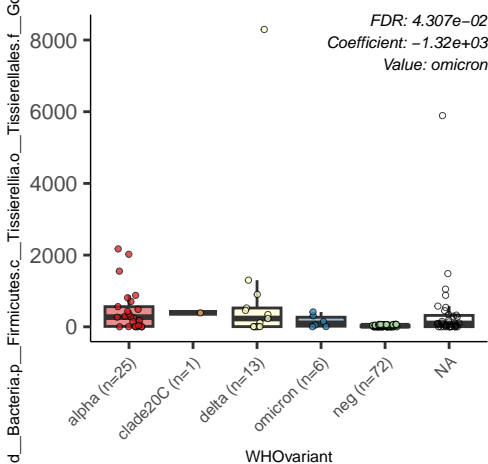
bidetes.c__Bacteroidia.o__Bacteroidales.f__Tannerellaceae.g__Para

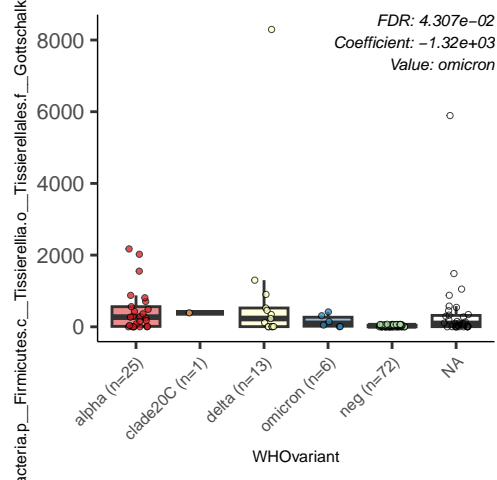
FDR: $4.301e-02$
Coefficient: $1.94e+03$
Value: omicron

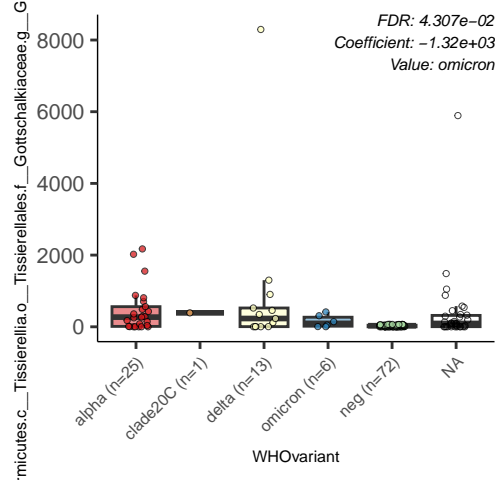


a.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Microb



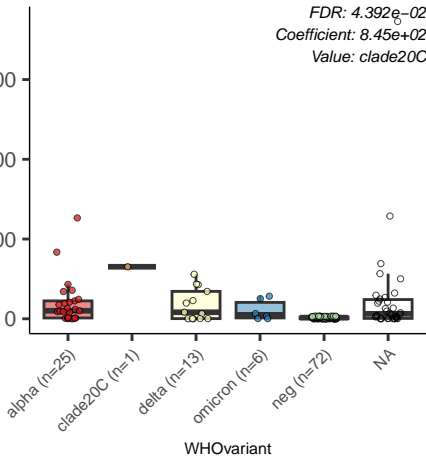




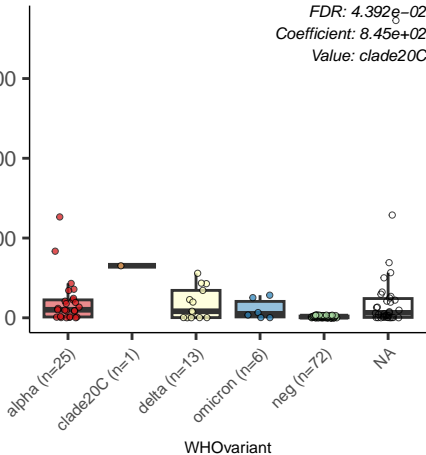


d__Bacteria.p__Tenericutes.c__Mollicutes.o__Acholeplas

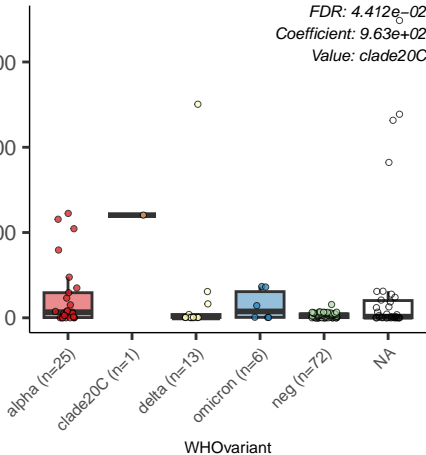
FDR: $4.392e-02$
Coefficient: $8.45e+02$
Value: clade20C

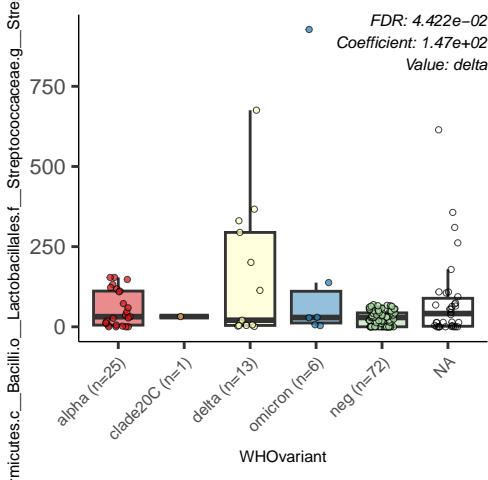


FDR: $4.392e-02$
Coefficient: $8.45e+02$
Value: clade20C



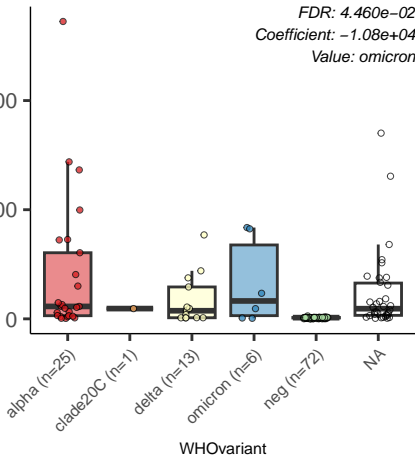
FDR: $4.412e-02$
Coefficient: $9.63e+02$
Value: clade20C

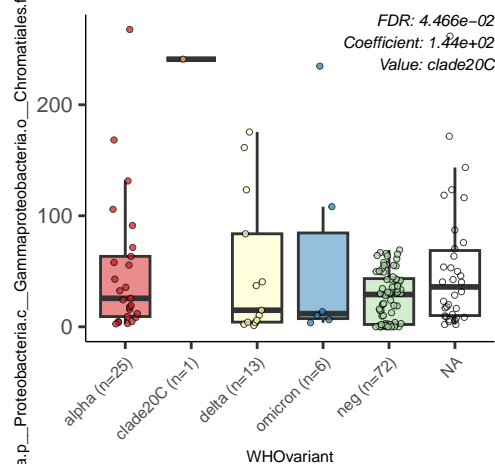


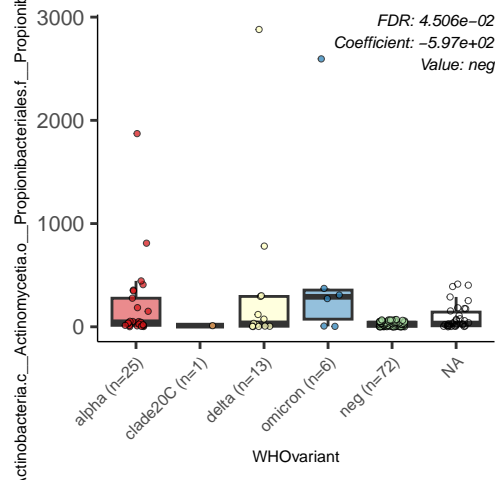


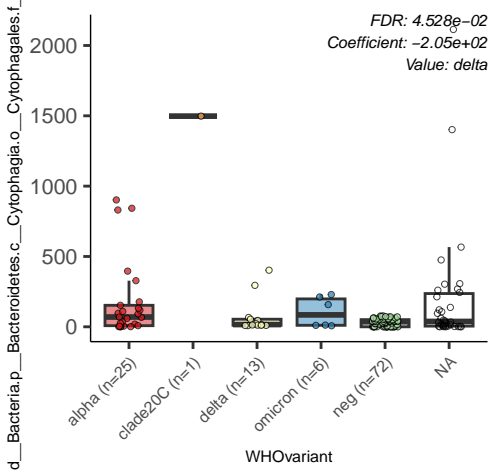
Bacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f

FDR: $4.460e-02$
Coefficient: $-1.08e+04$
Value: omicron

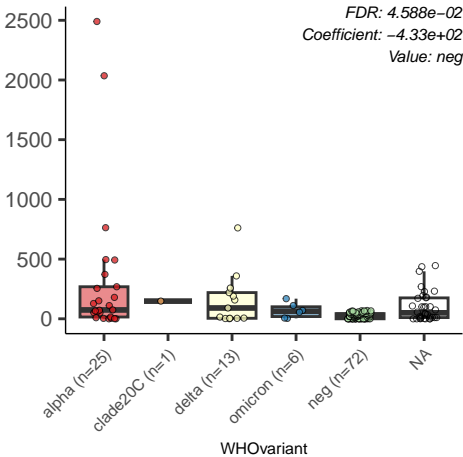


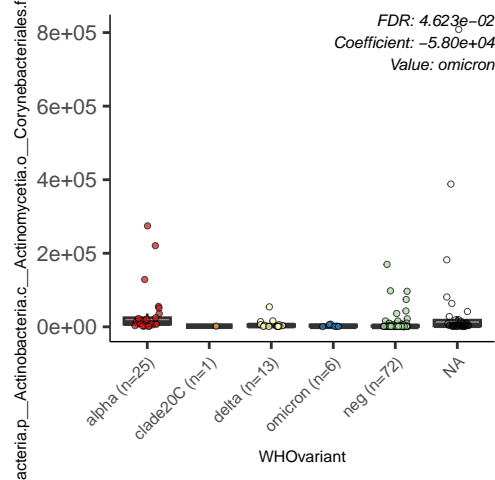


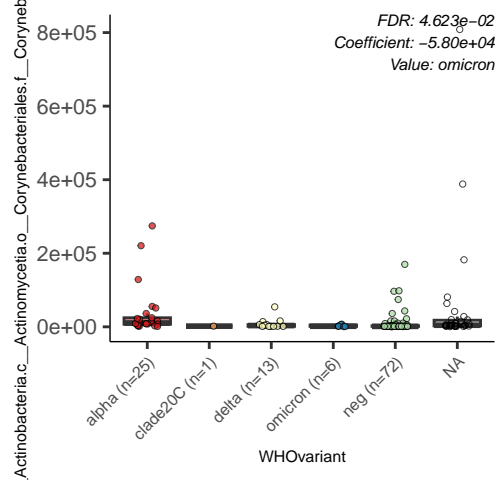


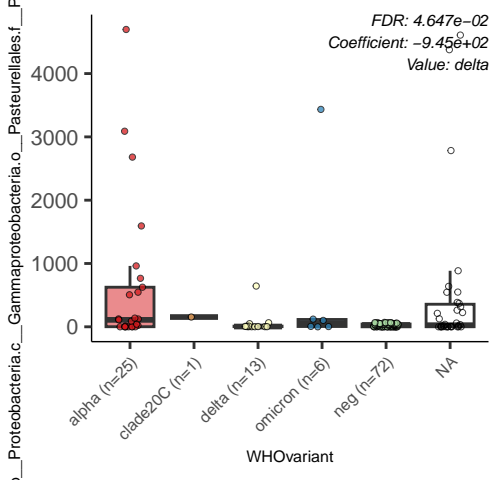


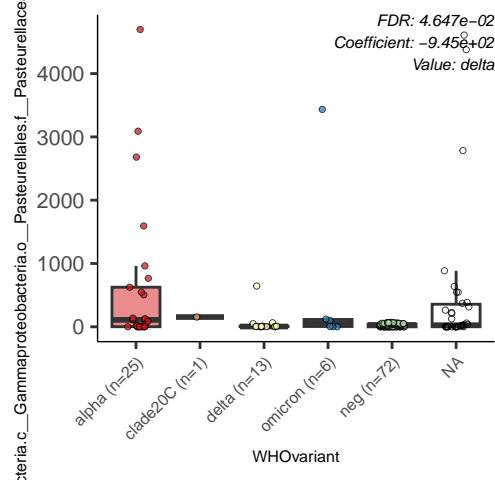
acteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae

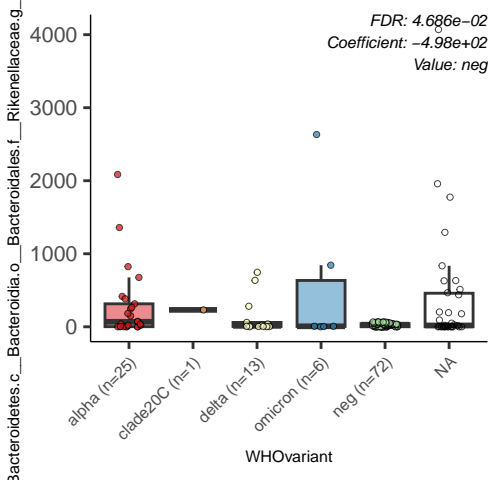




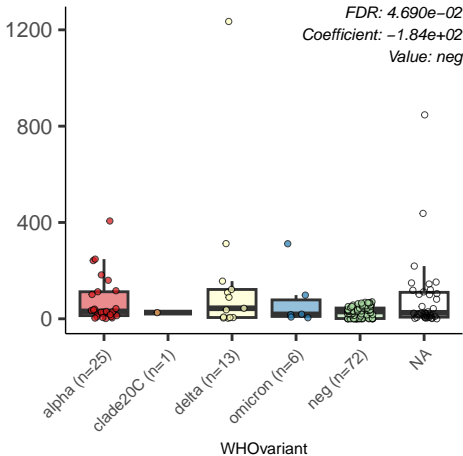








Bacteria.p_Actinobacteria.c_Coriobacteriia.o_Coriobacteriales.f



a.c__Actinomycetia.o__Candidatus.Nanopelagiales.f__Candidatus

FDR: $4.828e-02$
Coefficient: $-2.52e+02$
Value: omicron

1000

500

0

alpha (n=25)

clade20C (n=1)

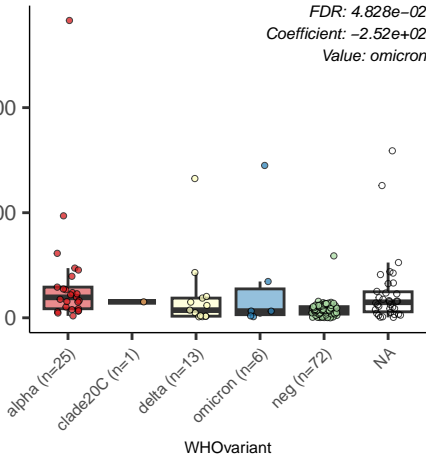
delta (n=13)

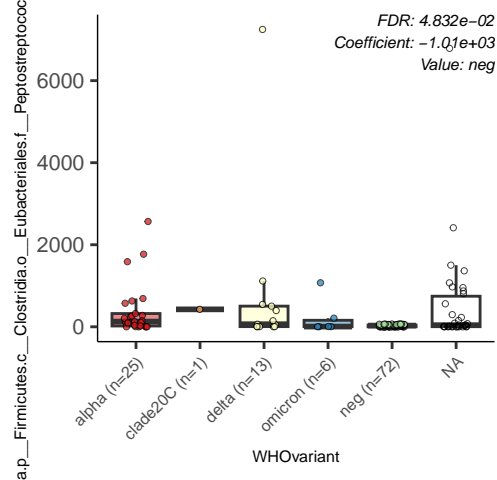
omicron (n=6)

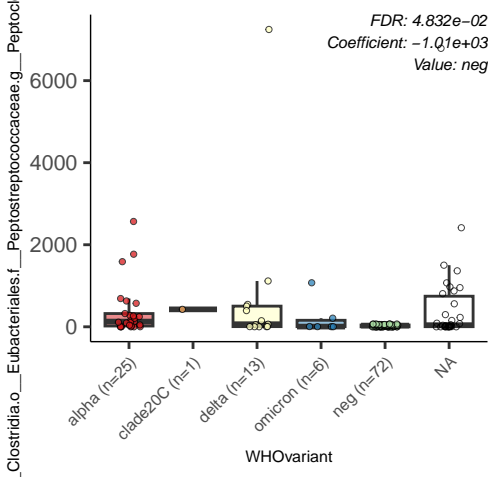
neg (n=72)

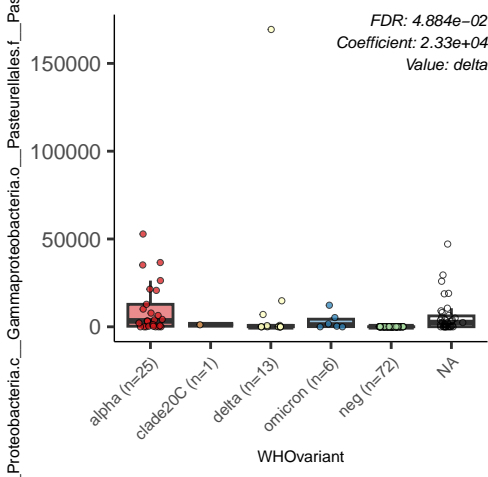
NA

WHOvariant



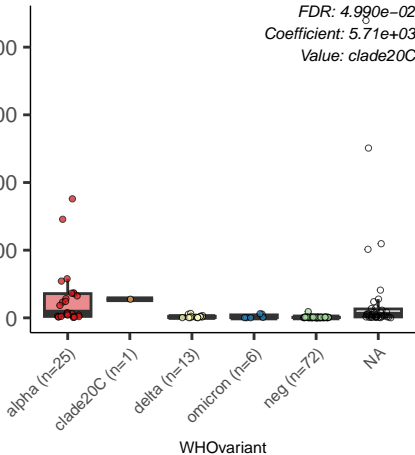


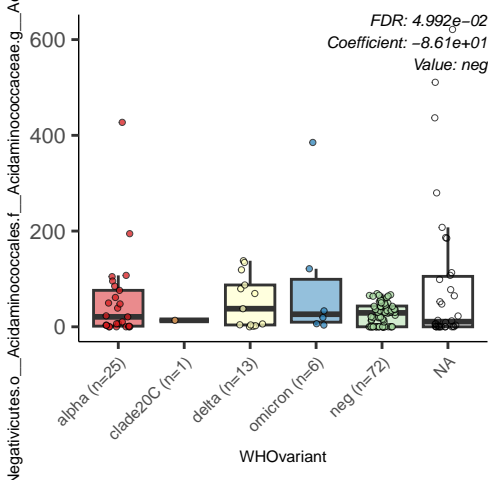


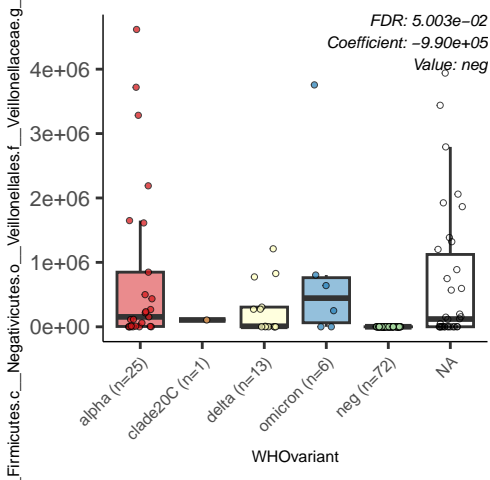


acteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia

FDR: $4.990e-02$
Coefficient: $5.71e+03$
Value: clade20C

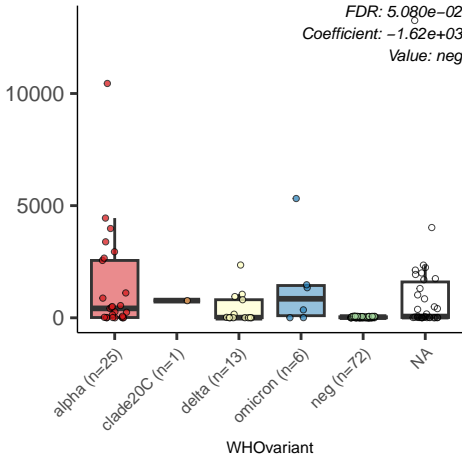






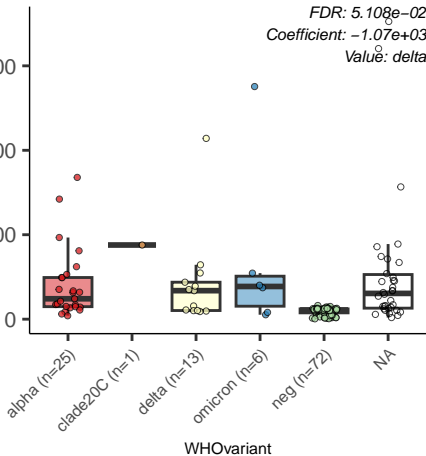
Gamma__Gammaproteobacteria.o__Cardiobacteriales.f__Cardiobacteriaceae

FDR: 5.080e-02
Coefficient: -1.62e+03
Value: neg



ria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonadales

FDR: $5.108e-02$
Coefficient: $-1.07e+03$
Value: delta



d__Bacteria.p__Candidatus.Omnitrophica

FDR: 5.127e-02

Coefficient: -6.51e+02

Value: delta

6000

4000

2000

0

alpha (n=25)

clade20C (n=1)

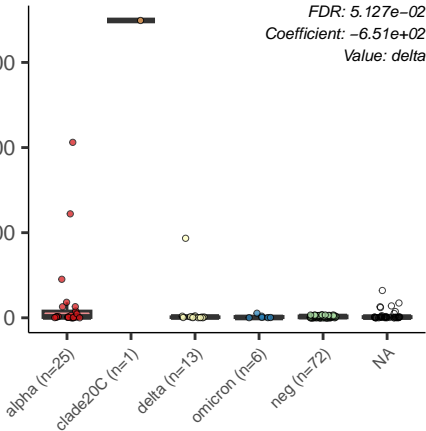
delta (n=13)

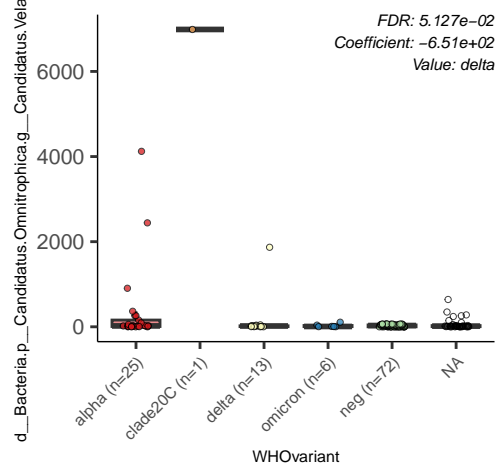
omicron (n=6)

neg (n=72)

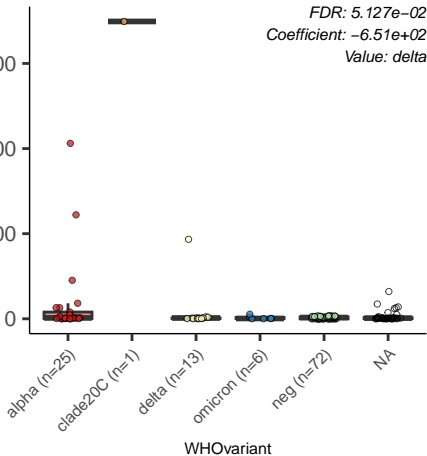
NA

WHOvariant

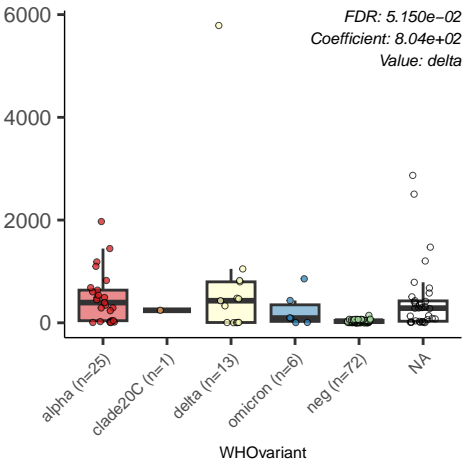




Value: delta

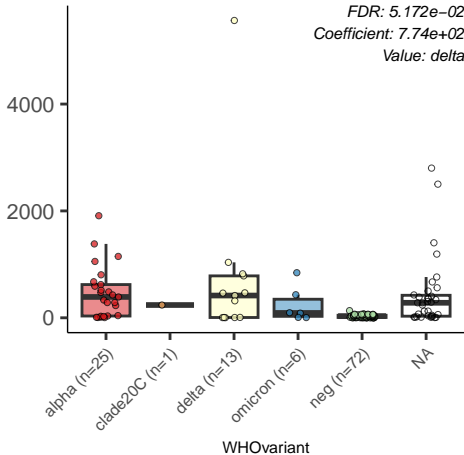


Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales.f__E



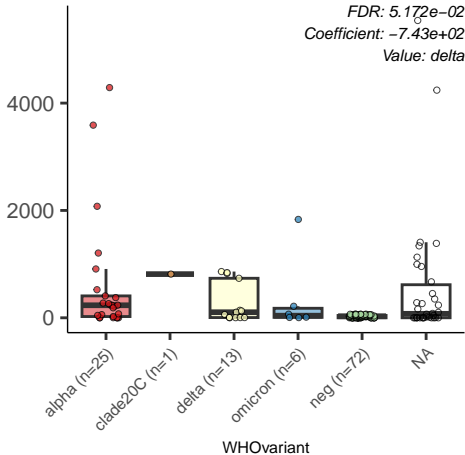
ria.c__Gammaproteobacteria.o__Enterobacterales.f__Enterobacter

FDR: $5.172e-02$
Coefficient: $7.74e+02$
Value: delta



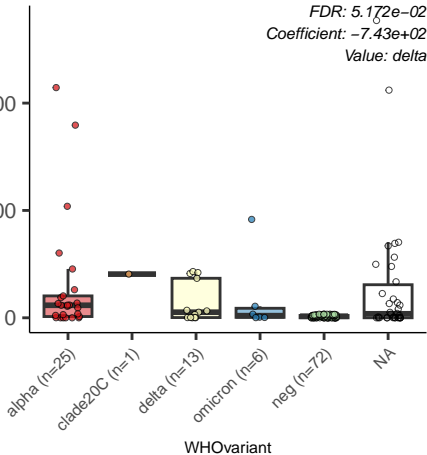
teria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Peptococcae

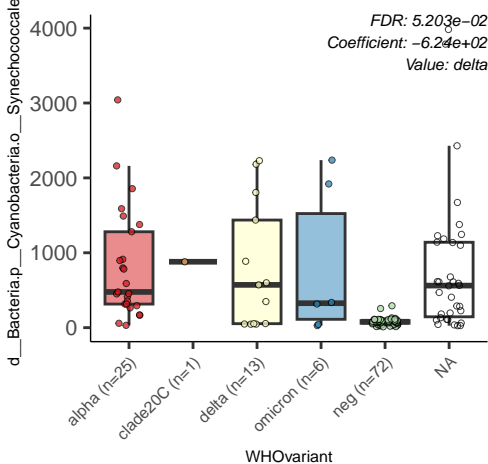
FDR: 5.172×10^{-2}
Coefficient: -7.43×10^2
Value: delta

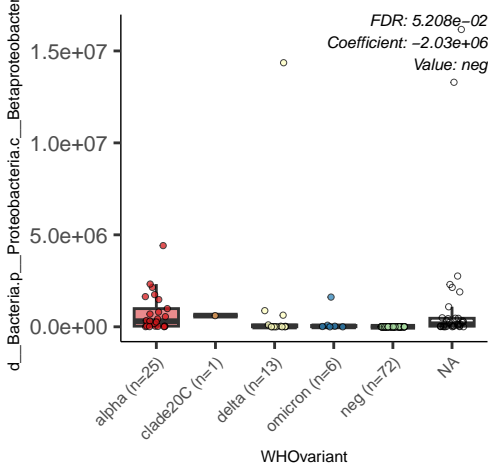


c__Clostridia.o__Eubacteriales.f__Peptococcaceae.g__Dehalobac

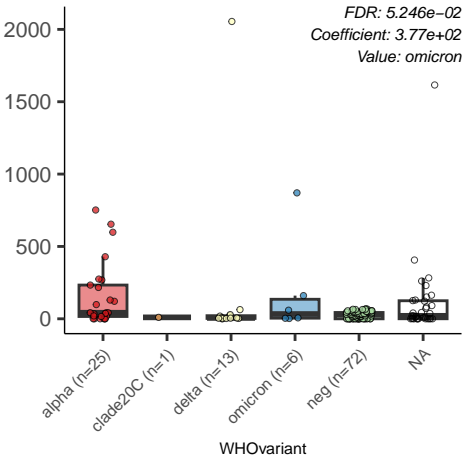
FDR: $5.172e-02$
Coefficient: $-7.43e+02$
Value: delta

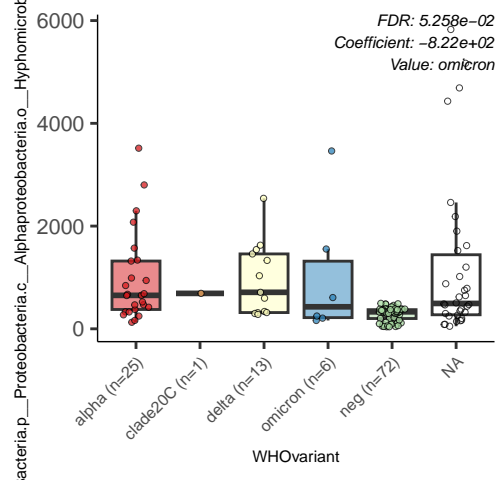


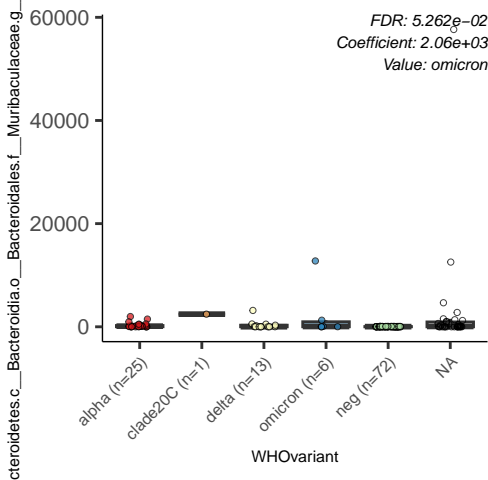




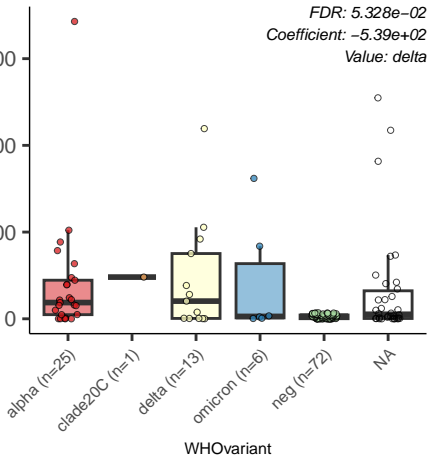
ia.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae.





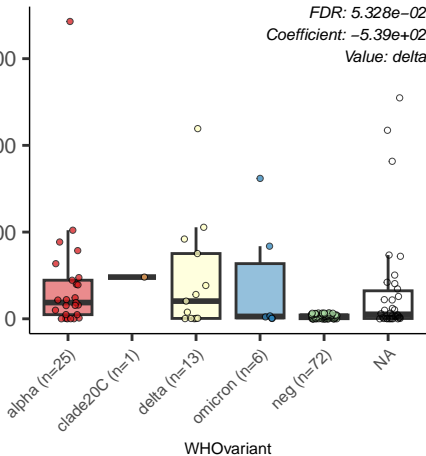


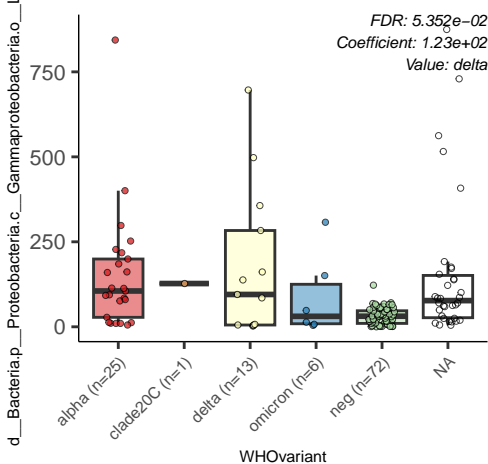
d_Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Chr



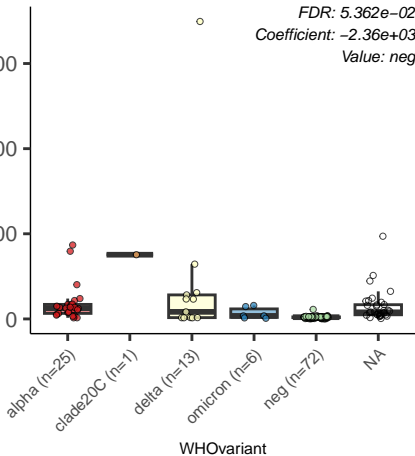
eria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Christensenell

FDR: 5.328e-02
Coefficient: -5.39e+02
Value: delta

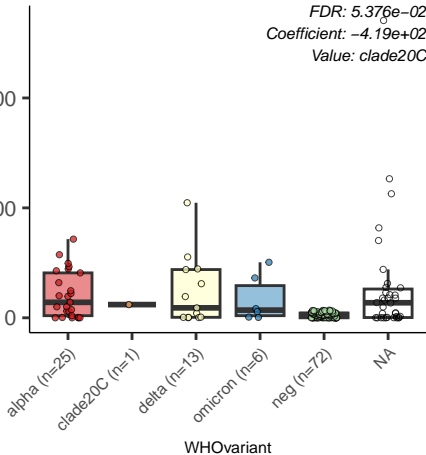




FDR: $5.362e-02$
Coefficient: $-2.36e+03$
Value: neg

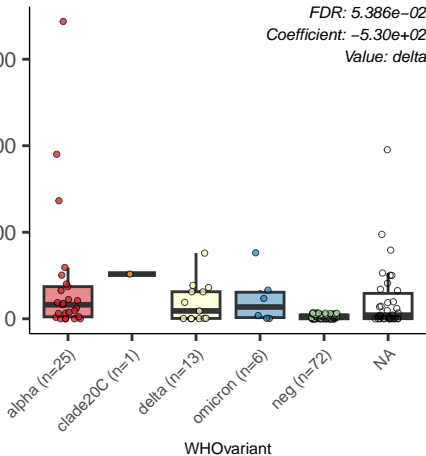


FDR: $5.376e-02$
Coefficient: $-4.19e+02$
Value: clade20C



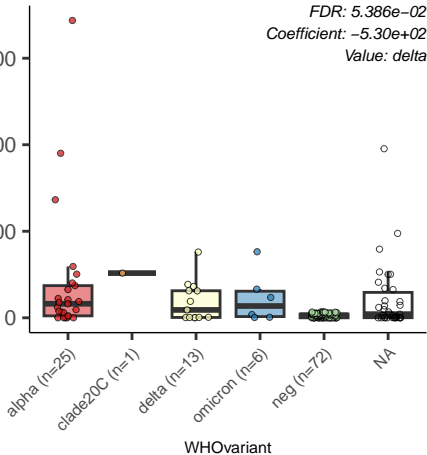
d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f

FDR: $5.386e-02$
Coefficient: $-5.30e+02$
Value: delta



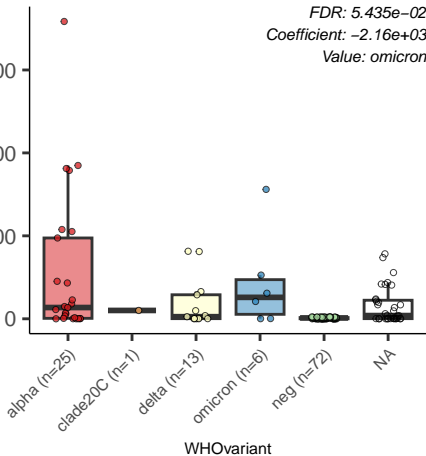
detes.c__Bacteroidia.o__Bacteroidales.f__Paludibacteraceae.g__Pa

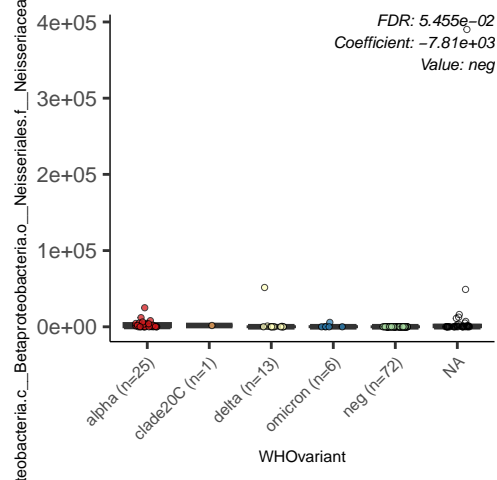
FDR: 5.386e-02
Coefficient: -5.30e+02
Value: delta



acteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae

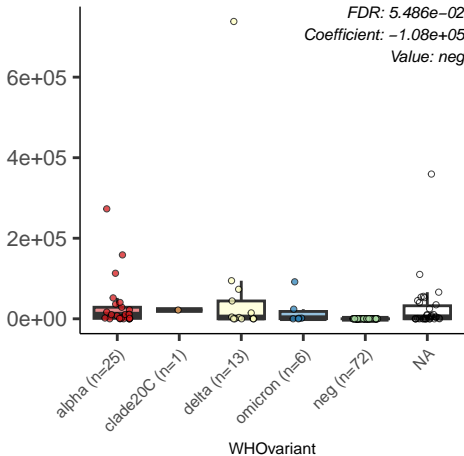
FDR: 5.435e-02
Coefficient: -2.16e+03
Value: omicron

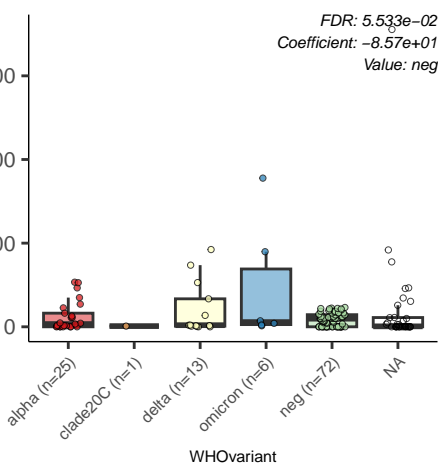




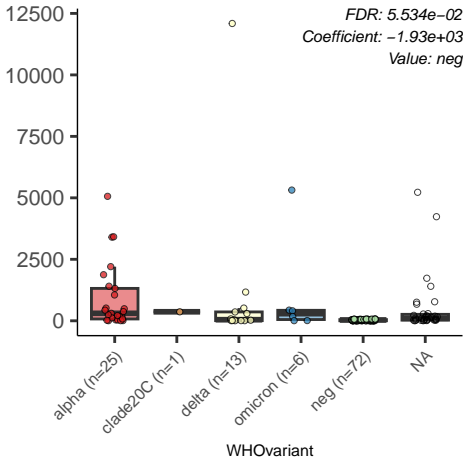
eria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f__Eubacteriales.

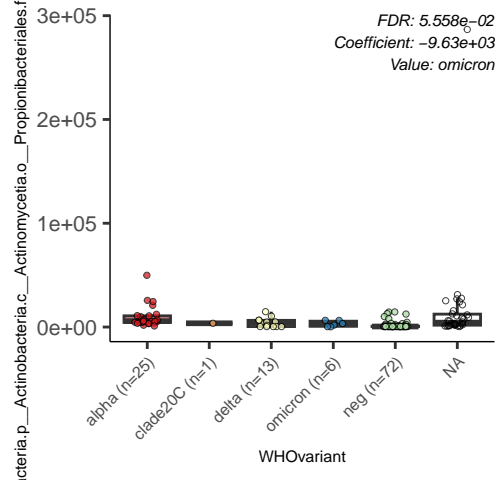
FDR: 5.486e-02
Coefficient: -1.08e+05
Value: neg

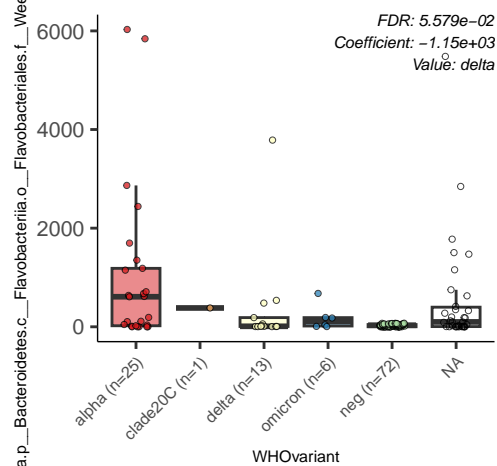


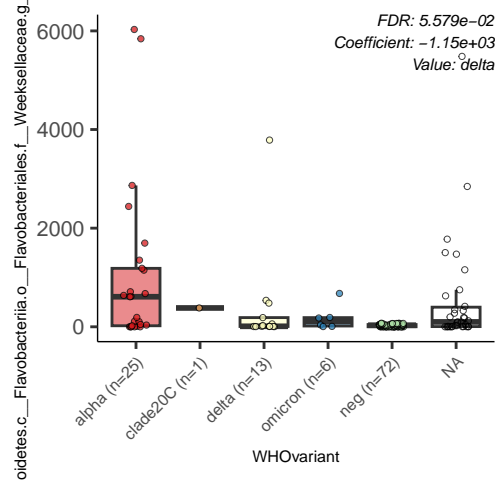


bacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae



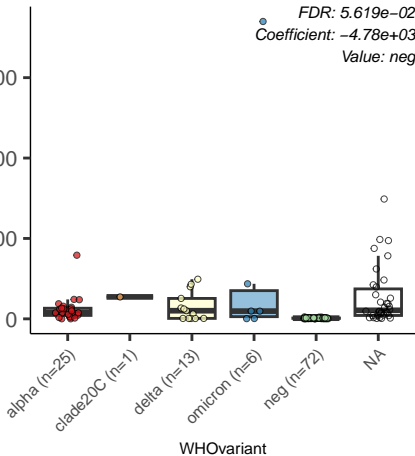


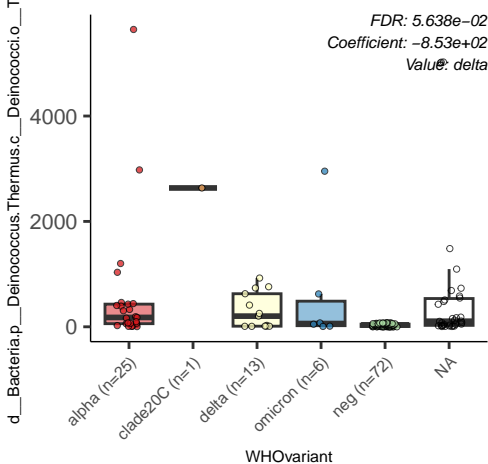


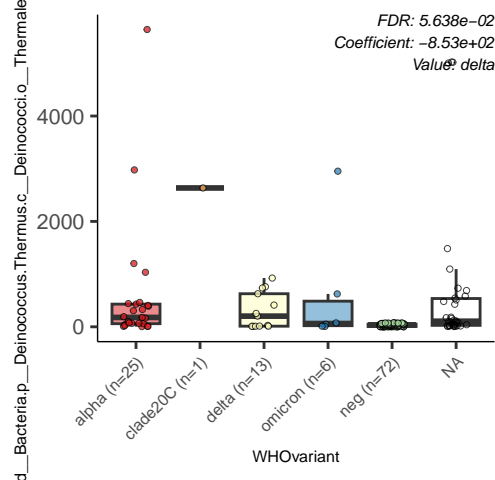


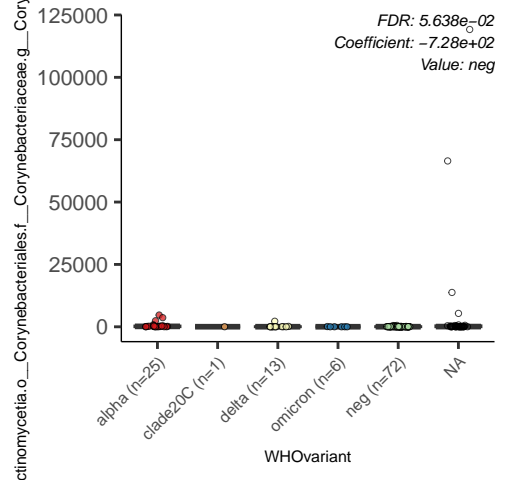
Bacteria.p_Bacteroidetes.c_Cytophagia.o__Cytophagales.f_H

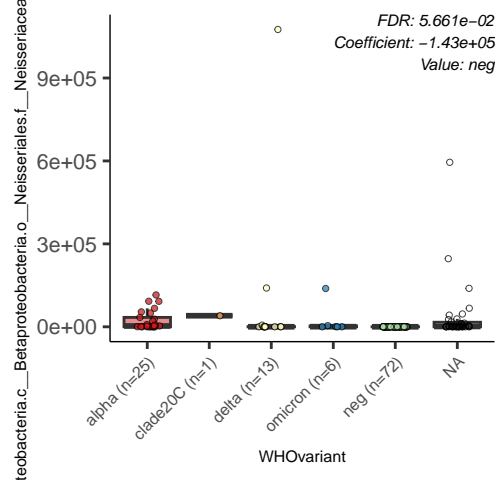
FDR: $5.619e-02$
Coefficient: $-4.78e+03$
Value: neg





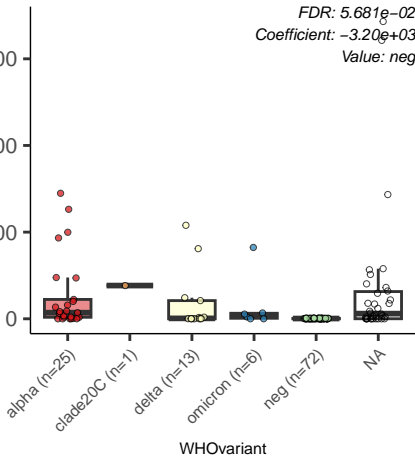






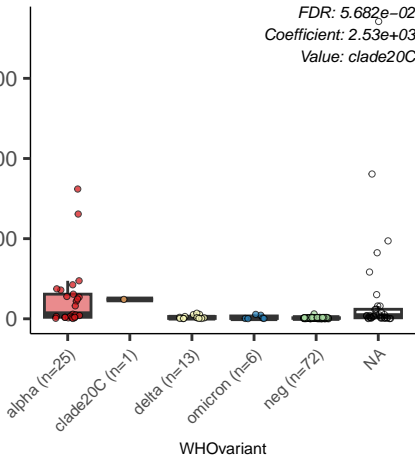
cutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strepto

FDR: $5.681e-02$
Coefficient: $-3.20e+03$
Value: neg

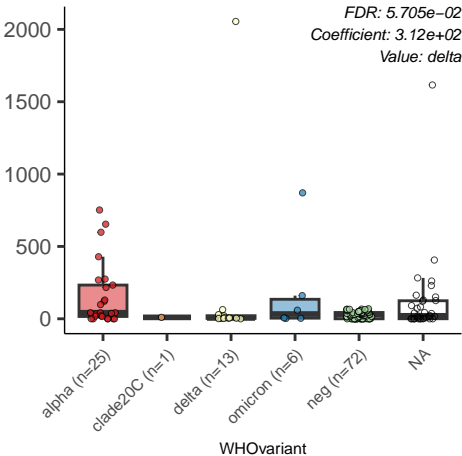


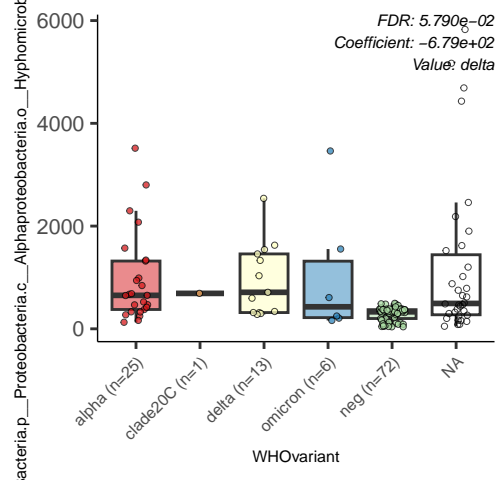
Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Nit

FDR: 5.682e-02
Coefficient: 2.53e+03
Value: clade20C



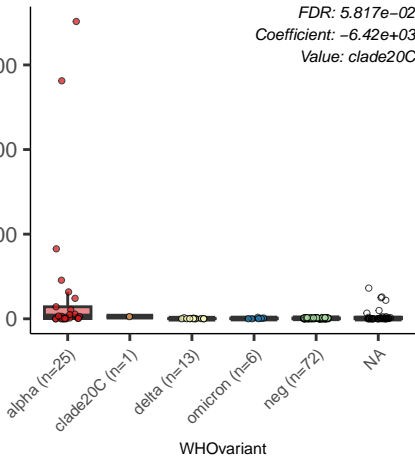
ia.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae.





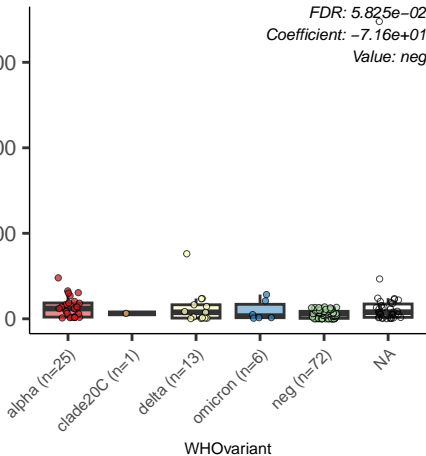
__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacter

FDR: $5.817e-02$
Coefficient: $-6.42e+03$
Value: clade20C

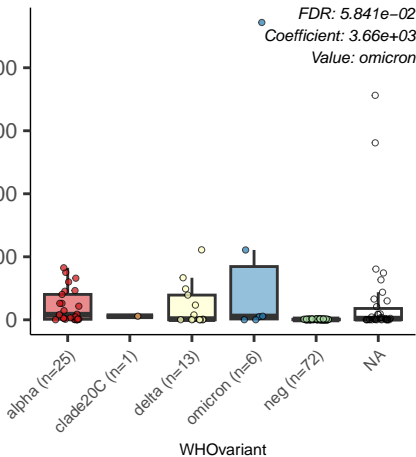


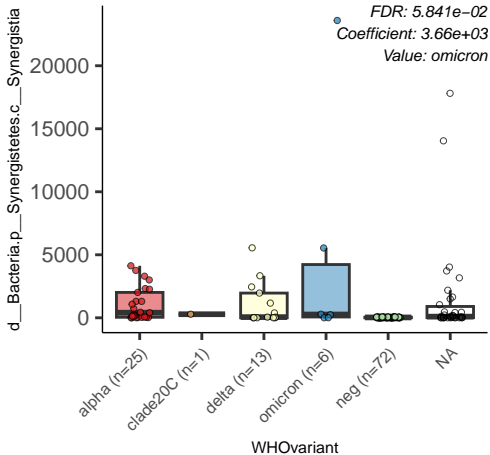
eria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirilla

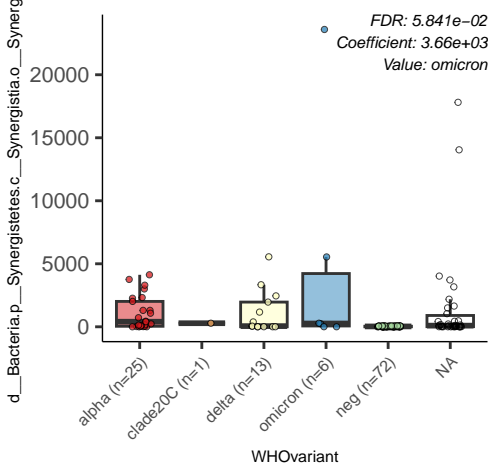
FDR: $5.825e-02$
Coefficient: $-7.16e+01$
Value: neg

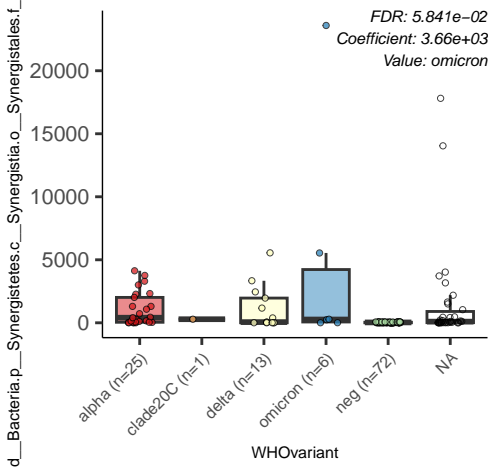


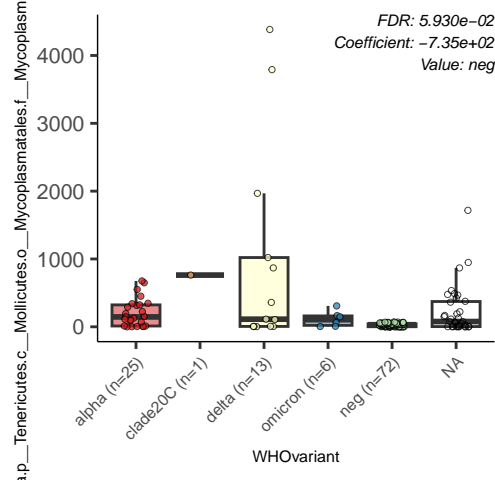
d_Bacteria.p_Synergistetes

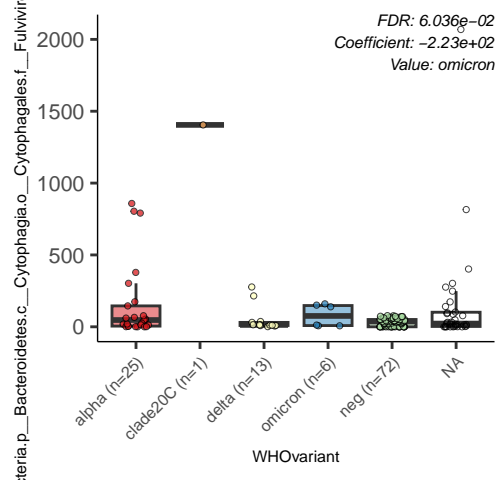


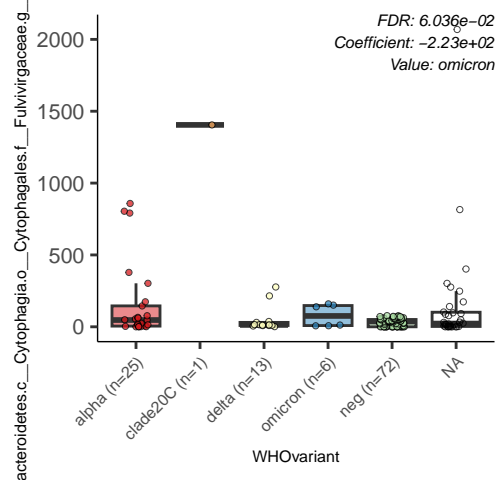




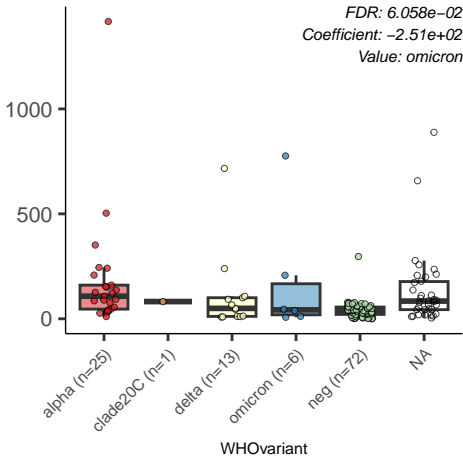




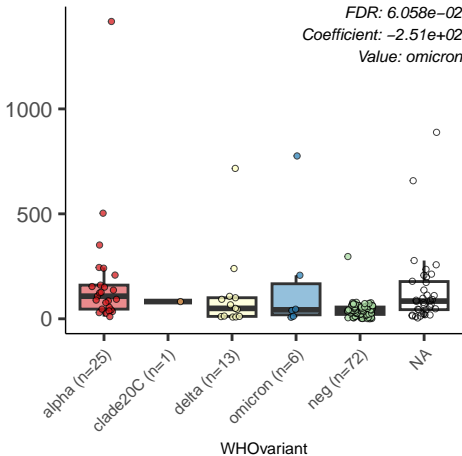


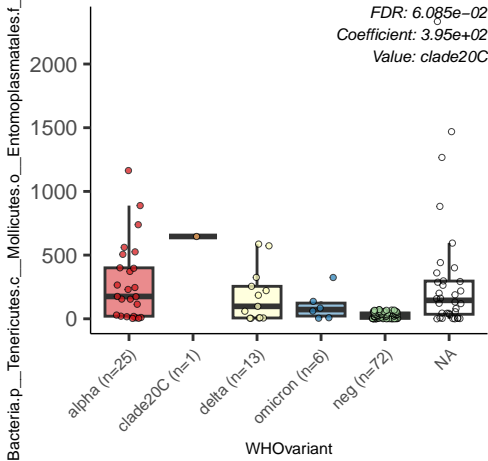


d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Candidatus.N

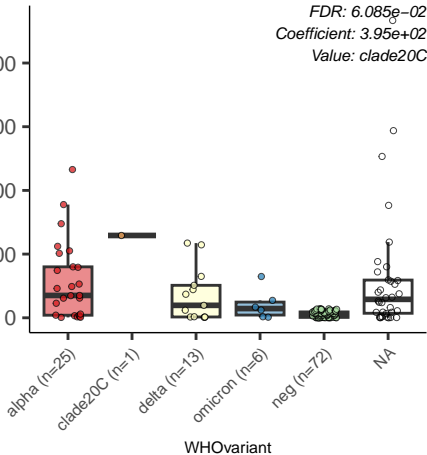


FDR: $6.058e-02$
Coefficient: $-2.51e+02$
Value: omicron

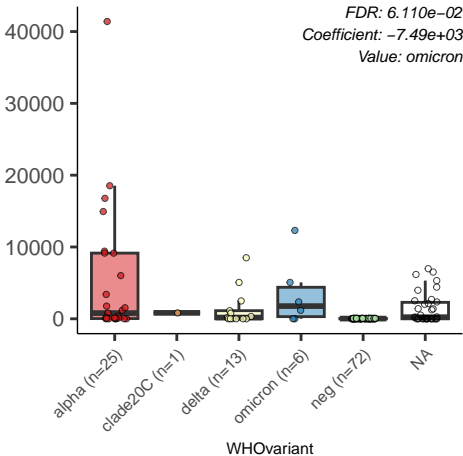




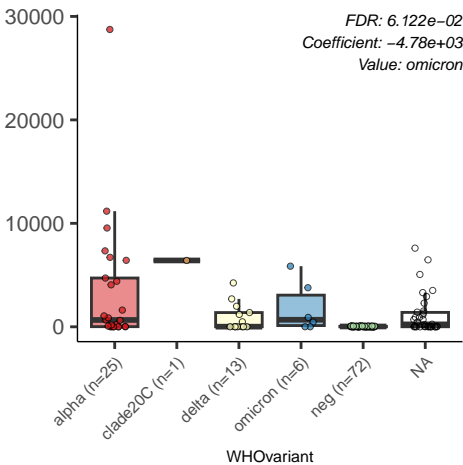
FDR: $6.085e-02$
Coefficient: $3.95e+02$
Value: clade20C



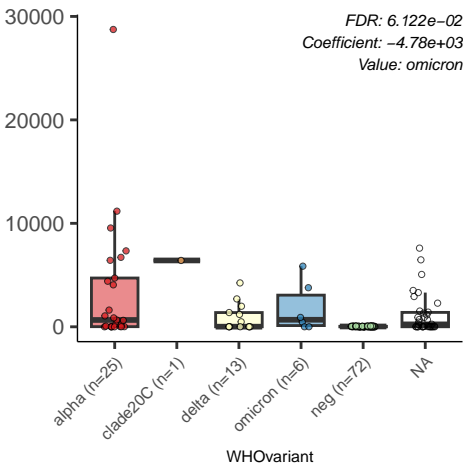
bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

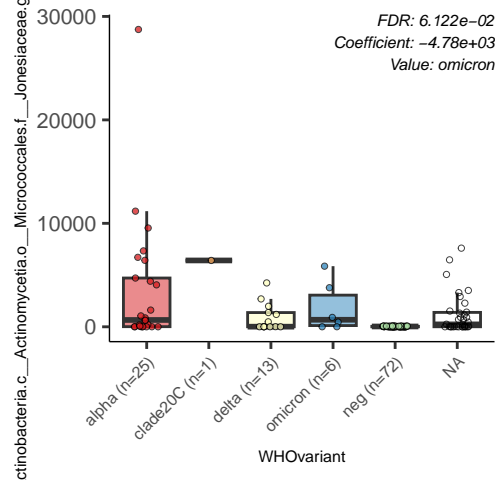


d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales



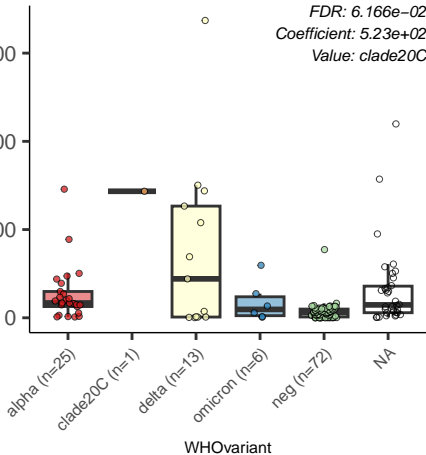
bacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Jo

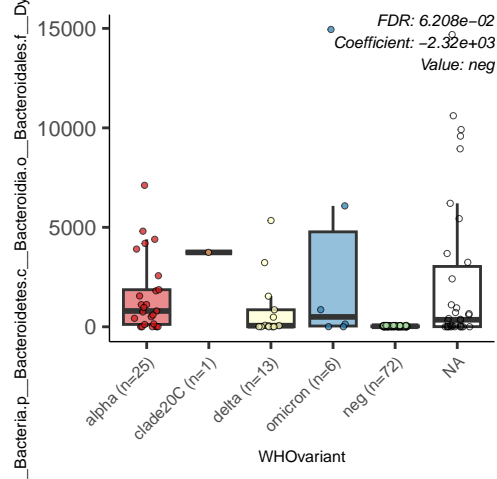


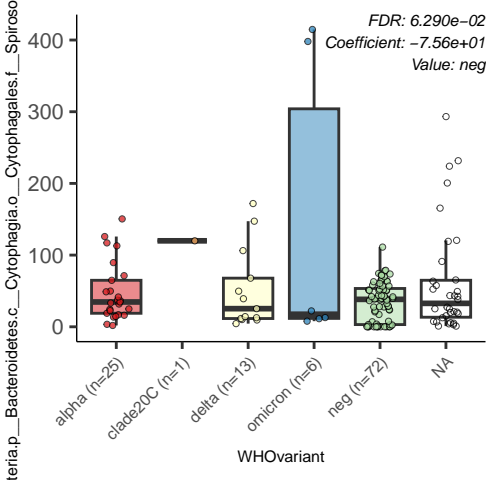


Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Aerococcca

FDR: $6.166e-02$
Coefficient: $5.23e+02$
Value: clade20C







d__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonadaceae

75000

50000

25000

alpha (n=25)

clade20C (n=1)

delta (n=13)

omicron (n=6)

neg (n=72)

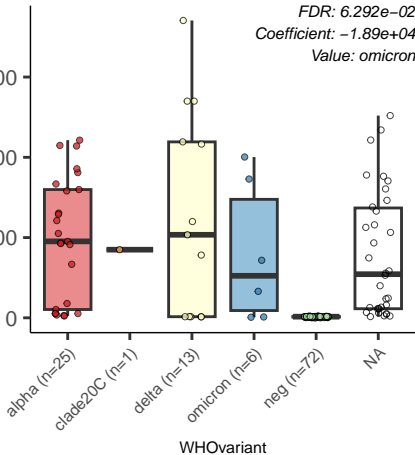
NA

WHOvariant

FDR: 6.292e-02

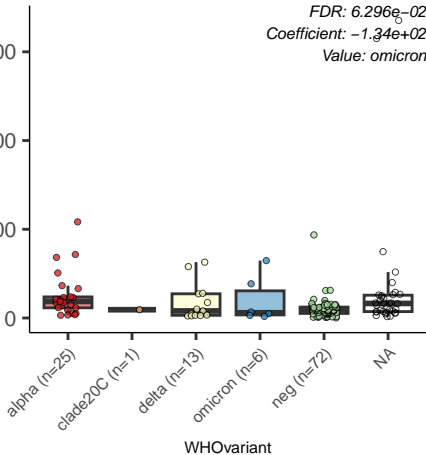
Coefficient: -1.89e+04

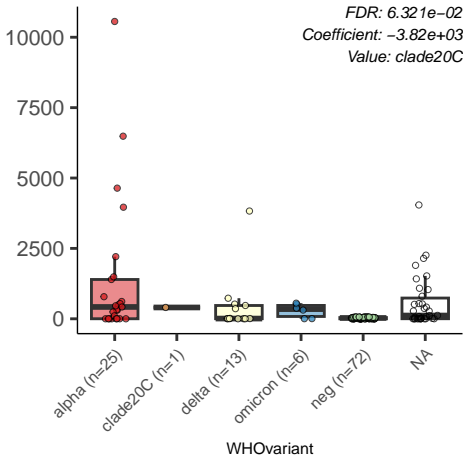
Value: omicron

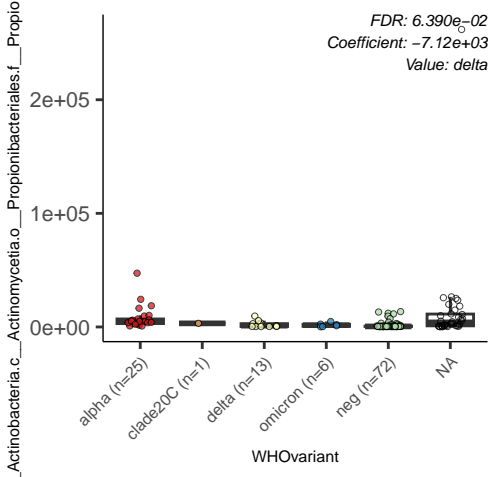


eria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales.f_G

FDR: $6.296e-02$
Coefficient: $-1.34e+02$
Value: omicron

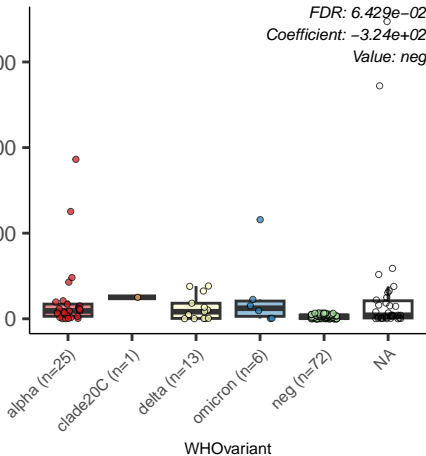






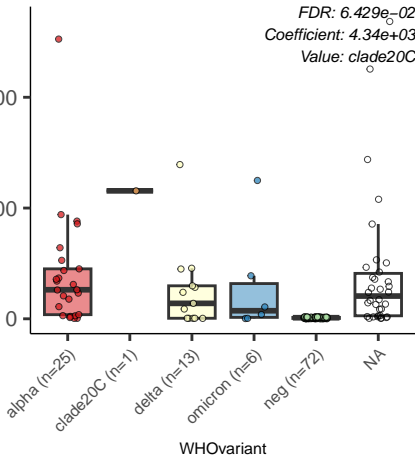
d_Bacteria.p__Nitrospirae

FDR: $6.429e-02$
Coefficient: $-3.24e+02$
Value: neg



d__Bacteria.p__Bacteroidetes.c__Sphingobacteriia

FDR: 6.429×10^{-2}
Coefficient: 4.34×10^3
Value: clade20C



d__Bacteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphing

FDR: $6.429e-02$
Coefficient: $4.34e+03$
Value: clade20C

10000

5000

alpha (n=25)

clade20C (n=1)

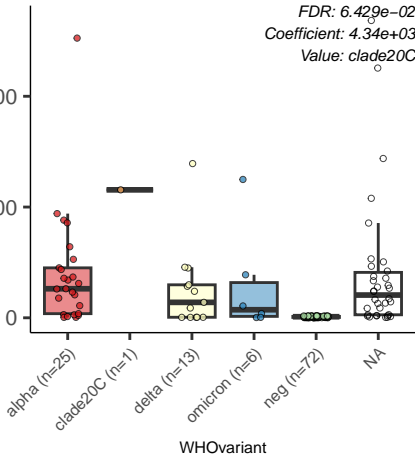
delta (n=13)

omicron (n=6)

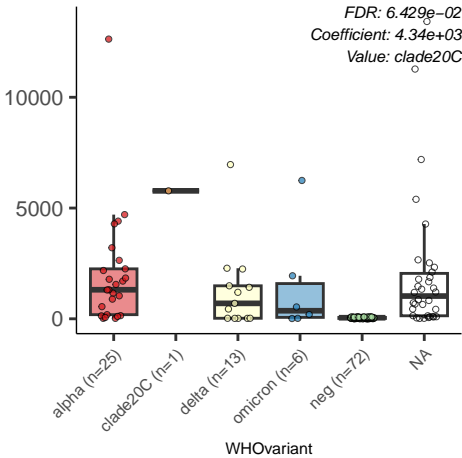
neg (n=72)

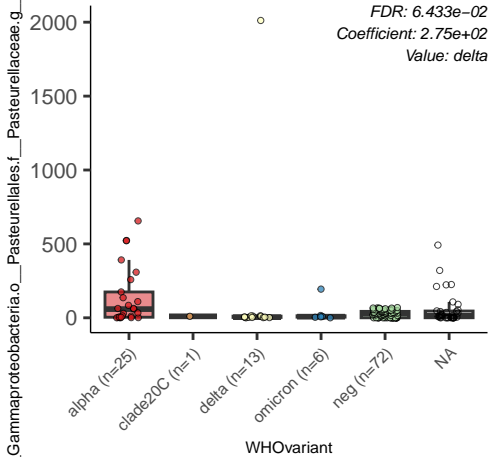
NA

WHOvariant

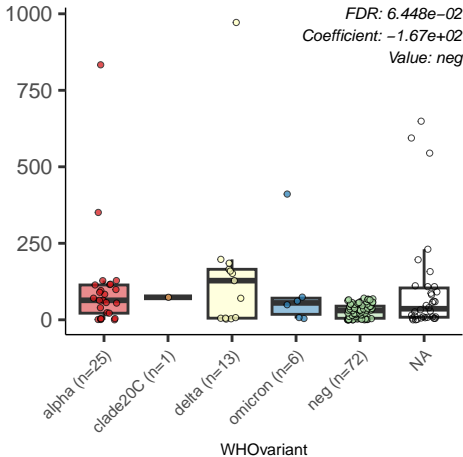


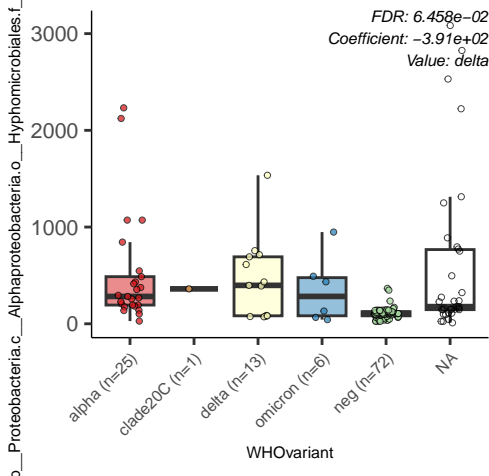
acteria.p__Bacteroidetes.c__Sphingobacteriia.o__Sphingobacteriales

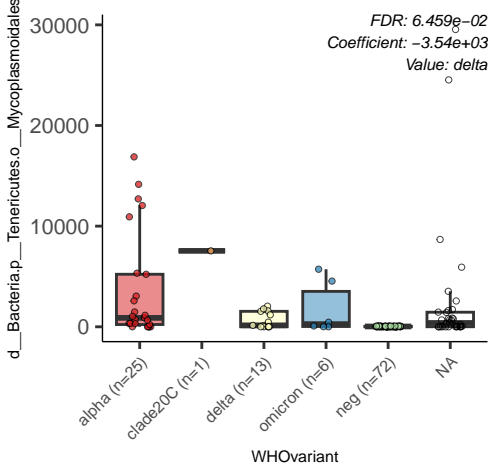




stridia.o_Thermoanaerobacterales.f_Thermoanaerobacterales.Fa

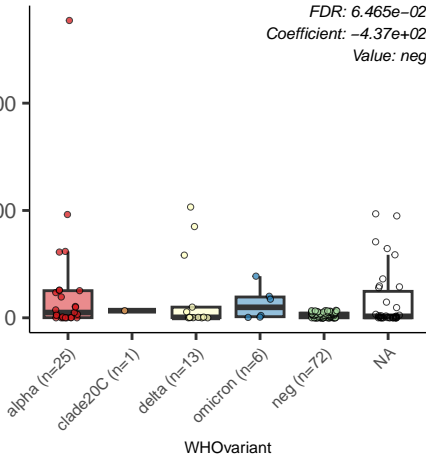






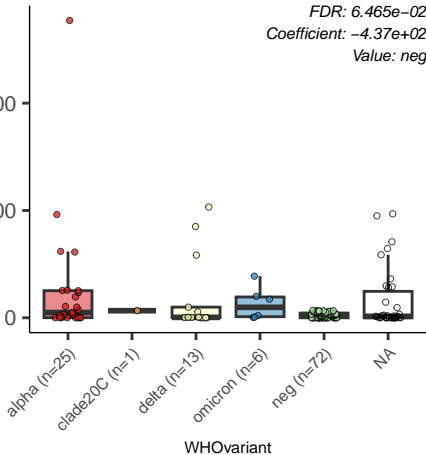
terial.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__Lacip

FDR: $6.465e-02$
Coefficient: $-4.37e+02$
Value: neg



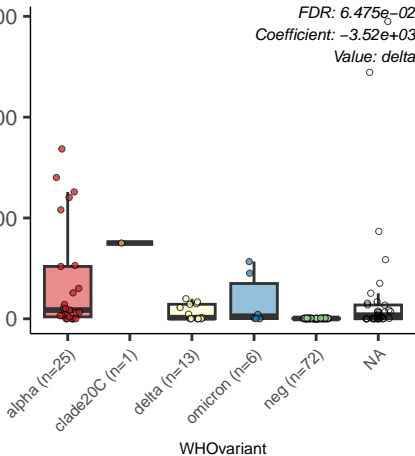
ntomycetes.c__Planctomycetia.o__Pirellulales.f__Lacipirellulaceae

FDR: $6.465e-02$
Coefficient: $-4.37e+02$
Value: neg

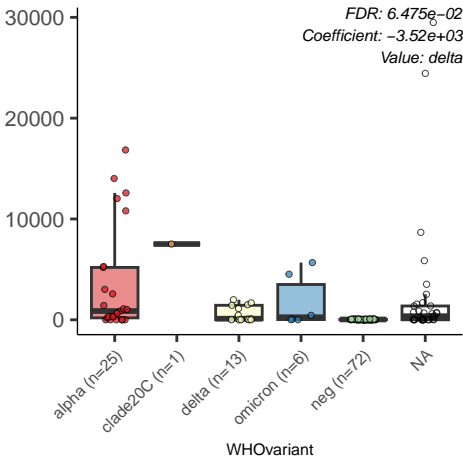


d__Bacteria.p__Tenericutes.o__Mycoplasmoidales.f__Metamycoc

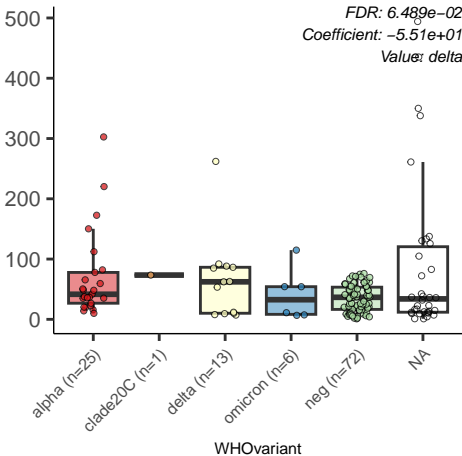
FDR: 6.475e-02
Coefficient: -3.52e+03
Value: delta



eria.p__Tenericutes.o__Mycoplasmoidales.f__Metamycoplasmatac

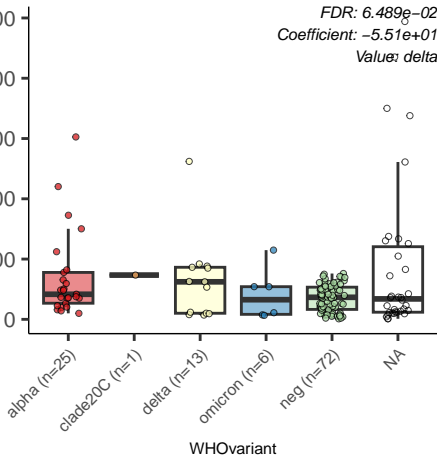


ria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g



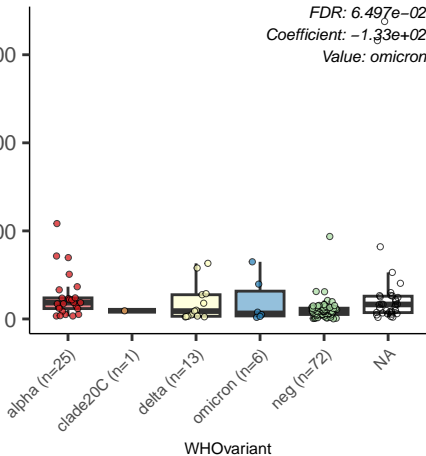
ia.c__Betaproteobacteria.o__Burkholderiales.g__Candidatus.Lichthys

FDR: $6.489e-02$
Coefficient: $-5.51e+01$
Value: delta



Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriale

FDR: $6.497e-02$
Coefficient: $-1.33e+02$
Value: omicron



Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Xa

FDR: $6.499\text{e-}02$
Coefficient: $-8.53\text{e}+01$
Value: neg

1000
500
0

alpha (n=25)

clade20C (n=1)

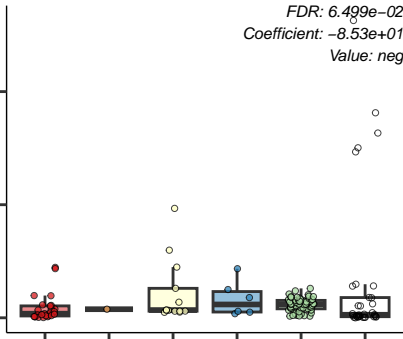
delta (n=13)

omicron (n=6)

neg (n=72)

NA

WHOvariant



c__Alphaproteobacteria.o__Hyphomicrobiales.f__Xanthobacteraceae

FDR: $6.499e-02$
Coefficient: $-8.53e+01$
Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

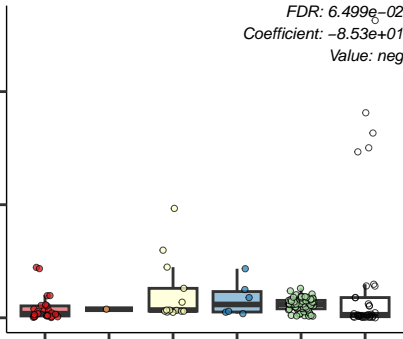
delta (n=13)

omicron (n=6)

neg (n=72)

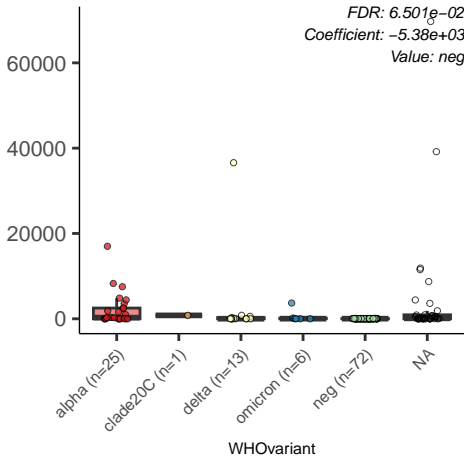
NA

WHOvariant

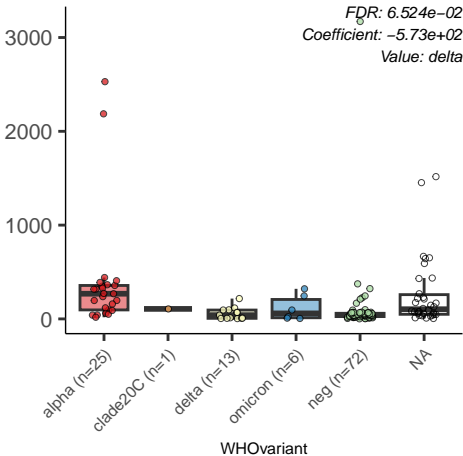


obacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae

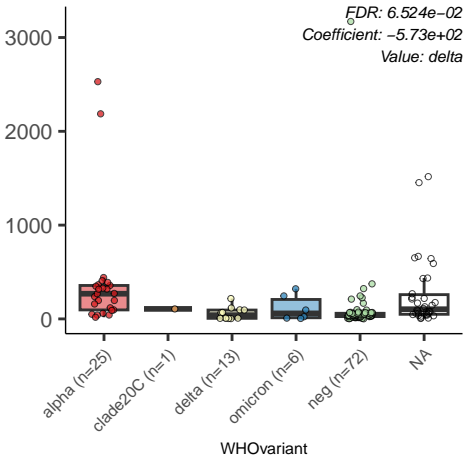
FDR: $6.501e-02$
Coefficient: $-5.38e+03$
Value: neg

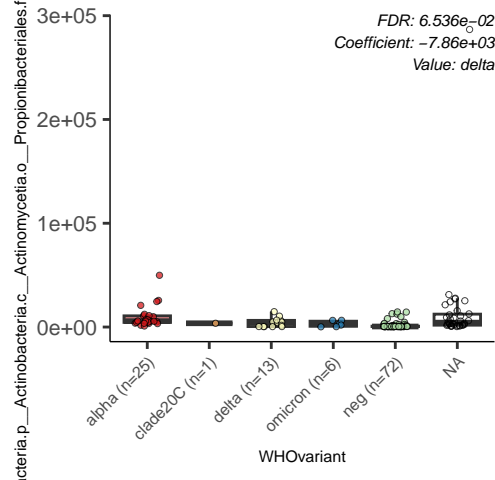


bacteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniph



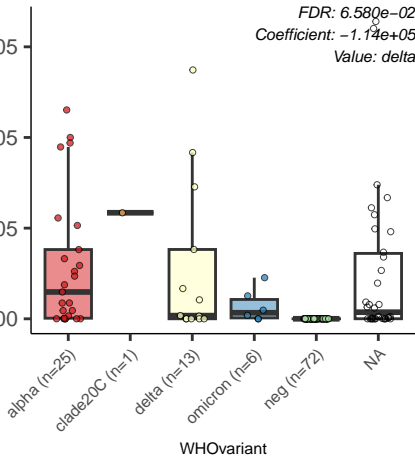
Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g

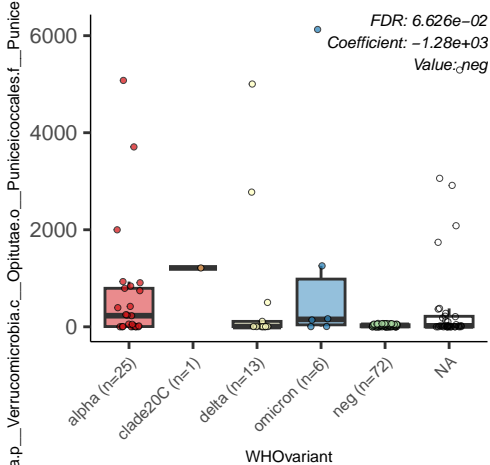




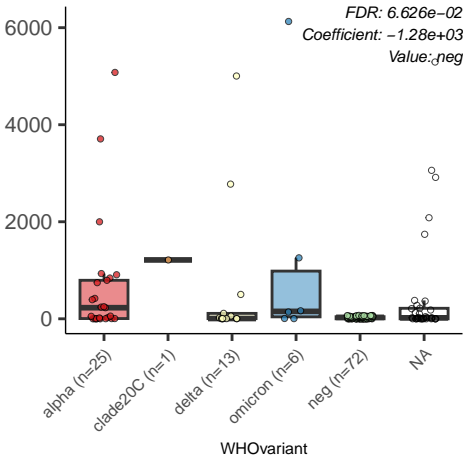
d__Bacteria.p__Candidatus.Saccharibacteria.c__Candidatus.Sa

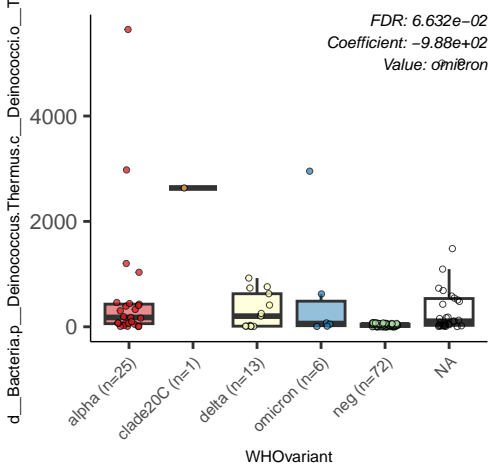
FDR: $6.580e-02$
Coefficient: $-1.14e+05$
Value: delta

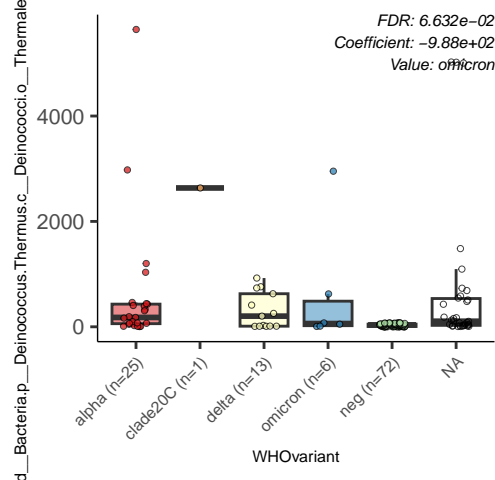


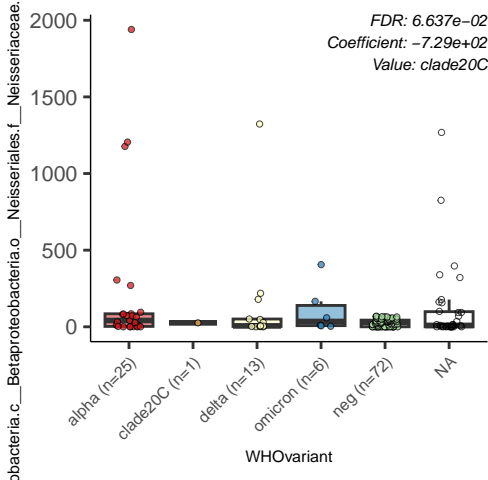


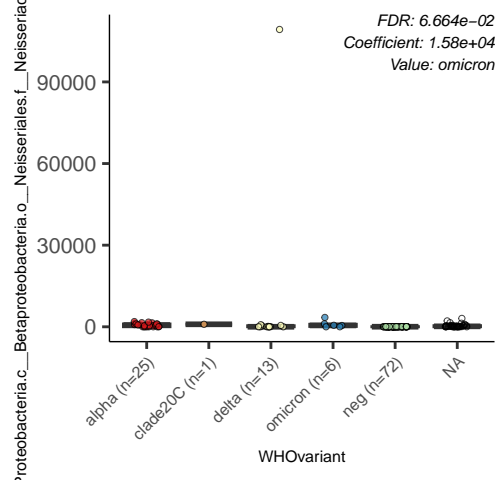
comicrobia.c__Opitutae.o__Puniceicoccales.f__Puniceicoccaceae.g

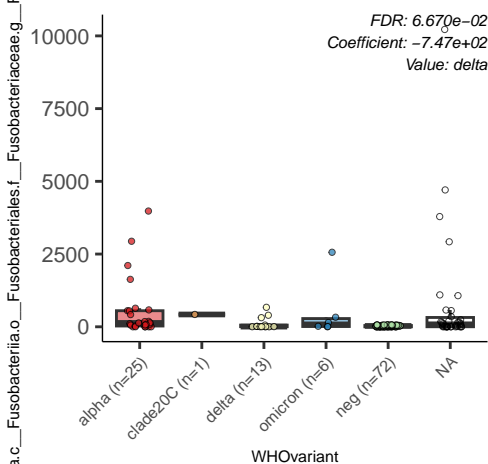




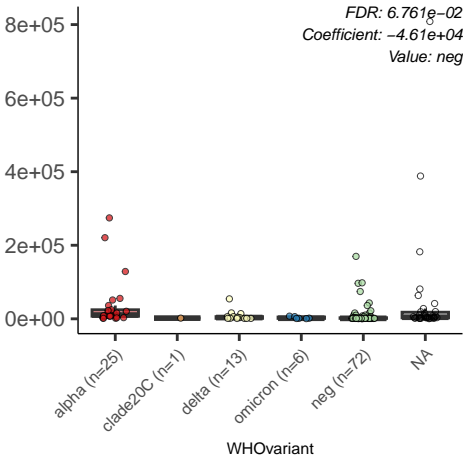


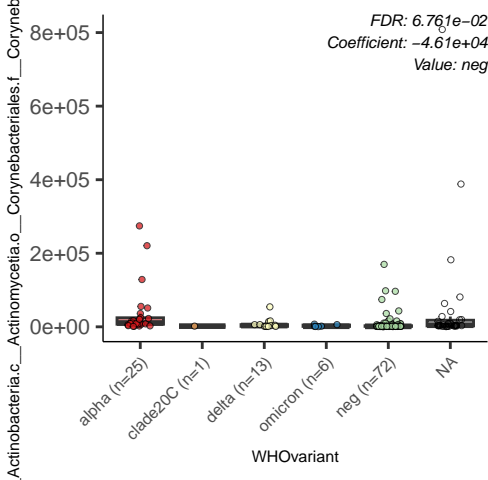






acteria.p__Actinobacteria.c__Actinomycetia.o__Corynebacteriales.f





icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

FDR: 6.777×10^{-2}
Coefficient: 7.36×10^3
Value: omicron

1e+05

5e+04

0e+00

alpha (n=25)

clade20C (n=1)

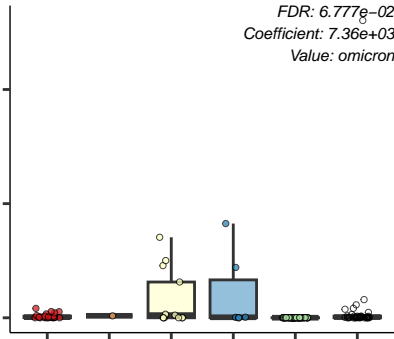
delta (n=13)

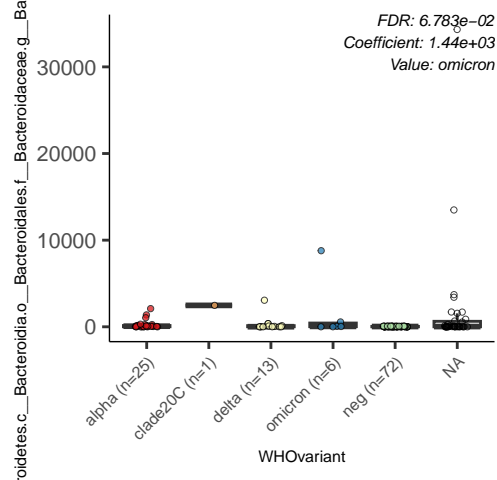
omicron (n=6)

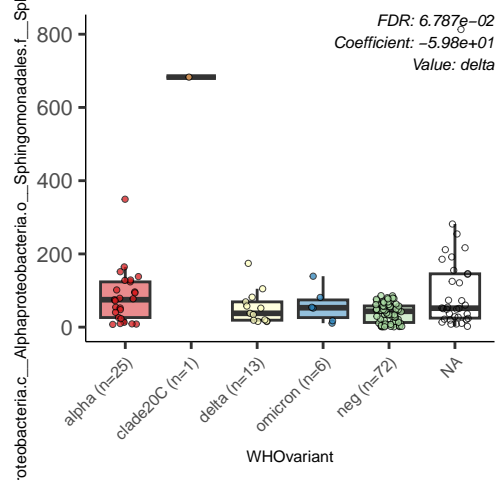
neg (n=72)

NA

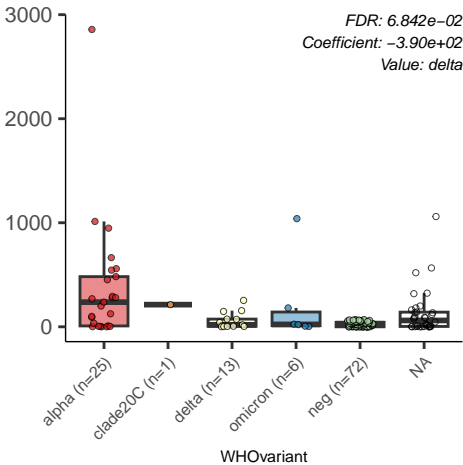
WHOvariant



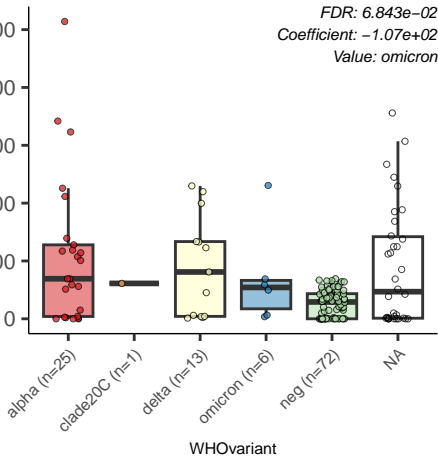


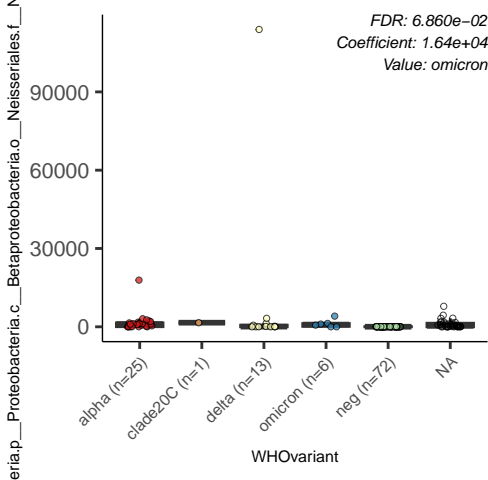


utes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Anaeroc



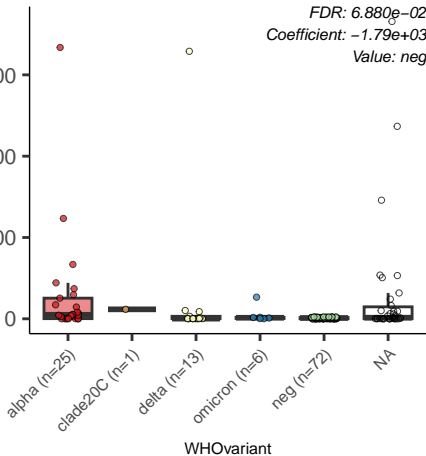
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__B

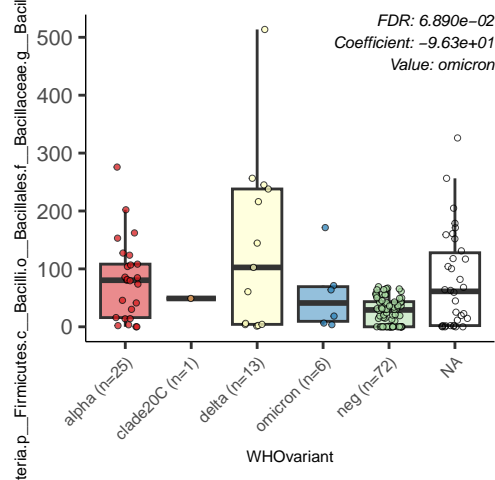




Neisseria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae

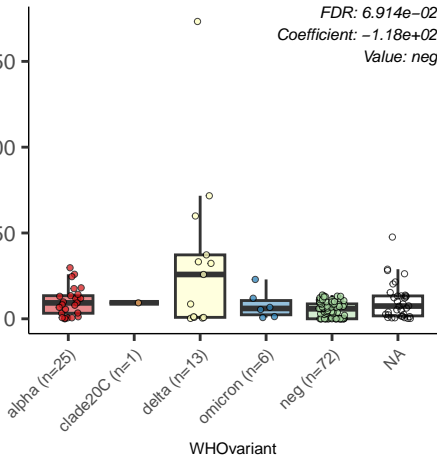
FDR: $6.880e-02$
Coefficient: $-1.79e+03$
Value: neg

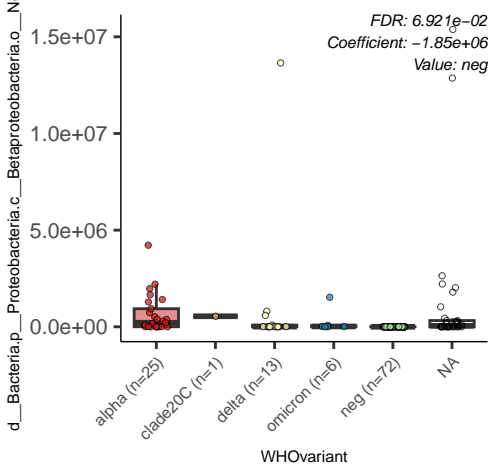




micutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Lactila

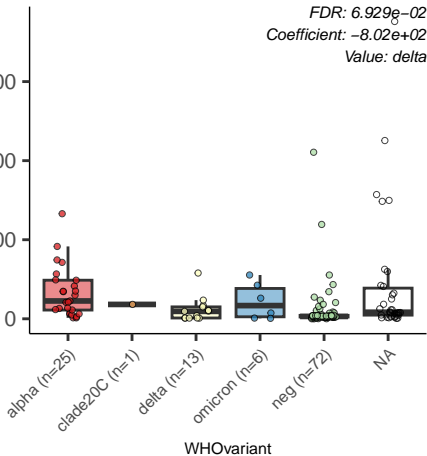
FDR: $6.914e-02$
Coefficient: $-1.18e+02$
Value: neg

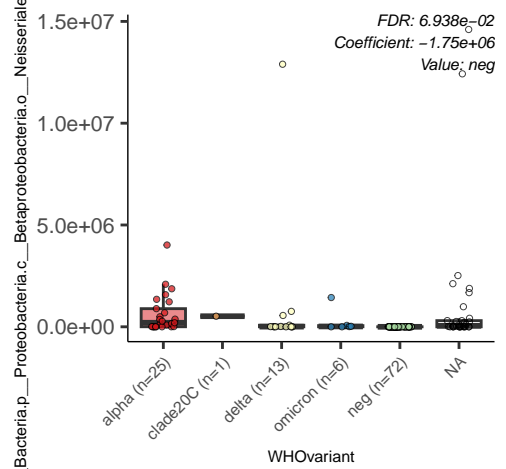


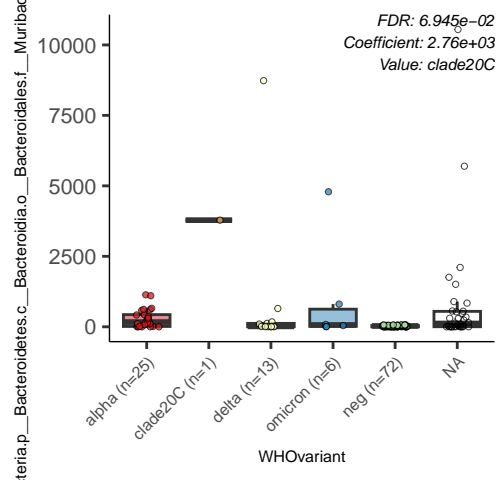


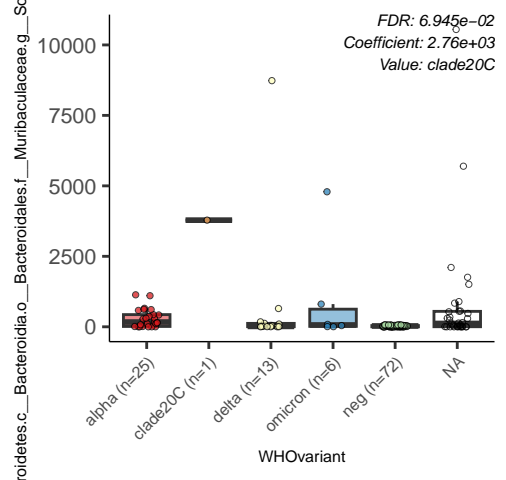
cteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniph

$FDR: 6.929e-02$
 $Coefficient: -8.02e+02$
 $Value: delta$



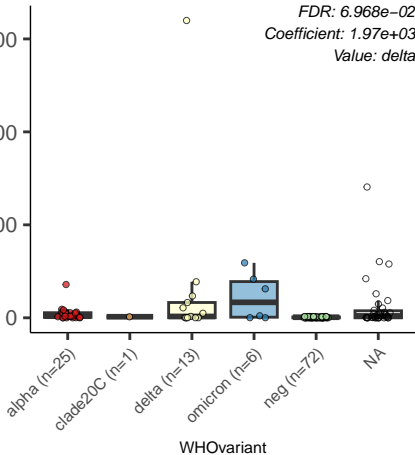


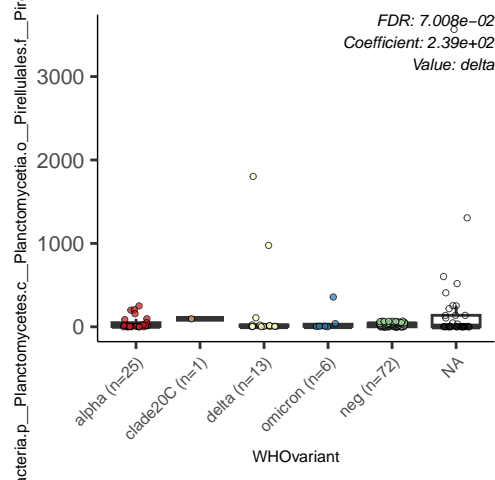


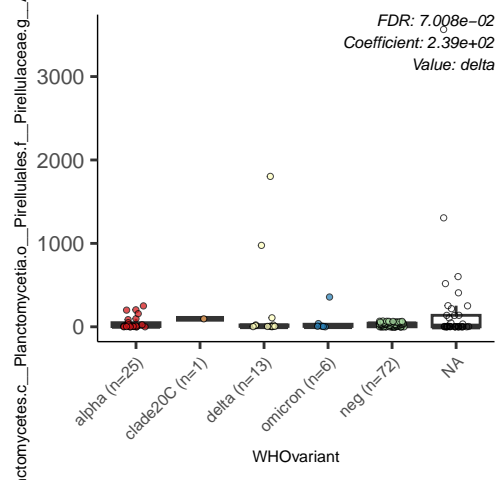


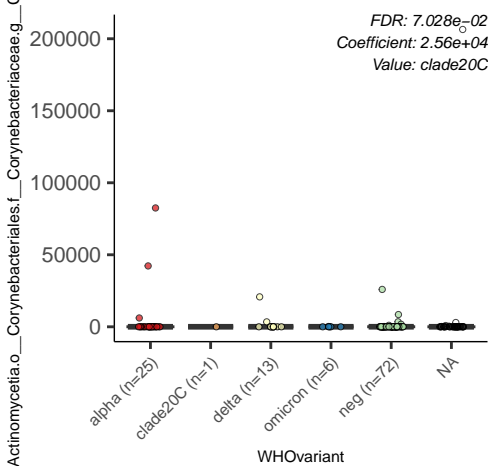
icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

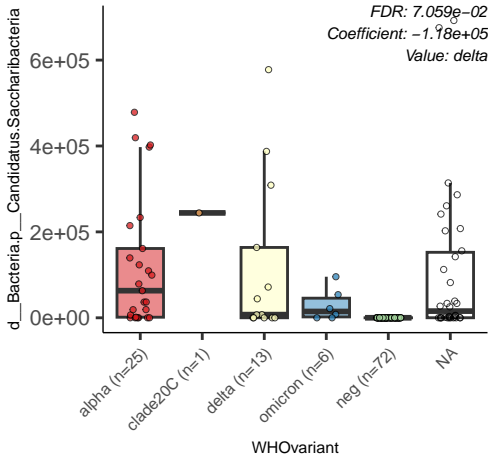
FDR: 6.968e-02
Coefficient: 1.97e+03
Value: delta

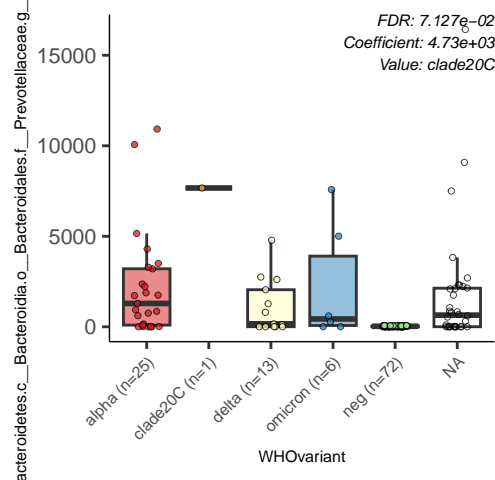


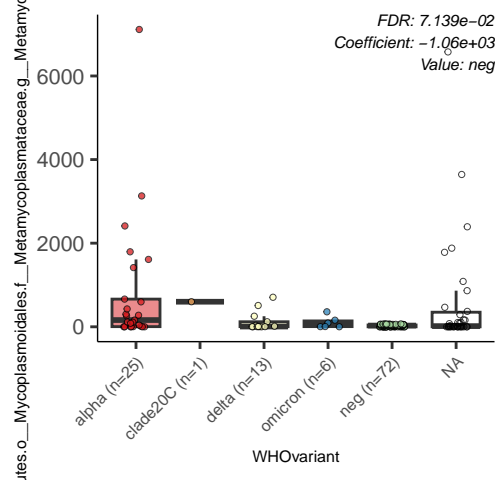






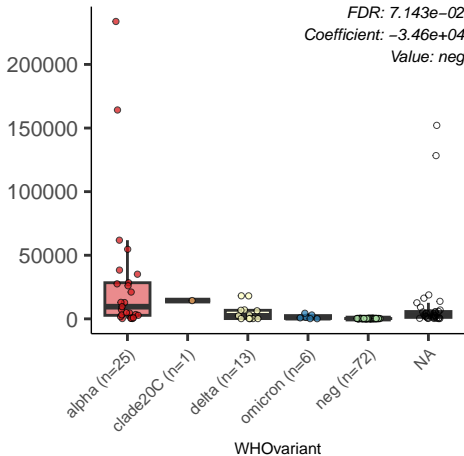






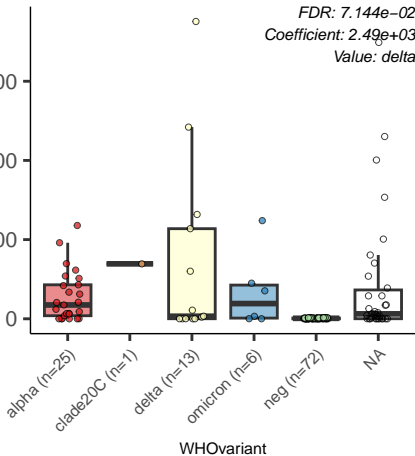
bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales

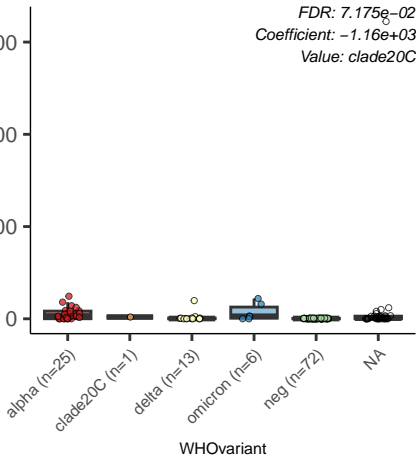
FDR: $7.143e-02$
Coefficient: $-3.46e+04$
Value: neg



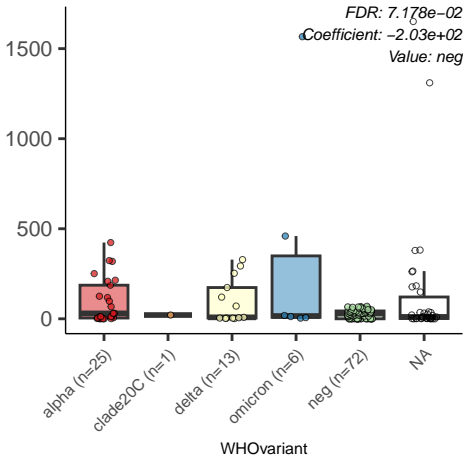
icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

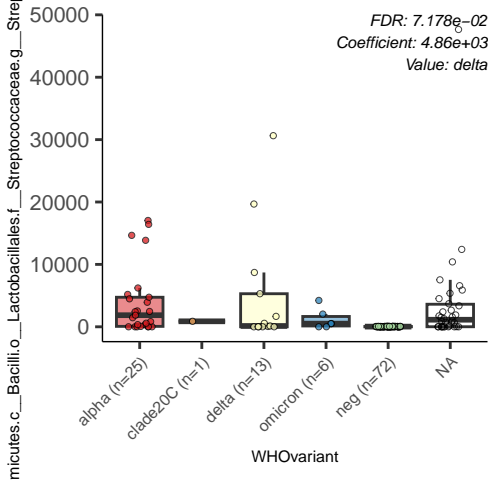
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Coefficient: 2.49e+03
Value: delta

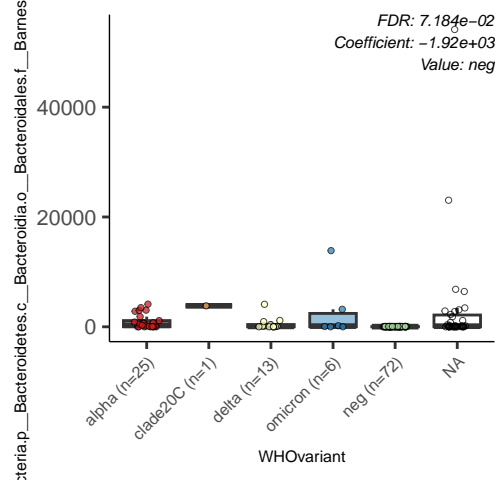




Clostridia.o__Eubacteriales.f__Christensenellaceae.g__Christens

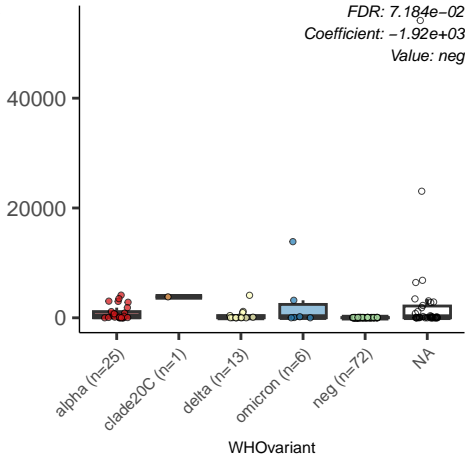




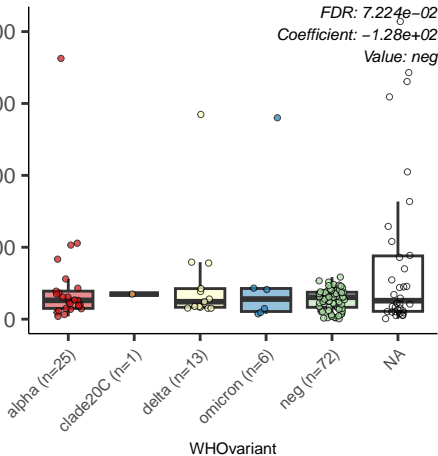


teroidetes.c__Bacteroidia.o__Bacteroidales.f__Barnesiellaceae.g

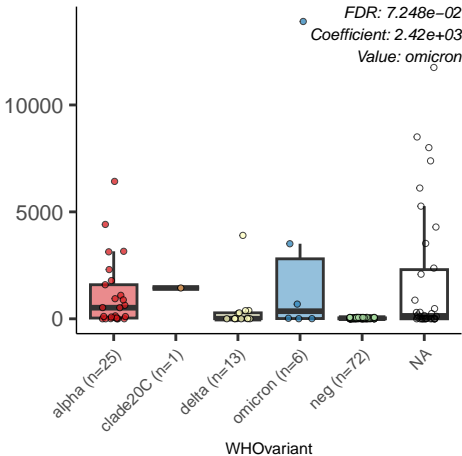
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Value: neg



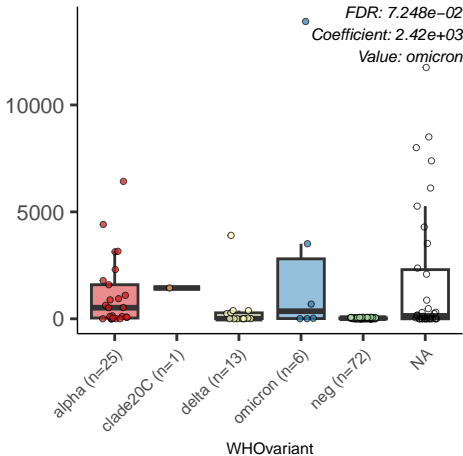
ia.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Intras

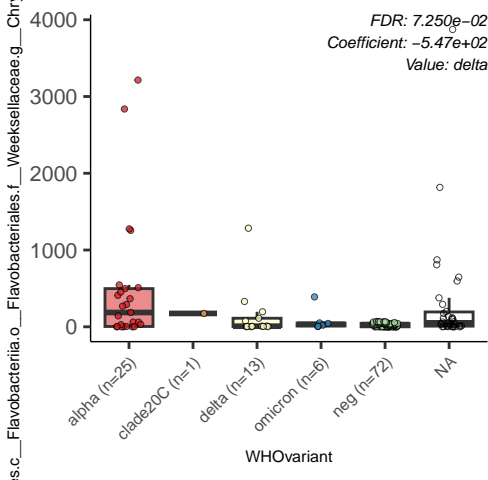


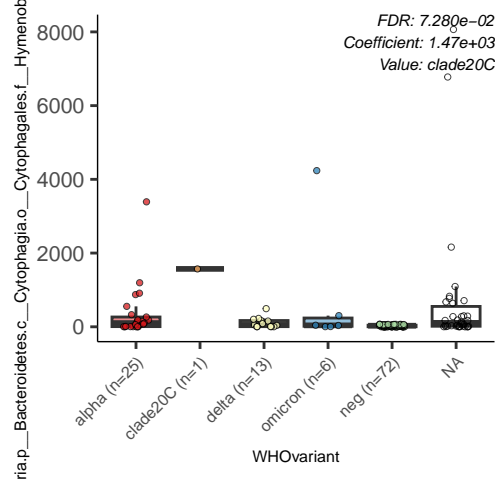
ia.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Dysgonor



roidetes.c__Bacteroidia.o__Bacteroidales.f__Dysgonomonadaceae

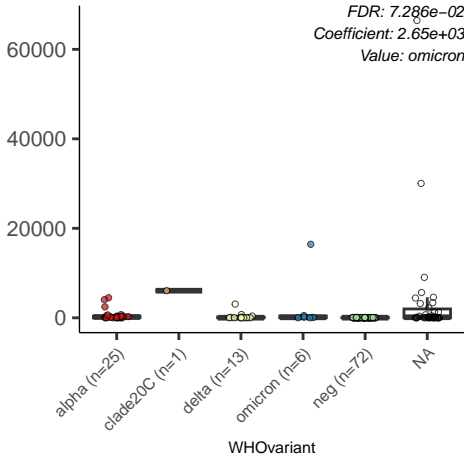




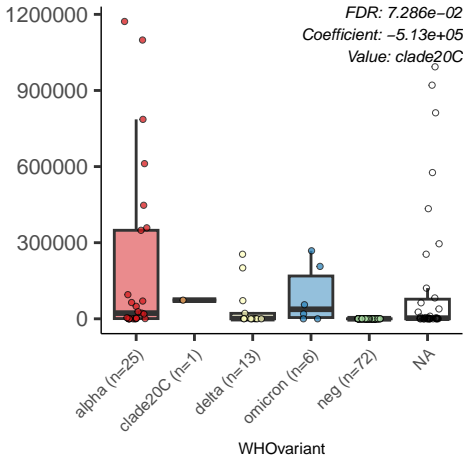


detes.c__Bacteroidia.o__Bacteroidales.f__Tannerellaceae.g__Parat

FDR: $7.286e-02$
Coefficient: $2.65e+03$
Value: omicron

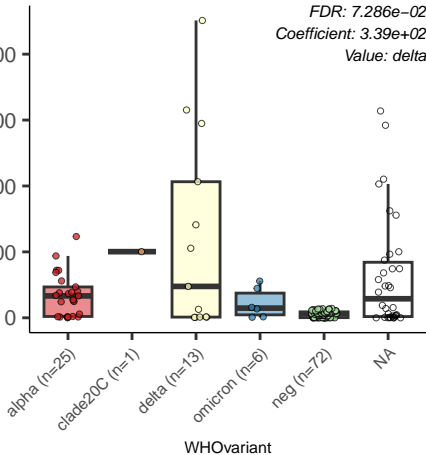


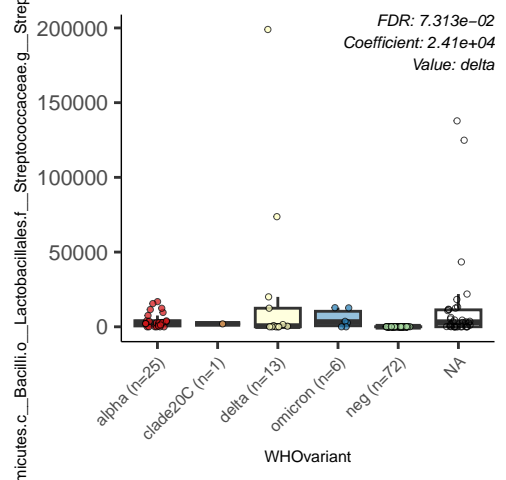
Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae



Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Enterococce

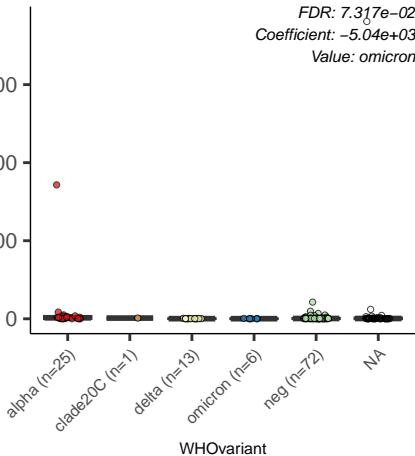
FDR: 7.286e-02
Coefficient: 3.39e+02
Value: delta

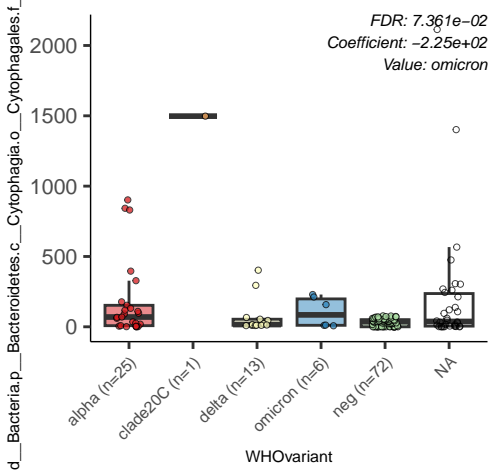




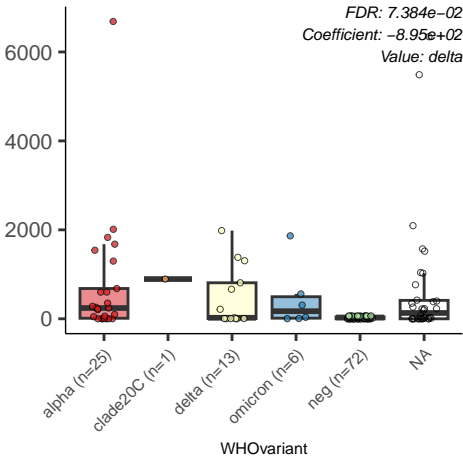
Actinomycetia.o__Corynebacteriales.f__Corynebacteriaceae.g__C

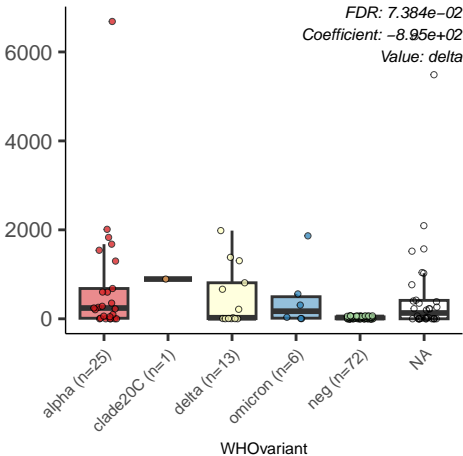
FDR: $7.317e-02$
Coefficient: $-5.04e+03$
Value: omicron



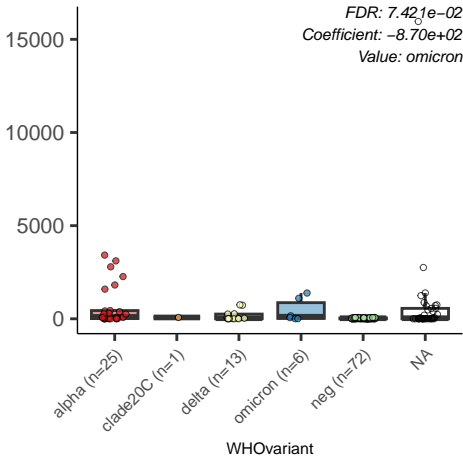


l.p__Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipe

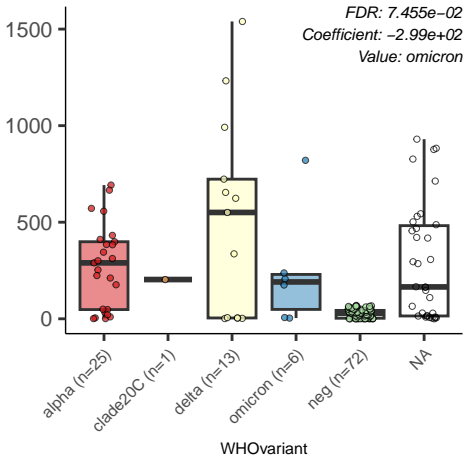




bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

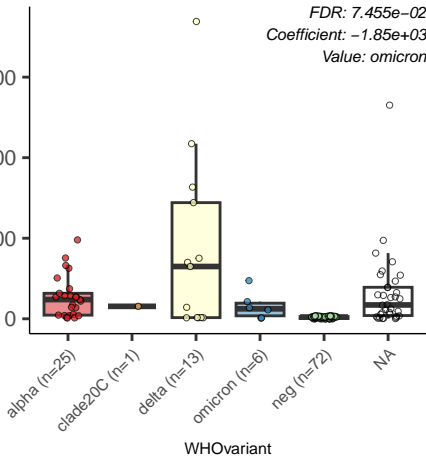


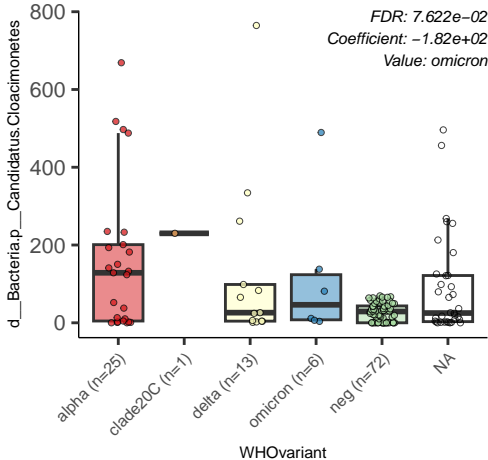
cteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Bac

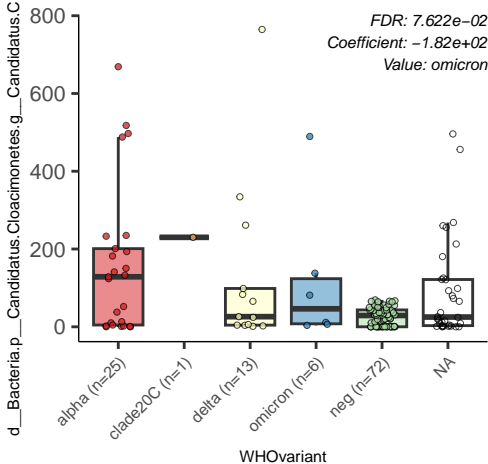


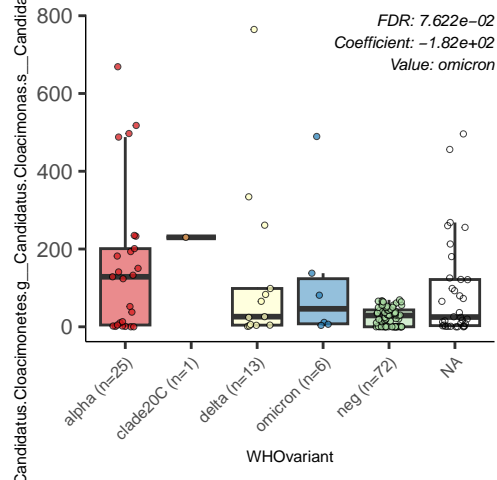
acteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Enterococcca

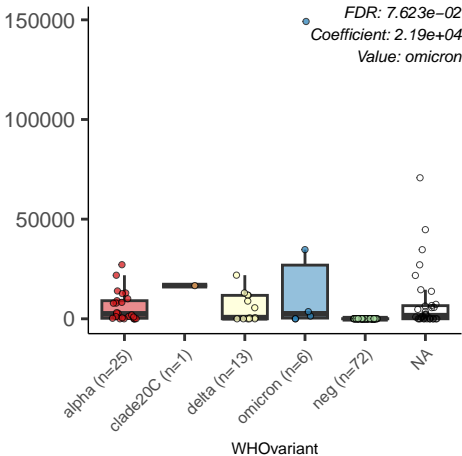
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Value: omicron

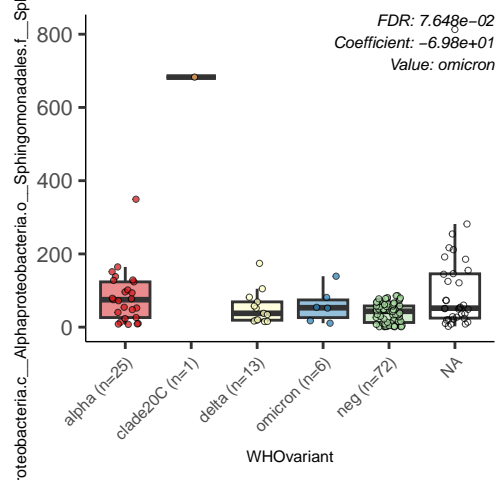






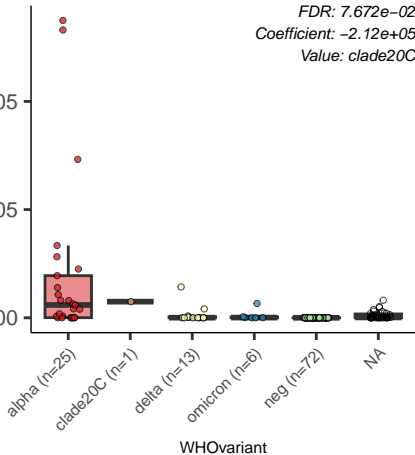


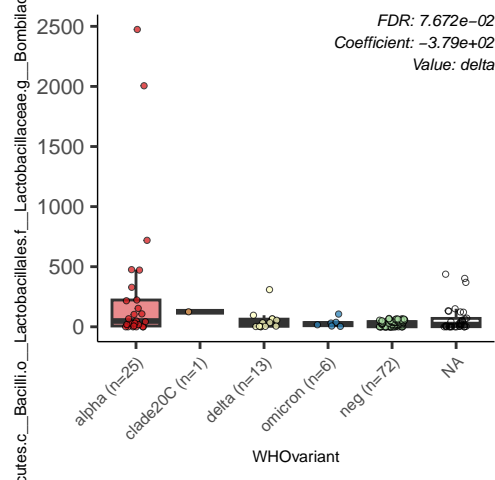


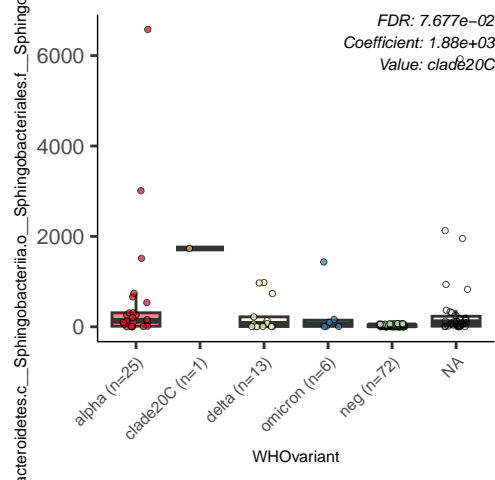


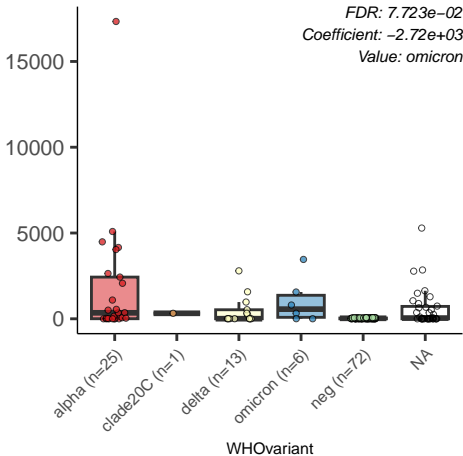
obacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae

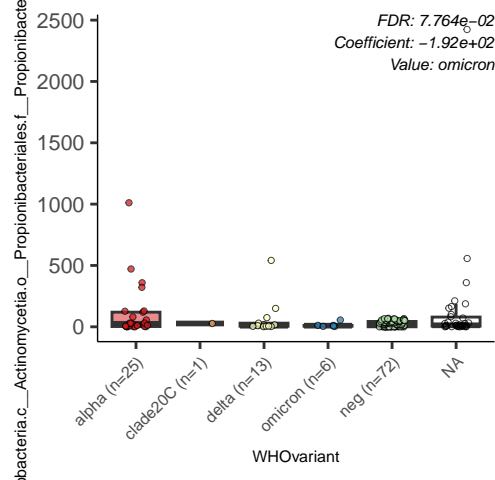
FDR: $7.672e-02$
Coefficient: $-2.12e+05$
Value: clade20C

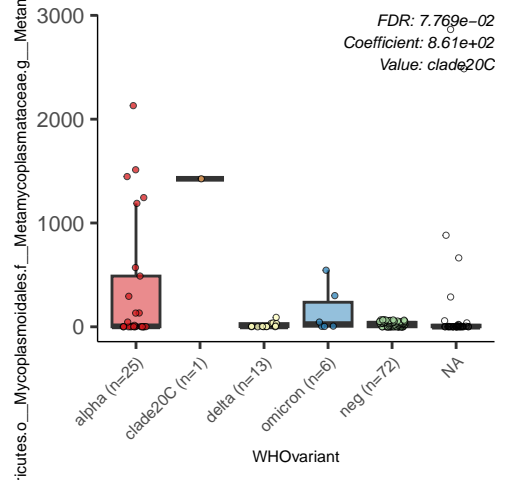






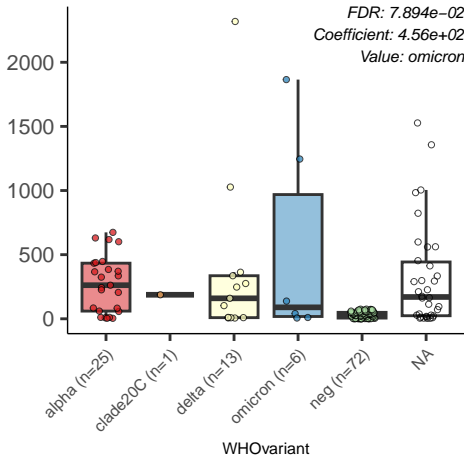






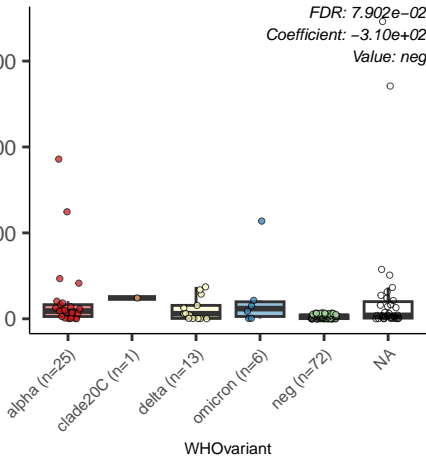
Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f

FDR: $7.894e-02$
Coefficient: $4.56e+02$
Value: omicron



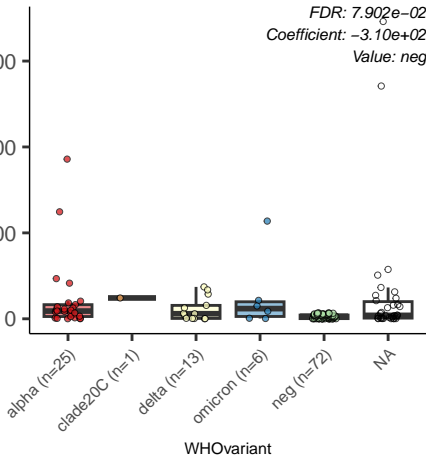
d_Bacteria.p__Nitrospirae.c__Nitrospira

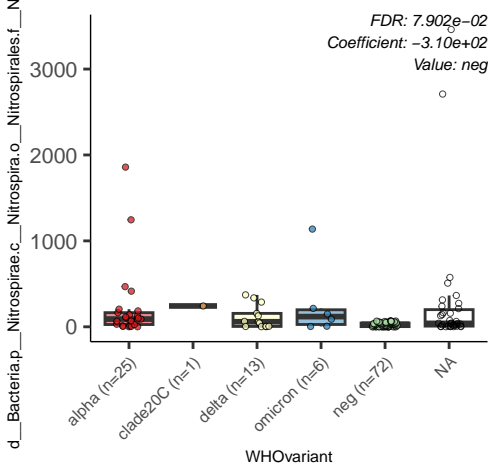
FDR: $7.902e-02$
Coefficient: $-3.10e+02$
Value: neg



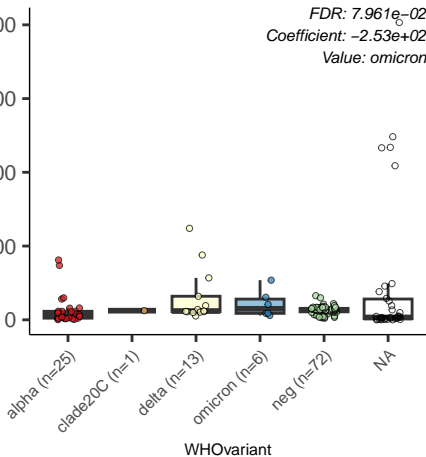
d__Bacteria.p__Nitrospirae.c__Nitrospira.o__Nitrospir

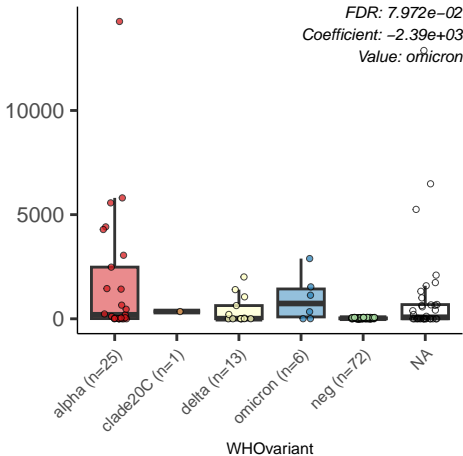
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Coefficient: $-3.10e+02$
Value: neg

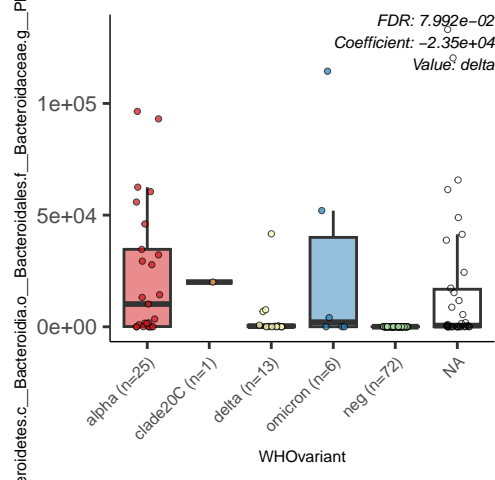




FDR: $7.961e-02$
 Coefficient: $-2.53e+02$
 Value: omicron

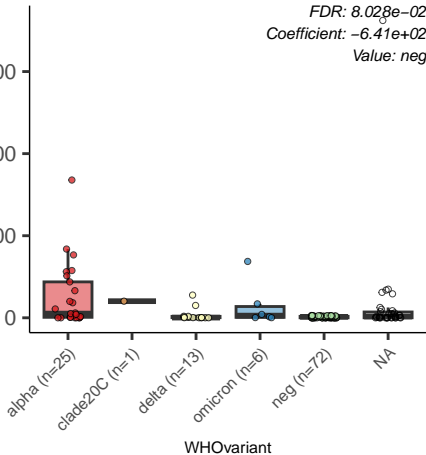






chaetes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g

FDR: $8.028e-02$
Coefficient: $-6.41e+02$
Value: neg



ia.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Acti

FDR: $8.028e-02$
Coefficient: $-3.77e+05$
Value: delta

$2e+06$

$1e+06$

$0e+00$

alpha (n=25)

clade20C (n=1)

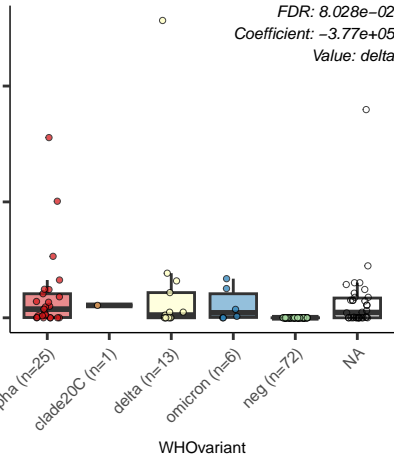
delta (n=13)

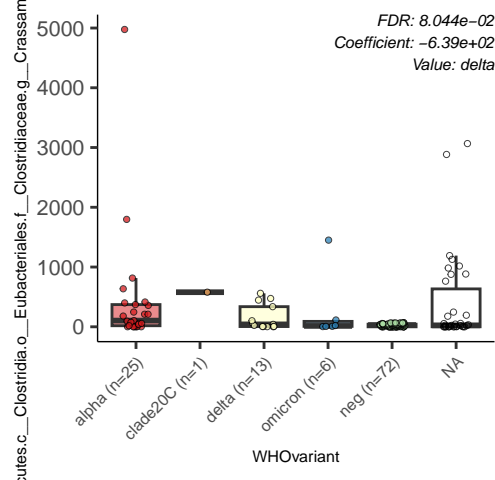
omicron (n=6)

neg (n=72)

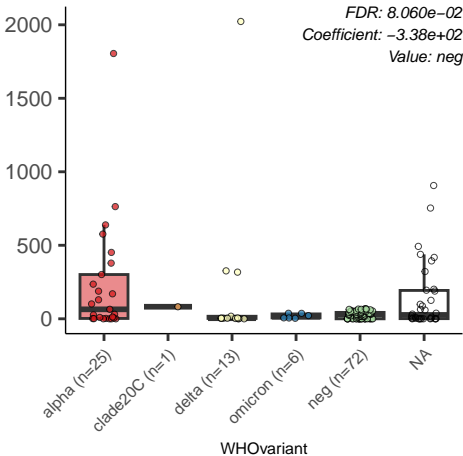
NA

WHOvariant

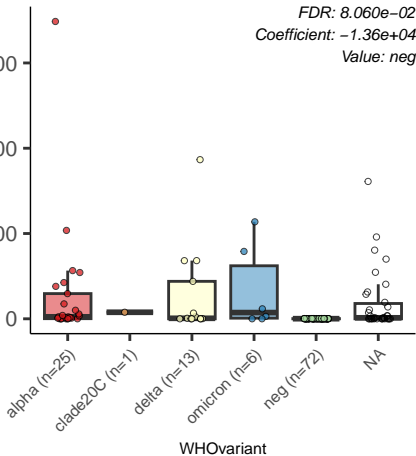




tes.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_CH

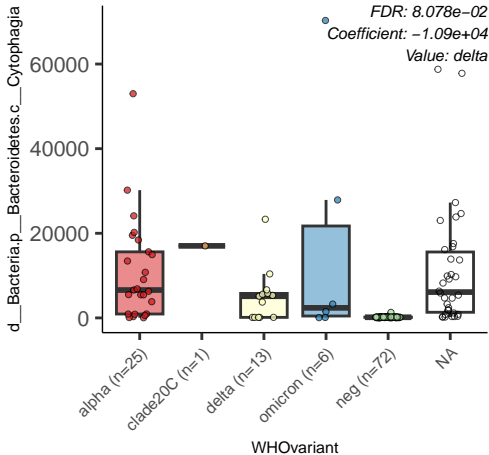


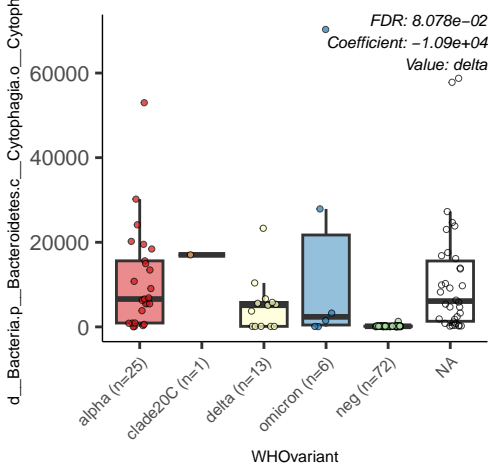
Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g__Se



NA

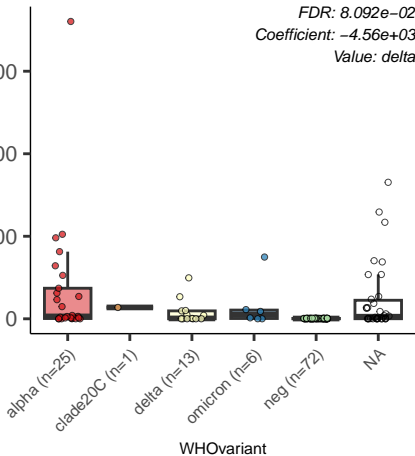
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Coefficient: -1.42e+03
Value: delta



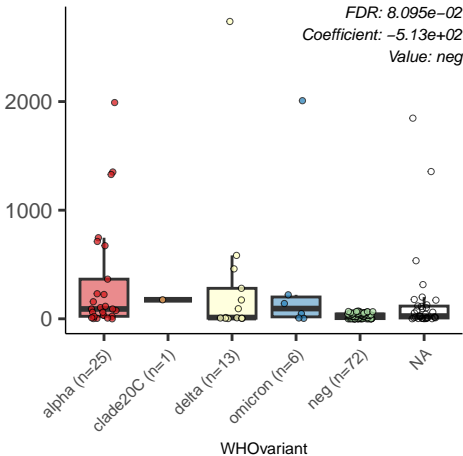


unicutes.c__Negativicutes.o__Veillonellales.f__Veillonellaceae.g__Me

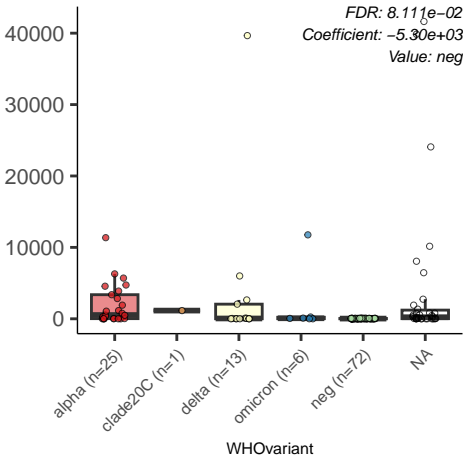
FDR: 8.092e-02
Coefficient: -4.56e+03
Value: delta

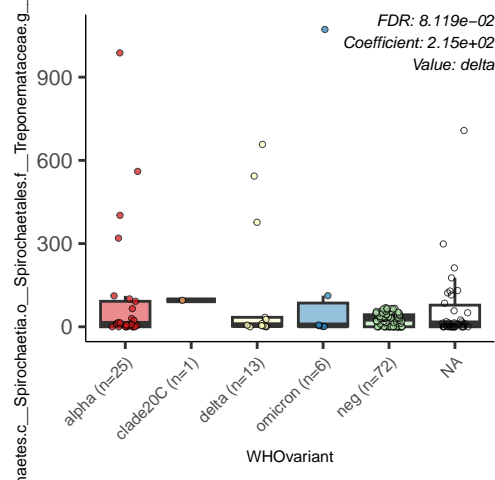


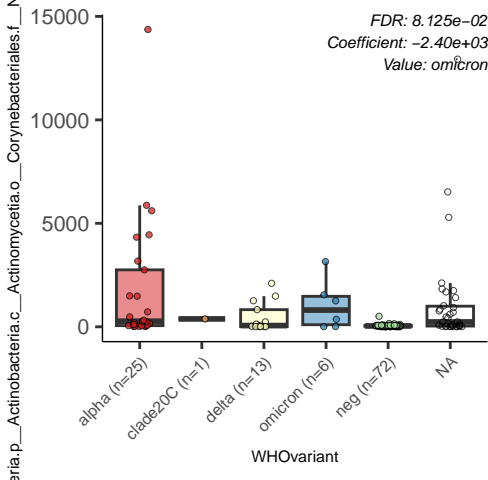
eria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae.g



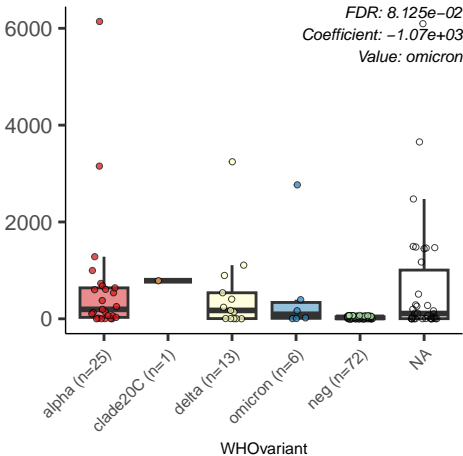
obacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae.





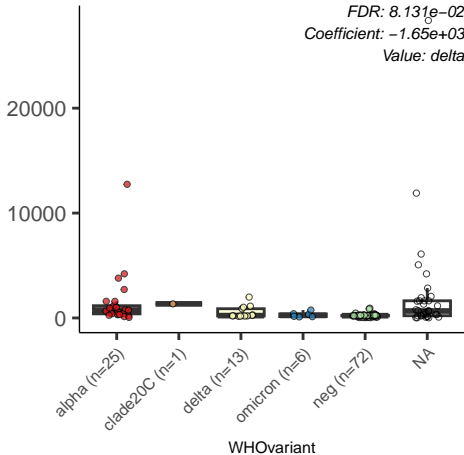


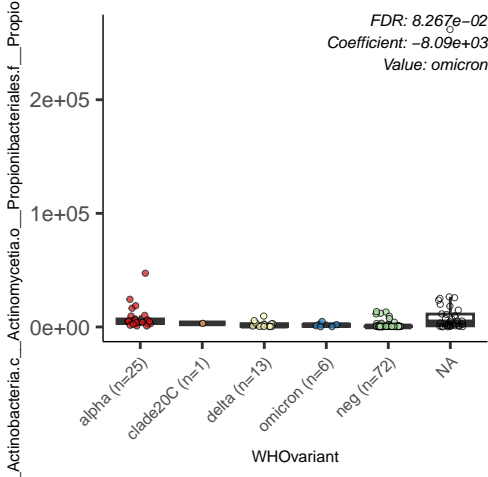
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteri

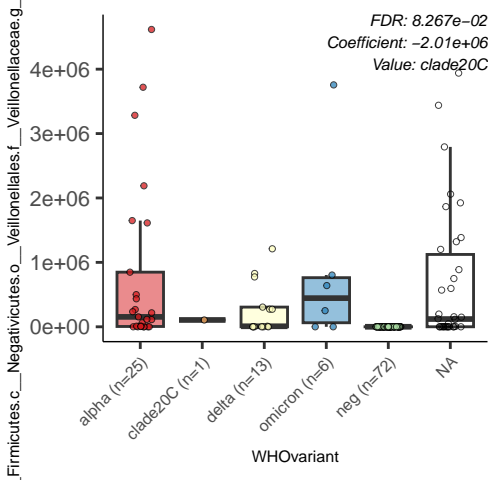


ria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Micro

FDR: 8.131e-02
Coefficient: -1.65e+03
Value: delta

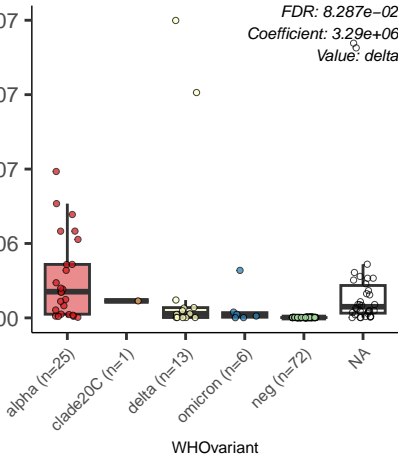


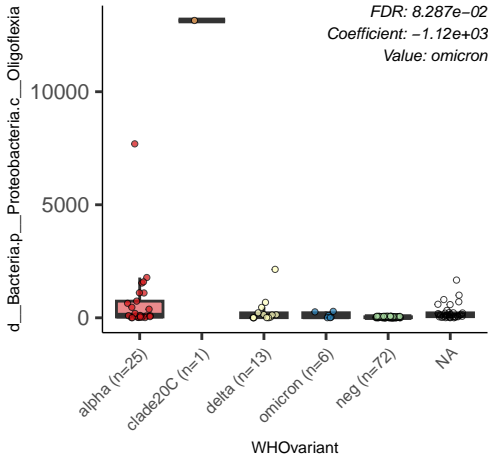


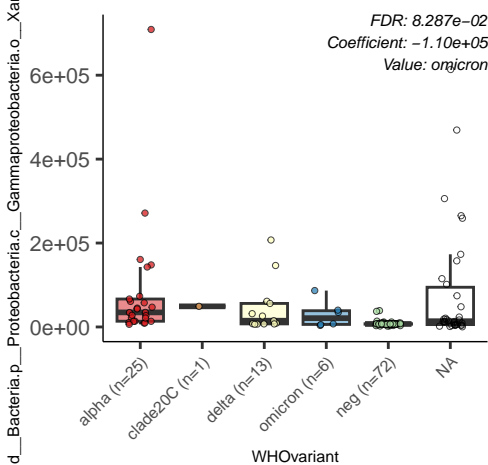


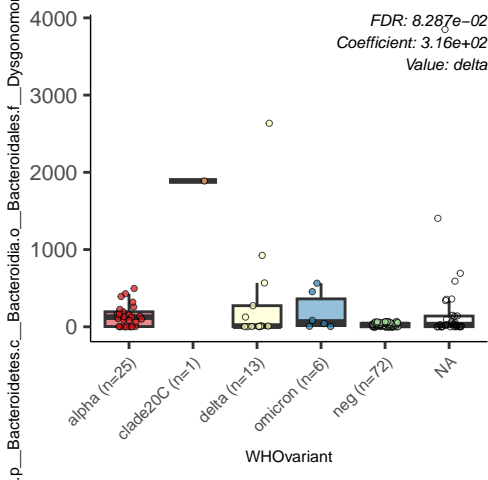
d_Bacteria.p_Proteobacteria

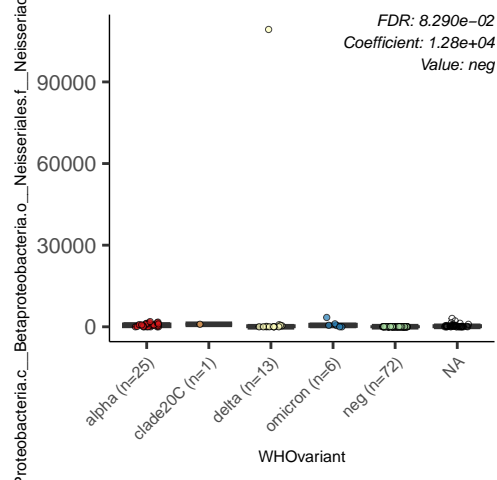
FDR: 8.287e-02
Coefficient: 3.29e+06
Value: delta





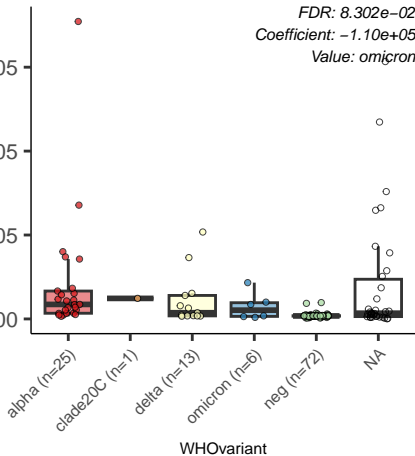


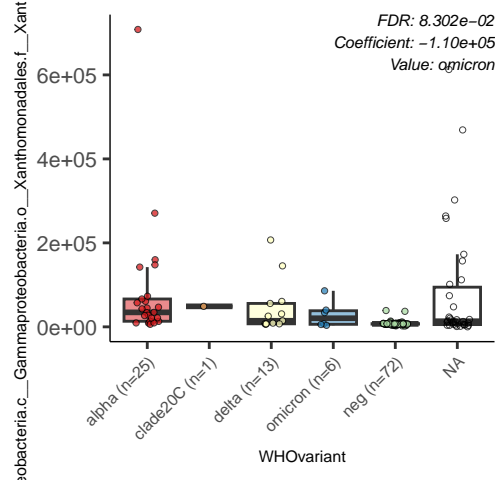




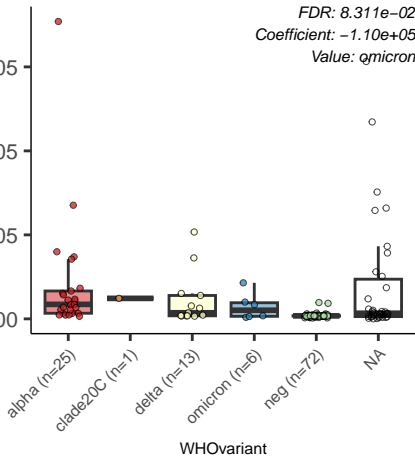
ria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonada

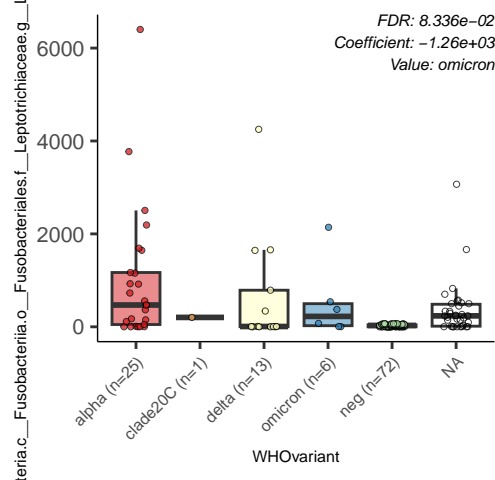
FDR: $8.302e-02$
Coefficient: $-1.10e+05$
Value: omicron

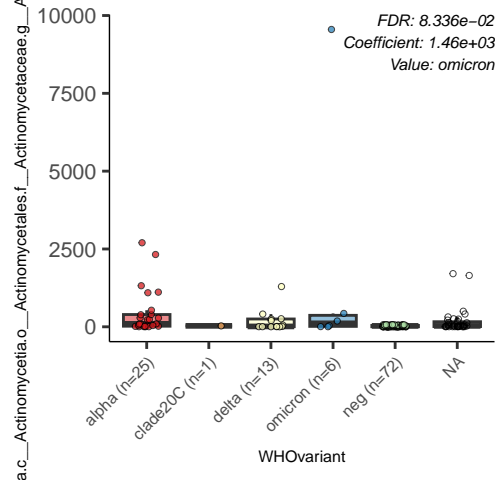


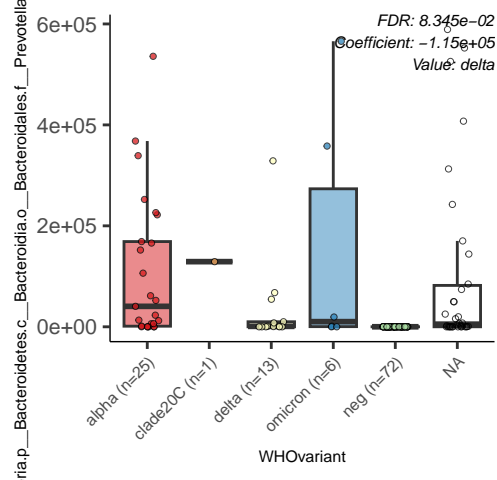


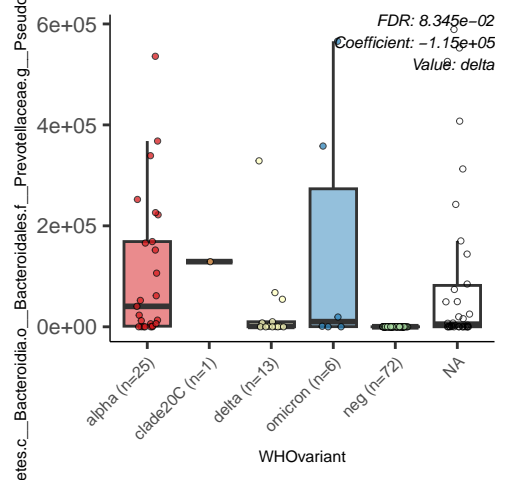
FDR: $8.311e-02$
Coefficient: $-1.10e+05$
Value: qmicron





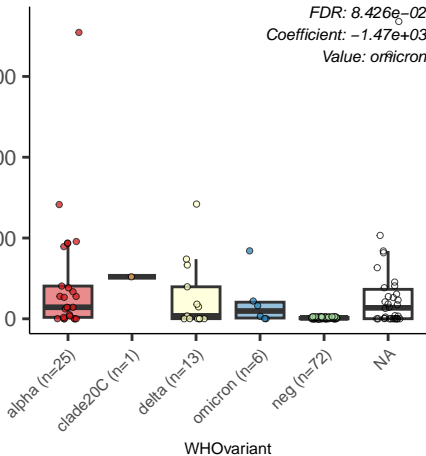


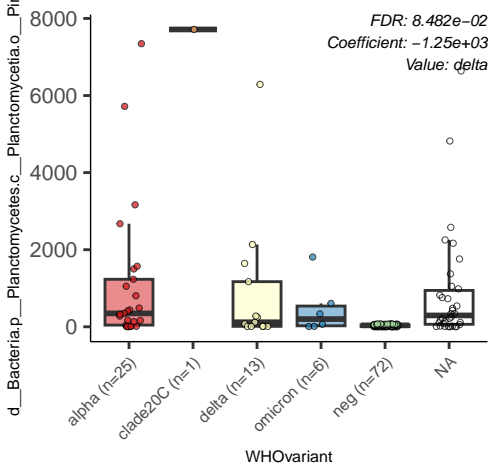


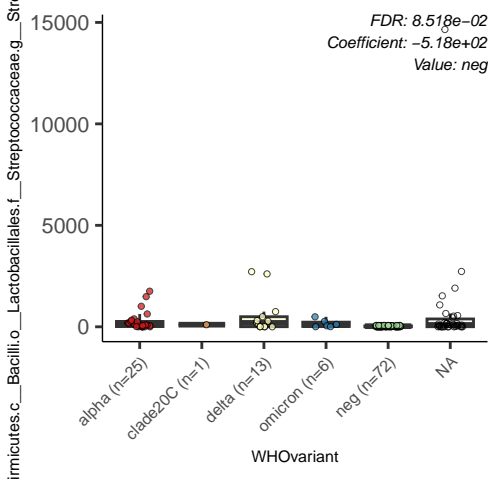


eria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__We

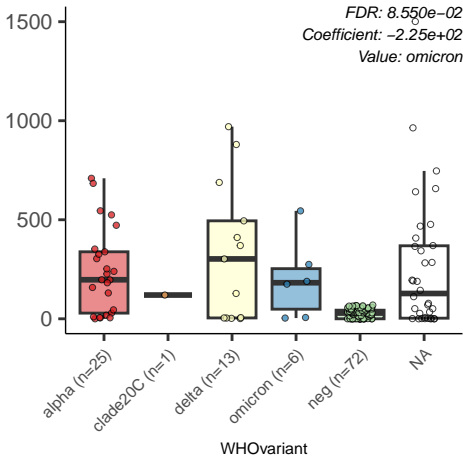
FDR: $8.426e-02$
Coefficient: $-1.47e+03$
Value: omicron







teria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Baci

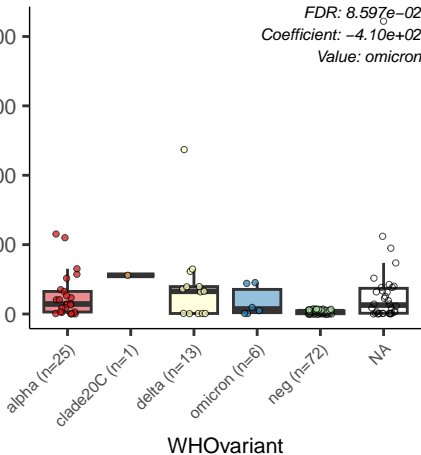


d_Bacteria.p_Aquificae

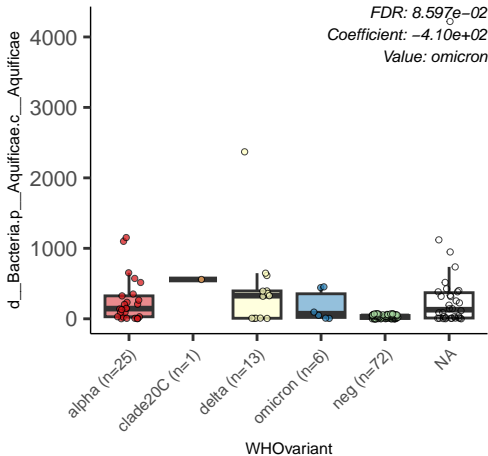
FDR: $8.597e-02$

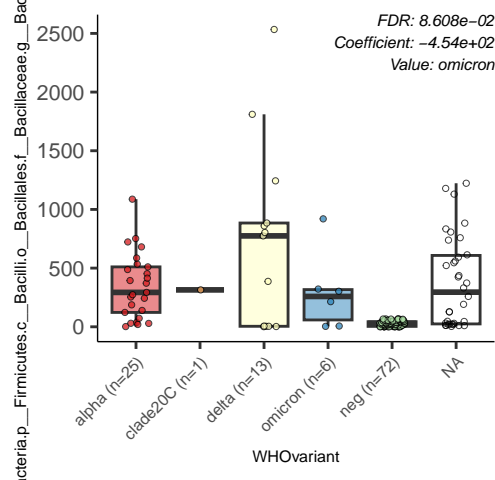
Coefficient: $-4.10e+02$

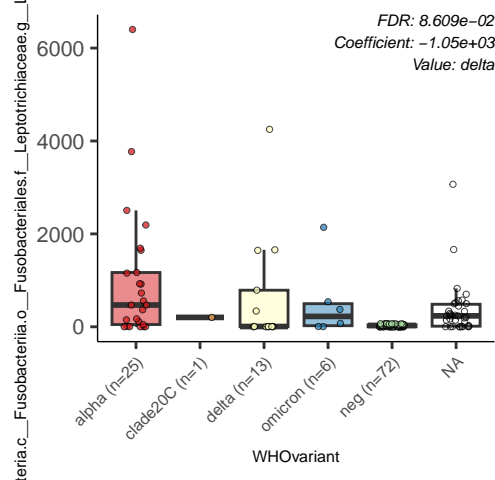
Value: omicron



WHOVariant

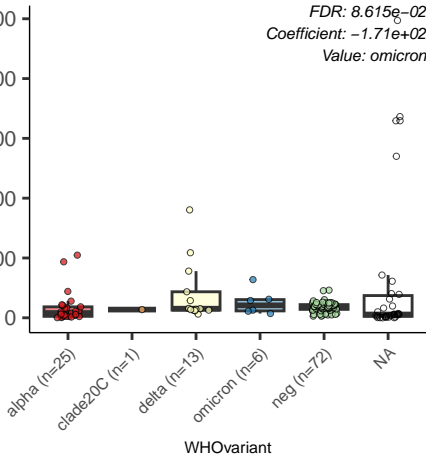


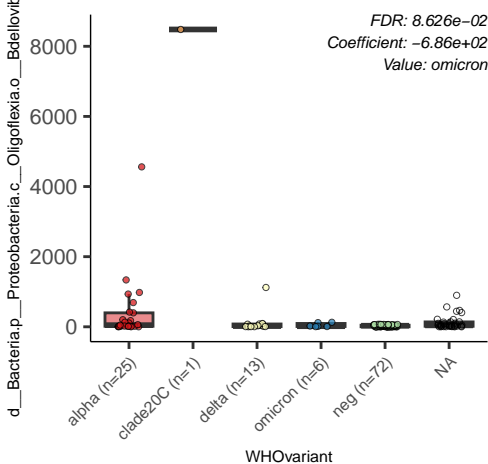


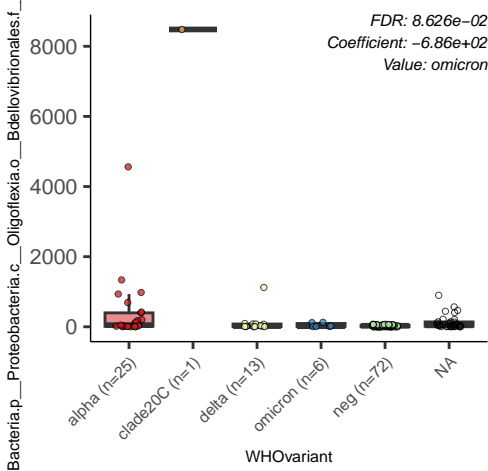


Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae

FDR: $8.615e-02$
Coefficient: $-1.71e+02$
Value: omicron

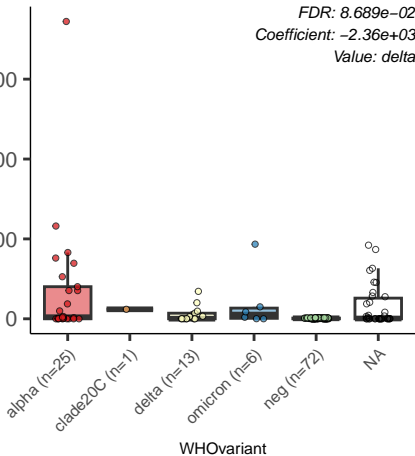


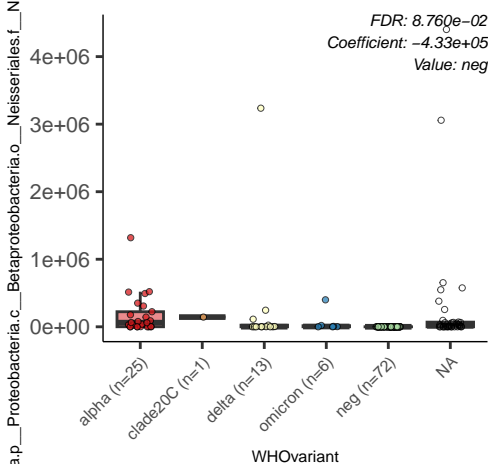




eroidetes.c__Cytophagia.o__Cytophagales.f__Cytophagaceae.g__S

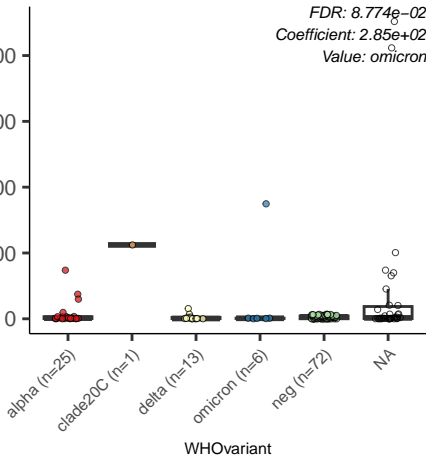
FDR: 8.689e-02
Coefficient: -2.36e+03
Value: delta



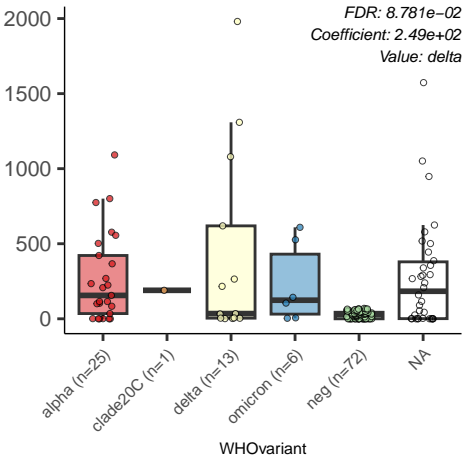


ococcus.Thermus.c_Deinococci.o_Thermales.f_Thermaceae.g

FDR: $8.774e-02$
Coefficient: $2.85e+02$
Value: omicron

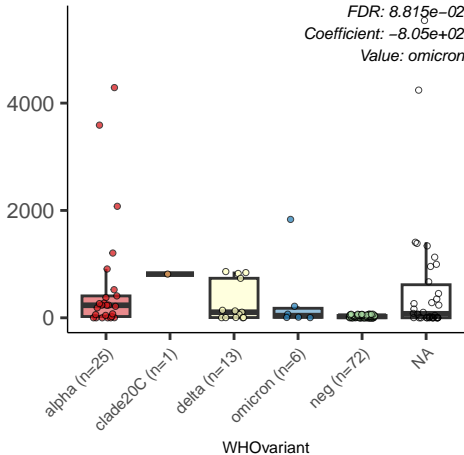


s.c._Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Streptococcus



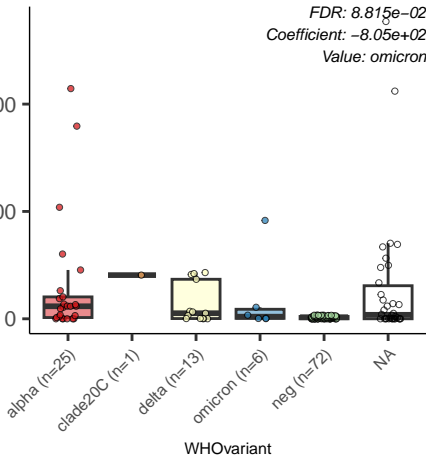
teria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Peptococcae

FDR: $8.815e-02$
Coefficient: $-8.05e+02$
Value: omicron



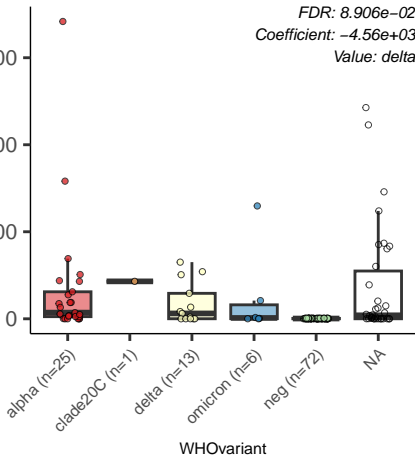
c__Clostridia.o__Eubacteriales.f__Peptococcaceae.g__Dehalobac

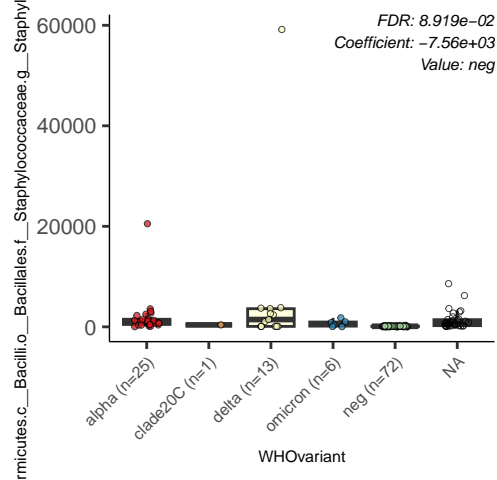
FDR: $8.815e-02$
Coefficient: $-8.05e+02$
Value: omicron



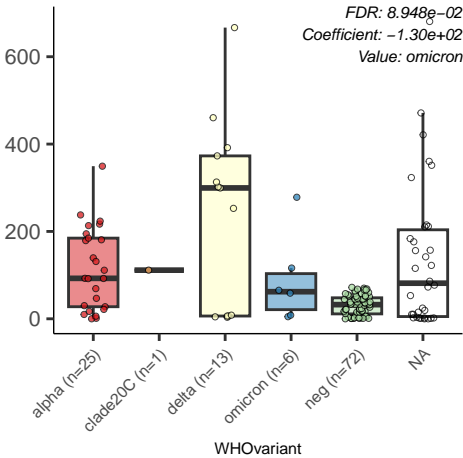
Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family

FDR: $8.906e-02$
Coefficient: $-4.56e+03$
Value: delta



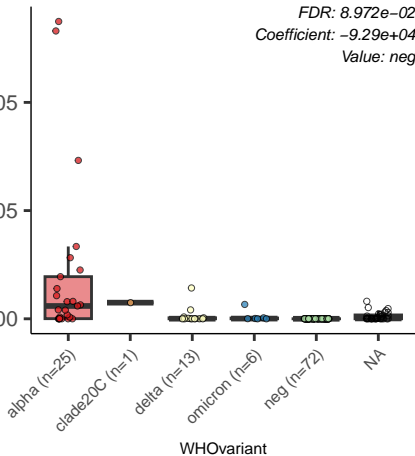


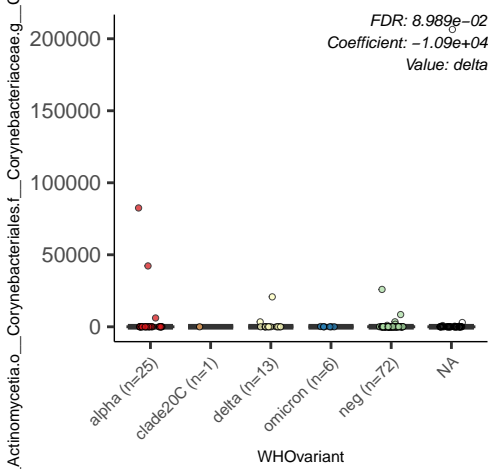
_Firmicutes.c__Bacilli.o__Bacillales.f__Paenibacillaceae.g__Paeniba

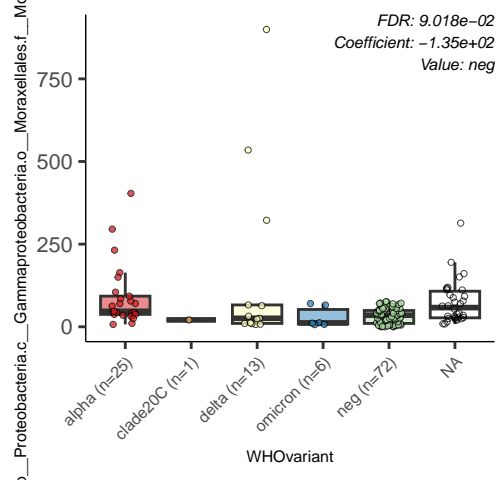


obacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae

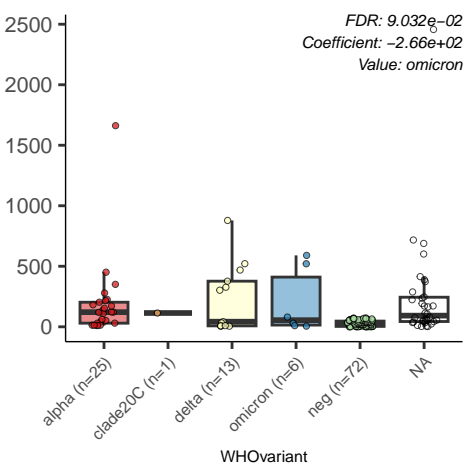
FDR: $8.972e-02$
Coefficient: $-9.29e+04$
Value: neg







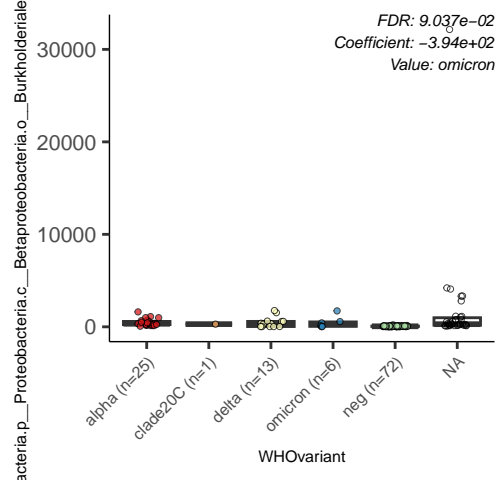
acteroidetes.c__Spingobacteria.o__Spingobacteriales.f__Sping



FDR: 9.032e-02

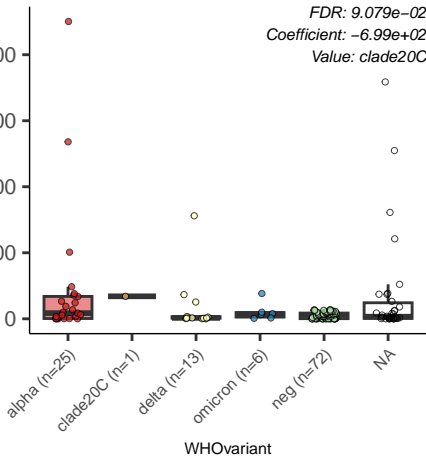
Coefficient: $-2.66e+02$

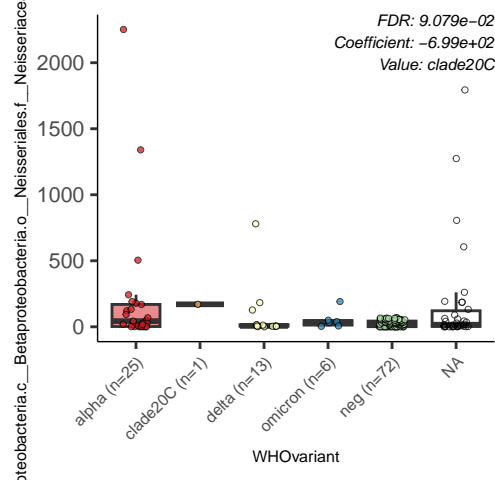
Value: omicron



ria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__N

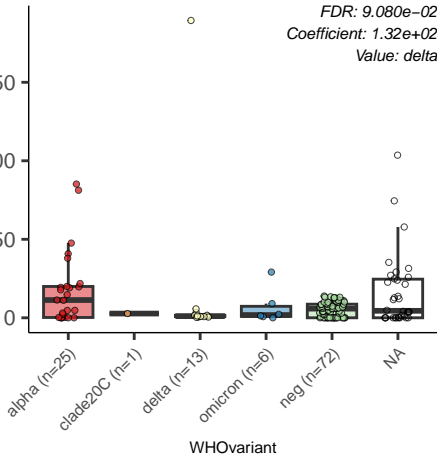
FDR: 9.079e-02
Coefficient: -6.99e+02
Value: clade20C

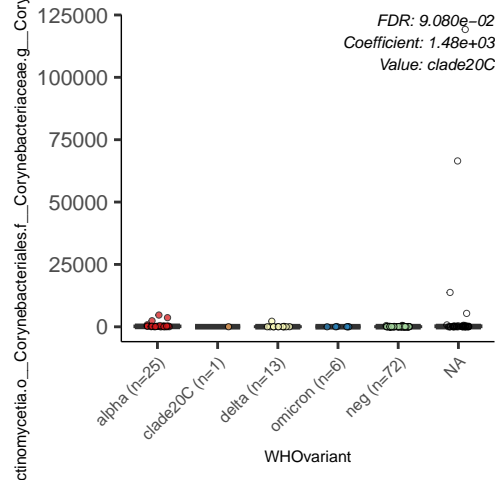


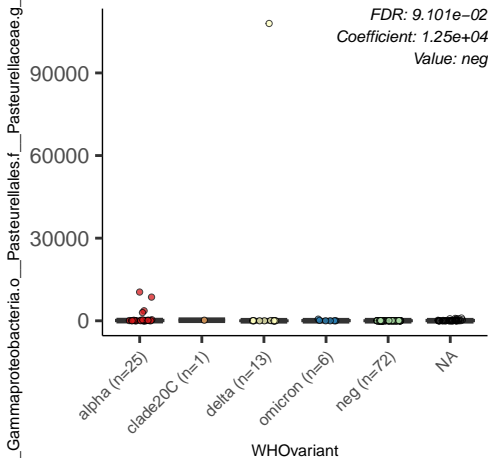


teria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae

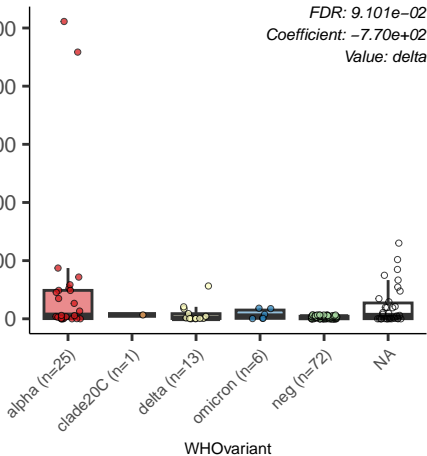
FDR: $9.080e-02$
Coefficient: $1.32e+02$
Value: delta





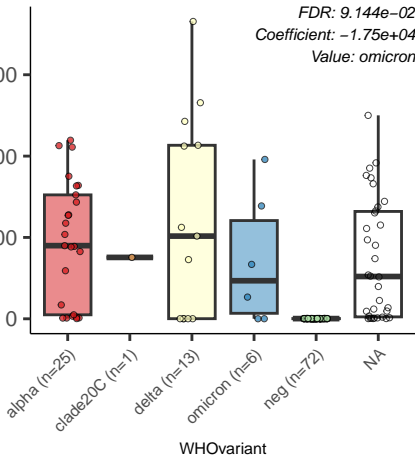


utes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Medite

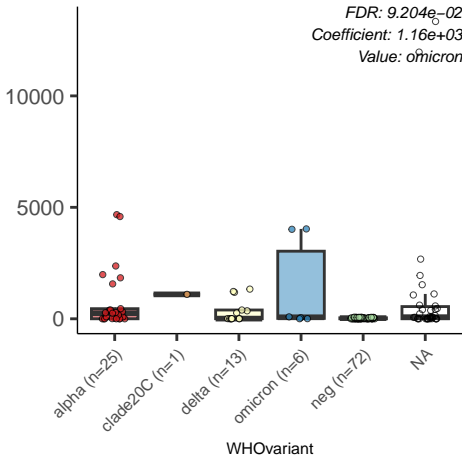


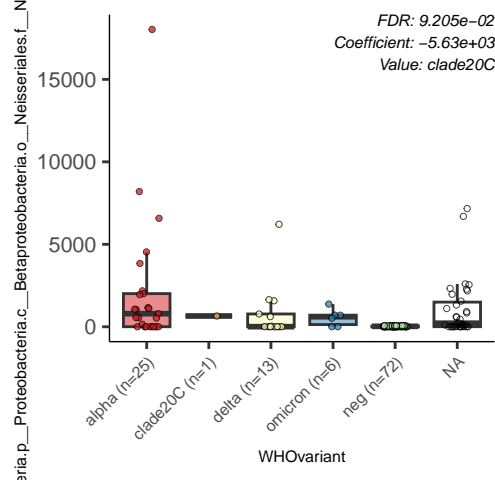
eria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonada

FDR: $9.144e-02$
Coefficient: $-1.75e+04$
Value: omicron



FDR: $9.204e-02$
Coefficient: $1.16e+03$
Value: omicron

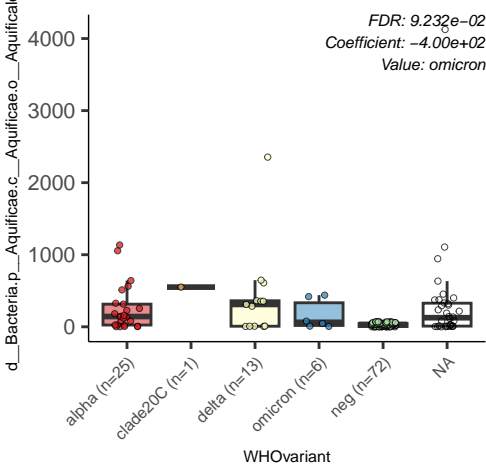


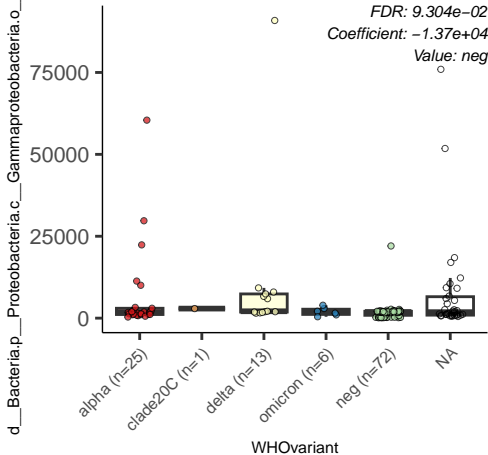


FDR: 9.232e-02

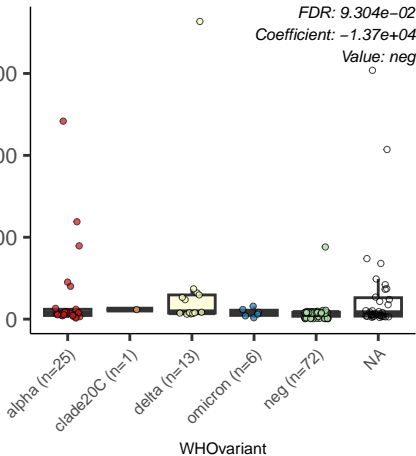
Coefficient: $-4.00e+02$

Value: omicron

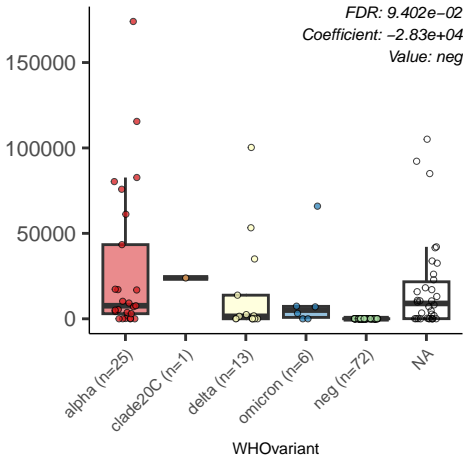


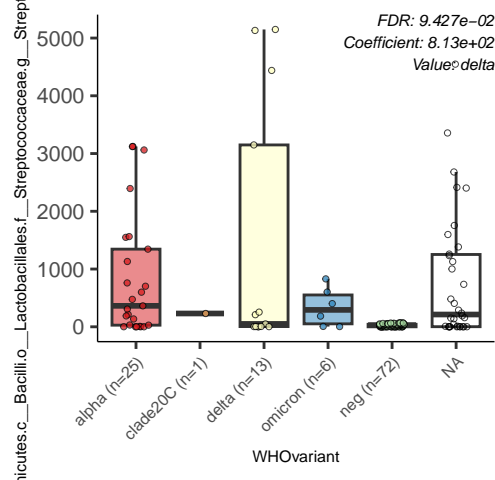


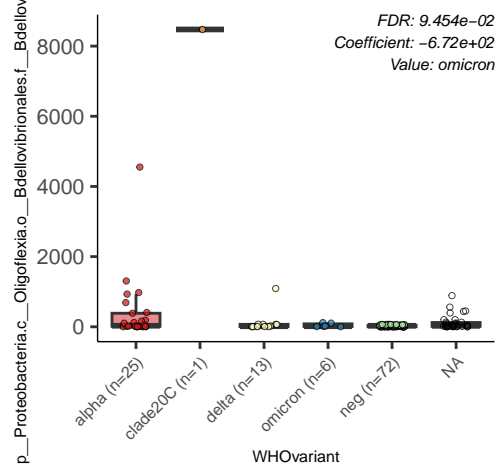
Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Moraxella

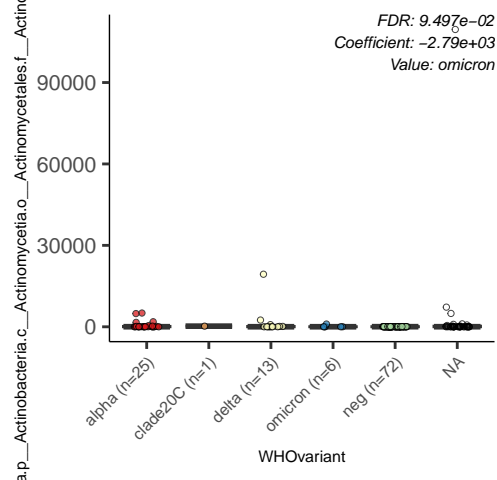


cutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strepto



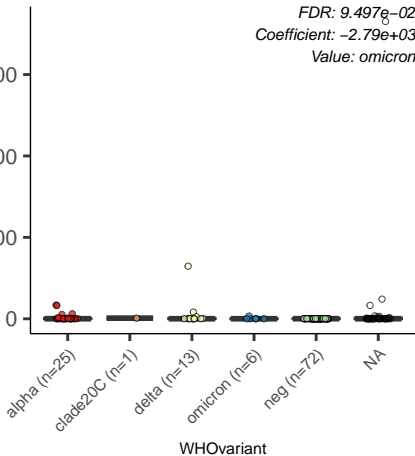


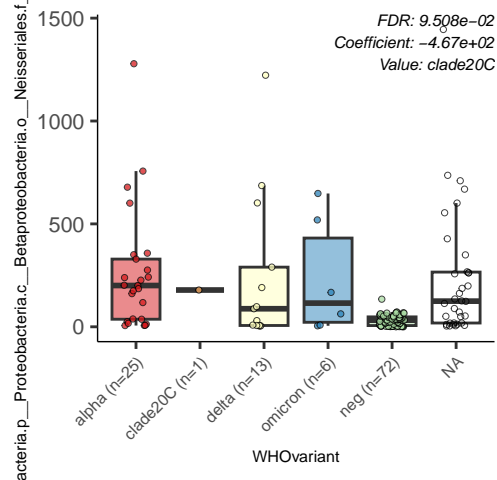


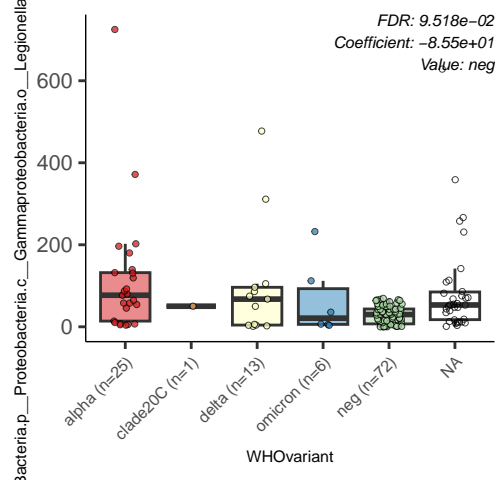


bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

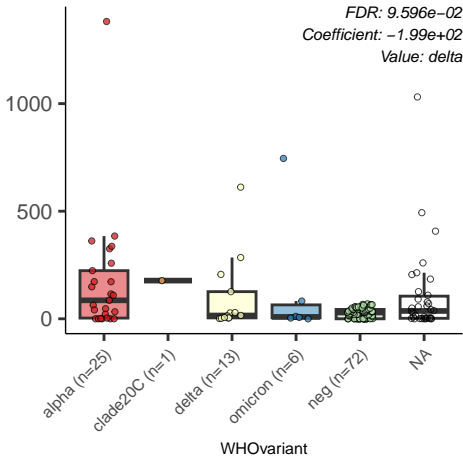
FDR: 9.497×10^{-2}
Coefficient: -2.79×10^3
Value: omicron





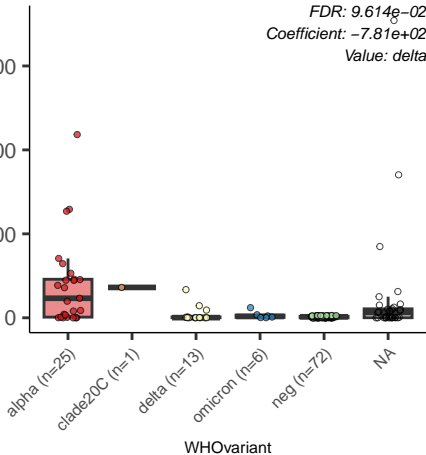


s.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Lachnoclostridium



obacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae

FDR: $9.614e-02$
Coefficient: $-7.81e+02$
Value: delta



FDR: $9.669e-02$
Coefficient: $1.54e+02$
Value: delta

1000

500

0

alpha (n=25)

clade20C (n=1)

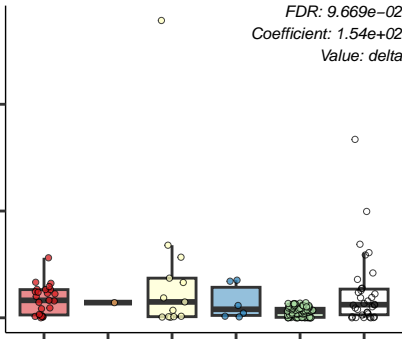
delta (n=13)

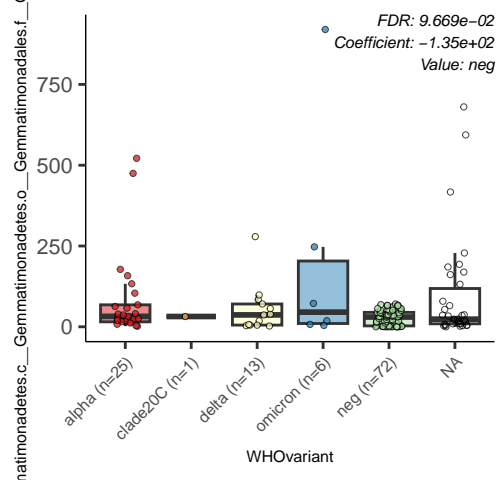
omicron (n=6)

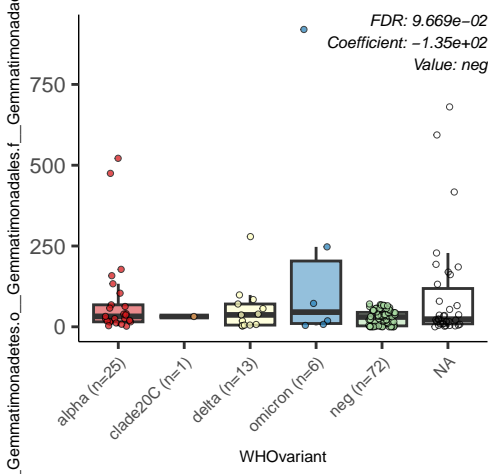
neg (n=72)

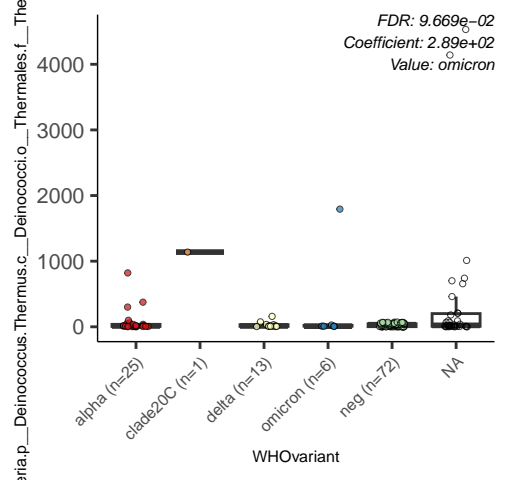
NA

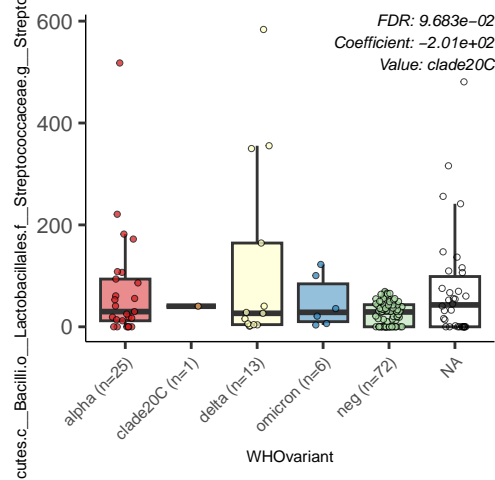
WHOvariant











d_Archaea

FDR: $9.687e-02$

Coefficient: $-1.80e+02$

Value: neg

1000

500

0

alpha (n=25)

clade20C (n=1)

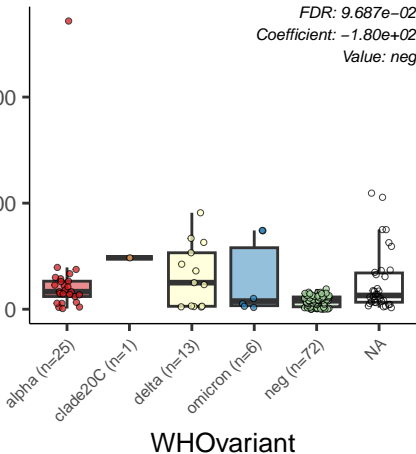
delta (n=13)

omicron (n=6)

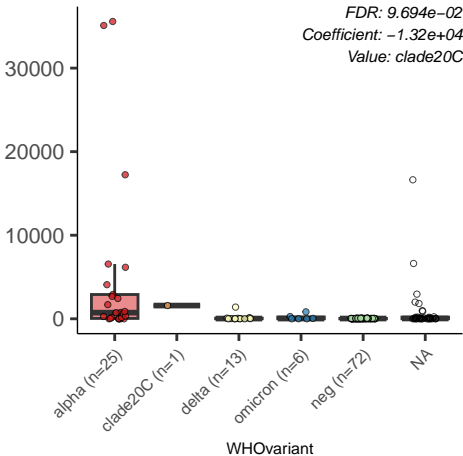
neg (n=72)

NA

WHOvariant

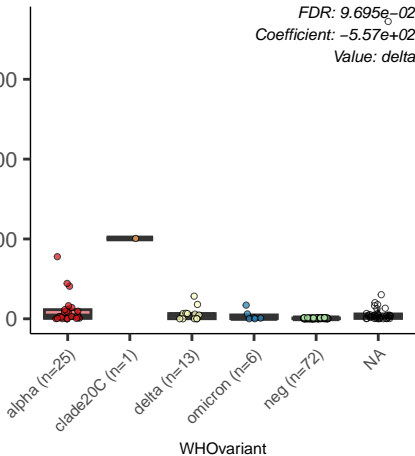


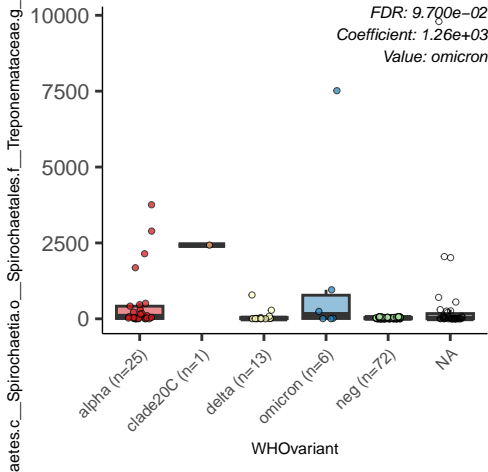
...: __Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacter

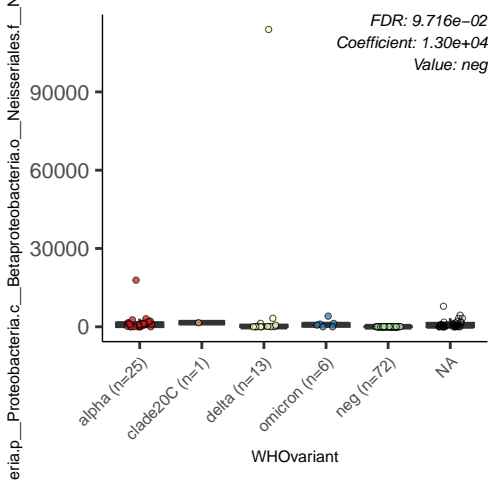


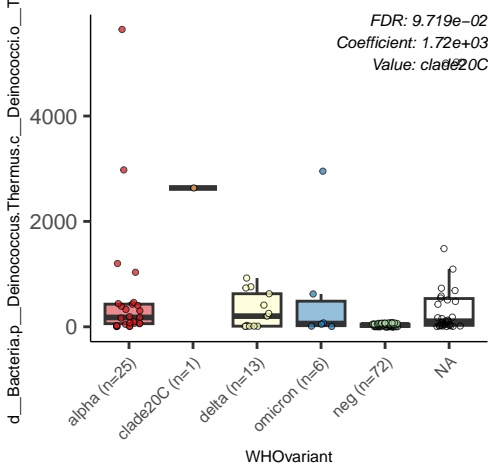
ria.p__Proteobacteria.c__Epsilonproteobacteria.o__Campylobacter

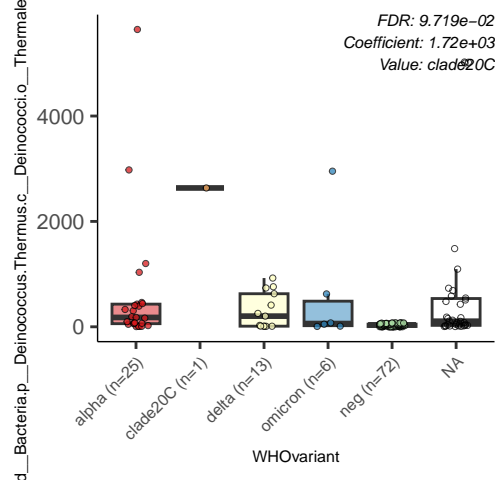
$FDR: 9.695e-02$
 $Coefficient: -5.57e+02$
 $Value: delta$



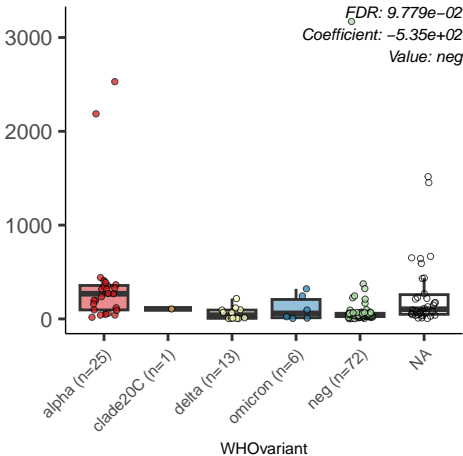




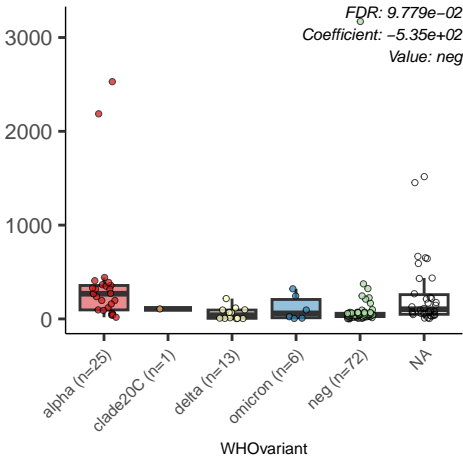




bacteria.p_Firmicutes.c_Tissierellia.o_Tissierellales.f_Peptoniph

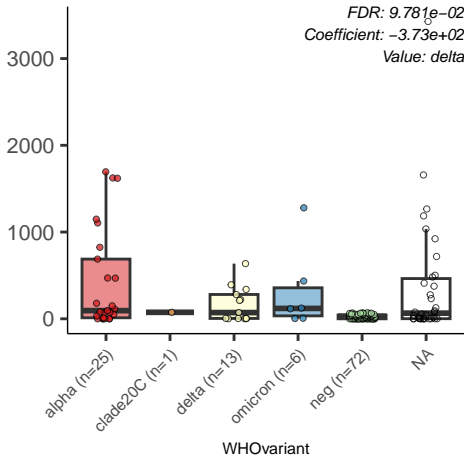


Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g

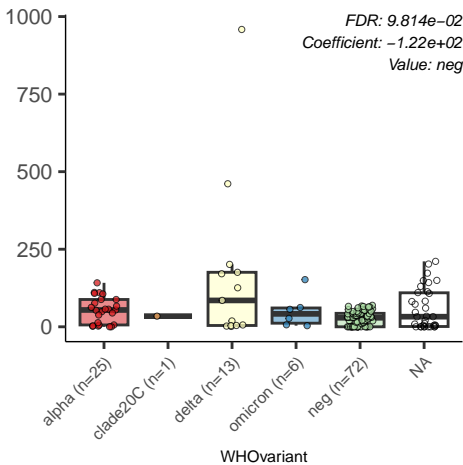


Firmicutes.c__Negativicutes.o__Acidaminococcales.f__Acidaminino

FDR: $9.781e-02$
Coefficient: $-3.73e+02$
Value: delta

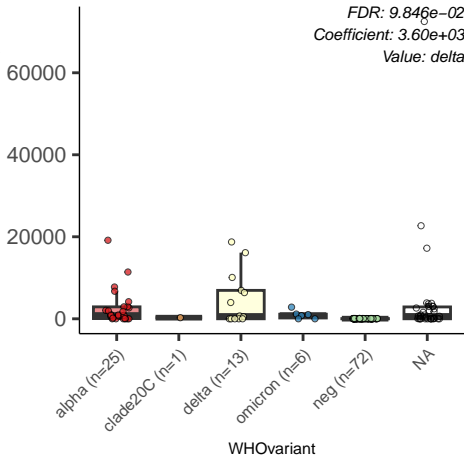


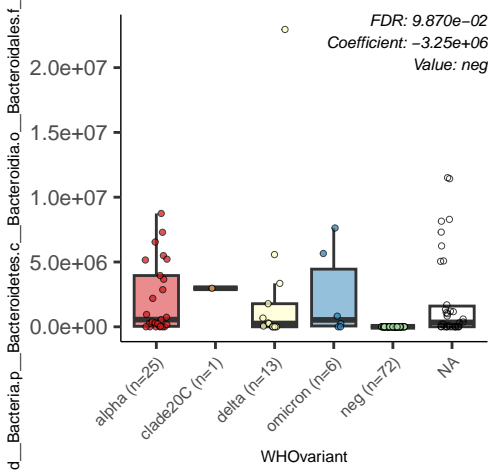
micutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Ligilac

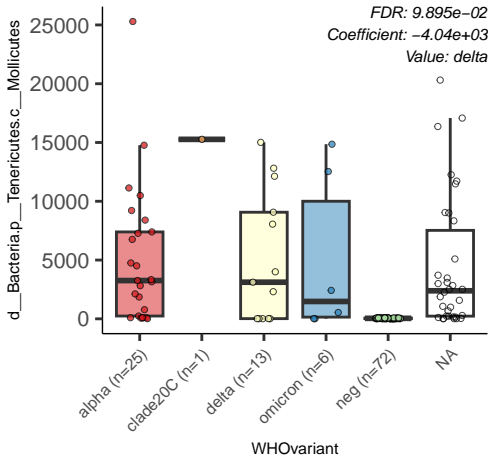


nicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

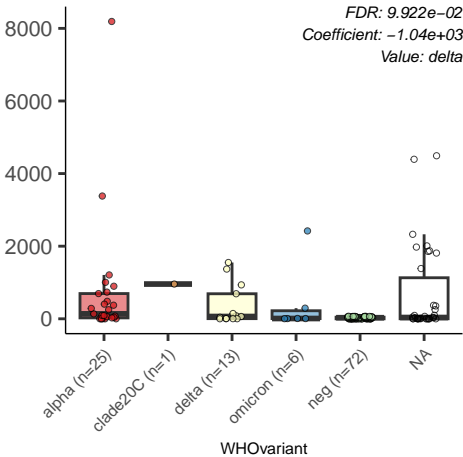
FDR: $9.846e-02$
Coefficient: $3.60e+03$
Value: delta







s.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Ince



d_Bacteria.p_Armatimonadetes.c_Fimbrimonadia.o_Fimb

FDR: $9.960e-02$
Coefficient: $-9.09e+01$
Value: omicron

400
200
0

alpha (n=25)

clade20C (n=1)

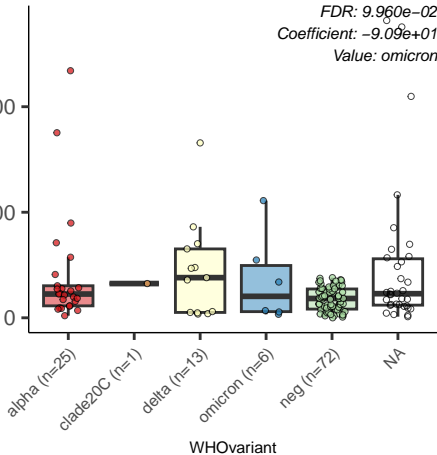
delta (n=13)

omicron (n=6)

neg (n=72)

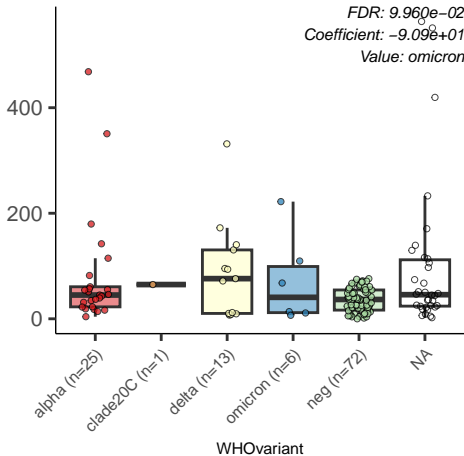
NA

WHOvariant



cteria.p_Armatimonadetes.c_Fimbrimonadia.o_Fimbrimonadale

FDR: 9.960×10^{-2}
Coefficient: -9.09×10^1
Value: omicron



tes.c__Fimbrimonadia.o__Fimbrimonadales.f__Fimbrimonadaceae

FDR: $9.960e-02$
Coefficient: $-9.09e+01$
Value: omicron

400
200
0

alpha (n=25)

clade20C (n=1)

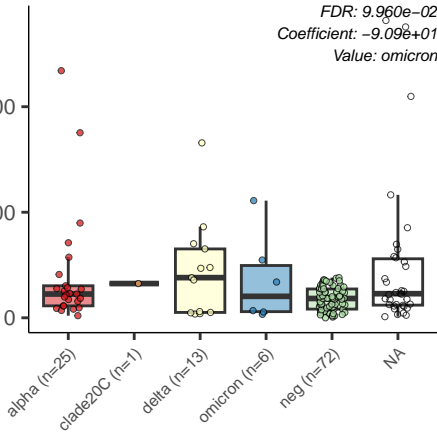
delta (n=13)

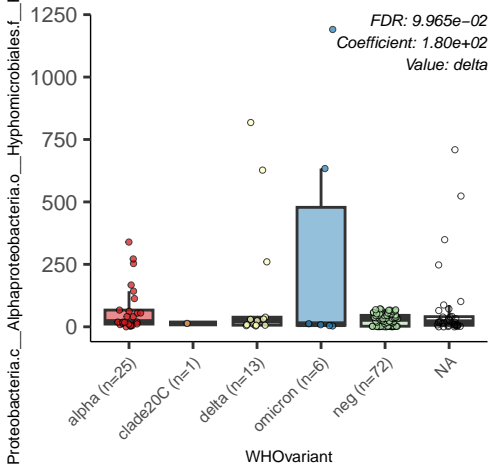
omicron (n=6)

neg (n=72)

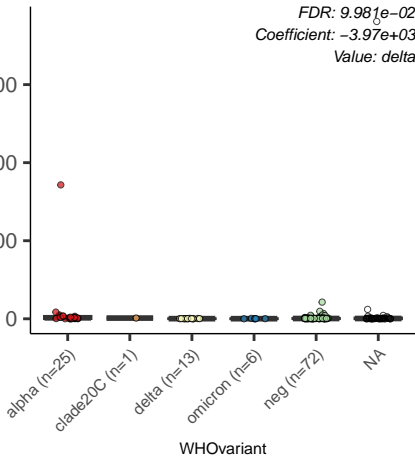
NA

WHOvariant



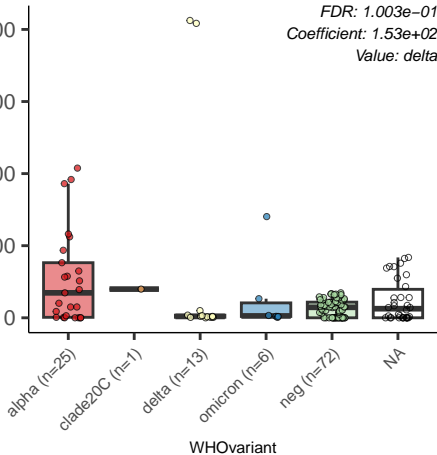


FDR: $9.981e-02$
Coefficient: $-3.97e+03$
Value: delta



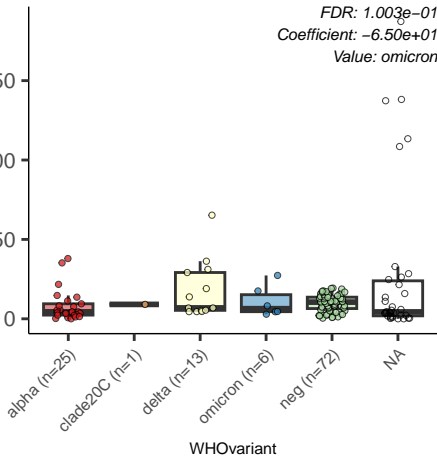
Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pa

FDR: 1.003e-01
Coefficient: 1.53e+02
Value: delta



acteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae

FDR: $1.003e-01$
Coefficient: $-6.50e+01$
Value: omicron



d__Bacteria.p__Actinobacteria.c__Acidimicrobiia

FDR: $1.004e-01$
Coefficient: $-1.86e+02$
Value: omicron

1000

500

0

alpha (n=25)

clade20C (n=1)

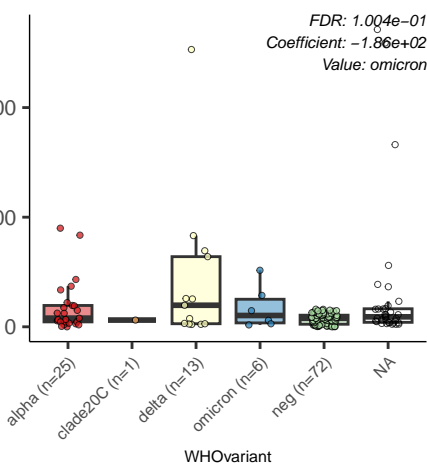
delta (n=13)

omicron (n=6)

neg (n=72)

NA

WHOvariant



d_Bacteria.p_Actinobacteria.c_Acidimicrobia.o_Acidimicrobia.p

1000

500

0

alpha (n=25)

clade20C (n=1)

delta (n=13)

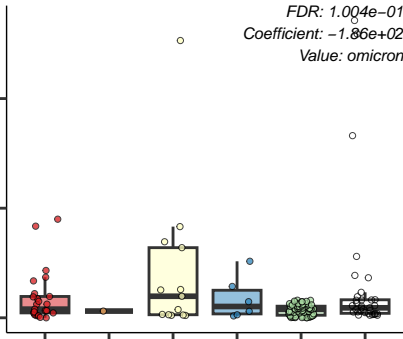
omicron (n=6)

neg (n=72)

NA

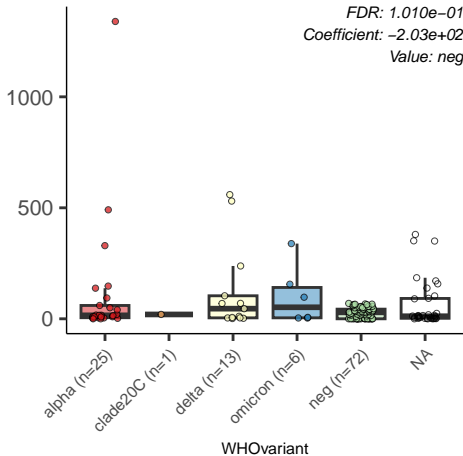
WHOvariant

FDR: $1.004e-01$
Coefficient: $-1.86e+02$
Value: omicron

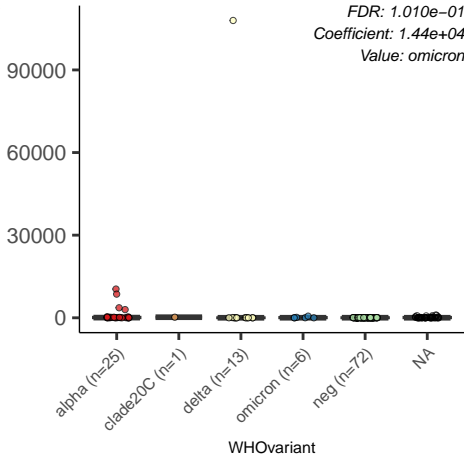


d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g

FDR: 1.010e-01
Coefficient: -2.03e+02
Value: neg

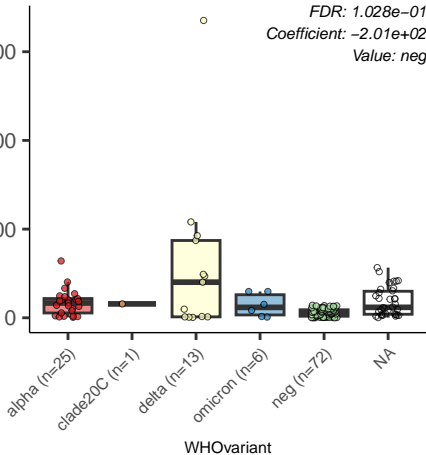


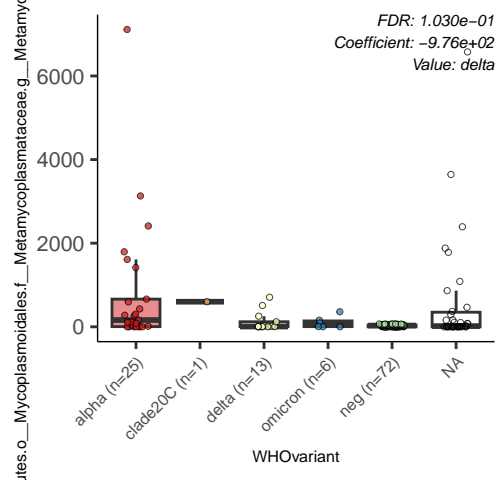
Value: omicron

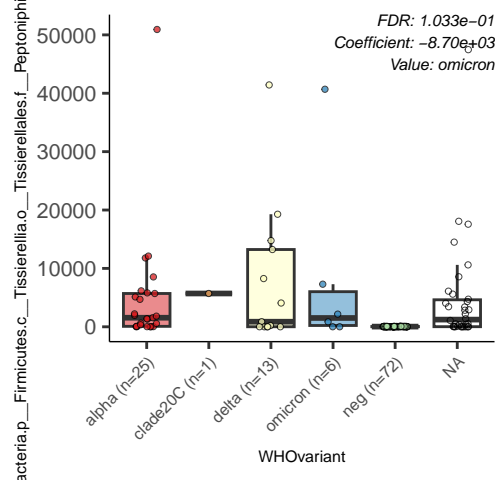


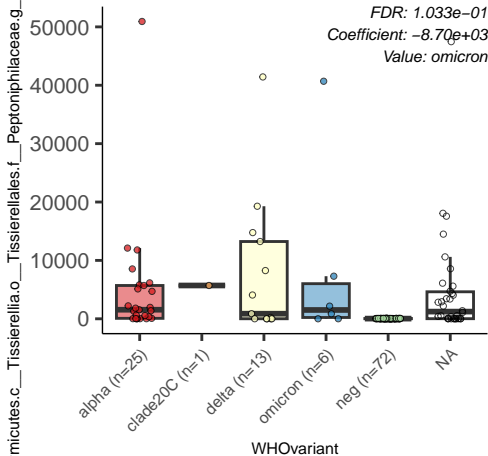
bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Lactobacillaceae

FDR: 1.028e-01
Coefficient: -2.01e+02
Value: neg

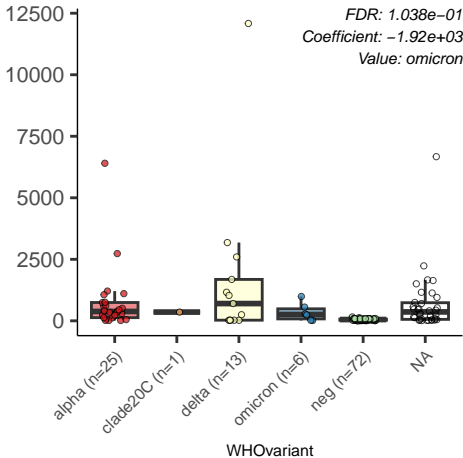


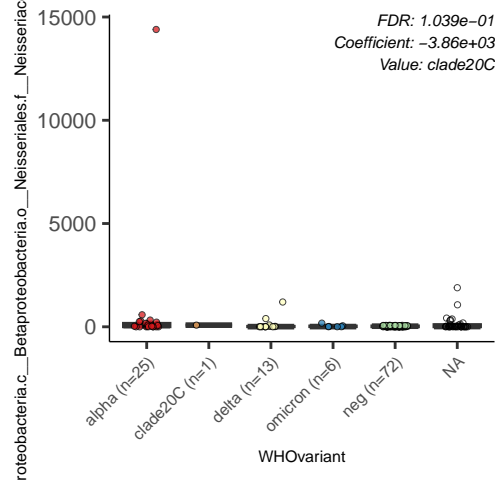






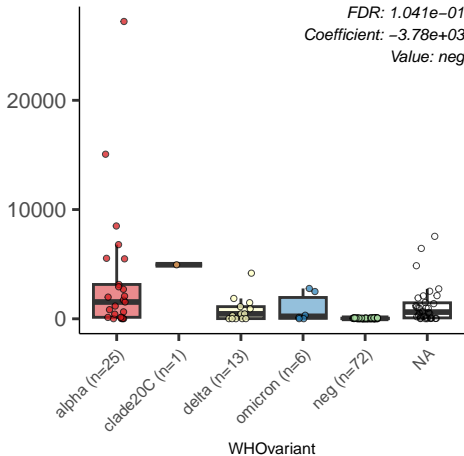
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f__Streptococ

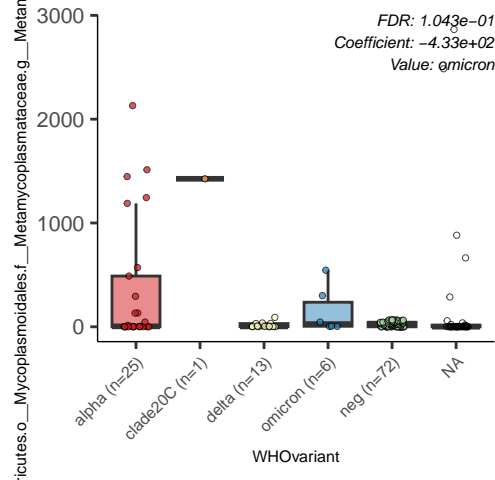


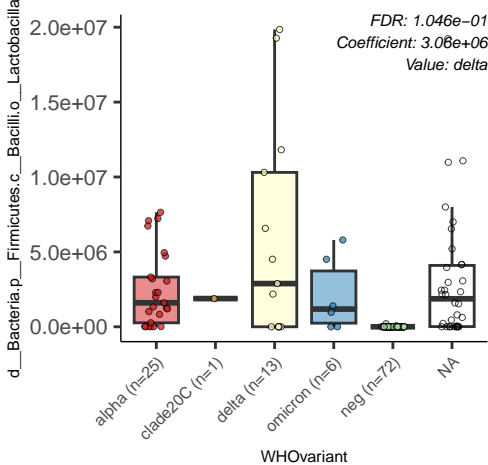


d__Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alti

FDR: 1.041e-01
Coefficient: -3.78e+03
Value: neg

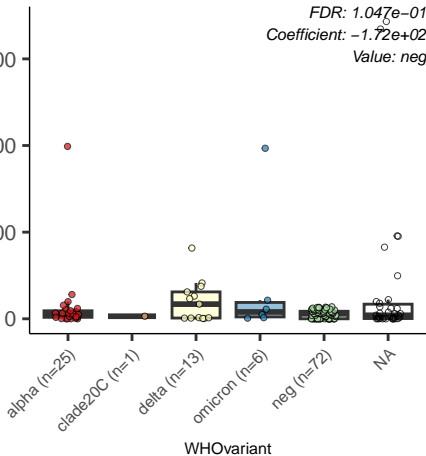






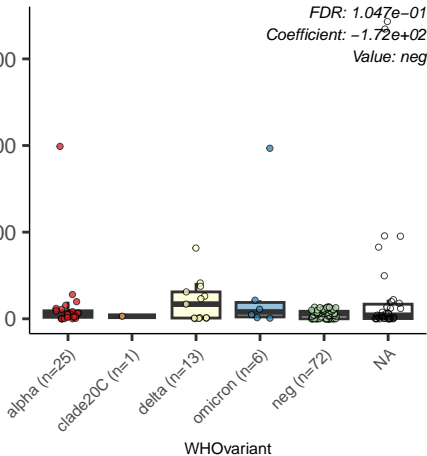
ia.p_Actinobacteria.c_Coriobacteriia.o_Eggerthellales.f_Egger

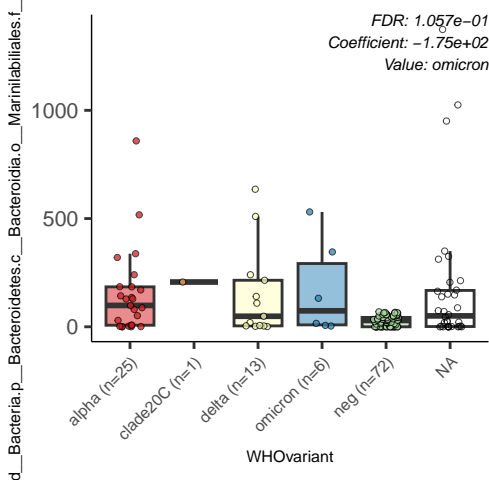
FDR: 1.047×10^{-1}
Coefficient: -1.72×10^2
Value: neg

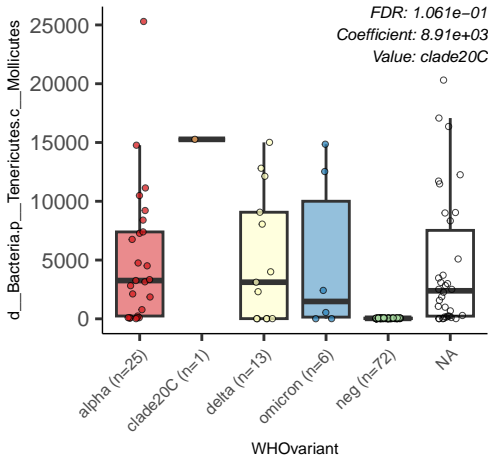


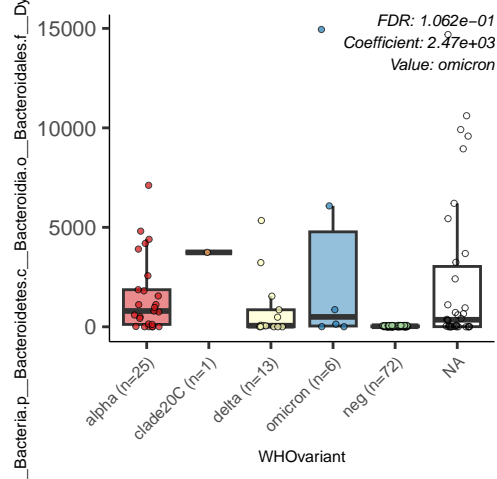
bacteria.c__Coriobacteriia.o__Eggerthellales.f__Eggerthellaceae.g

FDR: $1.047\text{e-}01$
Coefficient: $-1.72\text{e+}02$
Value: neg



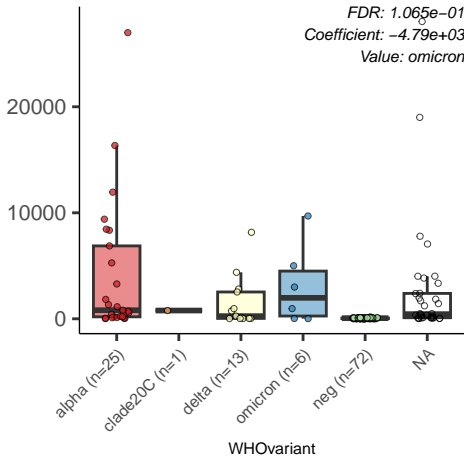




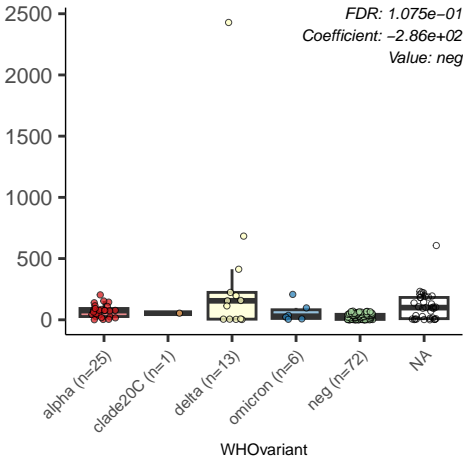


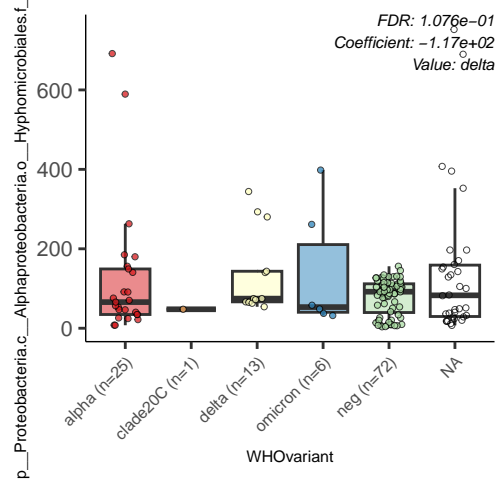
p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Microb

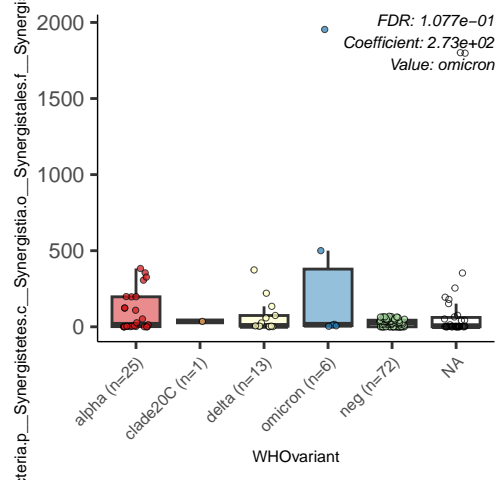
FDR: $1.065e-01$
Coefficient: $-4.79e+03$
Value: omicron

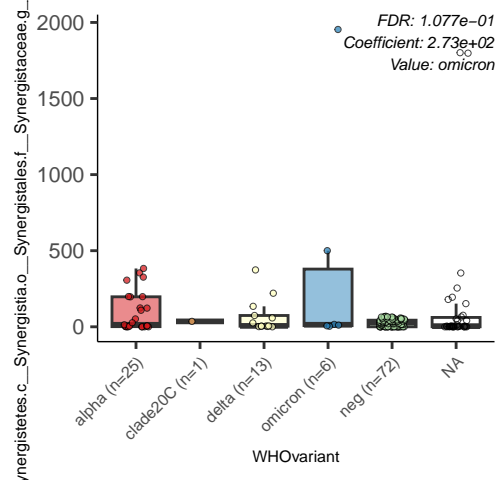


Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Planococcaceae

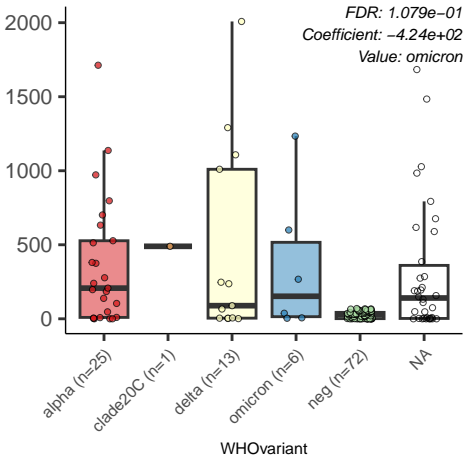








acteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae

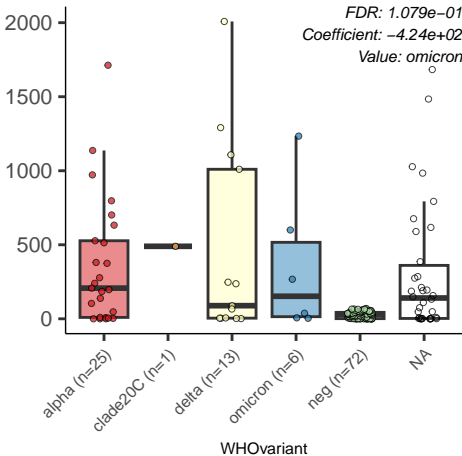


FDR: 1.079e-01

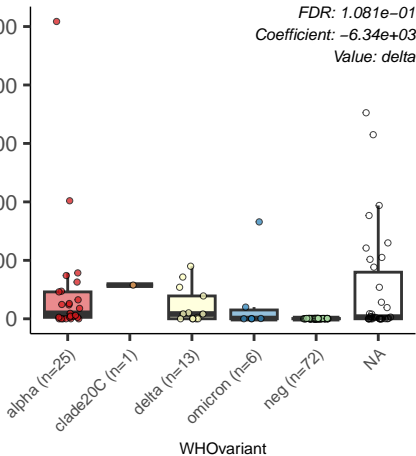
Coefficient: $-4.24e+02$

Value: omicron

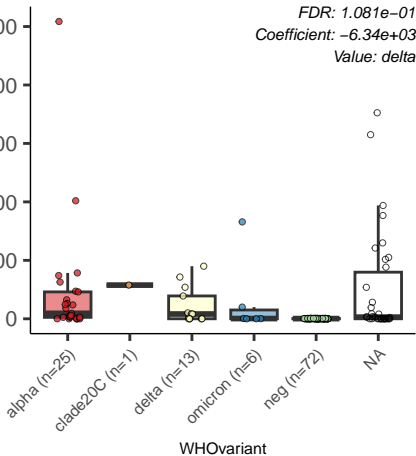
tes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Acetillactob



Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.X

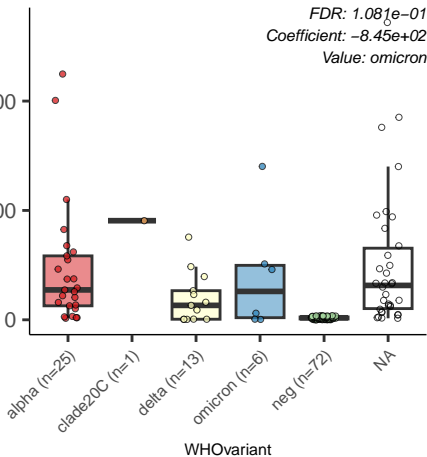


Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Incertae.S



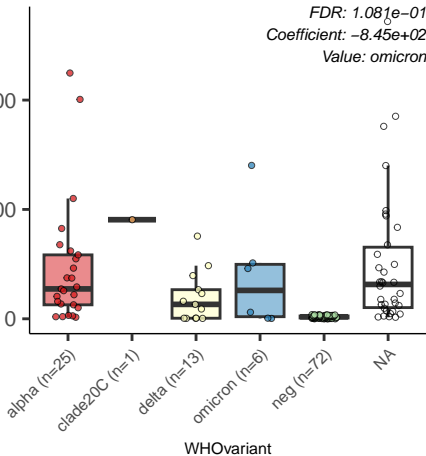
d_Bacteria.p_Bacteroidetes.c_Chitinophagia

FDR: $1.081e-01$
Coefficient: $-8.45e+02$
Value: omicron



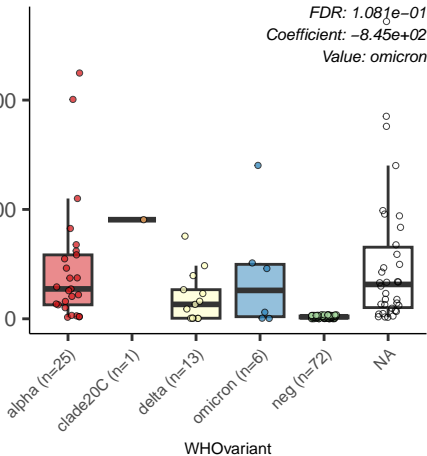
d_Bacteria.p_Bacteroidetes.c__Chitinophagia.o__Chitin

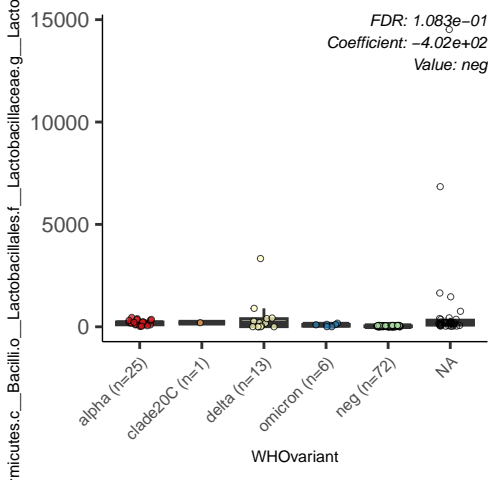
FDR: $1.081e-01$
Coefficient: $-8.45e+02$
Value: omicron

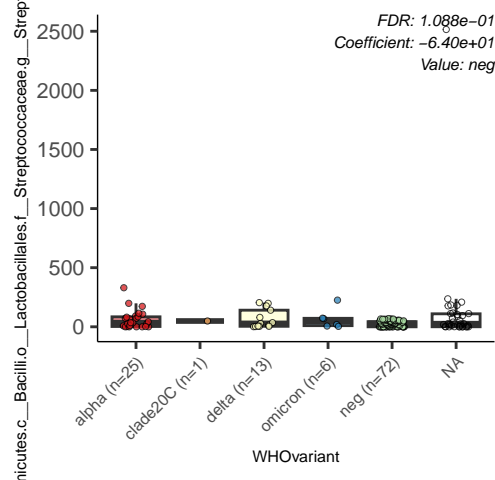


_Bacteria.p__Bacteroidetes.c__Chitinophagia.o__Chitinophagales.f__

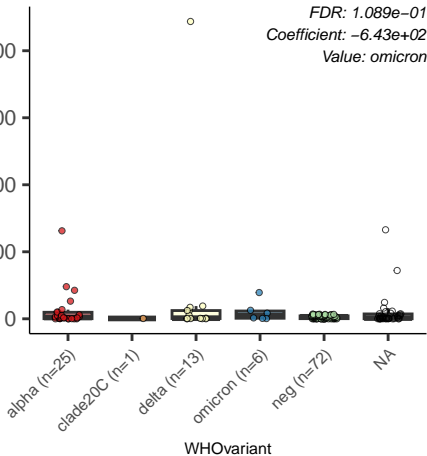
FDR: $1.081e-01$
Coefficient: $-8.45e+02$
Value: omicron





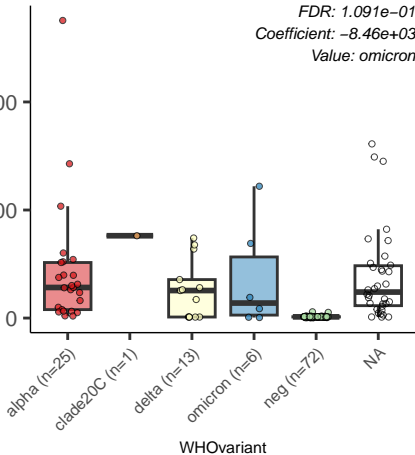


.c_Actinomycetia.o_Pseudonocardiales.f_Pseudonocardaceae

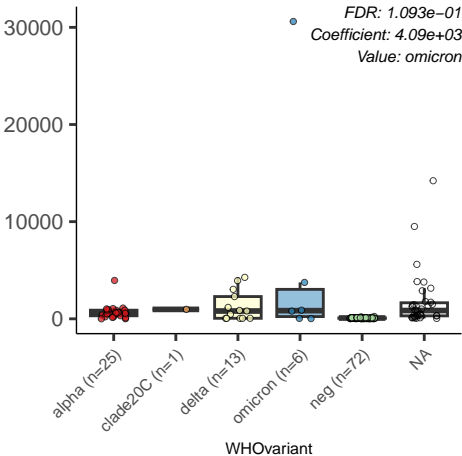


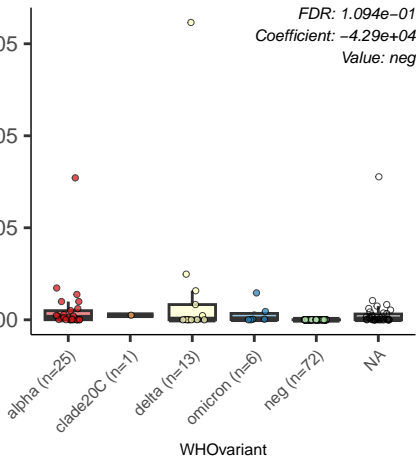
d_Bacteria.p__Cyanobacteria

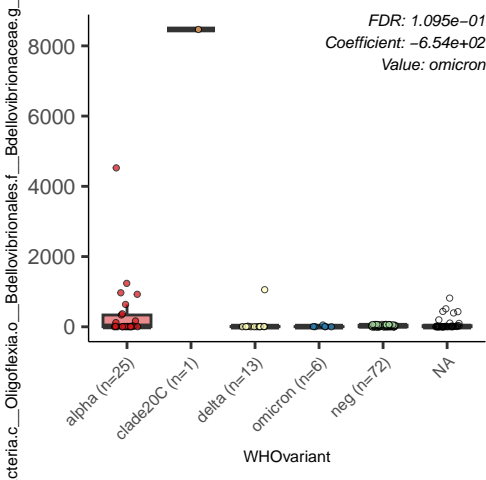
FDR: 1.091e-01
Coefficient: -8.46e+03
Value: omicron



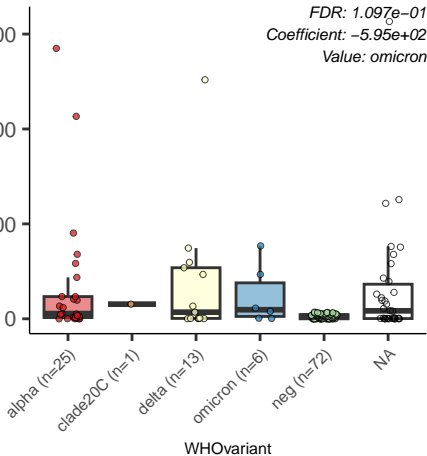
a.p._Bacteroidetes.c._Cytophagia.o._Cytophagales.f._Hymenoba

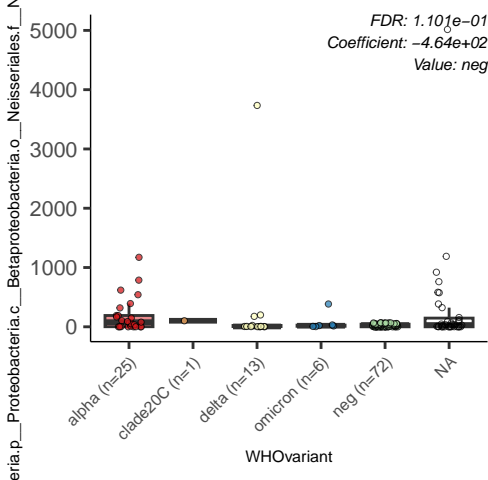






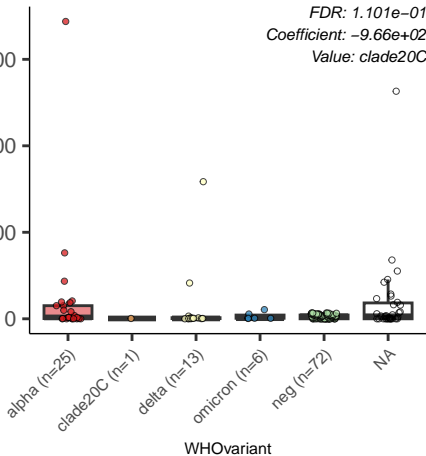
obacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetace

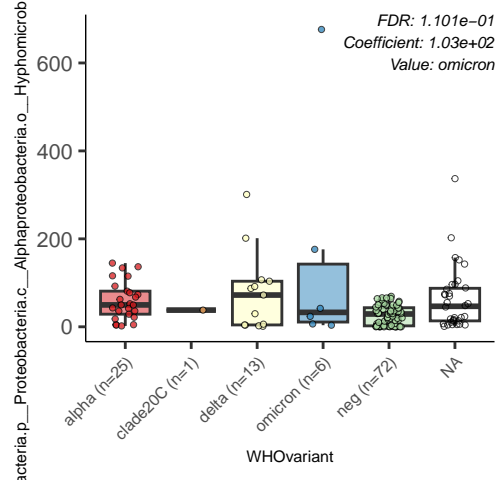


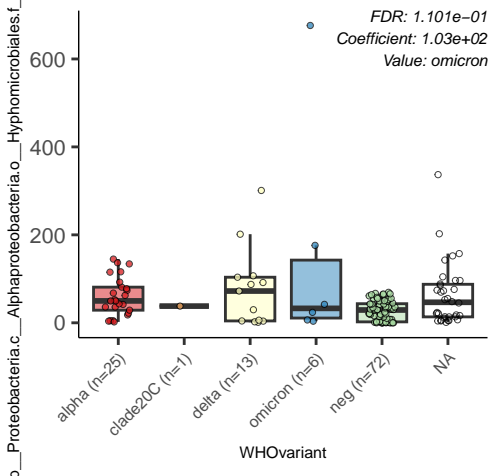


ia.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae.

FDR: 1.101e-01
Coefficient: -9.66e+02
Value: clade20C

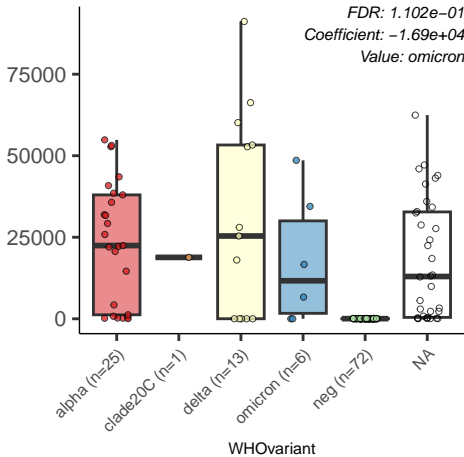






oteobacteria.c__Alphaproteobacteria.o__Sphingomonadales.f__Ery

FDR: 1.102e-01
Coefficient: -1.69e+04
Value: omicron



Alpha proteobacteria.o_Sphingomonadales.f_Erythrobacteraceae

75000
50000
25000
0

FDR: 1.103e-01
Coefficient: -1.69e+04
Value: omicron

alpha (n=25)

clade20C (n=1)

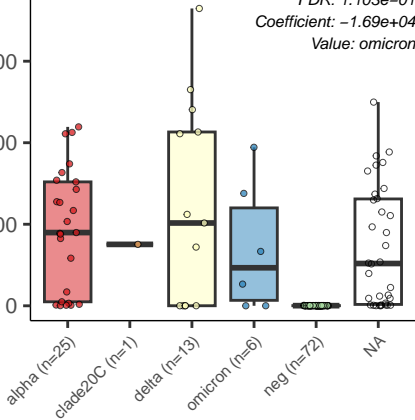
delta (n=13)

omicron (n=6)

neg (n=72)

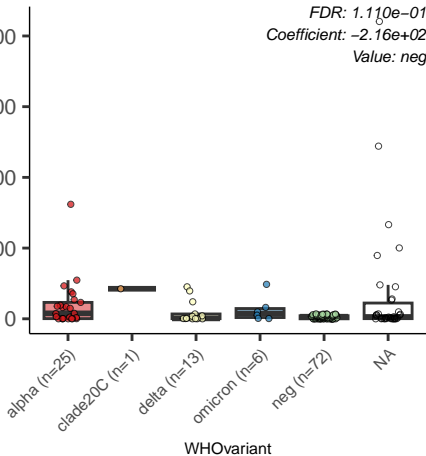
NA

WHOvariant



Neisseriaceae

FDR: 1.110×10^{-1}
Coefficient: -2.16×10^2
Value: neg



Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g__Se

FDR: $1.115e-01$
Coefficient: $-2.78e+04$
Value: neg

150000

100000

50000

0

alpha (n=25)

clade20C (n=1)

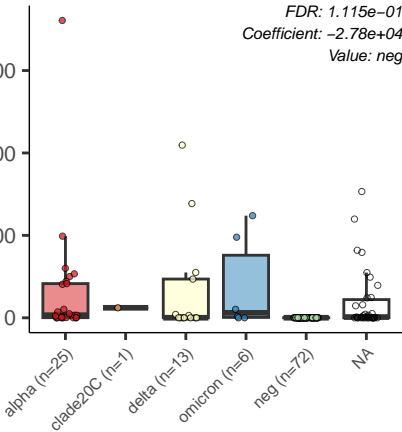
delta (n=13)

omicron (n=6)

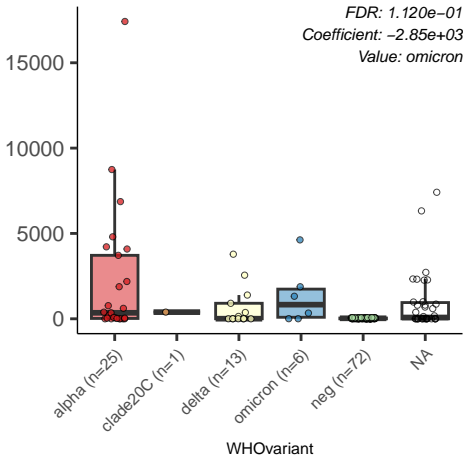
neg (n=72)

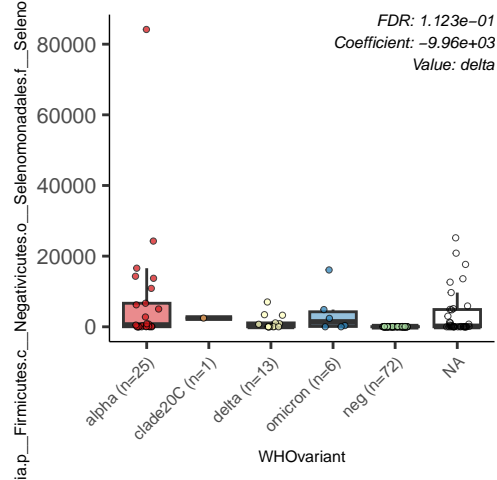
NA

WHOvariant



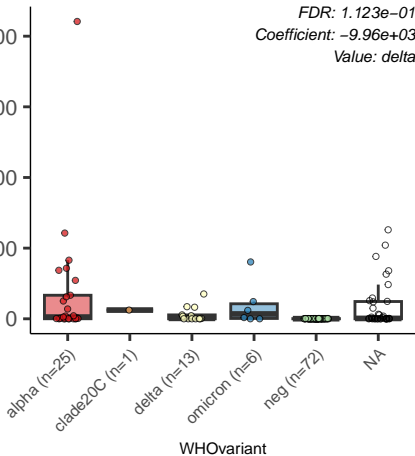
Actinomycetia.o__Corynebacteriales.f__Mycobacteriaceae.g__My

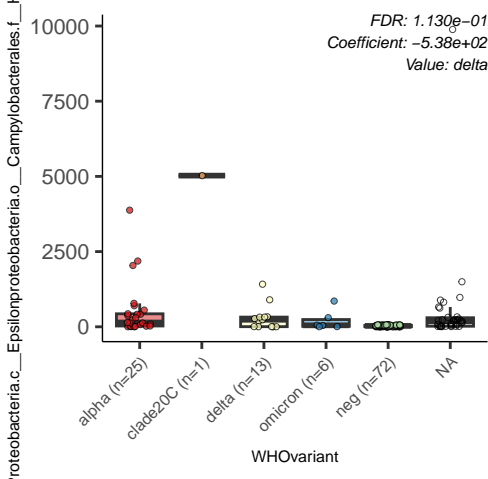




ites.c__Negativicutes.o__Selenomonadales.f__Selenomonadaceae

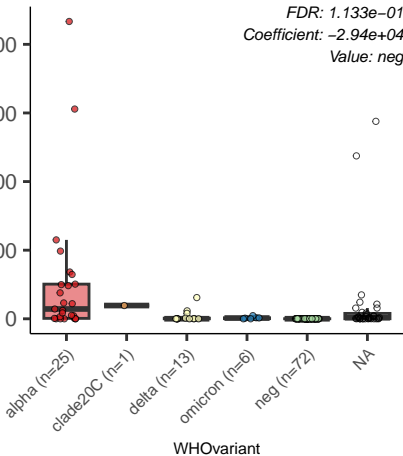
FDR: 1.123e-01
Coefficient: -9.96e+03
Value: delta

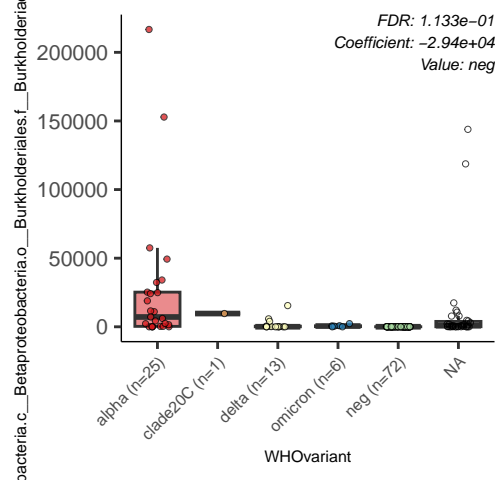


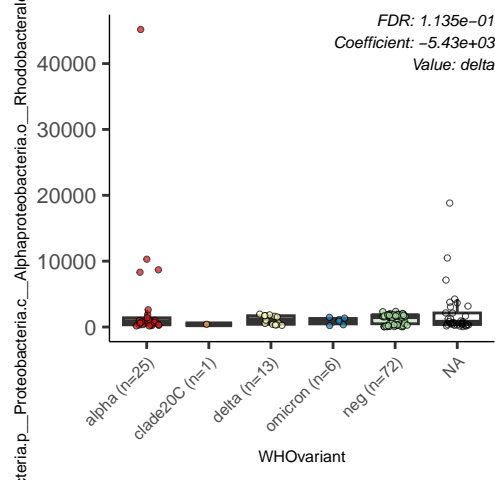


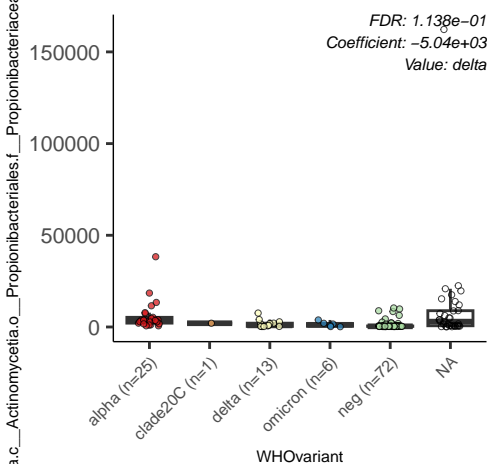
p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__B

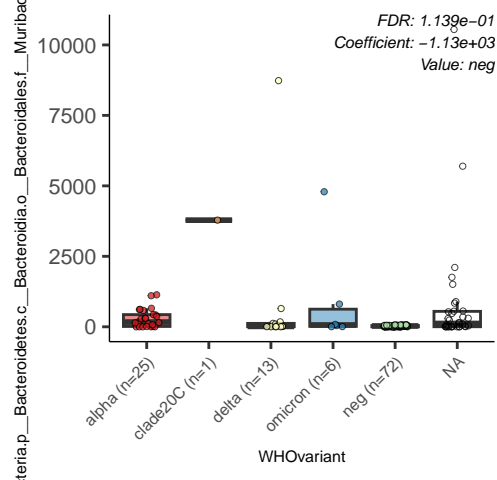
FDR: $1.133\text{e-}01$
Coefficient: $-2.94\text{e+}04$
Value: neg

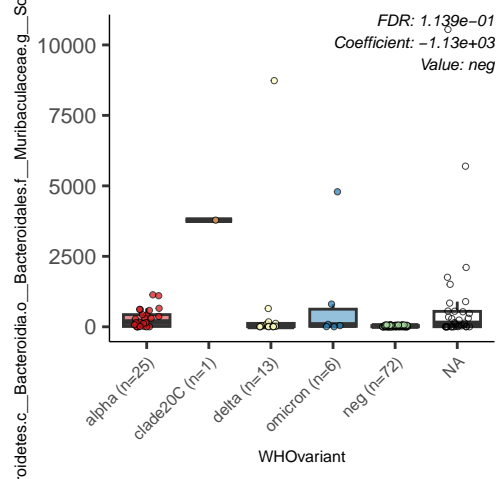


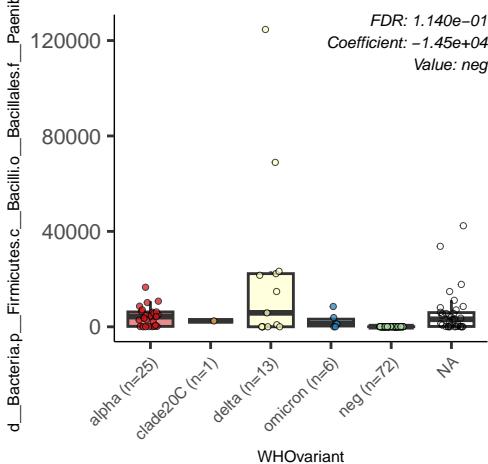




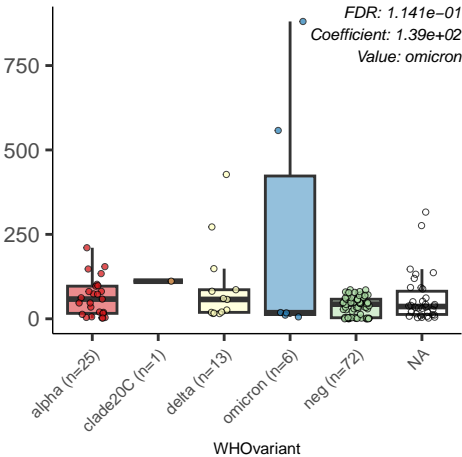






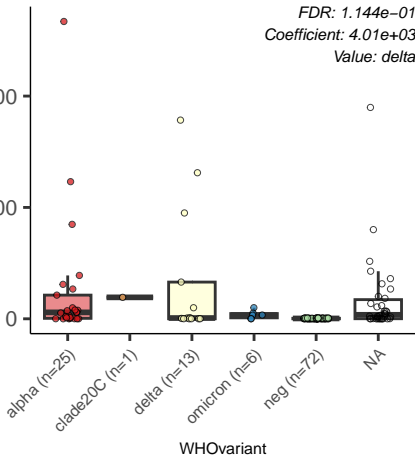


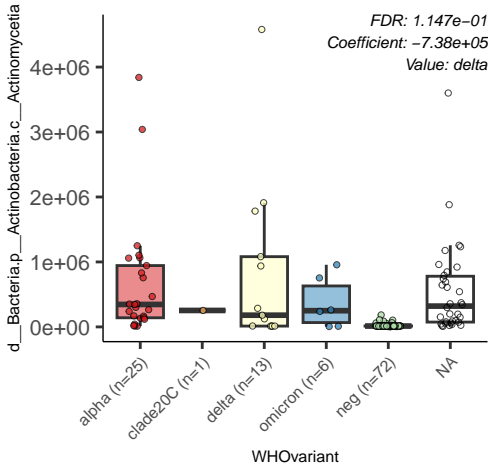
a.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Microb

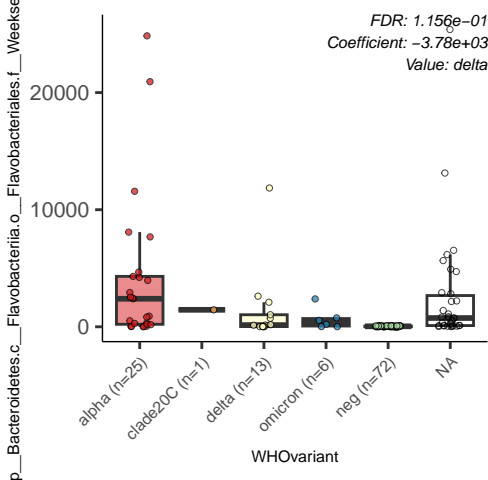


Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.g_Gemella.s

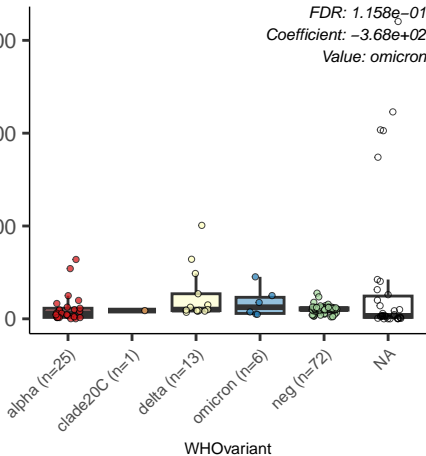
FDR: 1.144e-01
Coefficient: 4.01e+03
Value: delta



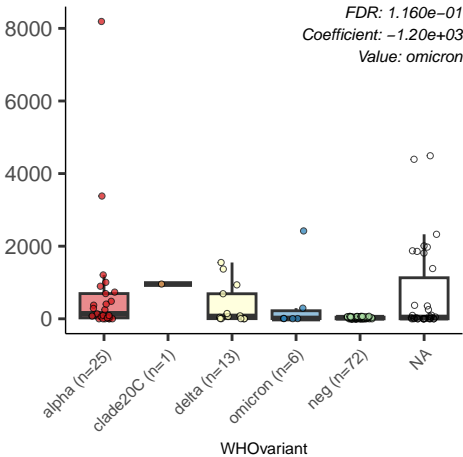




FDR: $1.158e-01$
Coefficient: $-3.68e+02$
Value: omicron

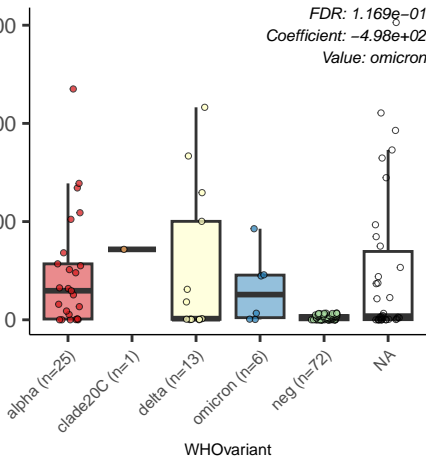


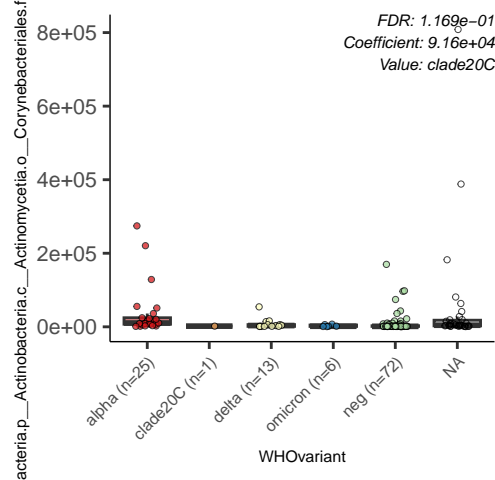
s.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII.Ince

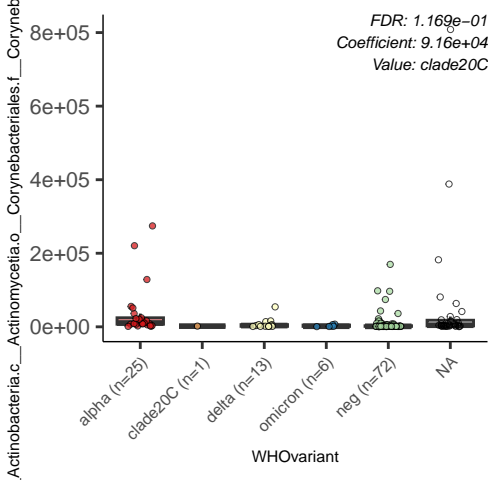


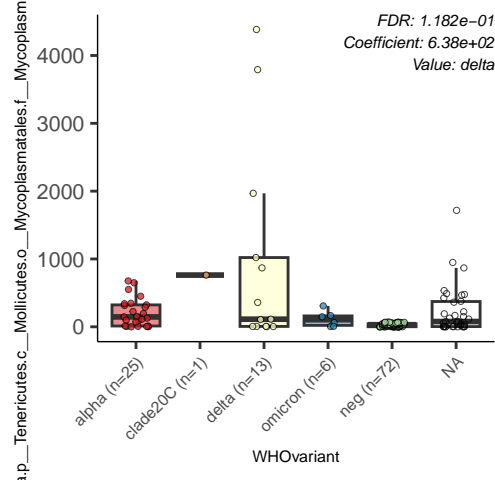
d__Bacteria.p__Candidatus.Saccharibacteria.g__Candidatus.

FDR: 1.169×10^{-1}
Coefficient: -4.98×10^2
Value: omicron



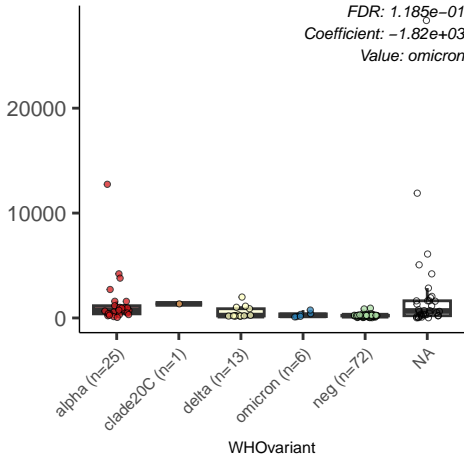




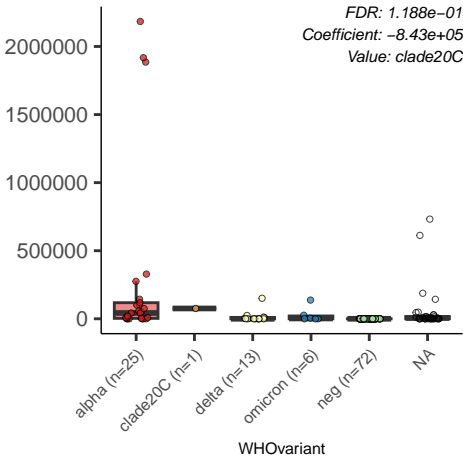


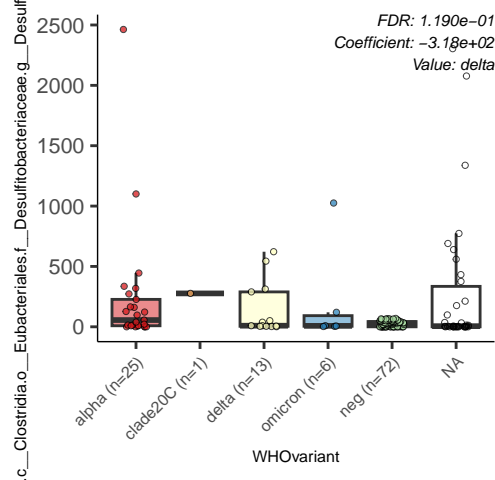
ria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Micro

FDR: $1.185e-01$
Coefficient: $-1.82e+03$
Value: omicron

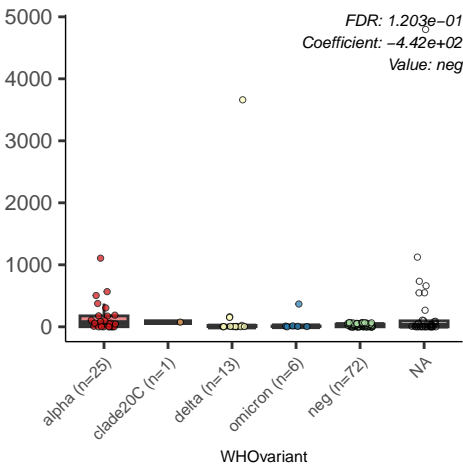


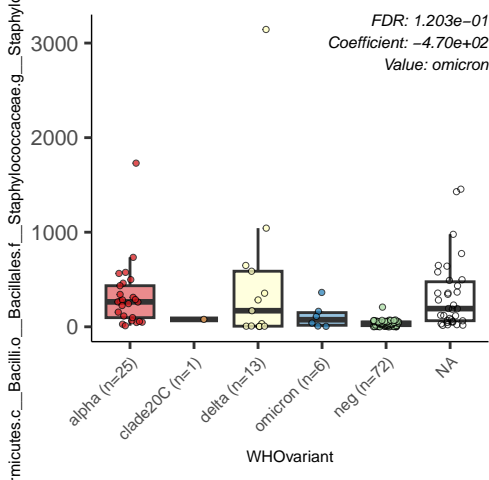
_Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacterac

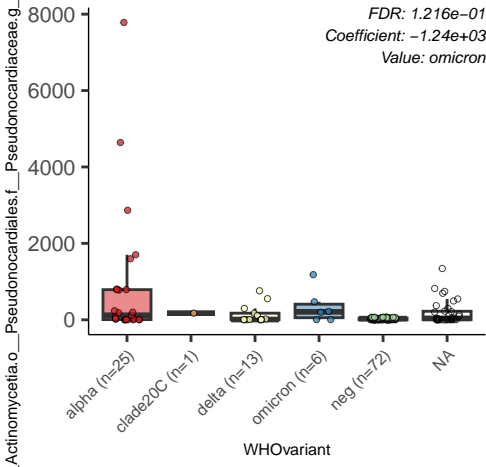


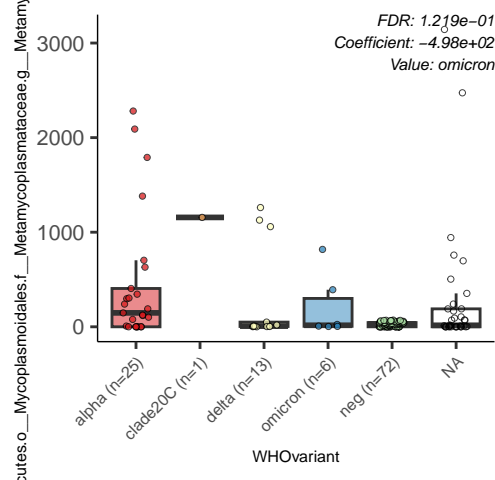


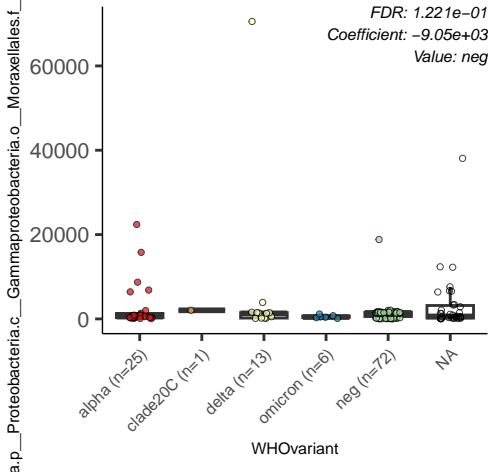
proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae

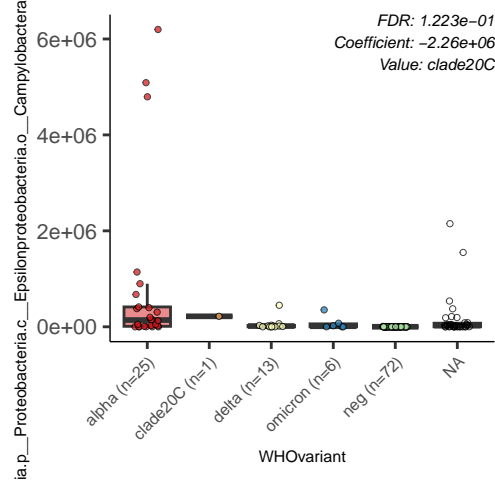


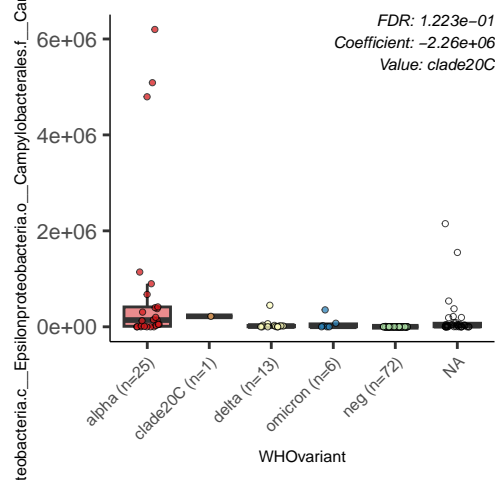






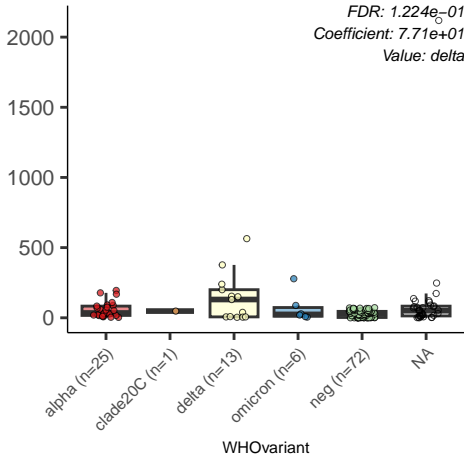


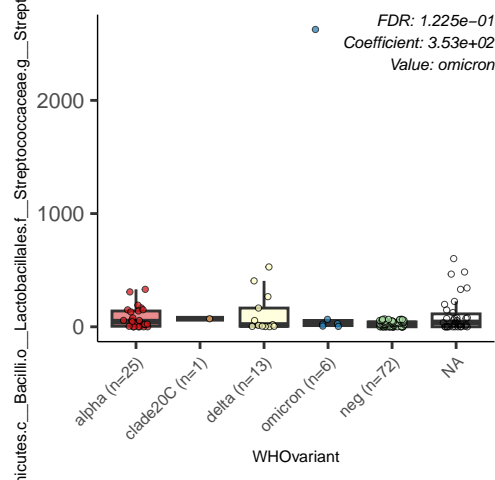


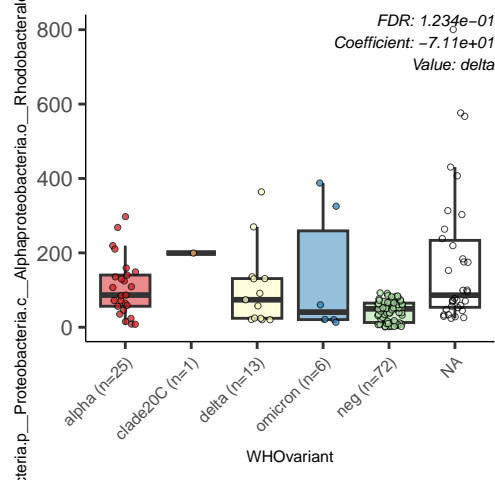


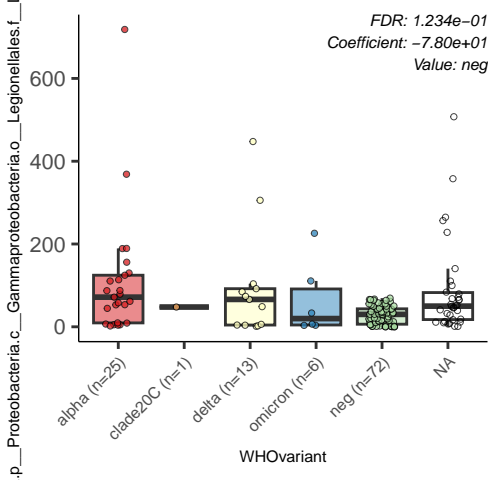
acteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae

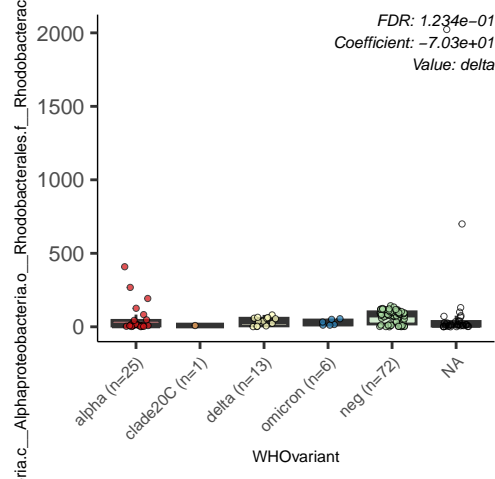
FDR: $1.224e-01$
Coefficient: $7.71e+01$
Value: delta

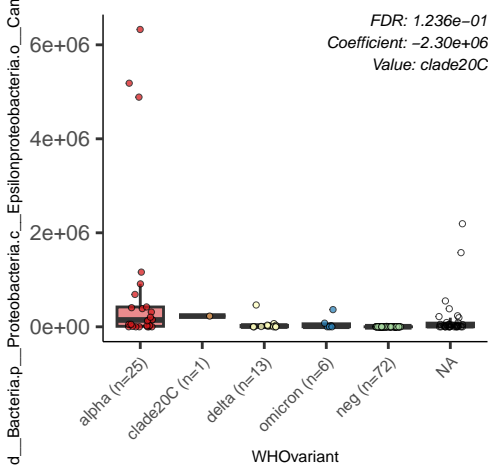


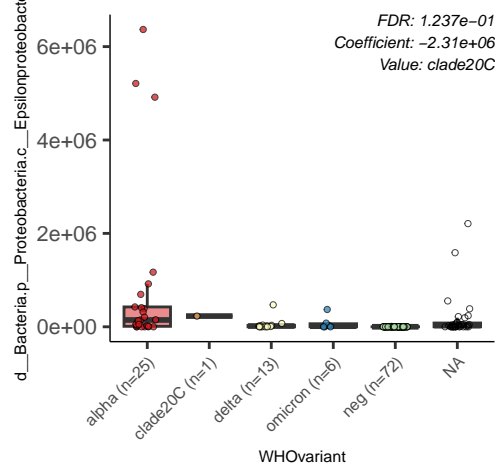


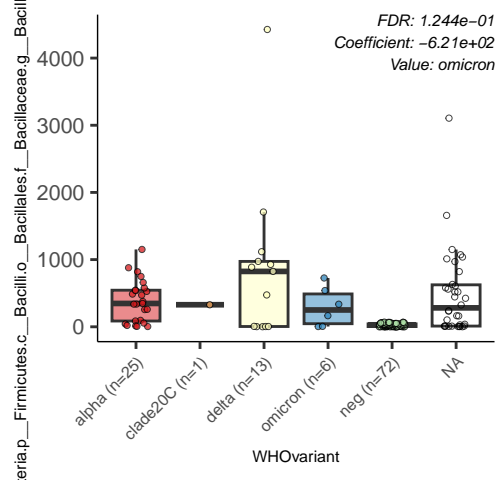












s.c__Bacteroidia.o__Bacteroidales.f__Porphyromonadaceae.g__Po

FDR: $1.245e-01$
Coefficient: $-1.31e+02$
Value: delta

1000

500

0

alpha (n=25)

clade20C (n=1)

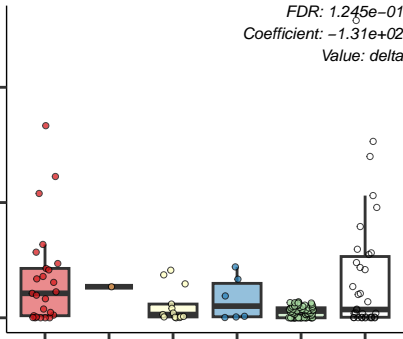
delta (n=13)

omicron (n=6)

neg (n=72)

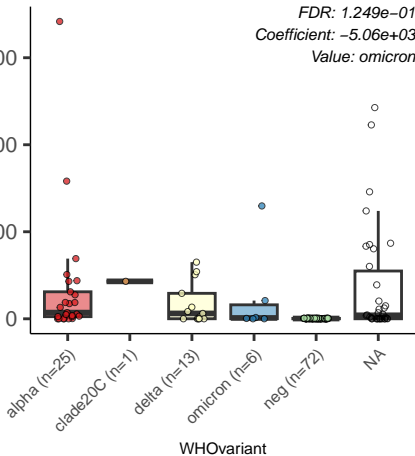
NA

WHOvariant



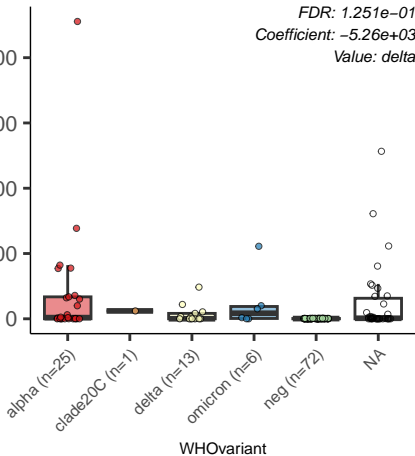
Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family

FDR: 1.249e-01
Coefficient: -5.06e+03
Value: omicron



Chlamydiae.c__Chlamydia.o__Chlamydiales.f__Chlamydiaceae.g

FDR: 1.251e-01
Coefficient: -5.26e+03
Value: delta



ia.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavo

FDR: 1.255e-01
Coefficient: -2.45e+02
Value: omicron

1000

500

0

alpha (n=25)

clade20C (n=1)

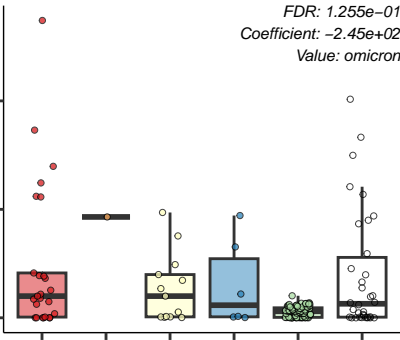
delta (n=13)

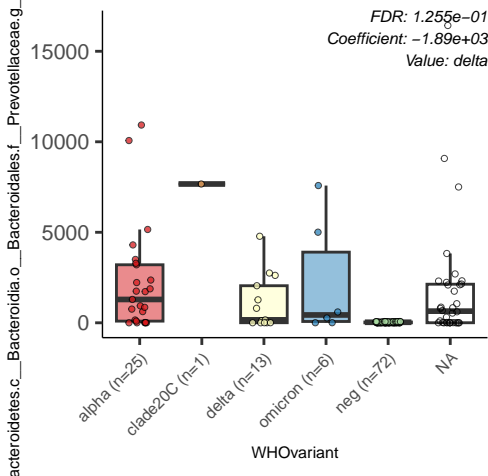
omicron (n=6)

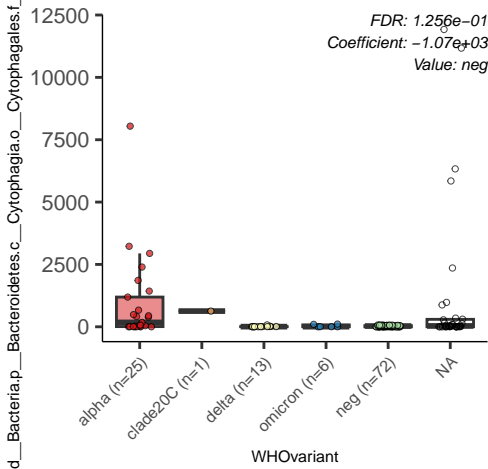
neg (n=72)

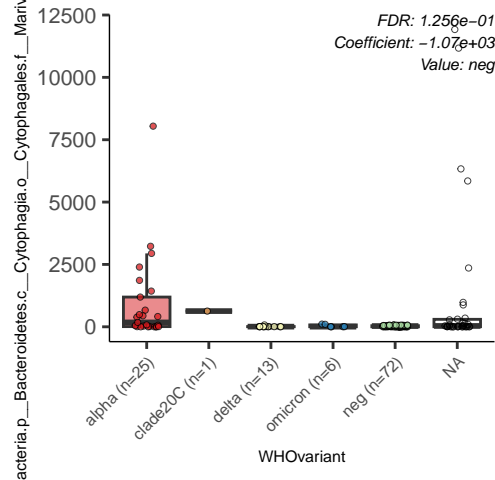
NA

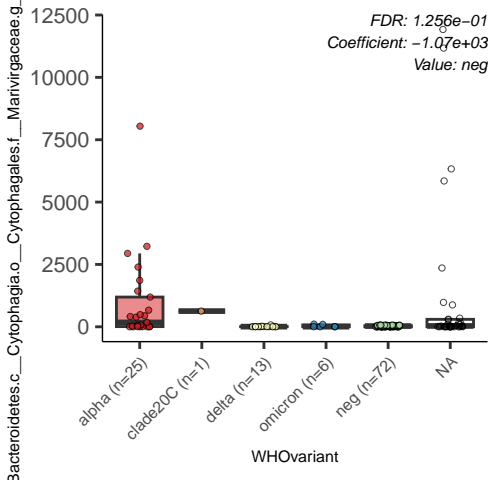
WHOvariant

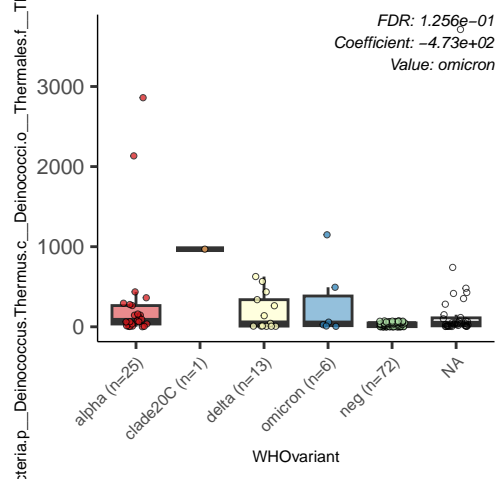


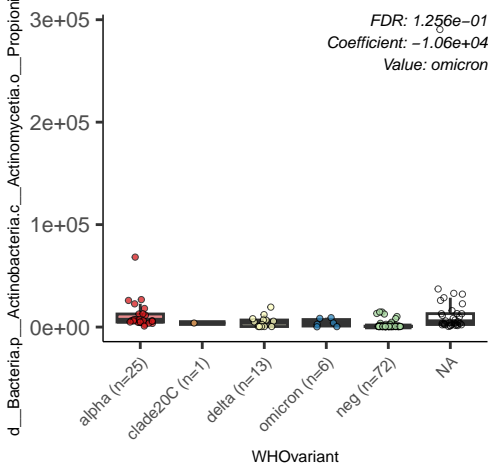


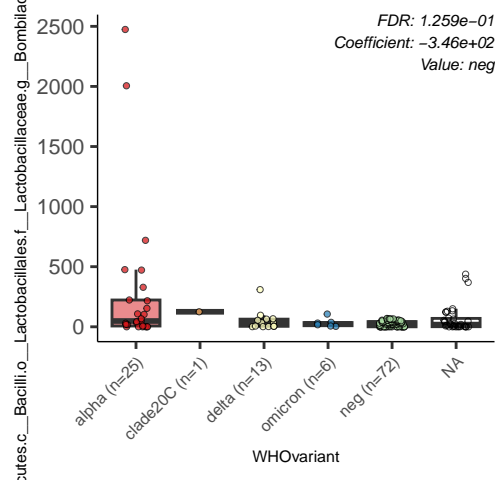






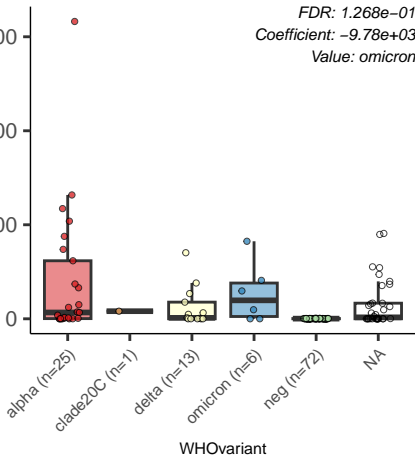


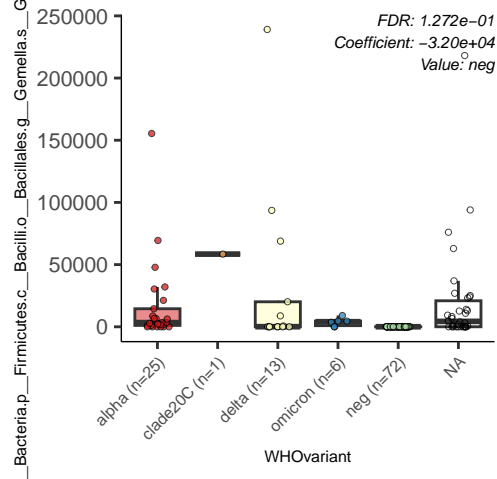




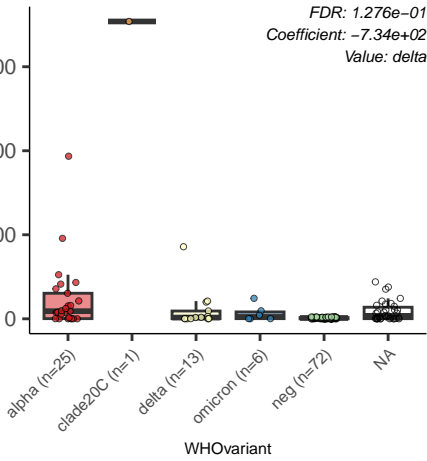
Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Actinom

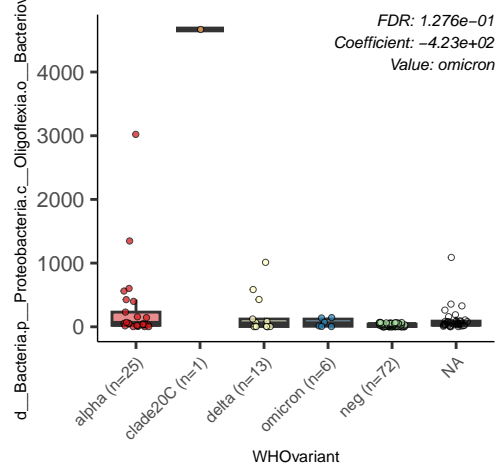
FDR: 1.268e-01
Coefficient: -9.78e+03
Value: omicron

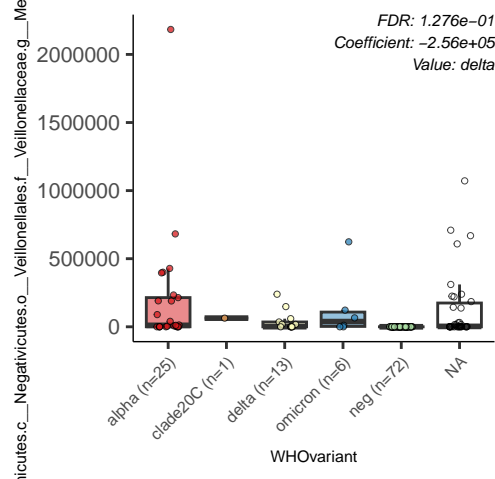


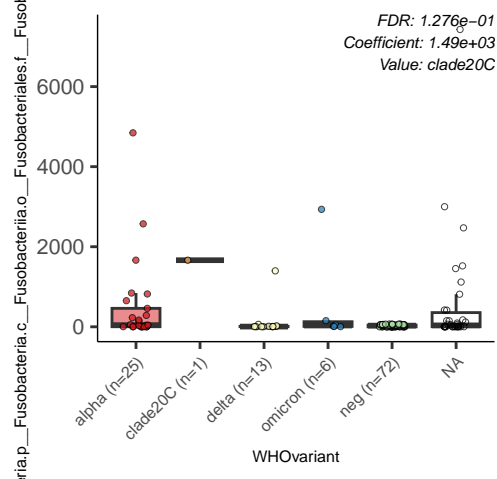


d_Bacteria.p_Spirochaetes.c_Spirochaetia.o_Spirochaetales



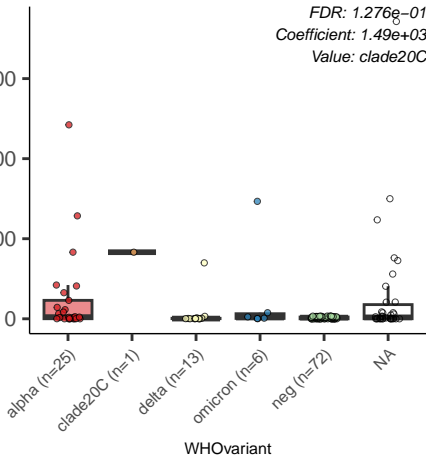






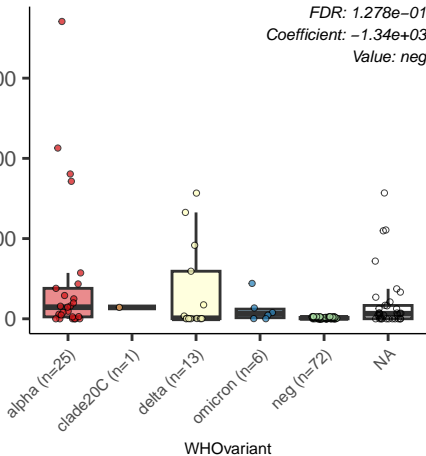
bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae

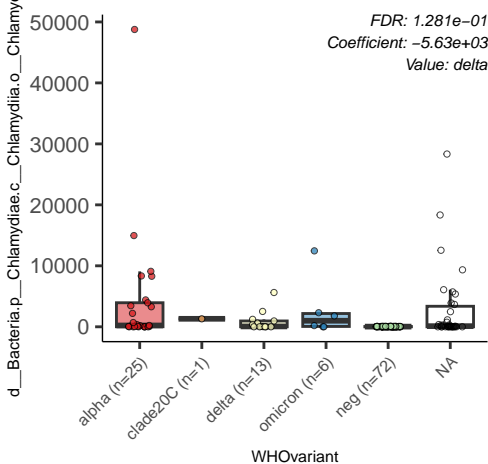
FDR: 1.276×10^{-1}
Coefficient: 1.49×10^3
Value: clade20C

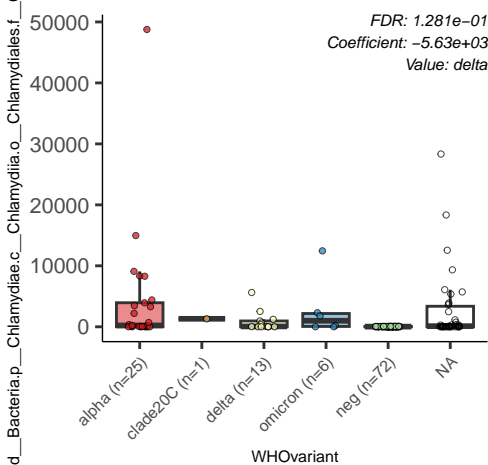


rmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

FDR: 1.278e-01
Coefficient: -1.34e+03
Value: neg

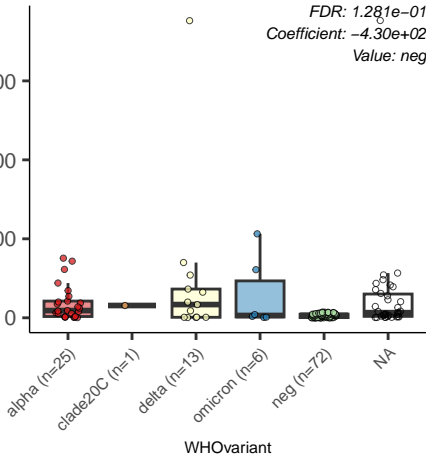






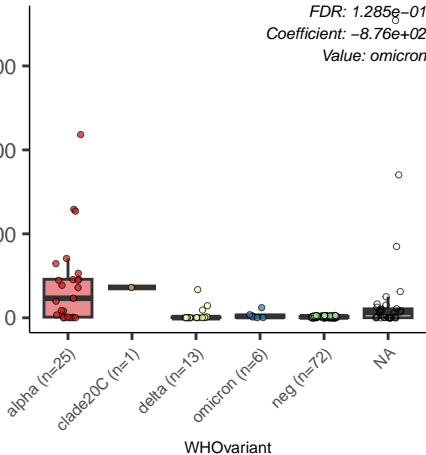
d_Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desul

FDR: 1.281e-01
Coefficient: -4.30e+02
Value: neg

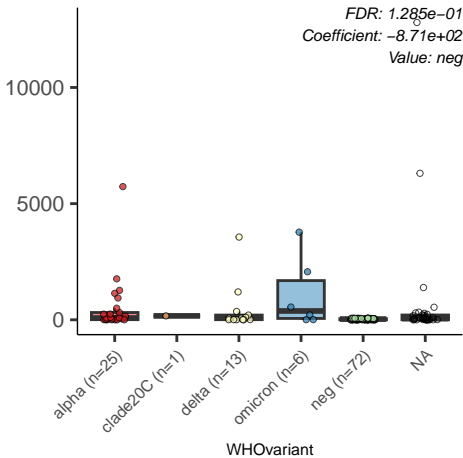


obacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae

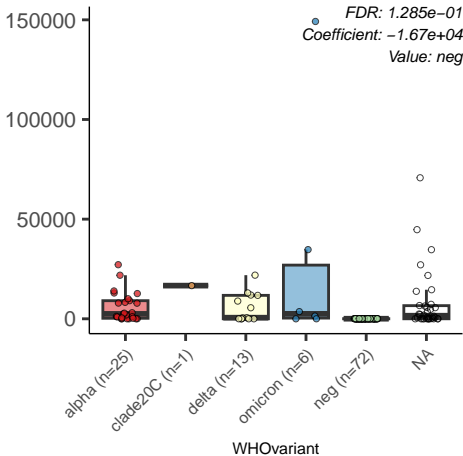
FDR: $1.285e-01$
Coefficient: $-8.76e+02$
Value: omicron

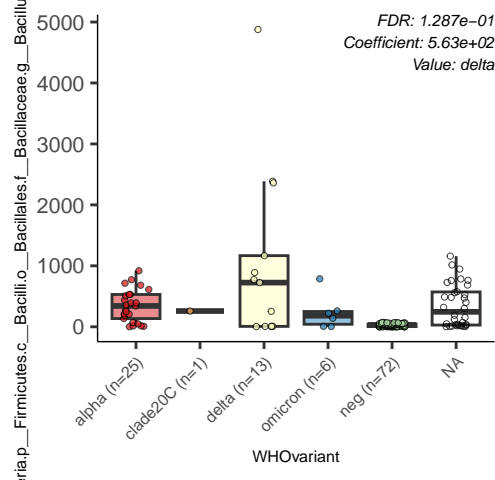


acteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobactera

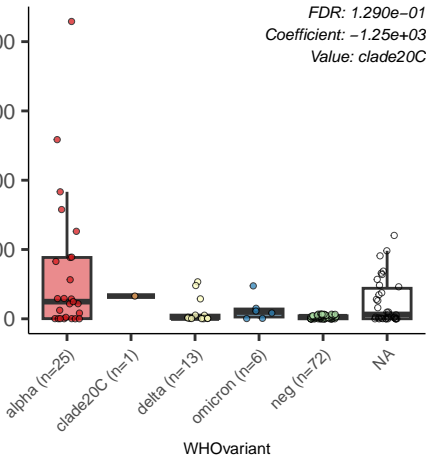


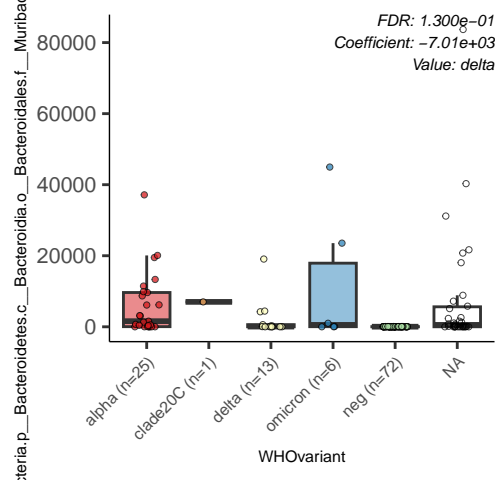
Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g



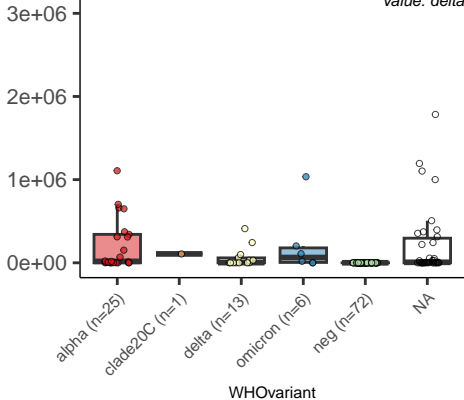


c_Flavobacteriia.o_Flavobacteriales.f_Flavobacteriaceae.g_Ca



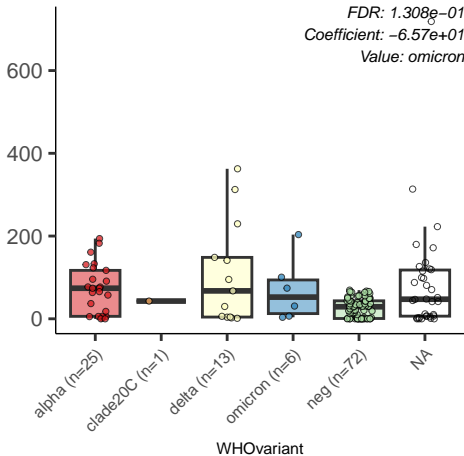


Value: delta



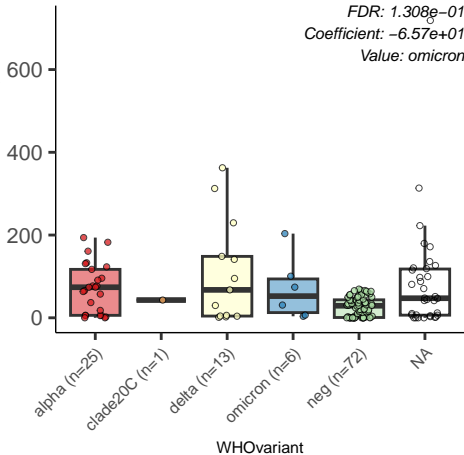
d_Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae

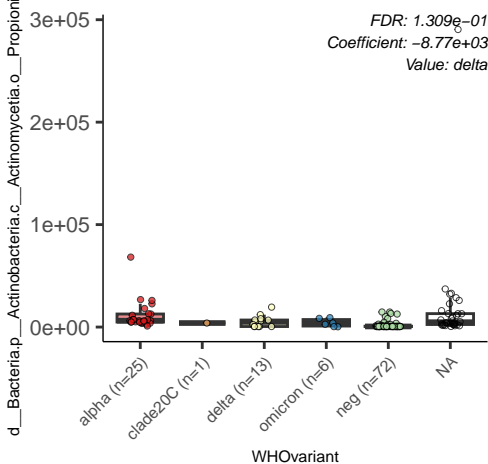
FDR: $1.308e-01$
Coefficient: $-6.57e+01$
Value: omicron



p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g_Weizmann

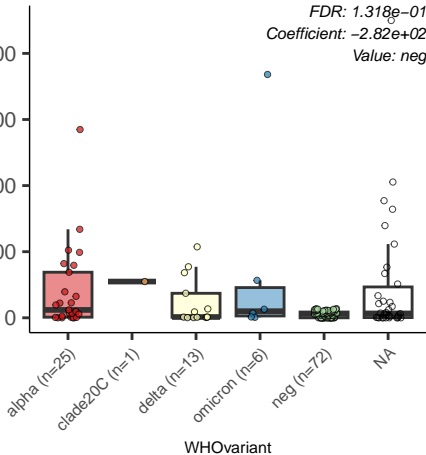
FDR: $1.308e-01$
Coefficient: $-6.57e+01$
Value: omicron

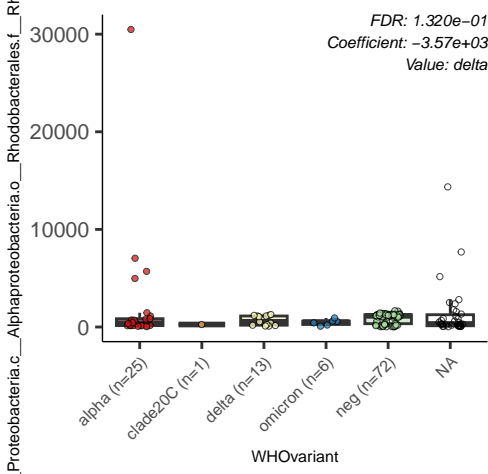




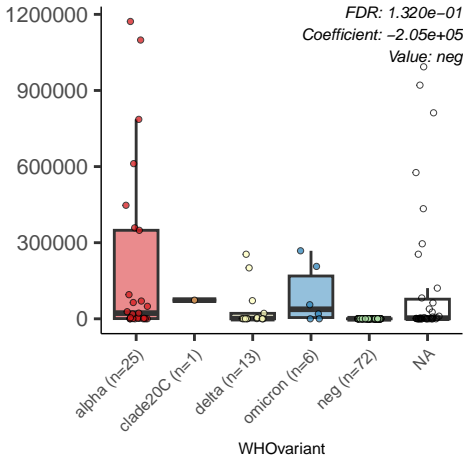
a.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Dysgonom

FDR: 1.318e-01
Coefficient: -2.82e+02
Value: neg

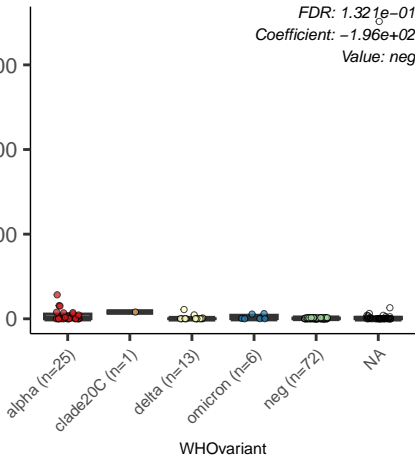


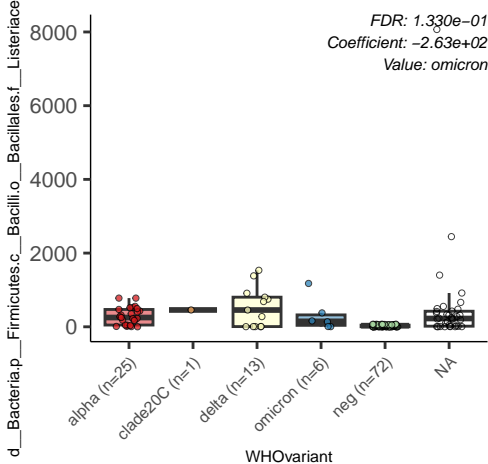


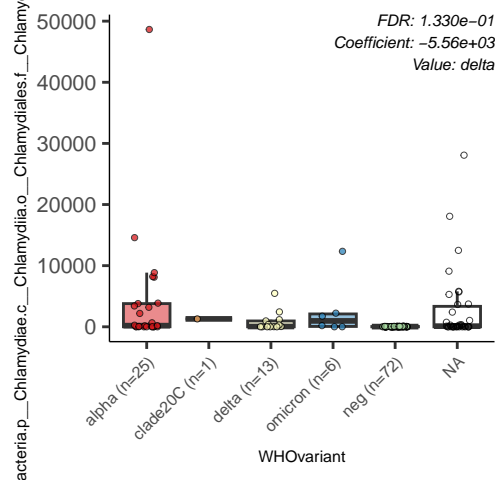
Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae

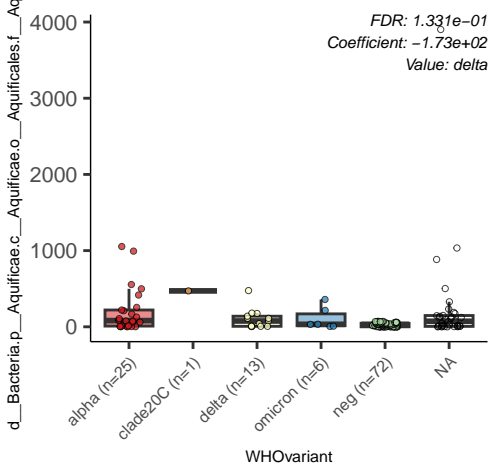


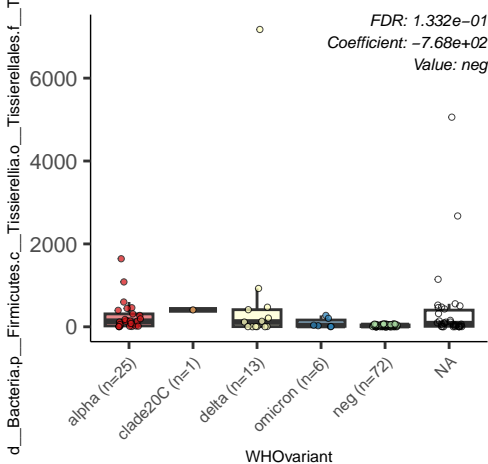
FDR: $1.321e-01$
Coefficient: $-1.96e+02$
Value: neg



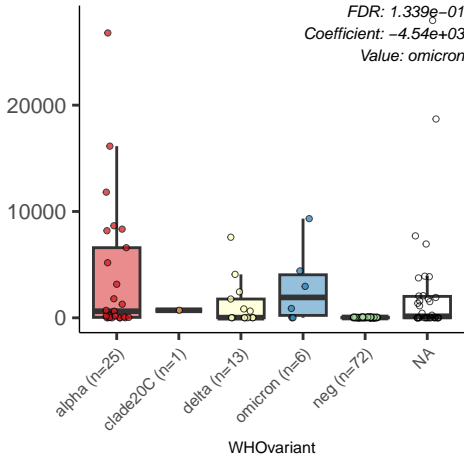


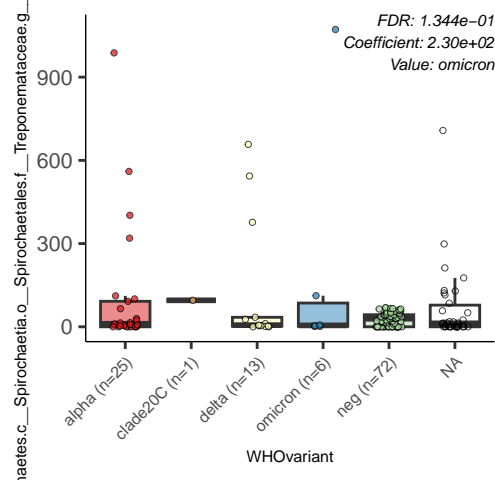




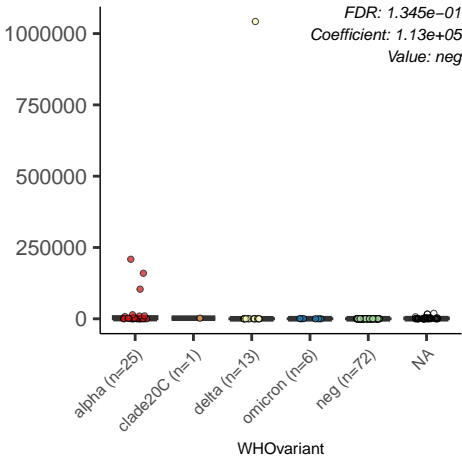


FDR: $1.339e-01$
Coefficient: $-4.54e+03$
Value: omicron

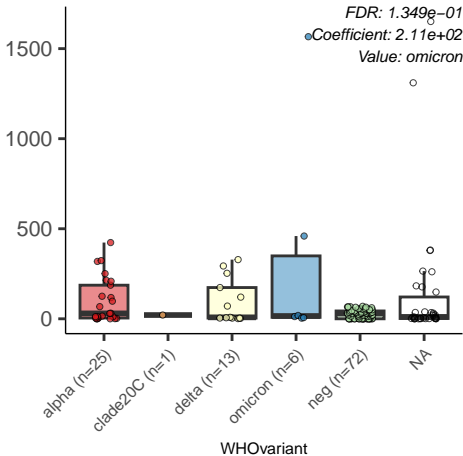


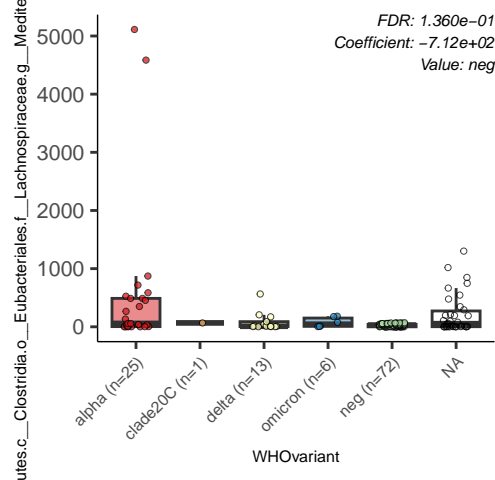


a.c._Gammaproteobacteria.o_Pasteurellales.f__Pasteurellaceae.g

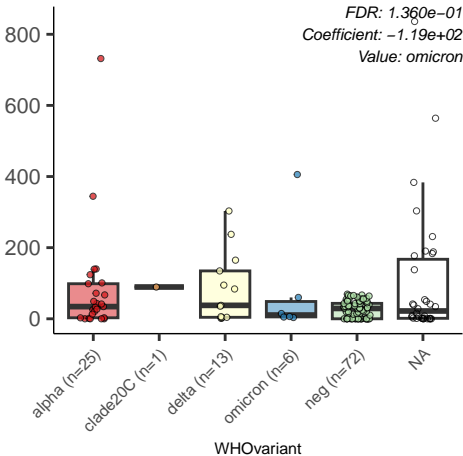


Clostridia.o__Eubacteriales.f__Christensenellaceae.g__Christens

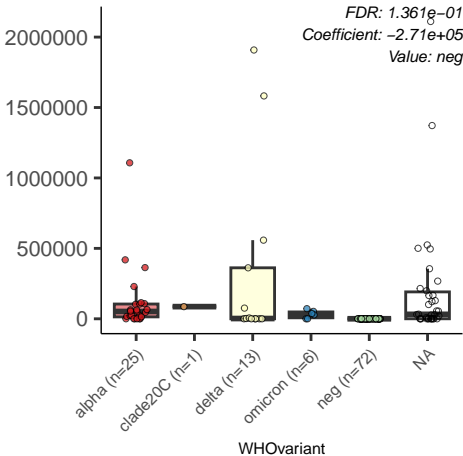




terial.p__Firmicutes.c__Bacilli.o__Bacillales.f__Thermoactinomyce

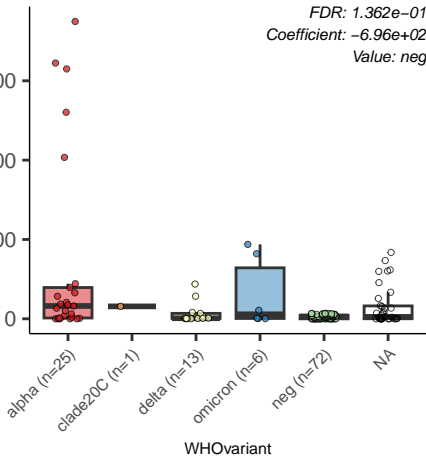


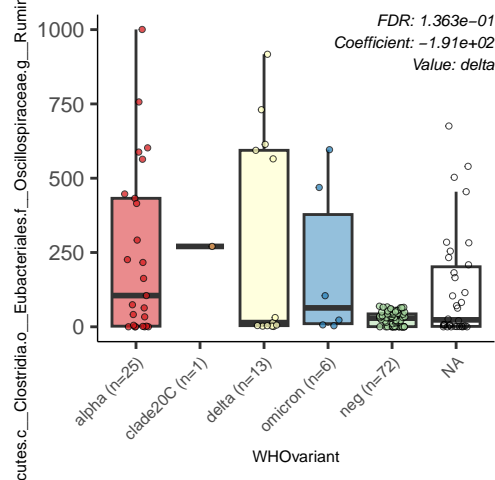
Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.g_Gemella.s_Ge



Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae.g

FDR: 1.362e-01
Coefficient: -6.96e+02
Value: neg





Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales.f__De

FDR: 1.365e-01
Coefficient: -8.53e+02
Value: neg

10000

5000

0

alpha (n=25)

clade20C (n=1)

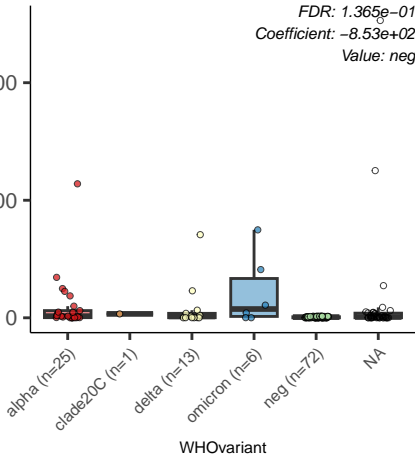
delta (n=13)

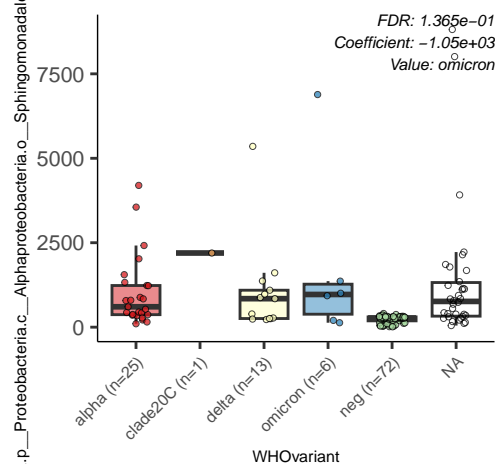
omicron (n=6)

neg (n=72)

NA

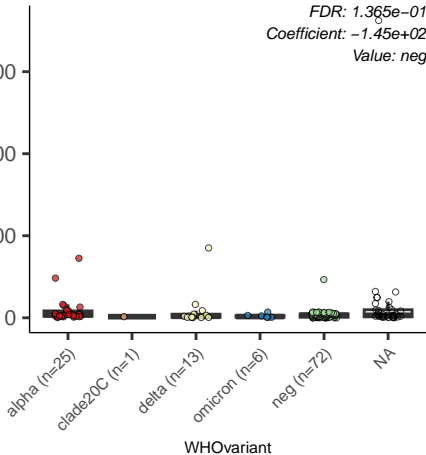
WHOvariant

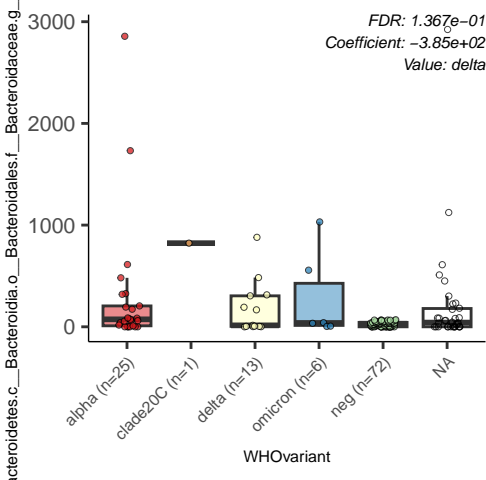




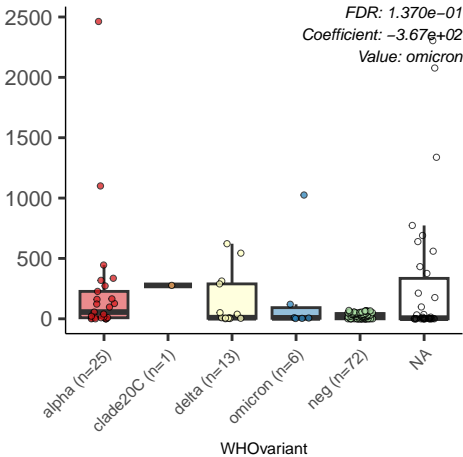
Actinomycetia.o__Corynebacteriales.f__Corynebacteriaceae.g__C

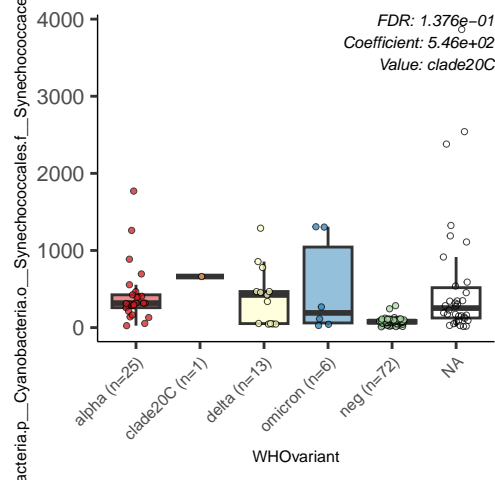
FDR: $1.365e-01$
Coefficient: $-1.45e+02$
Value: neg



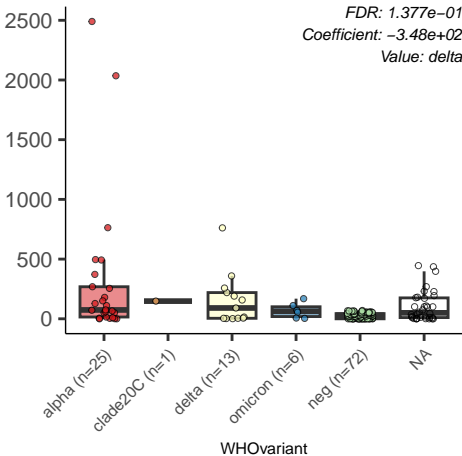


c__Clostridia.o__Eubacteriales.f__Desulfotobiaceae.g__Desulf

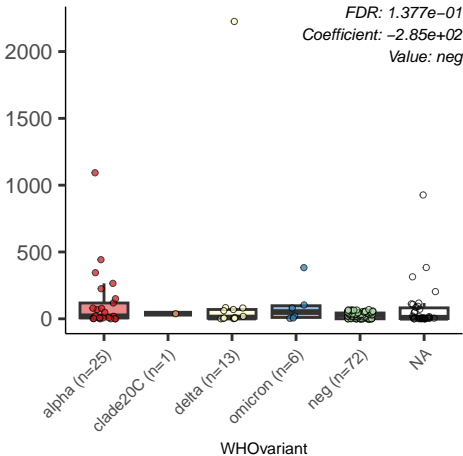


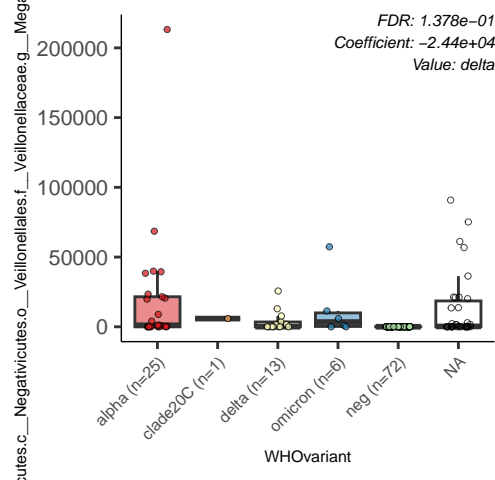


acteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae

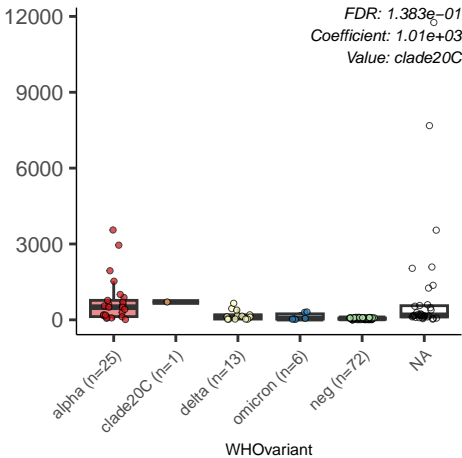


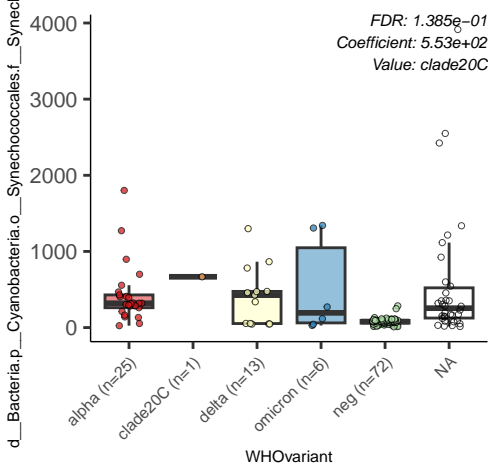
ativicutes.o__Acidaminococcales.f__Acidaminococcaceae.g__Phas



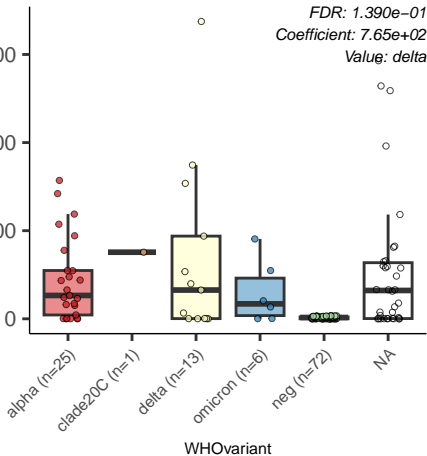


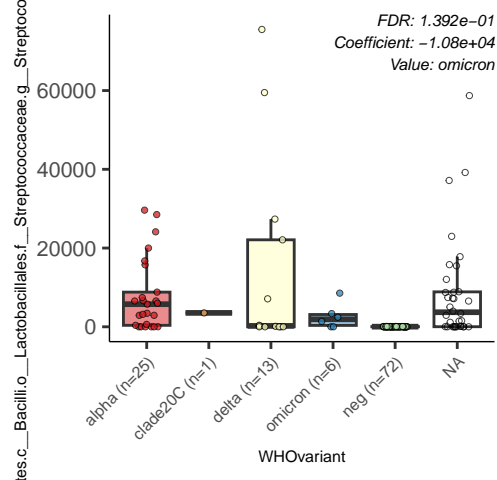
Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

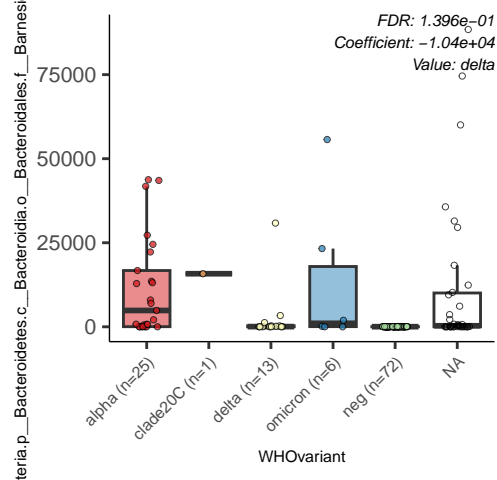


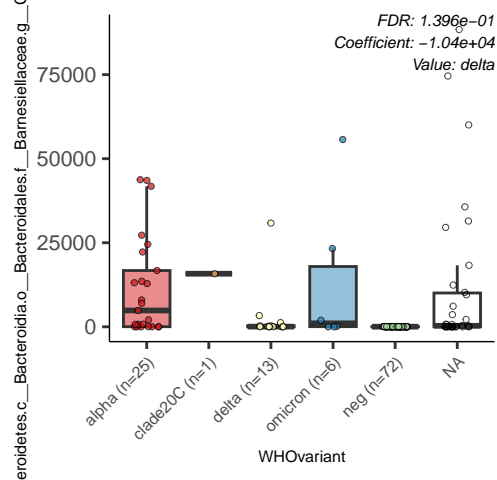


phylum: Bacteroidetes, class: Sphingobacteriia, order: Sphingobacteriales, family: Sphingobacteriaceae, genus: Sphingobacterium, species: Sphingobacterium

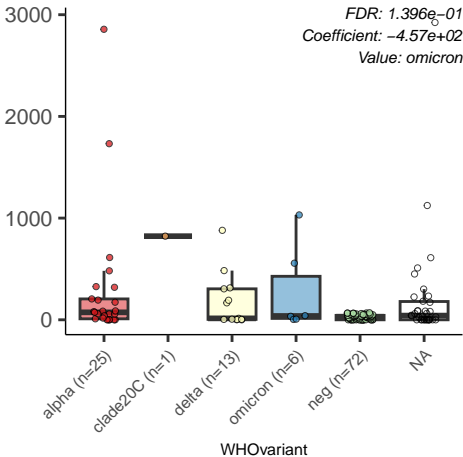




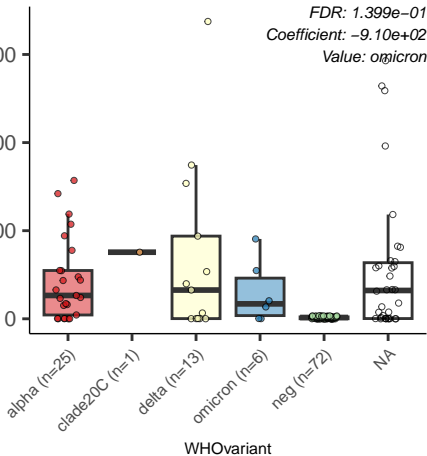




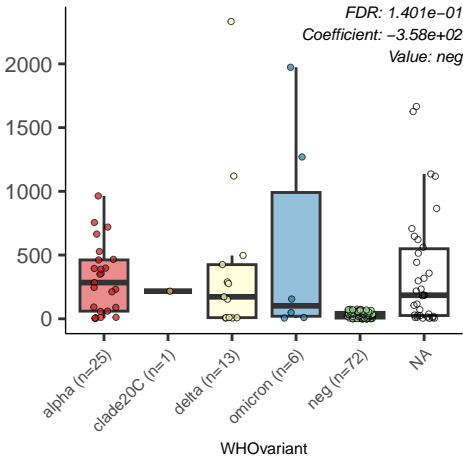
Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae.g



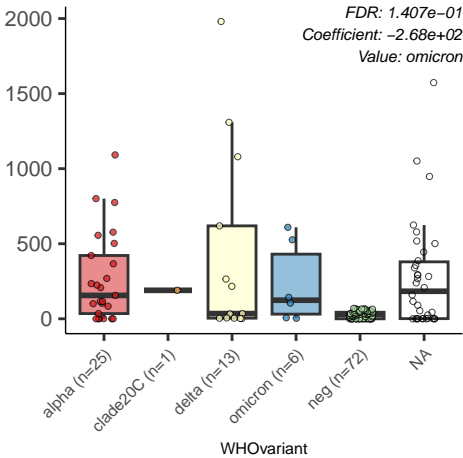
Value: omicron



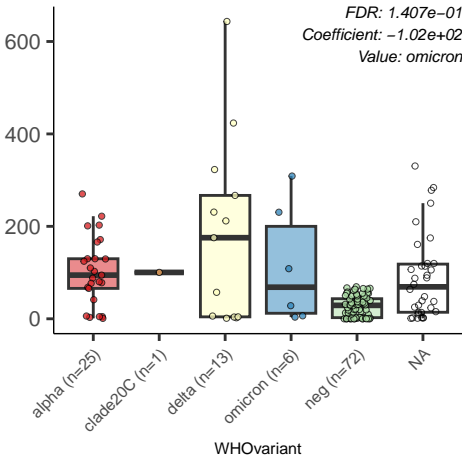
bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonas

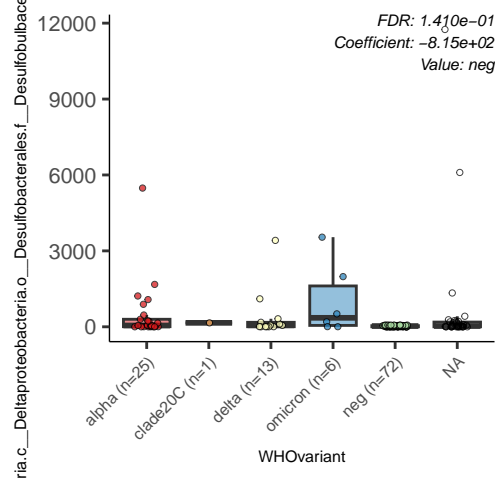


s.c._Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Streptococ

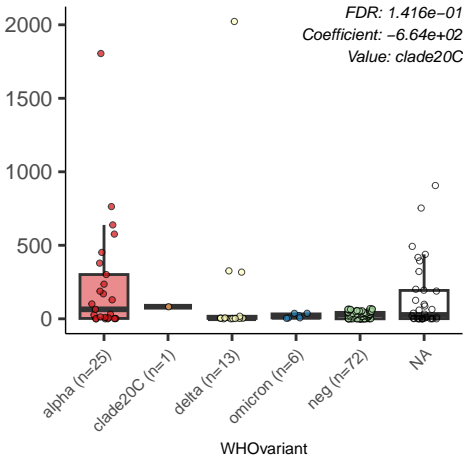


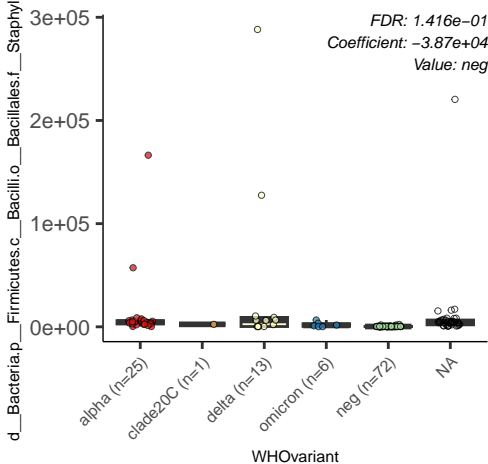
tes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.g__Staphylococcus





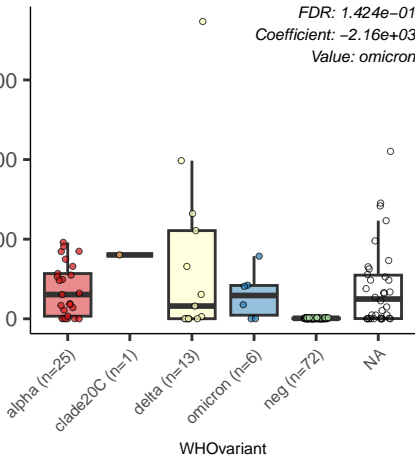
tes.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_CH





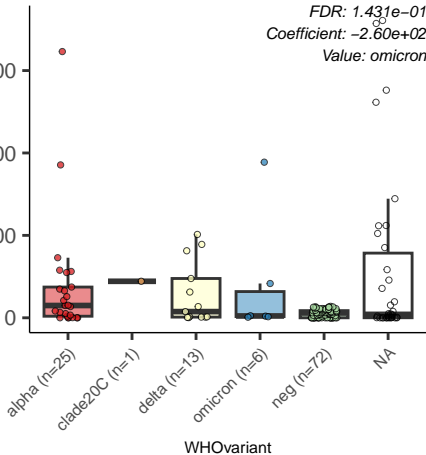
nicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

FDR: $1.424e-01$
Coefficient: $-2.16e+03$
Value: omicron

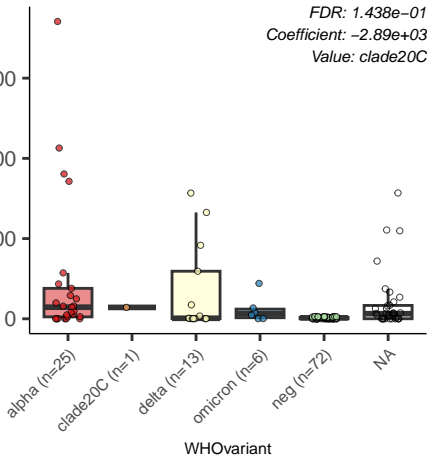


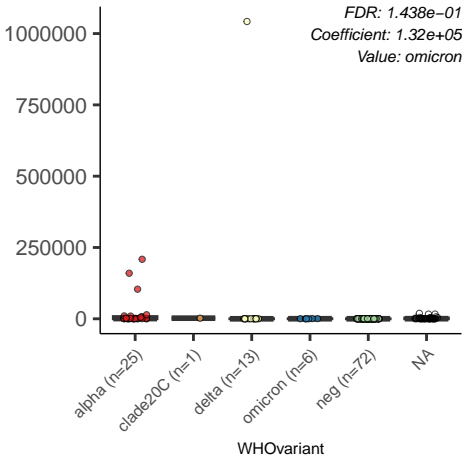
c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII...Incerta

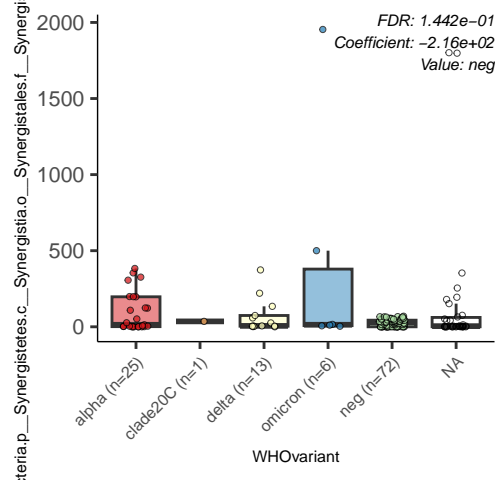
FDR: $1.431e-01$
Coefficient: $-2.60e+02$
Value: omicron

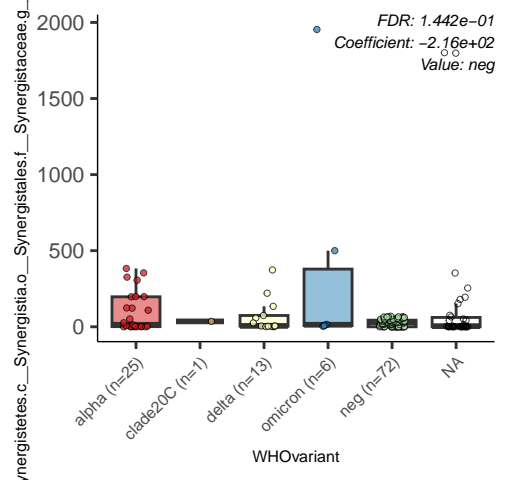


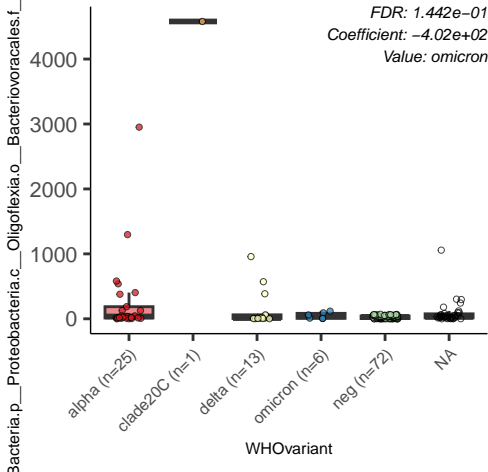
rmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre





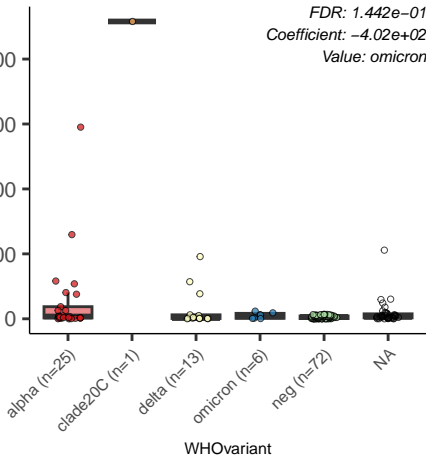






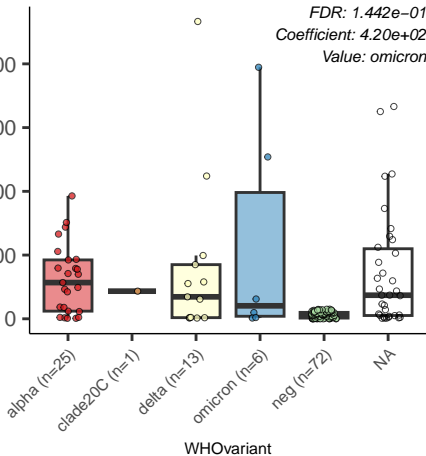
_Proteobacteria.c__Oligoflexia.o__Bacteriovoracales.f__Halobacter

FDR: $1.442e-01$
Coefficient: $-4.02e+02$
Value: omicron



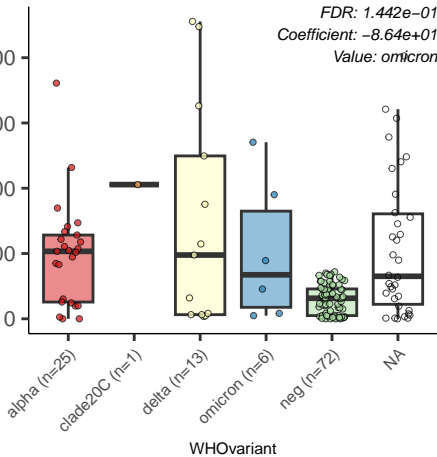
bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonad

FDR: 1.442e-01
Coefficient: 4.20e+02
Value: omicron



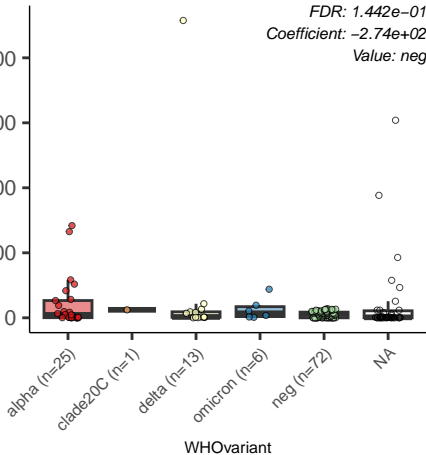
d__Bacteria.p__Cyanobacteria.o__Oscillatoriales.f__Oscillatoriaceae

FDR: 1.442e-01
Coefficient: -8.64e+01
Value: omicron

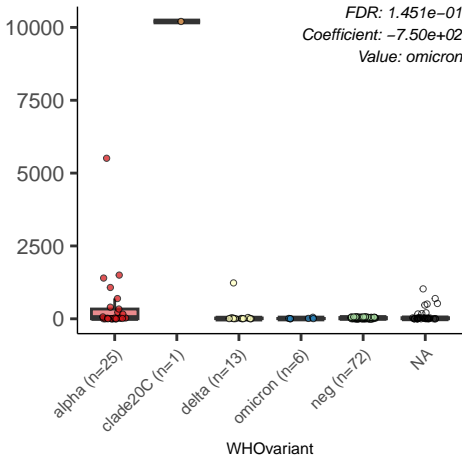


s.c._Clostridia.o_Eubacteriales.f_Oscillospiraceae.g__Caproicib

FDR: 1.442e-01
Coefficient: -2.74e+02
Value: neg

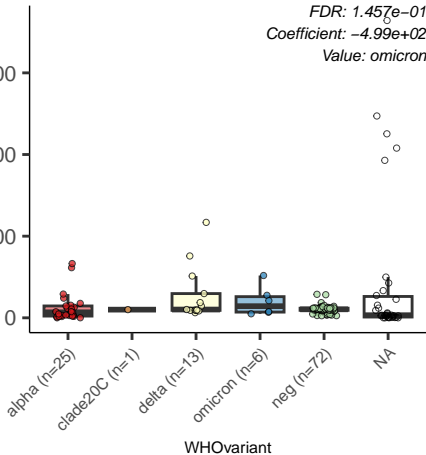


Bacteria.p_Spirochaetes.c_Spirochaetia.o_Spirochaetales.f_Bo

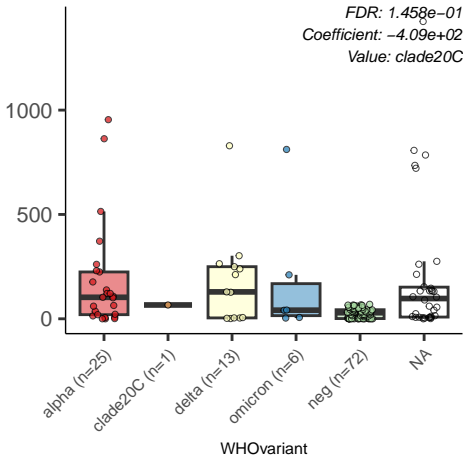


Gammaaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae

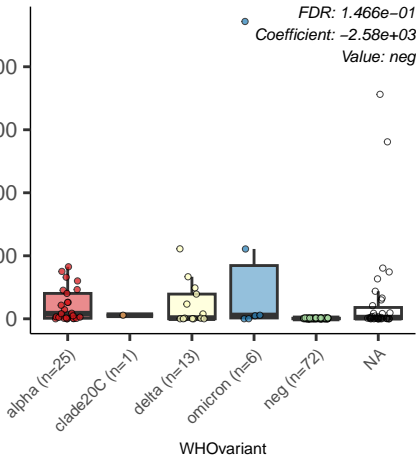
FDR: 1.457×10^{-1}
Coefficient: -4.99×10^2
Value: omicron

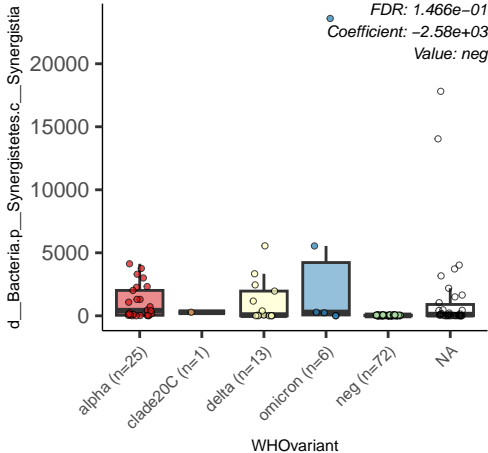


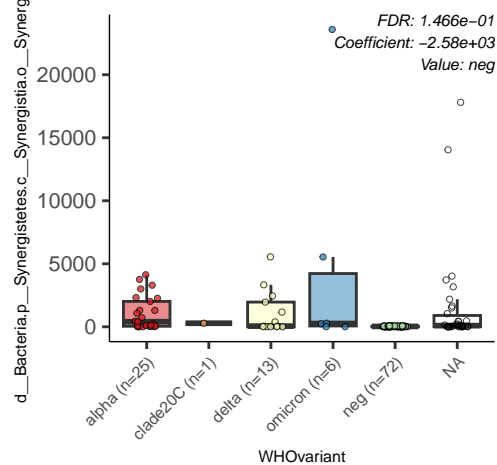
ria.c__Epsilonproteobacteria.o__Campylobacteriales.f__Helicobacte

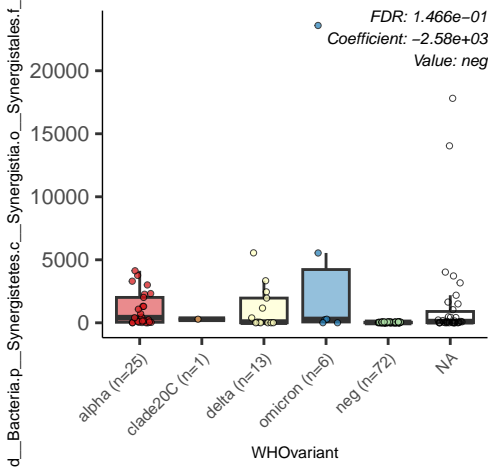


d_Bacteria.p_Synergistetes



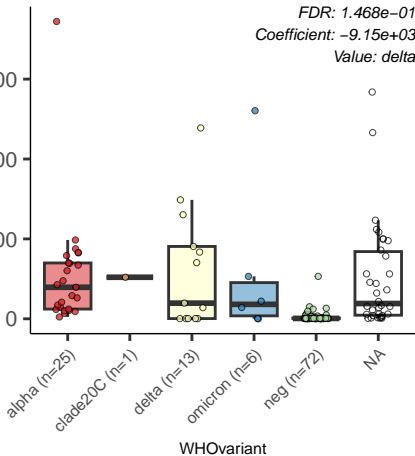


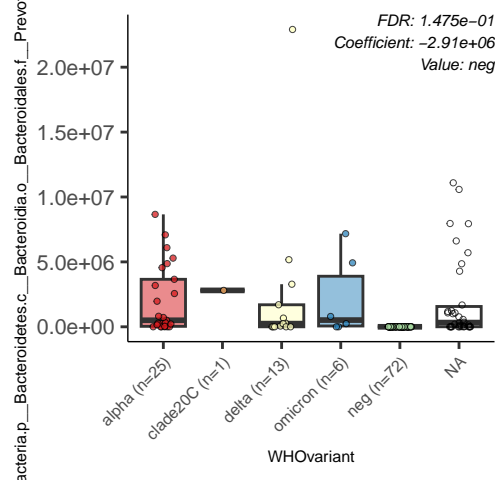


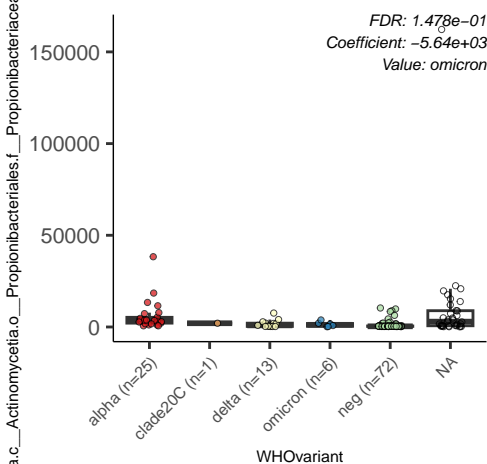


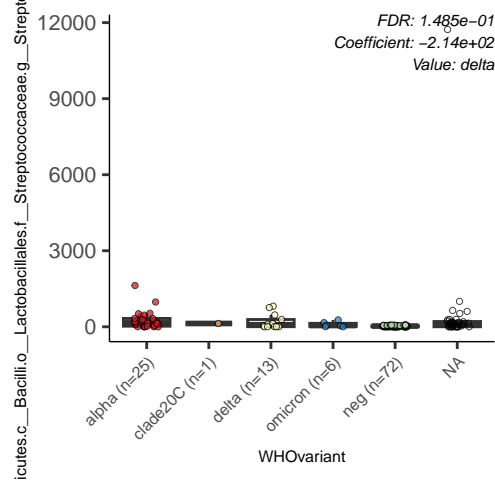
d__Bacteria.p__Firmicutes.c__Tissierellia

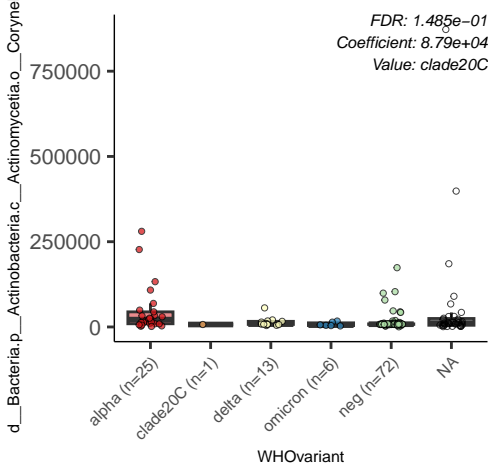
FDR: 1.468e-01
Coefficient: -9.15e+03
Value: delta





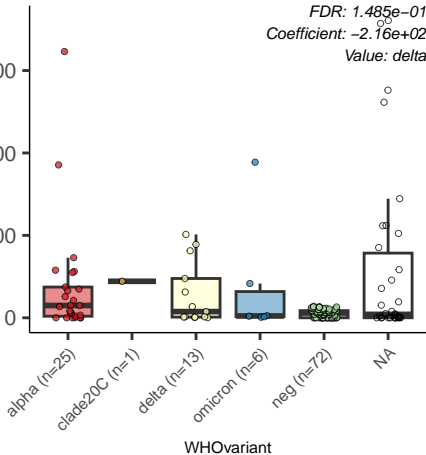


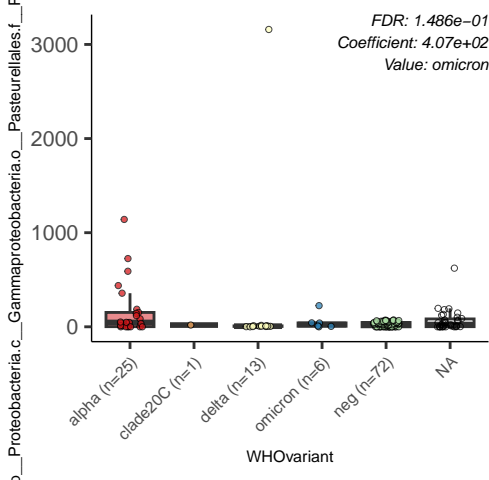




c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII...Incerta

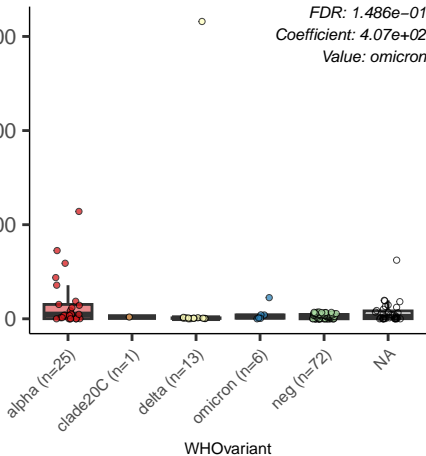
FDR: $1.485e-01$
Coefficient: $-2.16e+02$
Value: delta





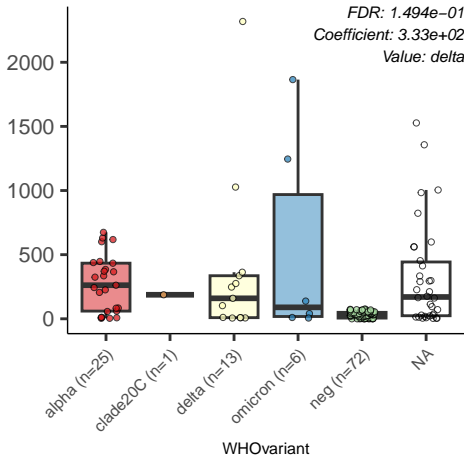
bacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurella

FDR: 1.486e-01
Coefficient: 4.07e+02
Value: omicron

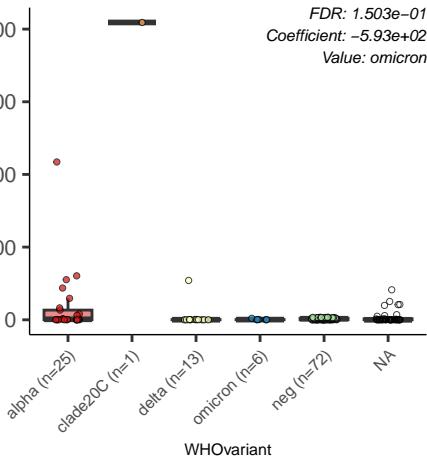


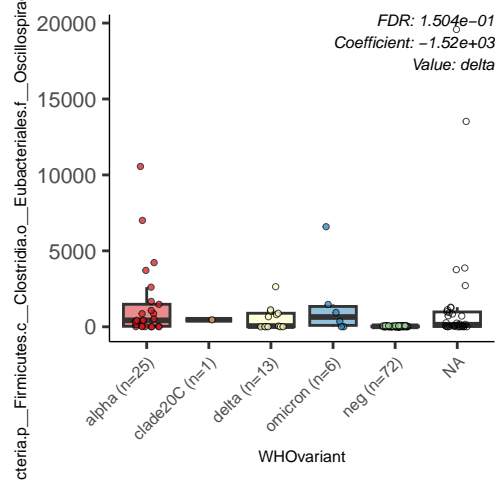
Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f

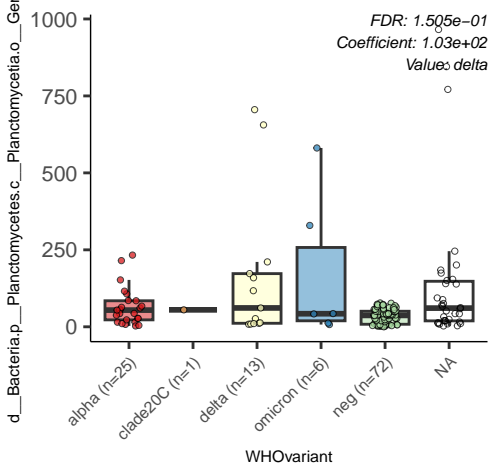
FDR: 1.494e-01
Coefficient: 3.33e+02
Value: delta

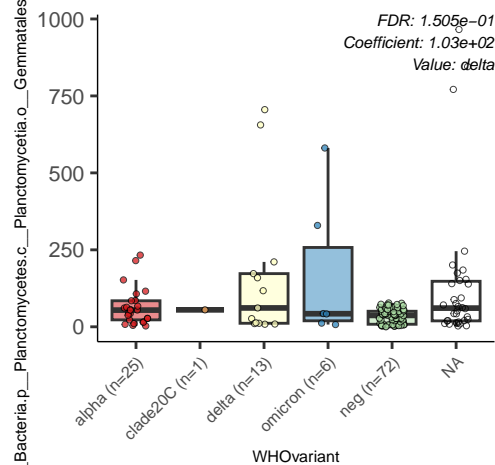


\$spirochaetes.c__Spirochaetia.o__Spirochaetales.f__Borreliaceae.g

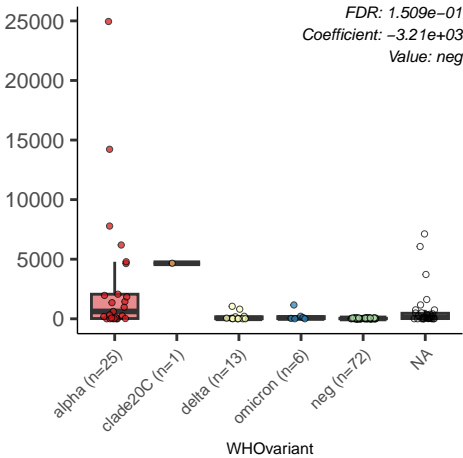


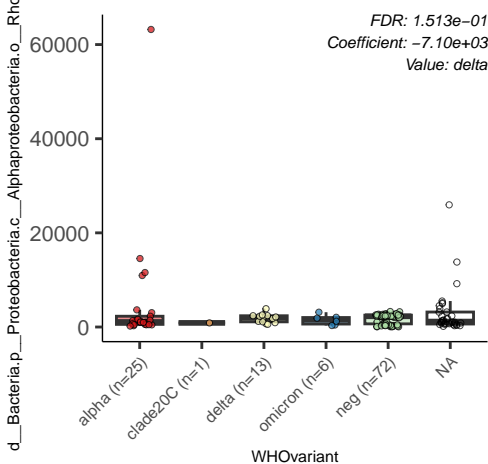






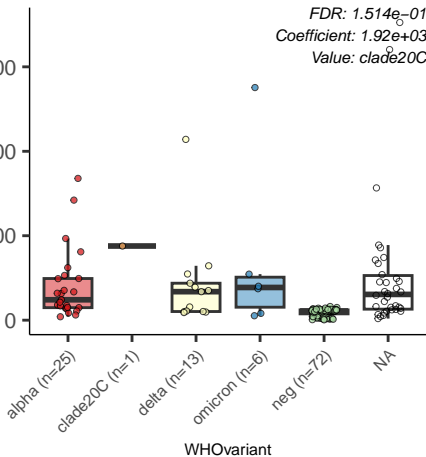
p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.





ria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonada

FDR: $1.514e-01$
Coefficient: $1.92e+03$
Value: clade20C



s.c__Bacteroidia.o__Bacteroidales.f__Porphyromonadaceae.g__Po

FDR: $1.516e-01$
Coefficient: $-1.49e+02$
Value: omicron

1000

500

0

alpha (n=25)

clade20C (n=1)

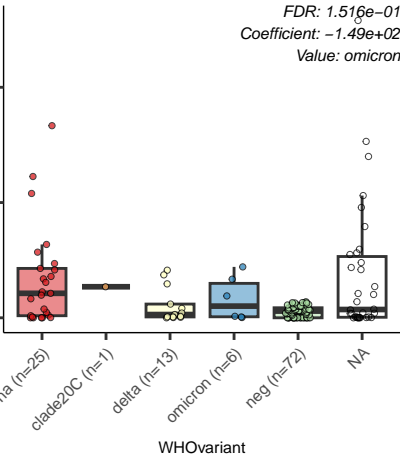
delta (n=13)

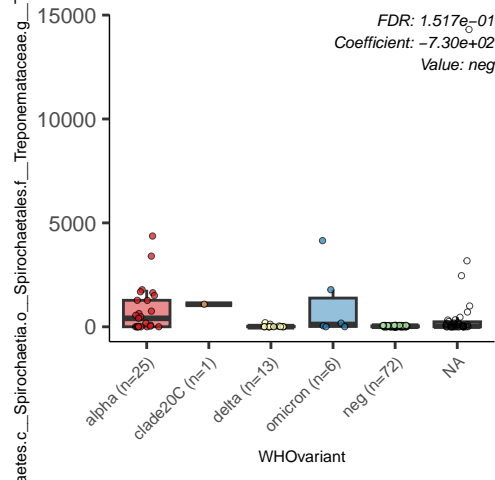
omicron (n=6)

neg (n=72)

NA

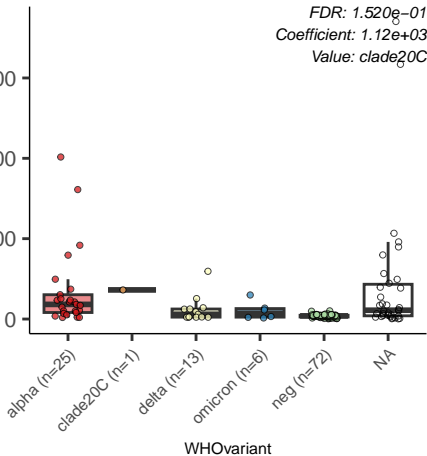
WHOvariant



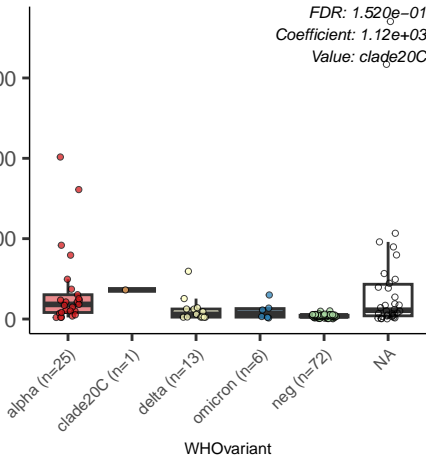


Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridia

FDR: 1.520×10^{-1}
Coefficient: 1.12×10^3
Value: clade20C

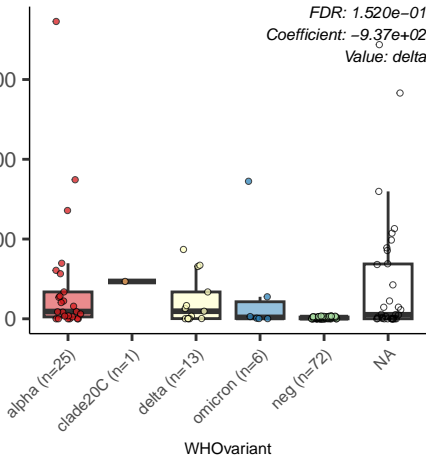


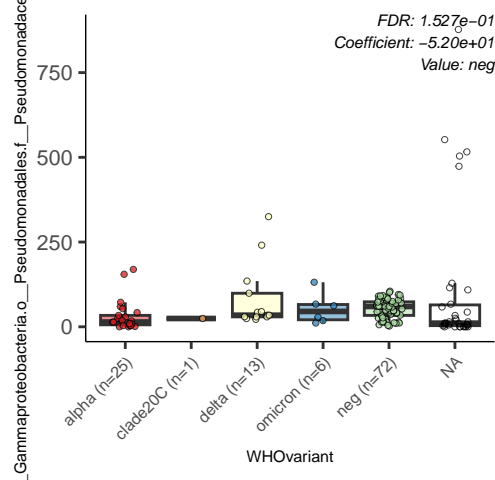
FDR: $1.520e-01$
Coefficient: $1.12e+03$
Value: clade20C

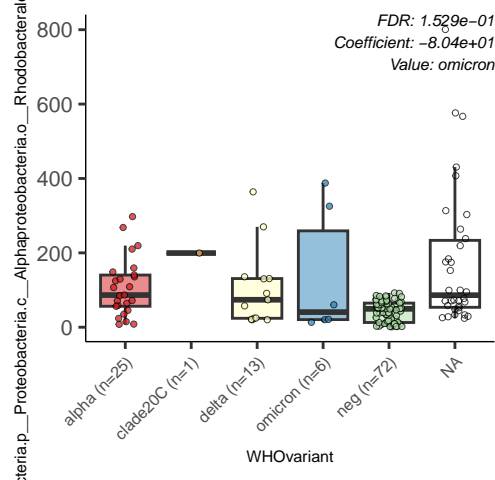


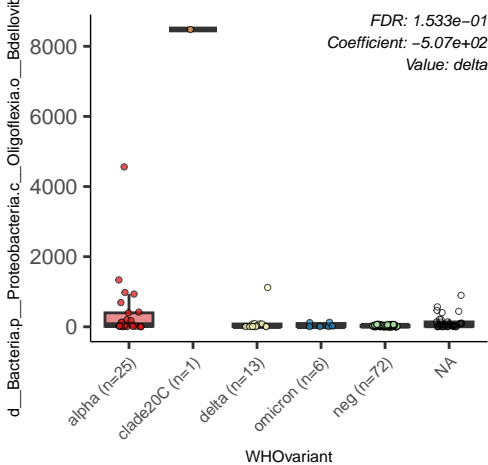
s.c._Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Incert

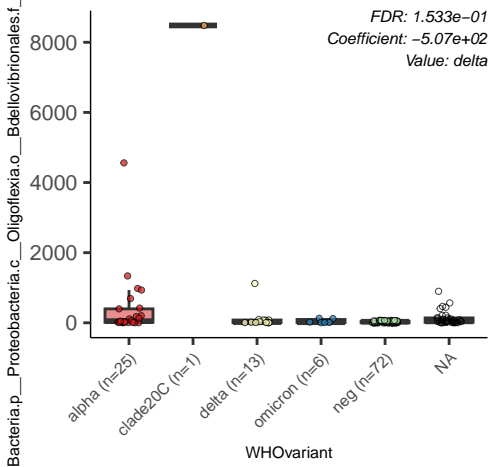
FDR: 1.520e-01
Coefficient: -9.37e+02
Value: delta

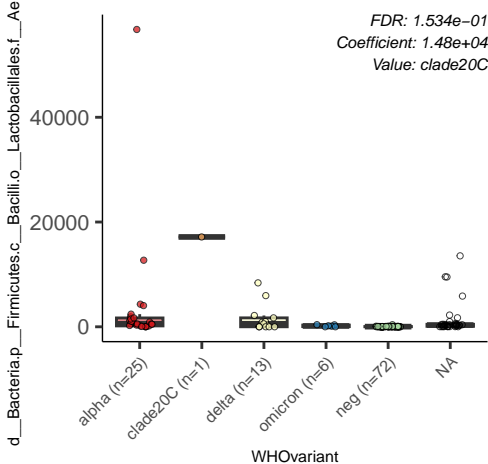




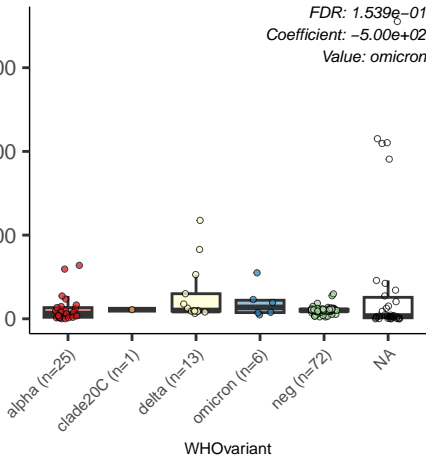




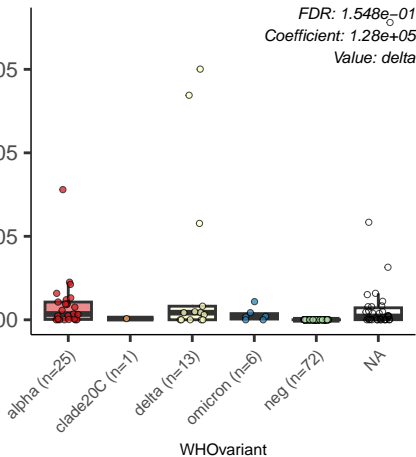




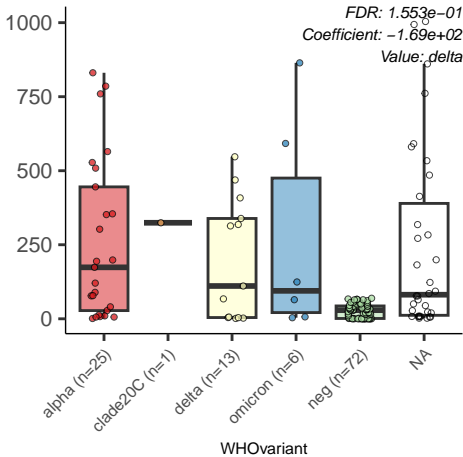
FDR: 1.539×10^{-1}
 Coefficient: -5.00×10^2
 Value: omicron

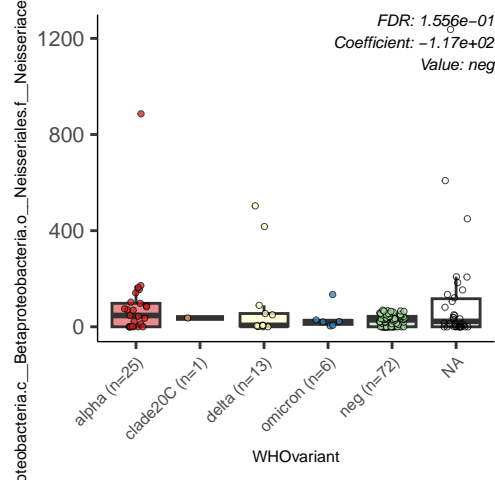


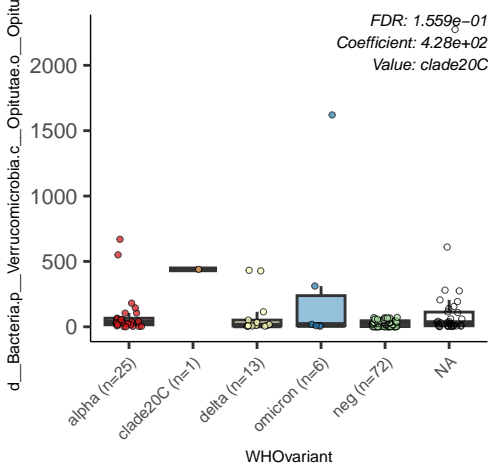
tinobacteria.c__Actinomycetia.o__Micrococcales.f__Micrococcaceae

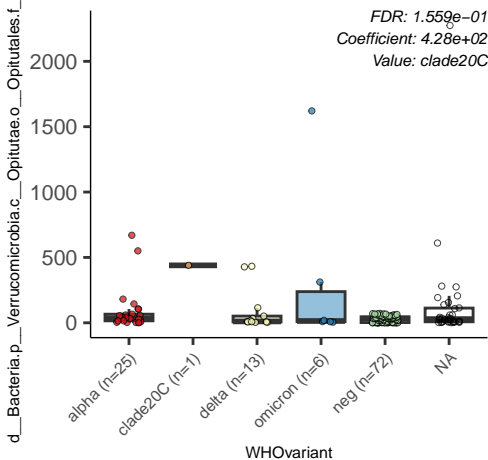


eria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterales.f__T



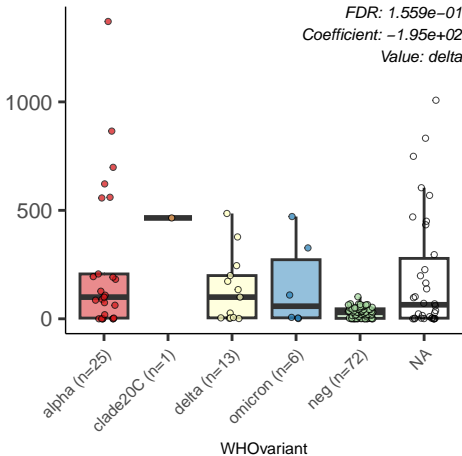






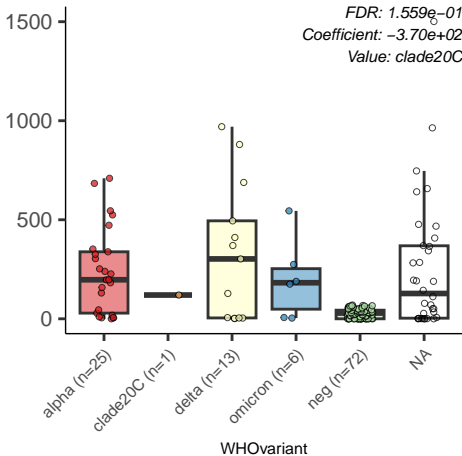
ia.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavo

FDR: 1.559×10^{-1}
Coefficient: -1.95×10^2
Value: delta



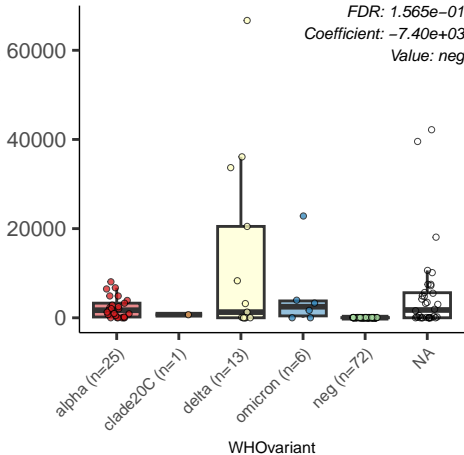
teria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Baci

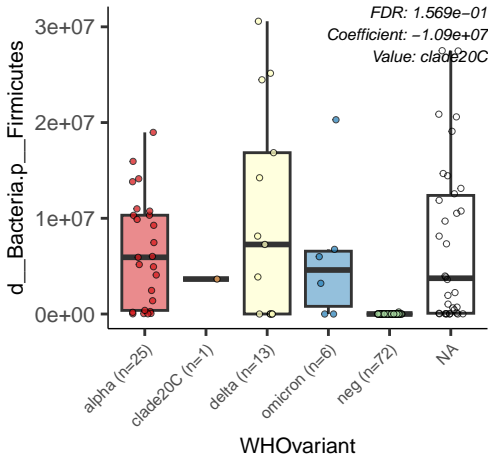
FDR: 1.559e-01
Coefficient: -3.70e+02
Value: clade20C



icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

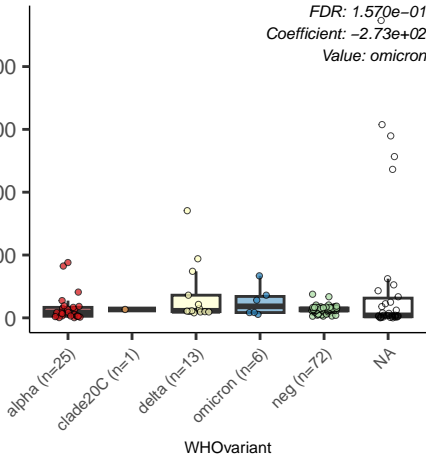
FDR: 1.565e-01
Coefficient: -7.40e+03
Value: neg



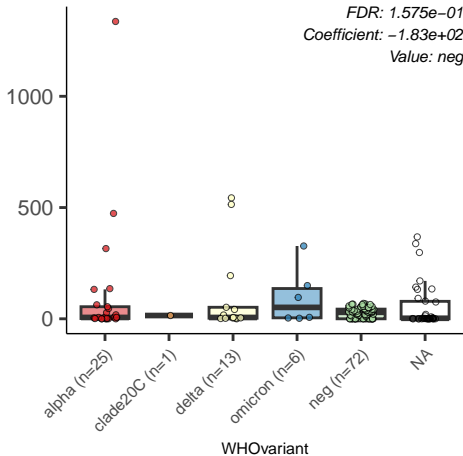


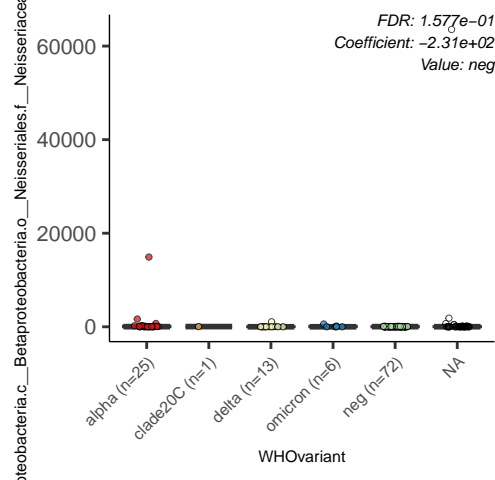
Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Xa

FDR: $1.570e-01$
Coefficient: $-2.73e+02$
Value: omicron



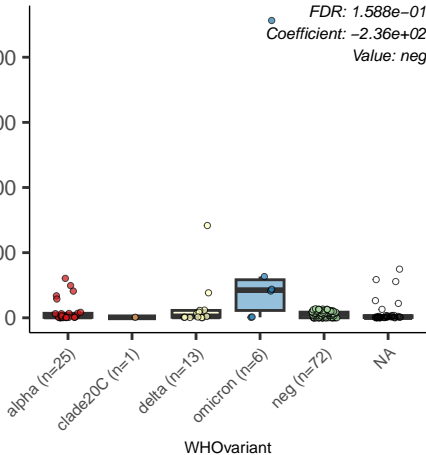
FDR: 1.575e-01
Coefficient: -1.83e+02
Value: neg



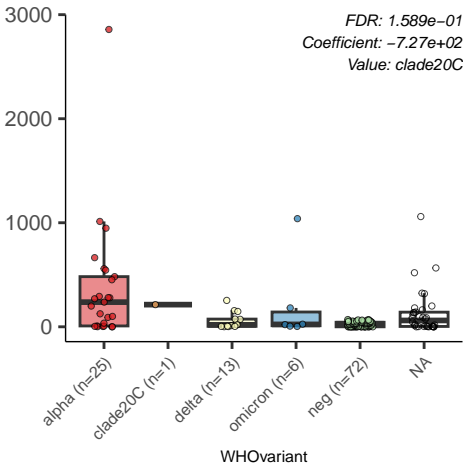


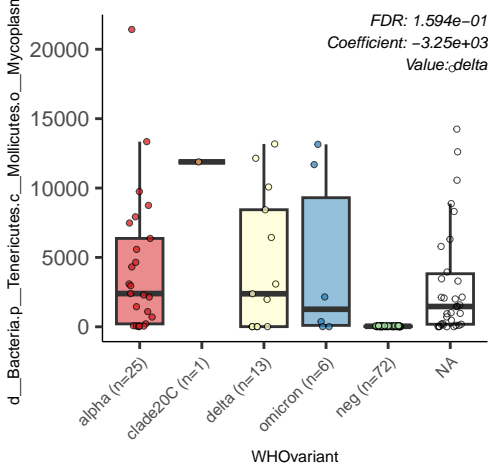
Actinomycetia.o__Propionibacteriales.f__Propionibacteriaceae.g__F

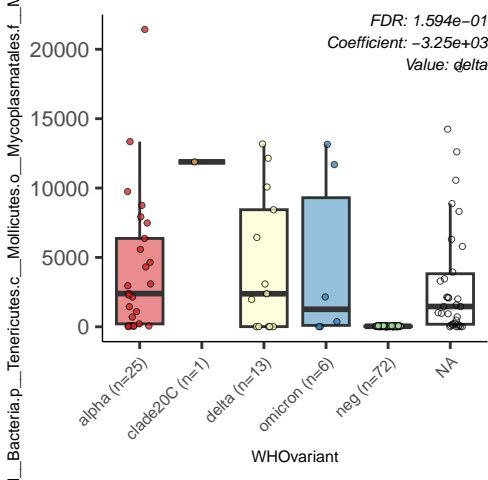
FDR: 1.588e-01
Coefficient: -2.36e+02
Value: neg



utes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Anaeroc

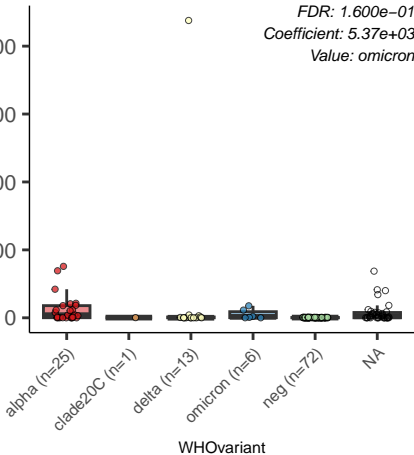






Gammaproteobacteria.o_Pasteurellales.f_Pasteurellaceae.g_A

FDR: 1.600e-01
Coefficient: 5.37e+03
Value: omicron



Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae

FDR: 1.603e-01
Coefficient: -3.48e+04
Value: neg

2e+05

1e+05

0e+00

alpha (n=25)

clade20C (n=1)

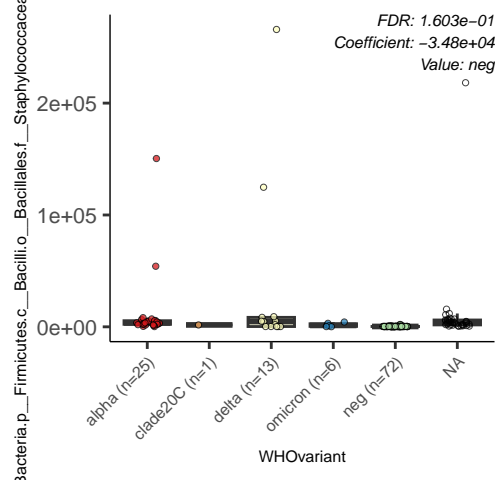
delta (n=13)

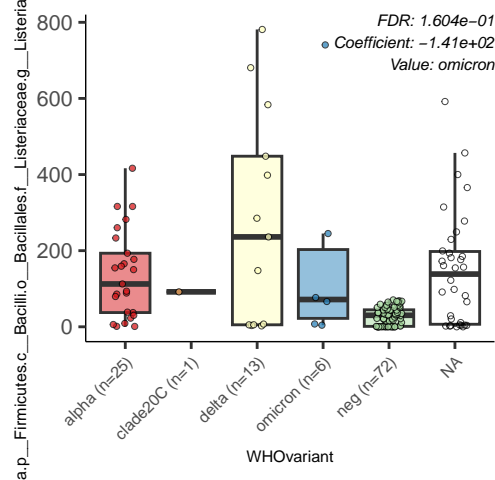
omicron (n=6)

neg (n=72)

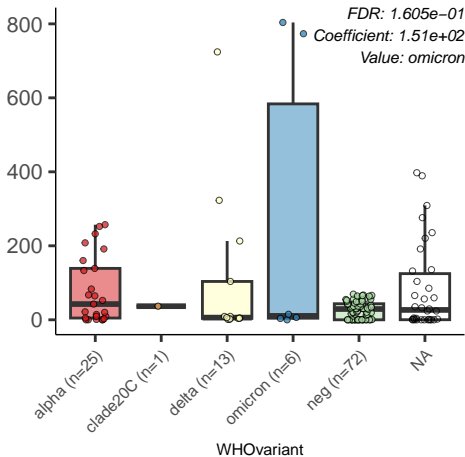
NA

WHOvariant

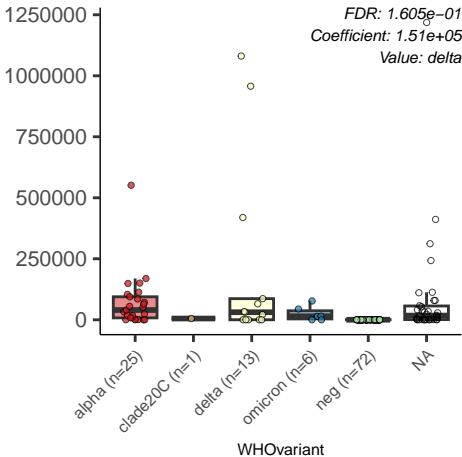




Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Rikenellaceae.g

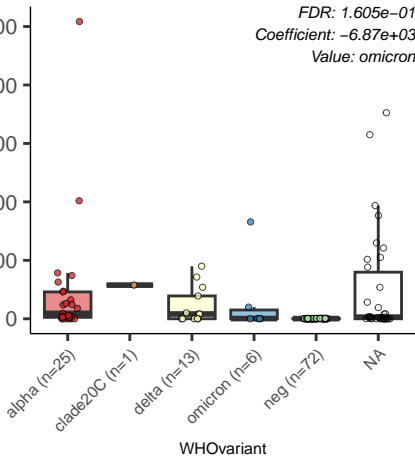


Actinobacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Micrococcales.g_Micrococcales.h_Micrococcales.i_Micrococcales.j_Micrococcales.k_Micrococcales.l_Micrococcales.m_Micrococcales.n_Micrococcales.o_Micrococcales.p_Micrococcales.q_Micrococcales.r_Micrococcales.s_Micrococcales.t_Micrococcales.u_Micrococcales.v_Micrococcales.w_Micrococcales.x_Micrococcales.y_Micrococcales.z_Micrococcales

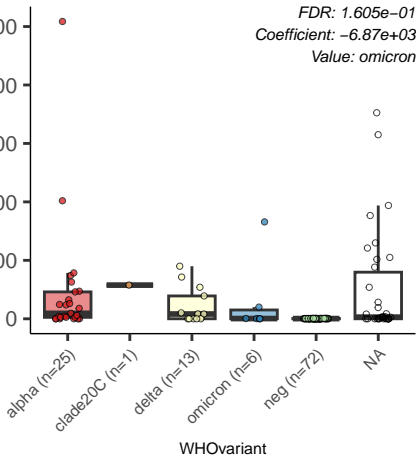


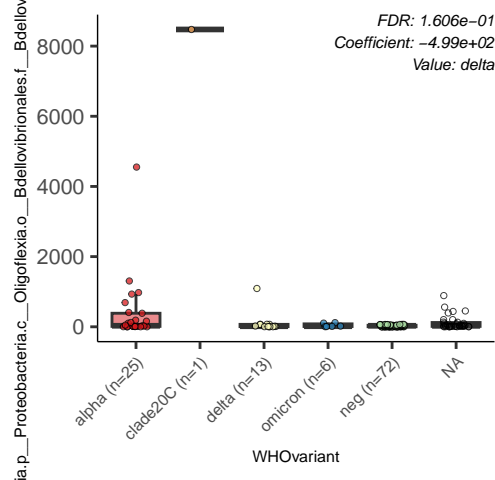
Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.X

FDR: 1.605e-01
Coefficient: -6.87e+03
Value: omicron



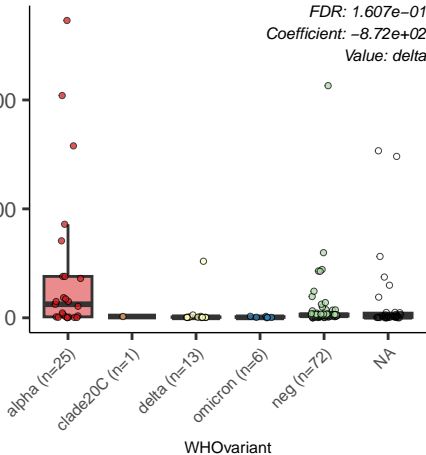
Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Incertae.S





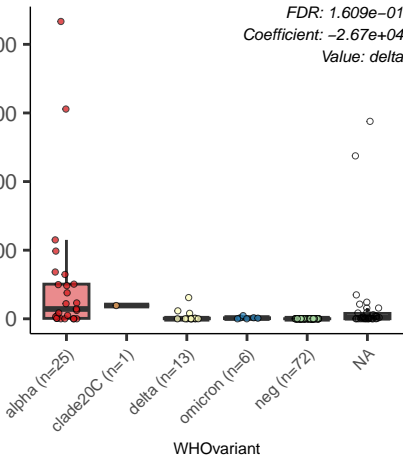
Actinomycetia.o__Corynebacteriales.f__Corynebacteriaceae.g

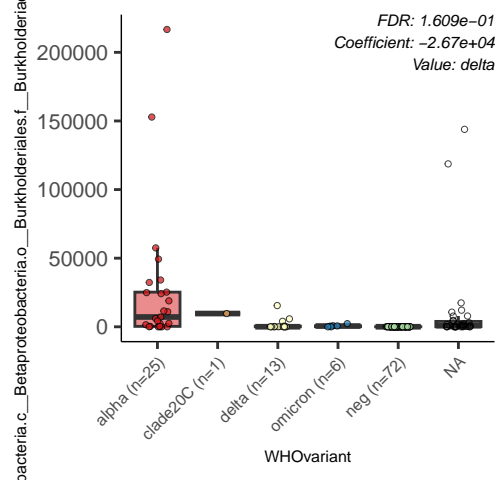
FDR: 1.607e-01
Coefficient: -8.72e+02
Value: delta



p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__B

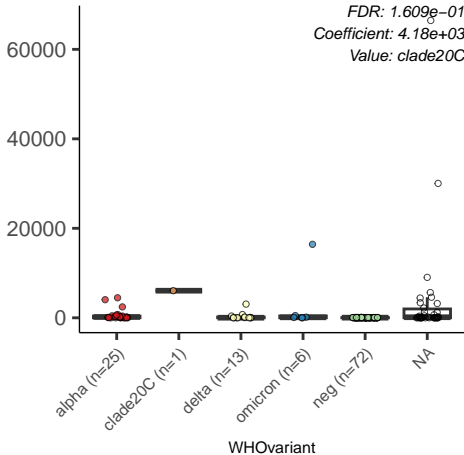
FDR: 1.609e-01
Coefficient: -2.67e+04
Value: delta

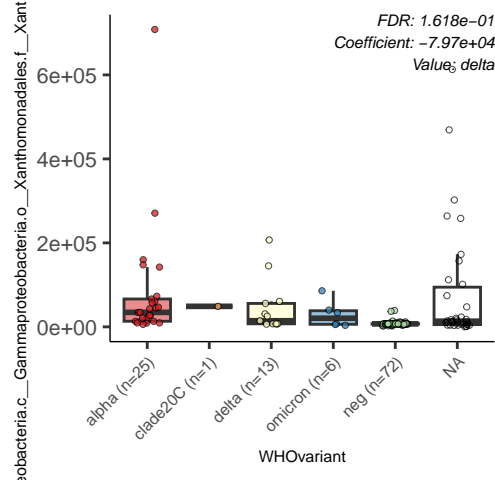




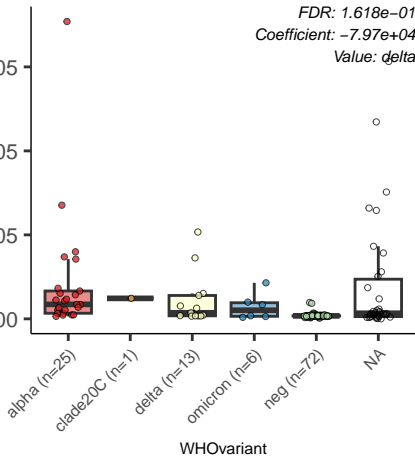
detes.c__Bacteroidia.o__Bacteroidales.f__Tannerellaceae.g__Parat

FDR: $1.609e-01$
Coefficient: $4.18e+03$
Value: clade20C

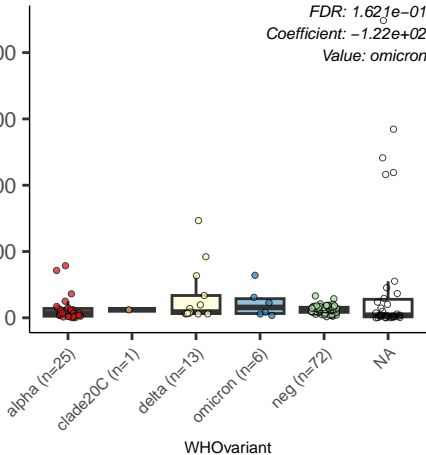


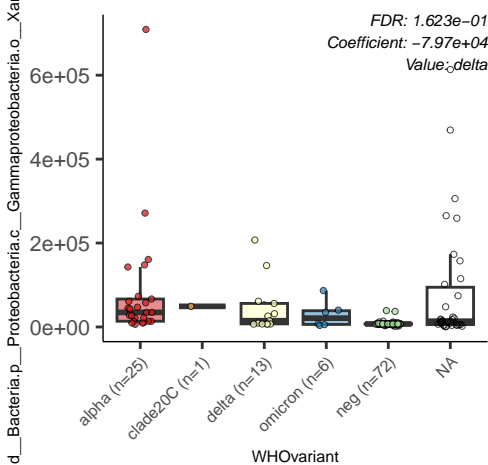


FDR: 1.618e-01
Coefficient: -7.97e+04
Value: delta



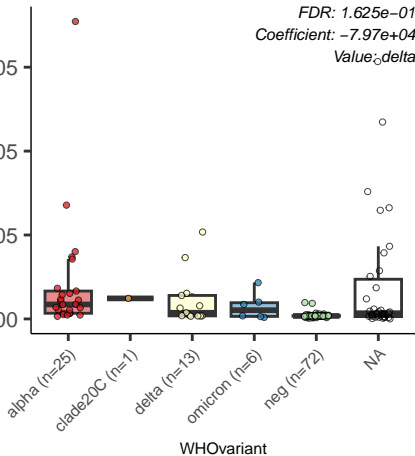
FDR: 1.621×10^{-1}
Coefficient: -1.22×10^2
Value: omicron

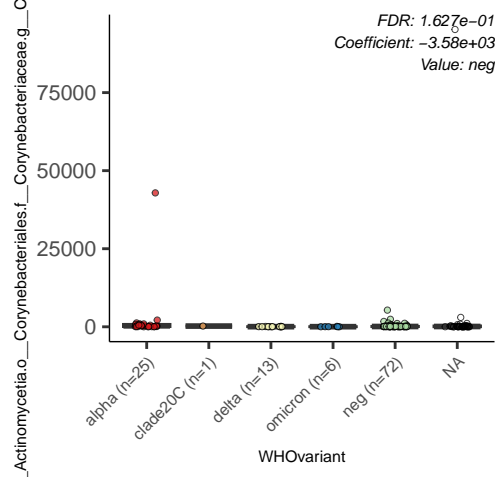




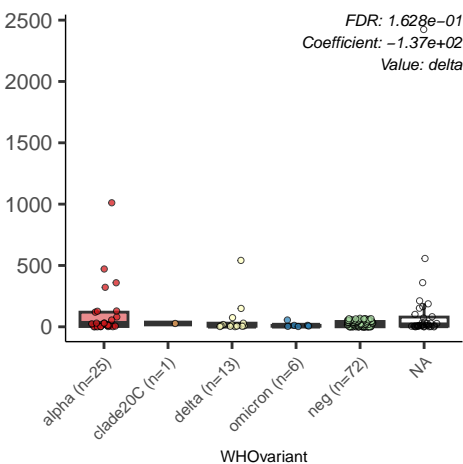
ria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonada

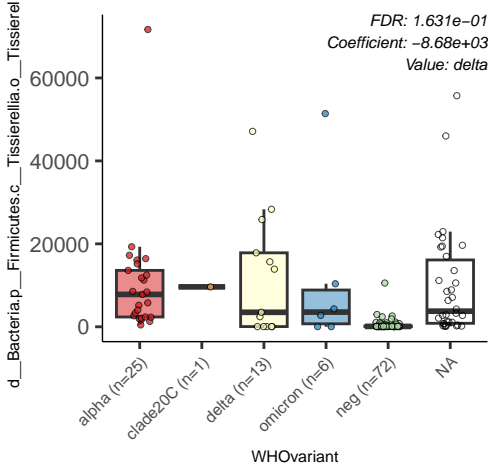
FDR: 1.625e-01
Coefficient: -7.97e+04
Value_odelta

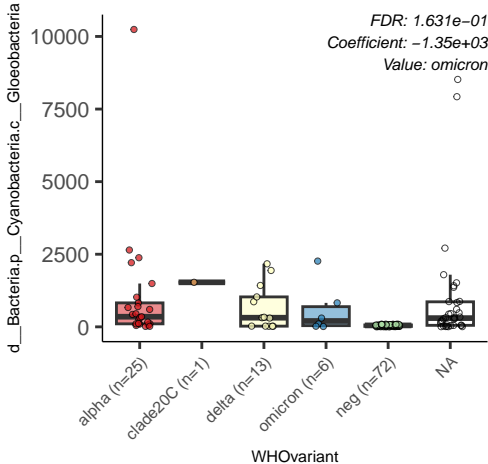




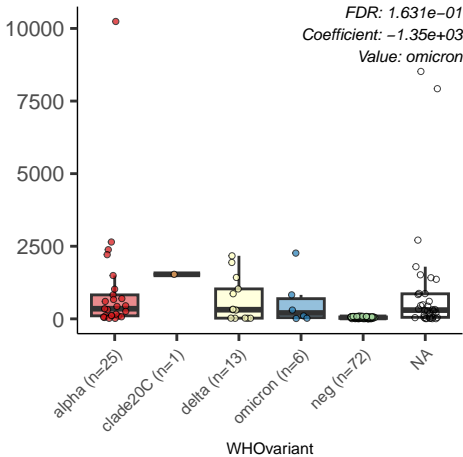
bacteria.c__Actinomycetia.o__Propionibacteriales.f__Propionibacter



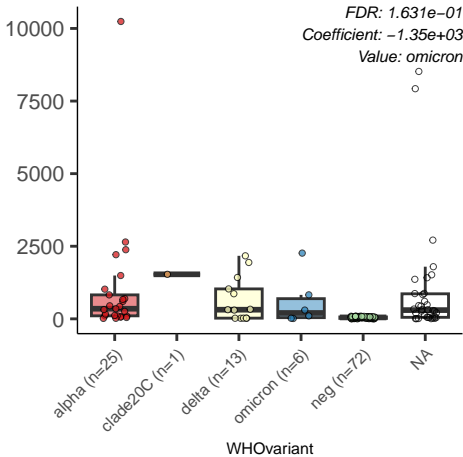




d__Bacteria.p__Cyanobacteria.c__Gloeobacteria.o__Gloeobacter

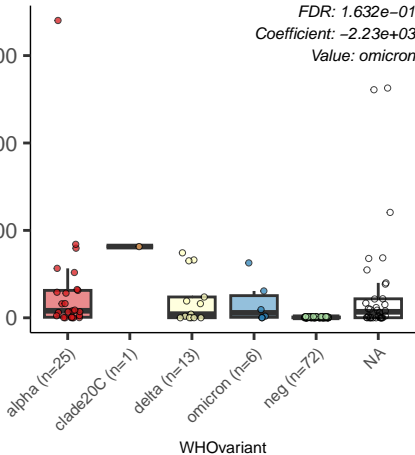


Bacteria.p__Cyanobacteria.c__Gloeobacteria.o__Gloeobacterales.f.

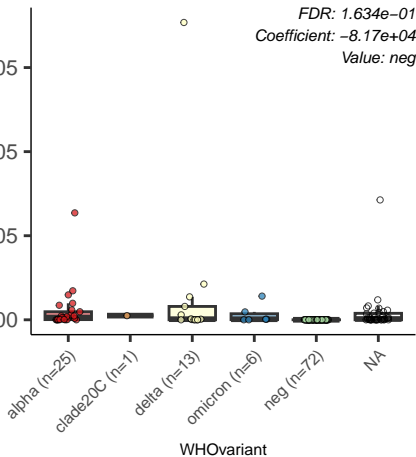


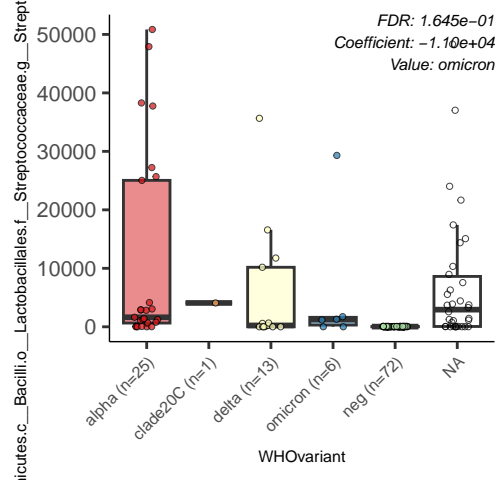
p_Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipe

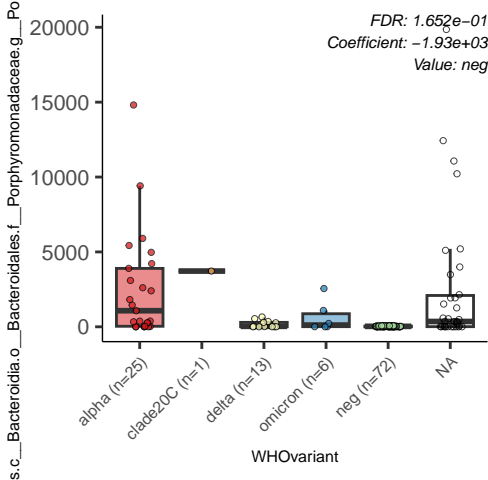
FDR: 1.632e-01
Coefficient: -2.23e+03
Value: omicron



rmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XI

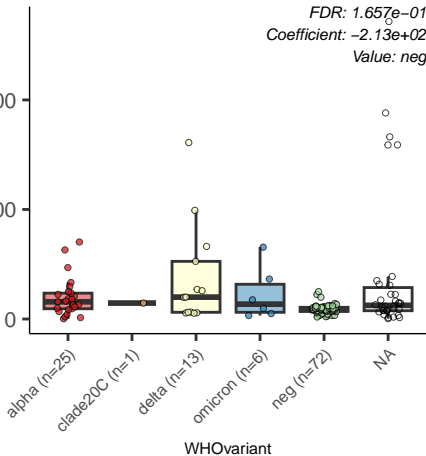


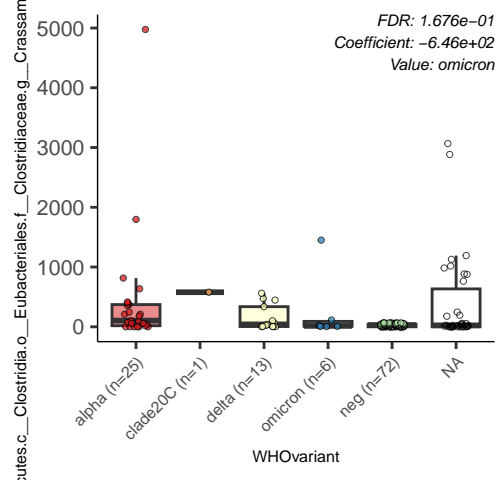




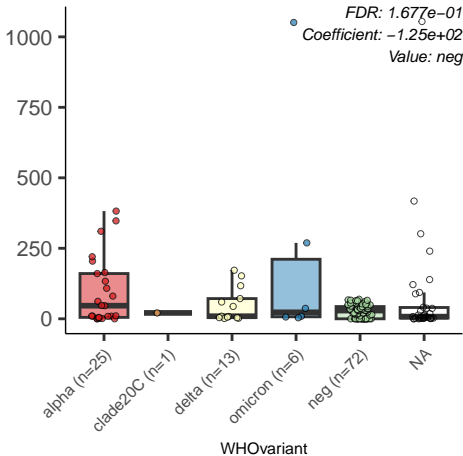
Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales.f__E

FDR: $1.657e-01$
Coefficient: $-2.13e+02$
Value: neg

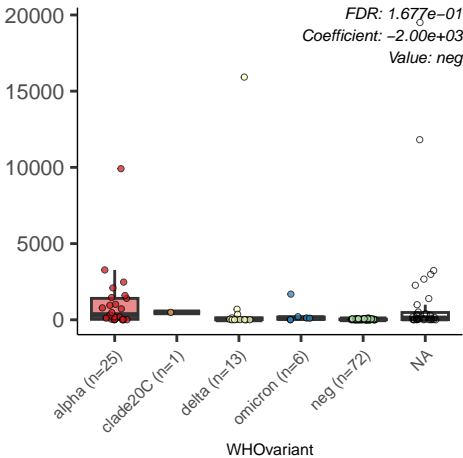




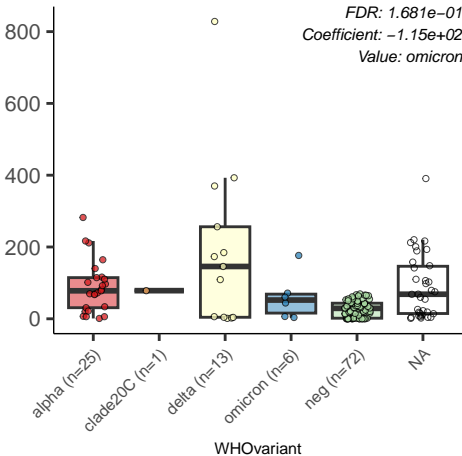
gisteretes.c__Synergistia.o__Synergistales.f__Synergistaceae.g__Cl



obacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae.

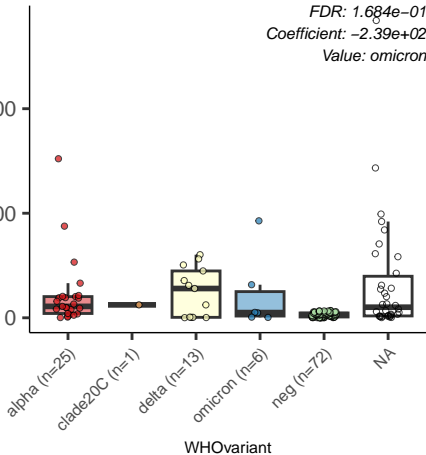


eria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g_Priest



d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae

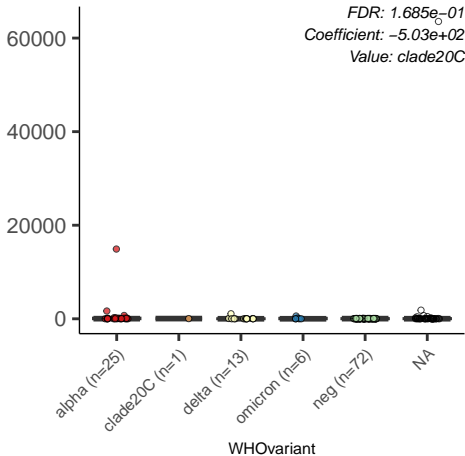
FDR: $1.684e-01$
Coefficient: $-2.39e+02$
Value: omicron



FDR: 1.685e-01

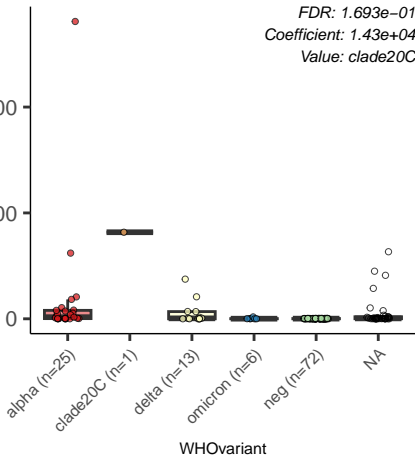
Coefficient: $-5.03e+02$

Value: *clade20C*



_Bacteria.p__Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcca

FDR: 1.693e-01
Coefficient: 1.43e+04
Value: clade20C



Firmicutes.c__Bacilli.o__Lactobacillales.f__Aerococcaceae.g__Abi

FDR: 1.693e-01
Coefficient: 1.43e+04
Value: clade20C

40000

20000

0

alpha (n=25)

clade20C (n=1)

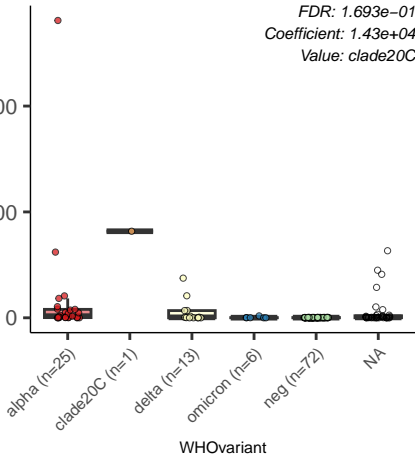
delta (n=13)

omicron (n=6)

neg (n=72)

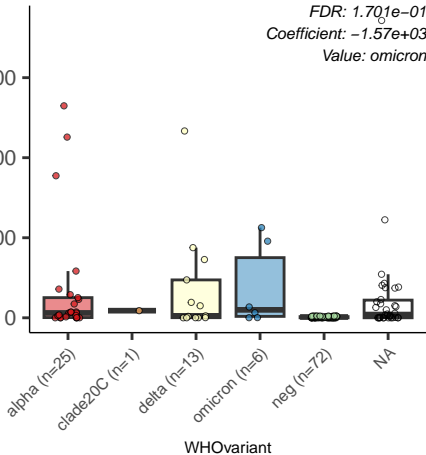
NA

WHOvariant

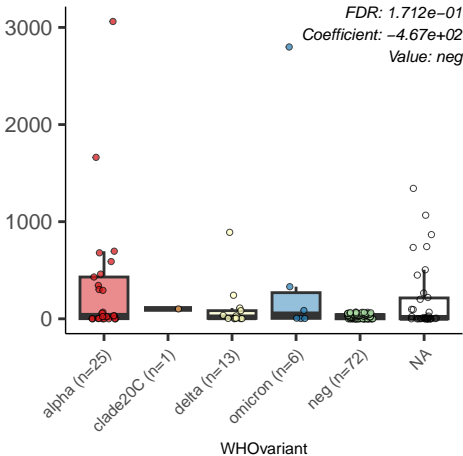


Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g__Se

FDR: $1.701e-01$
Coefficient: $-1.57e+03$
Value: omicron

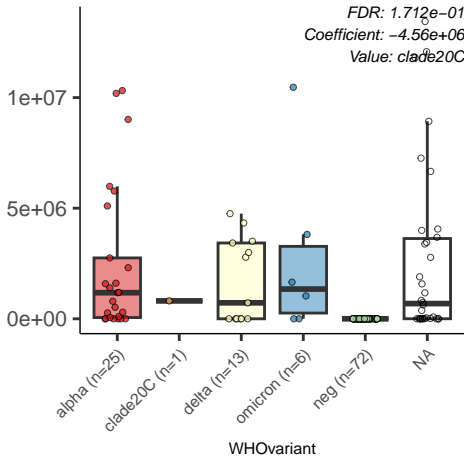


Εpsilonproteobacteria.o__Campylobacteriales.f__Campylobacteraceae



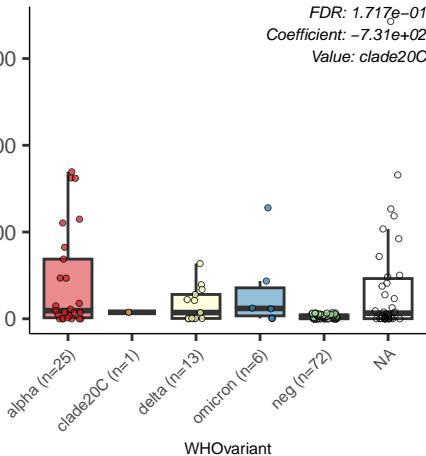
bacteria.p__Firmicutes.c__Negativicutes.o__Veillonellales.f__Veillon

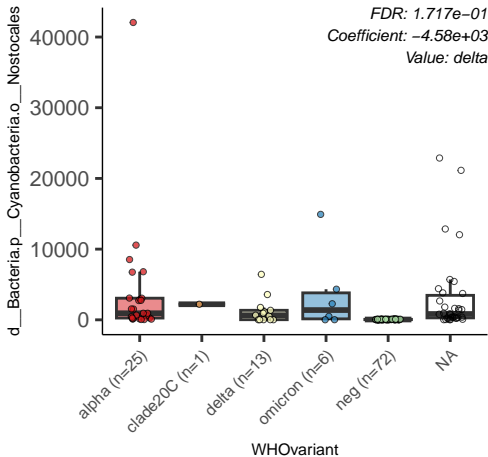
FDR: 1.712×10^{-1}
Coefficient: -4.56×10^6
Value: clade20C

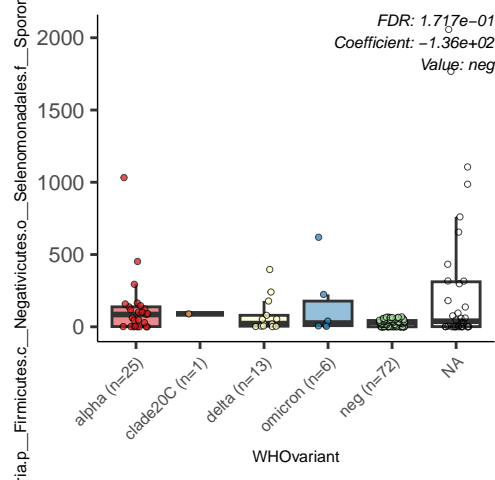


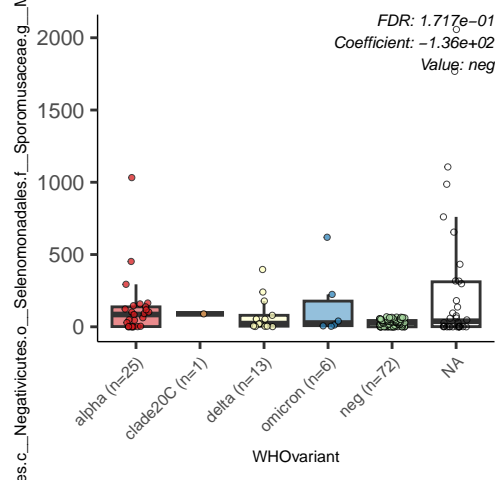
Firmicutes.c__Negativicutes.o__Acidaminococcales.f__Acidaminob

FDR: $1.717e-01$
Coefficient: $-7.31e+02$
Value: clade20C



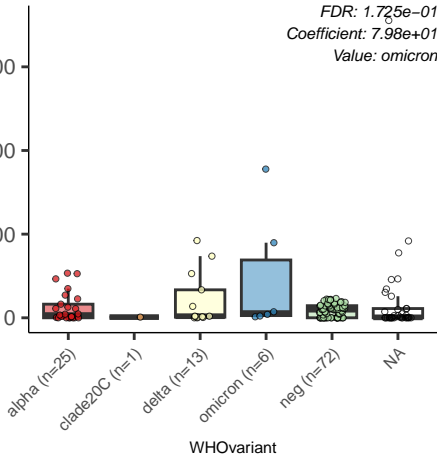




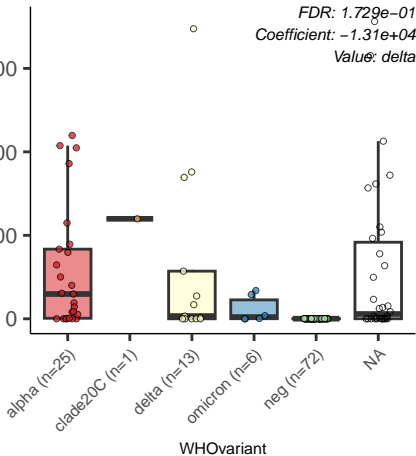


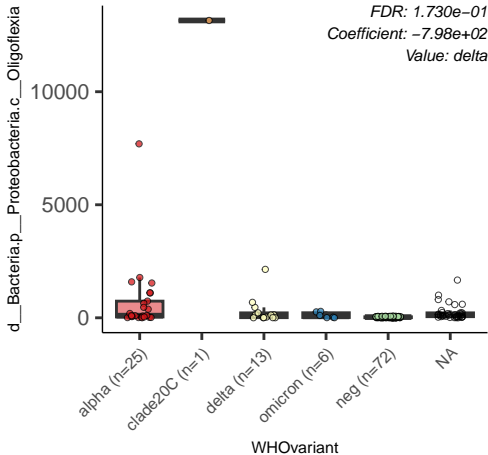
c__Synergistia.o__Synergistales.f__Synergistaceae.g__Thermana

FDR: $1.725e-01$
Coefficient: $7.98e+01$
Value: omicron

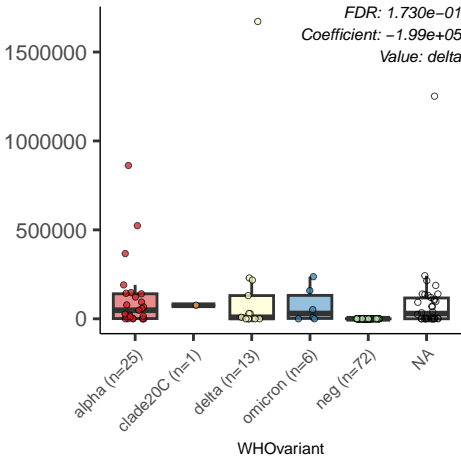


charimonadia.o__Candidatus.Nanosynbacterales.f__Candidatus.Na

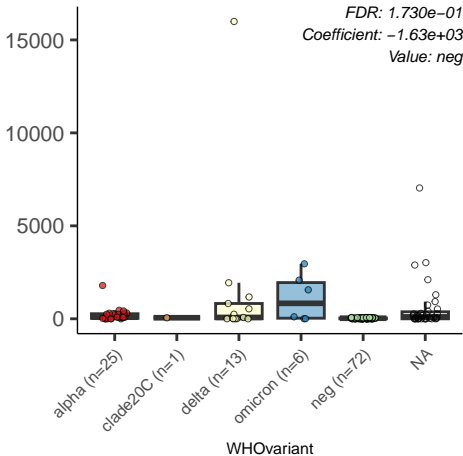




FDR: 1.730e-01
Coefficient: -1.99e+05
Value: delta

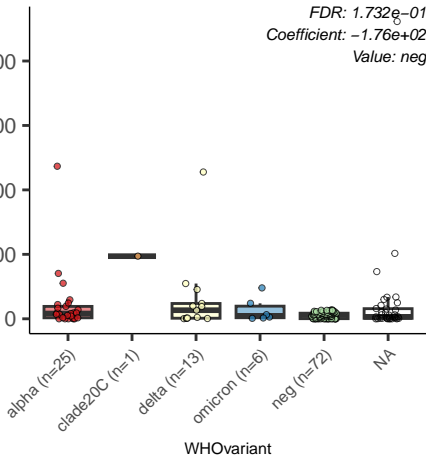


icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus



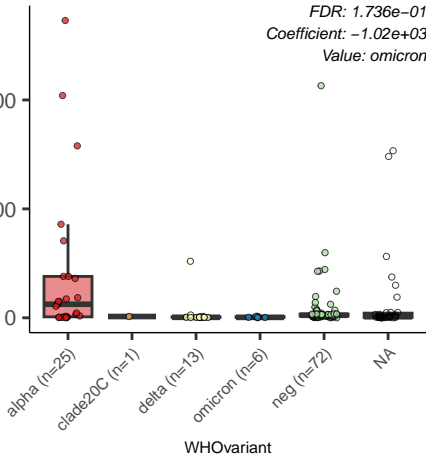
_Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Alicyclobacillace

FDR: $1.732e-01$
Coefficient: $-1.76e+02$
Value: neg



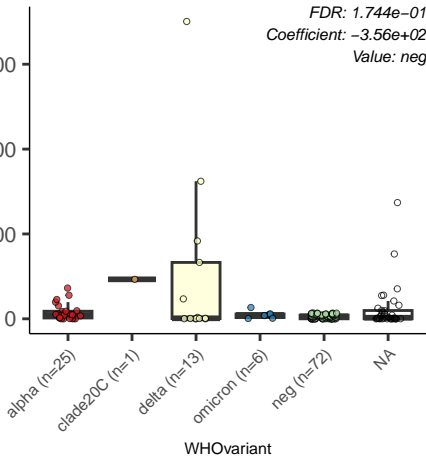
Actinomycetia.o__Corynebacteriales.f__Corynebacteriaceae.g

FDR: $1.736e-01$
Coefficient: $-1.02e+03$
Value: omicron



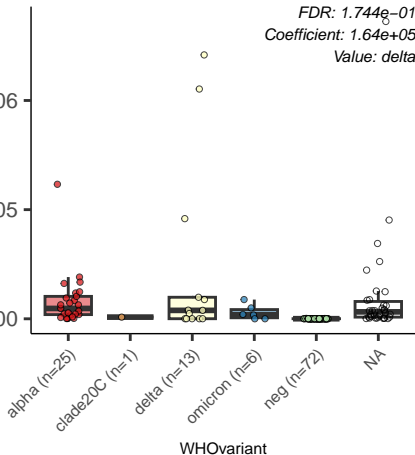
tes.c_Mollicutes.o_Mycoplasmatales.f_Mycoplasmataceae.g_

FDR: 1.744e-01
Coefficient: -3.56e+02
Value: neg

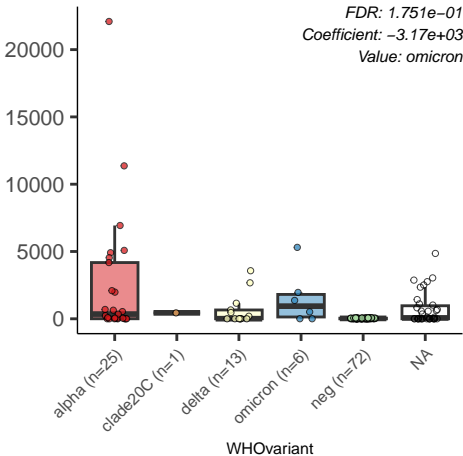


Bacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f

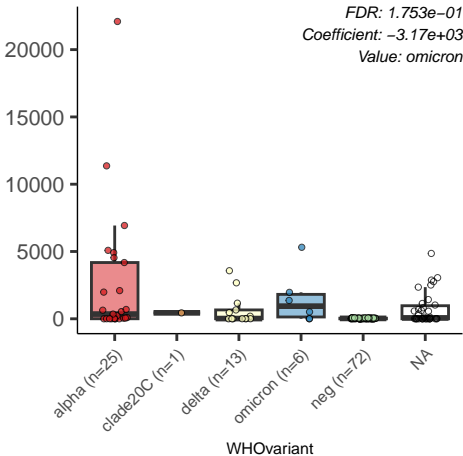
FDR: 1.744×10^{-1}
Coefficient: 1.64×10^5
Value: delta



bacteria.c_Actinomycetia.o_Micrococcales.f_Microbacteriaceae.g

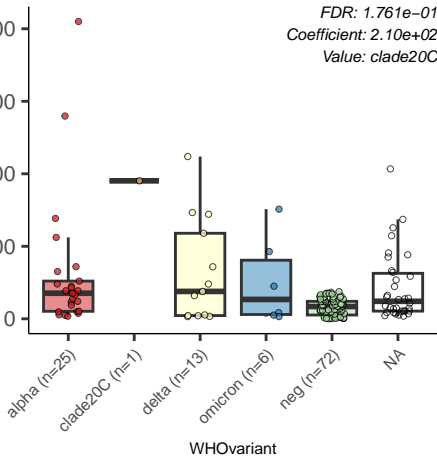


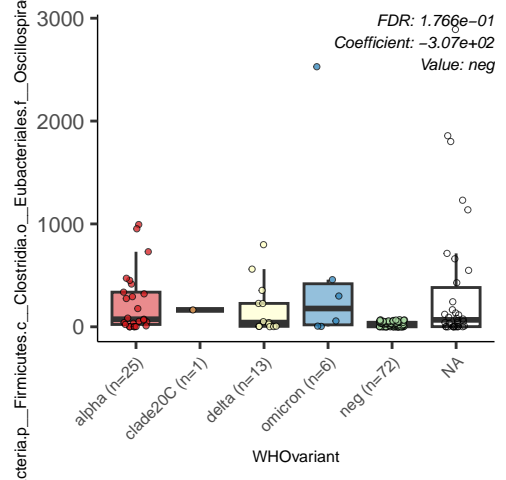
ia.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Microb

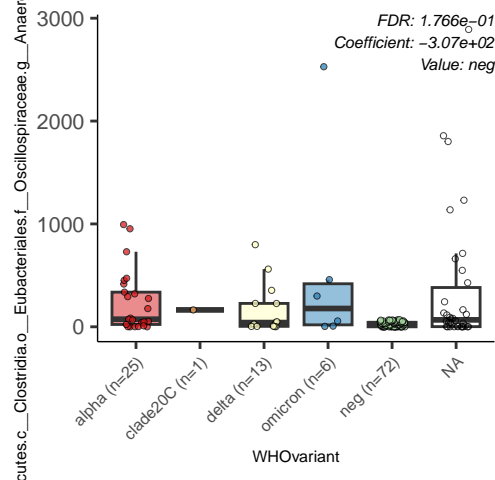


d_Bacteria.p__Cyanobacteria.o__Chroococcales

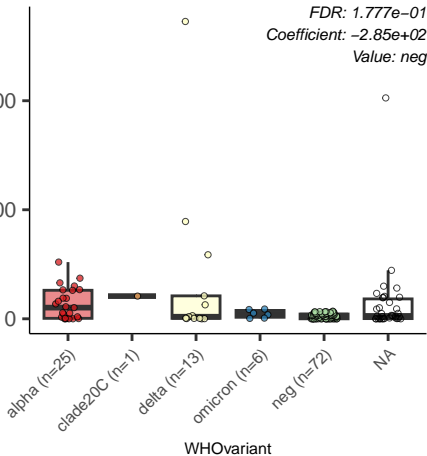
FDR: 1.761e-01
Coefficient: 2.10e+02
Value: clade20C

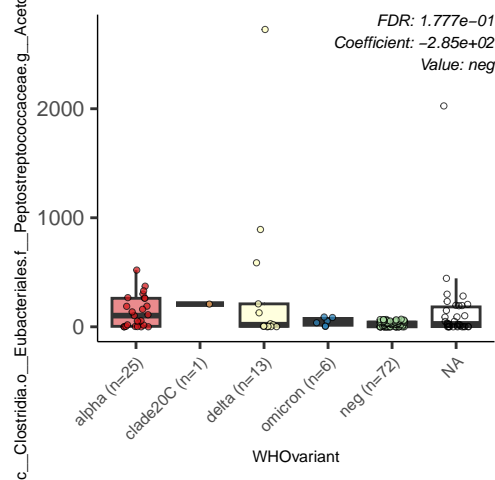


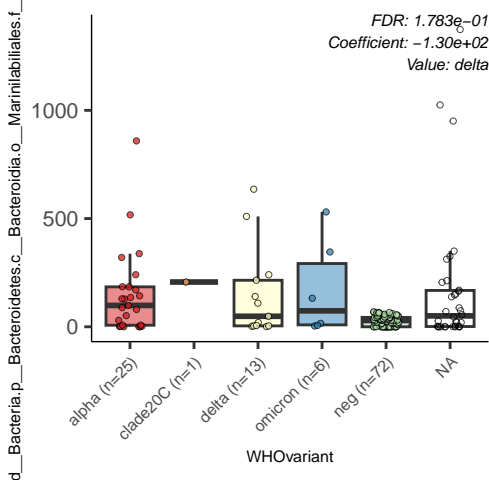


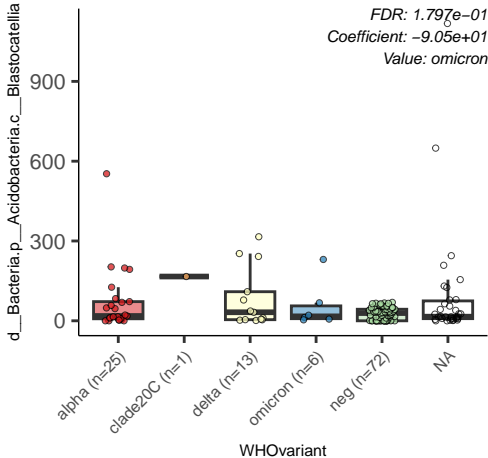


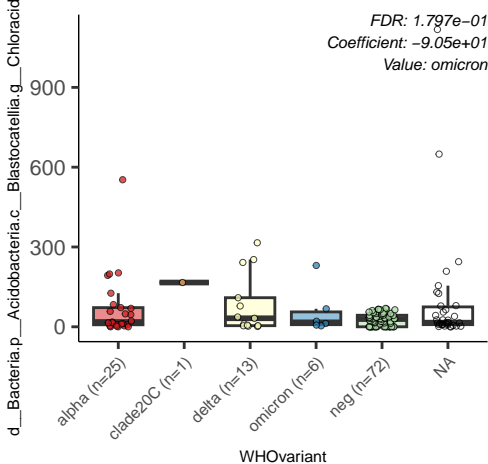
FDR: 1.777e-01
Coefficient: -2.85e+02
Value: neg



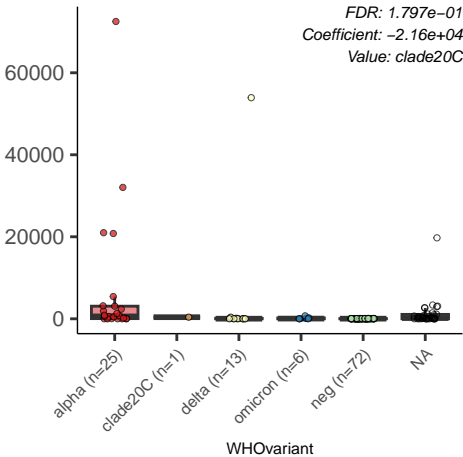






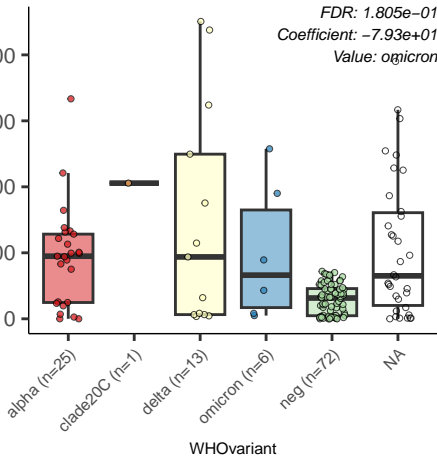


ria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae



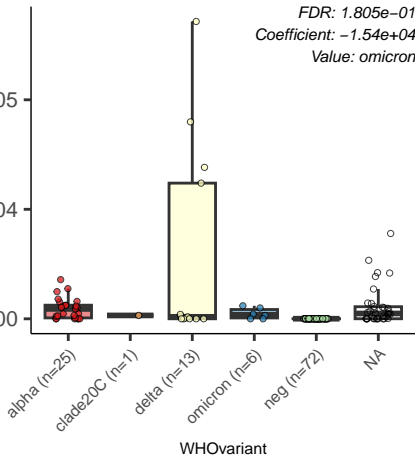
o__Cyanobacteria.o__Oscillatoriales.f__Oscillatoriaceae.g__Oscilla

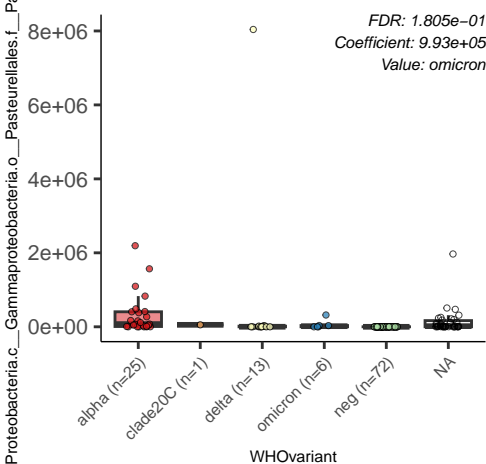
FDR: 1.805e-01
Coefficient: -7.93e+01
Value: omicron



micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

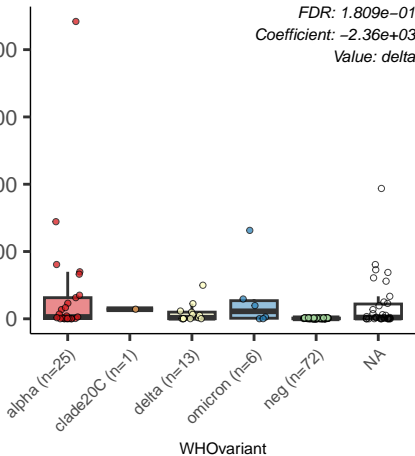
FDR: 1.805e-01
Coefficient: -1.54e+04
Value: omicron



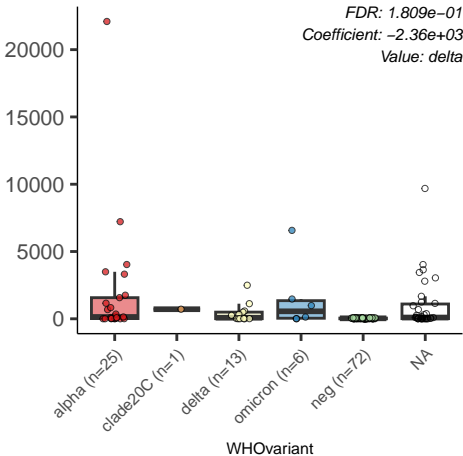


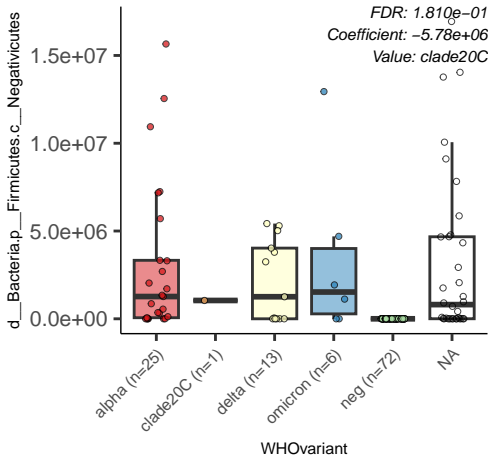
d__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Listeriaceae

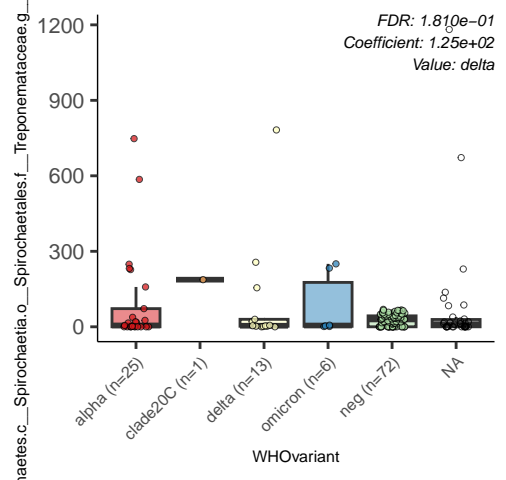
FDR: 1.809e-01
Coefficient: -2.36e+03
Value: delta

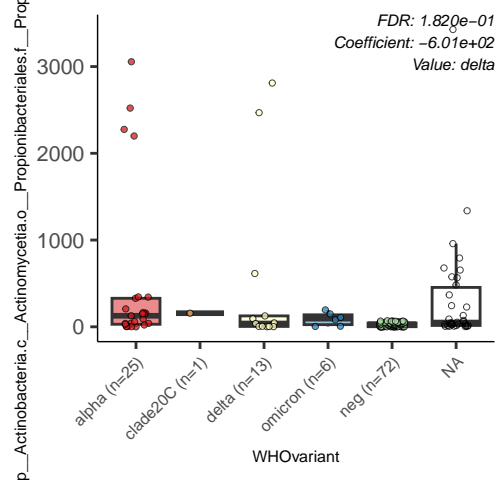


Firmicutes.c_Bacilli.o_Bacillales.f_Listeriaceae.g_Brochothrix



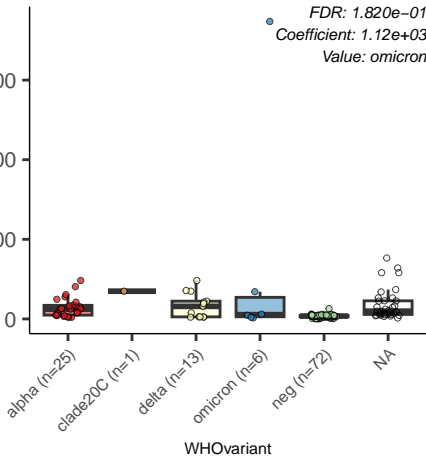




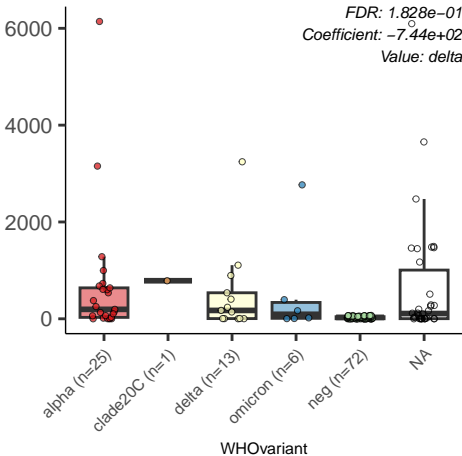


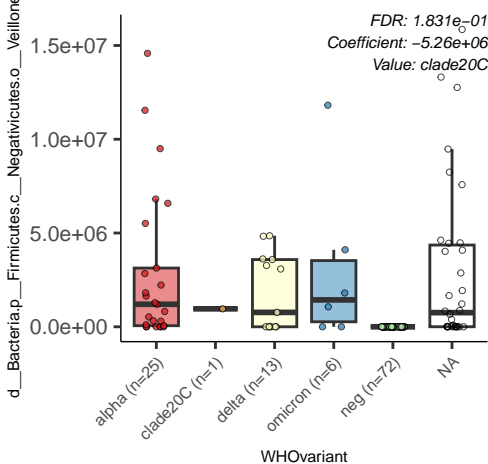
cteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales

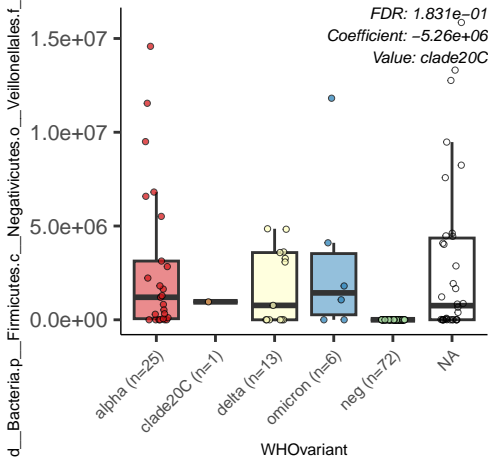
FDR: 1.820e-01
Coefficient: 1.12e+03
Value: omicron



bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteri

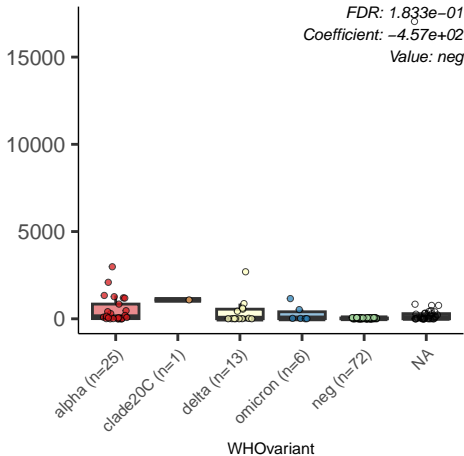


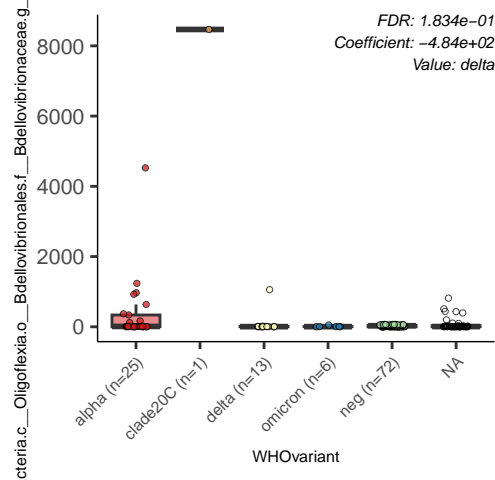


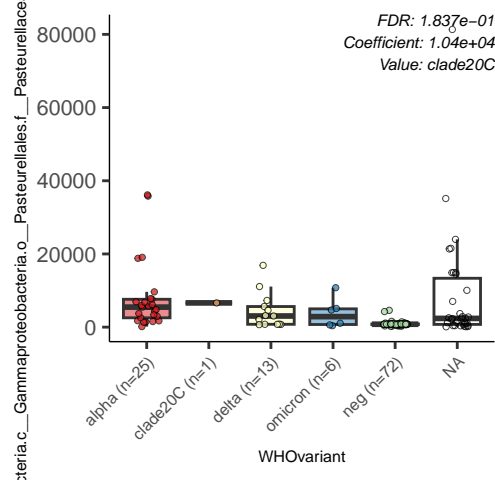


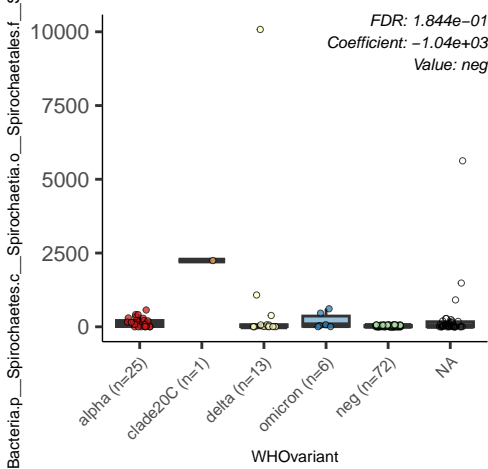
chaetes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g

FDR: $1.833e-01$
Coefficient: $-4.57e+02$
Value: neg

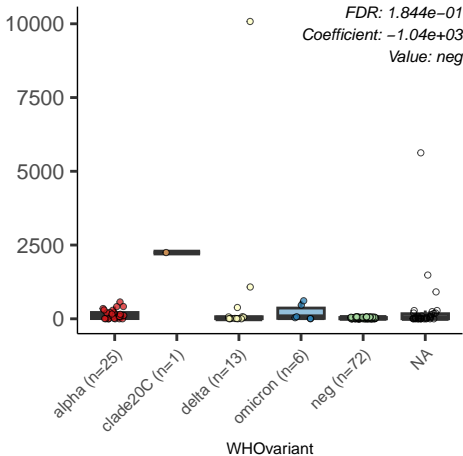


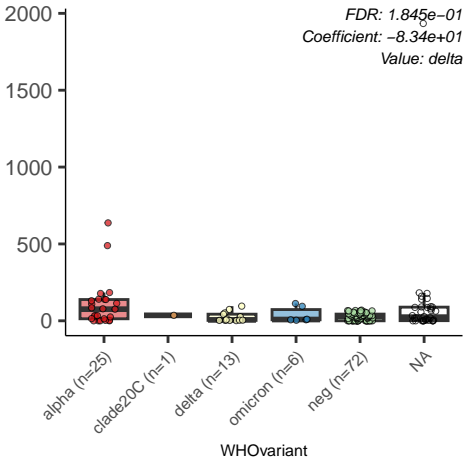


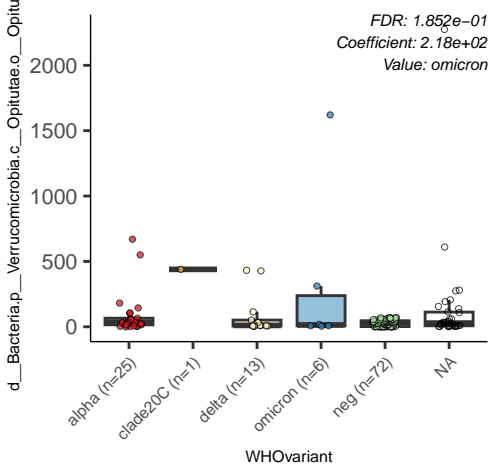


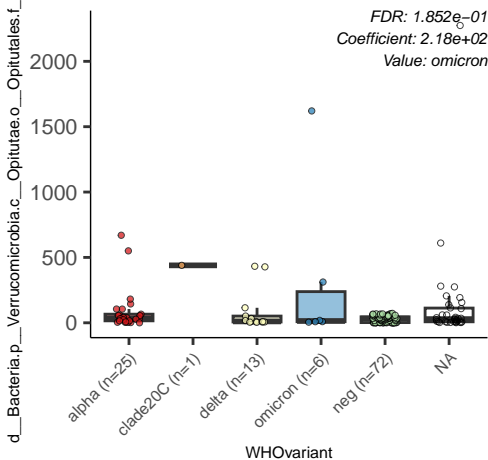


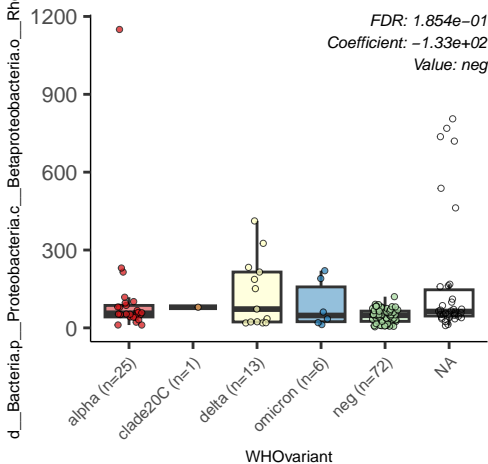
.p__Spirochaetes.c__Spirochaetia.o__Spirochaetales.f__Sphaeroc

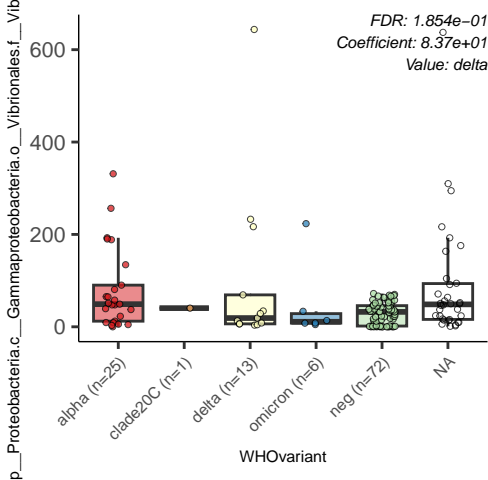


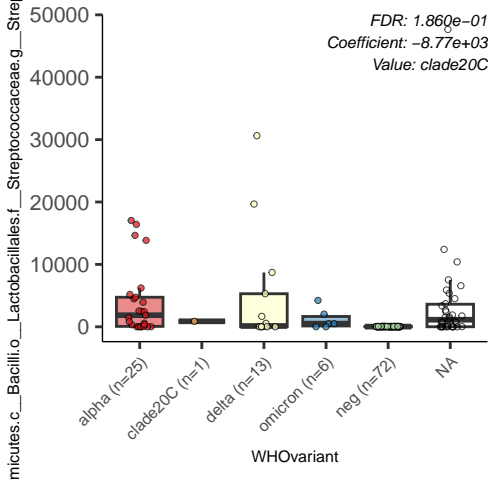




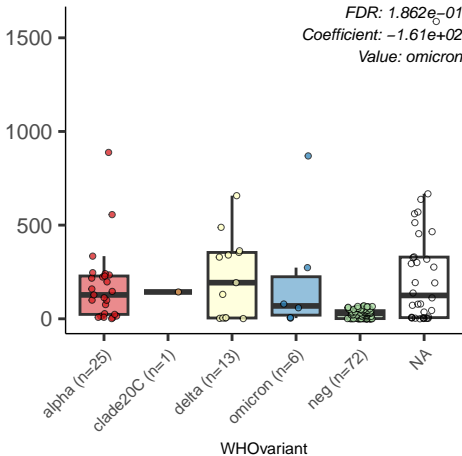




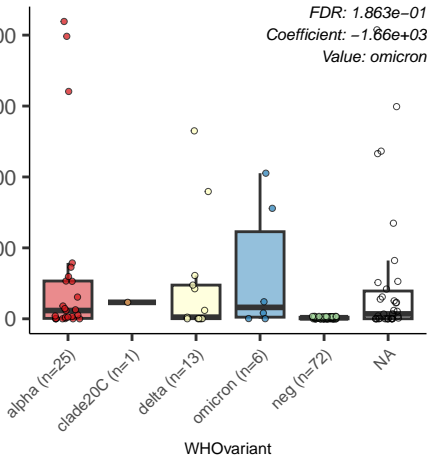




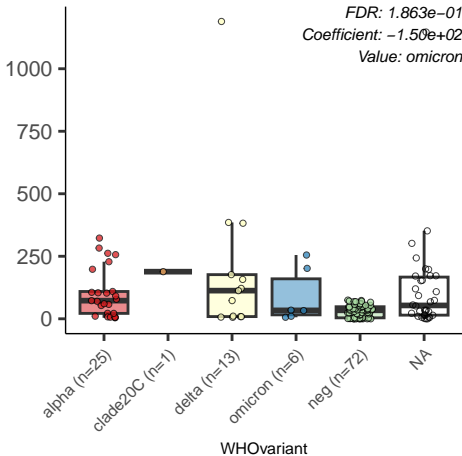
d_Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Thermoact

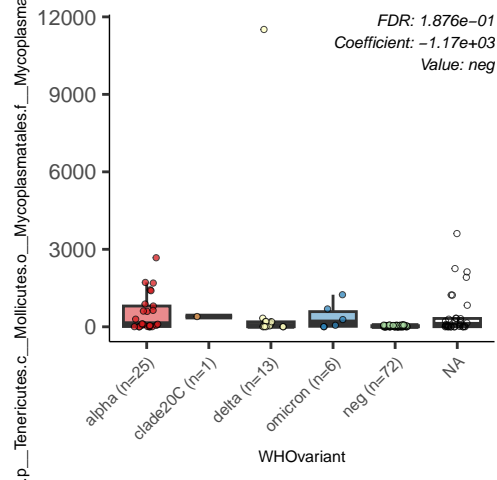


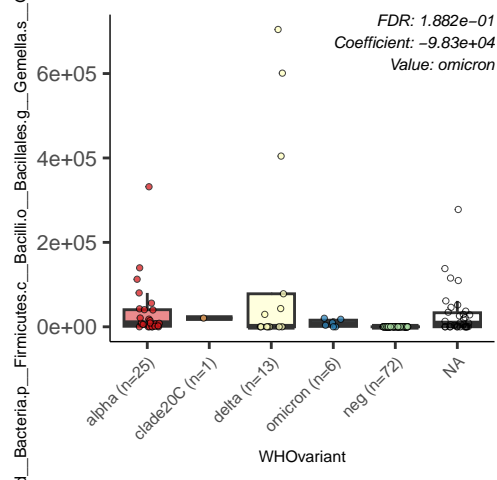
es.c__Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g

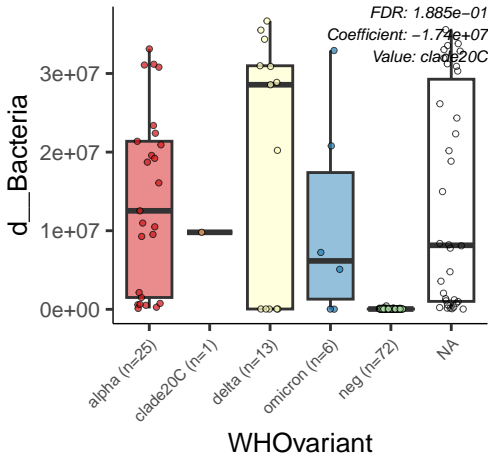


__Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Paenibacillace



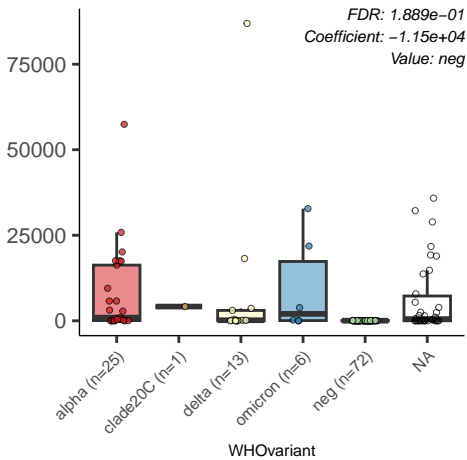




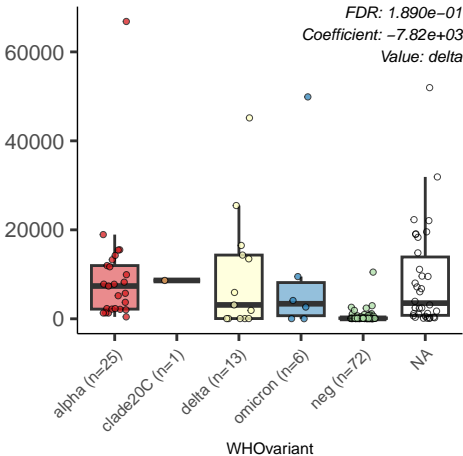


bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g

FDR: 1.889e-01
Coefficient: -1.15e+04
Value: neg

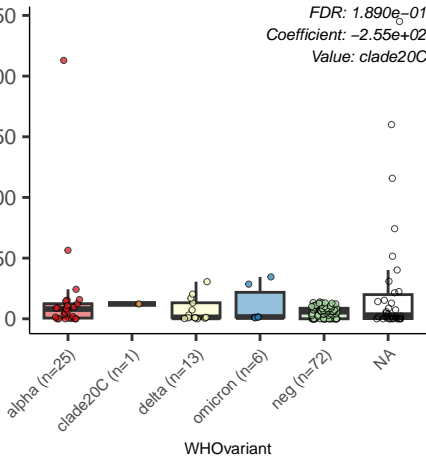


d__Bacteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Pe

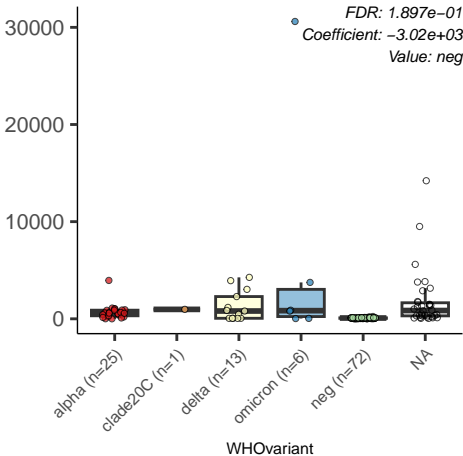


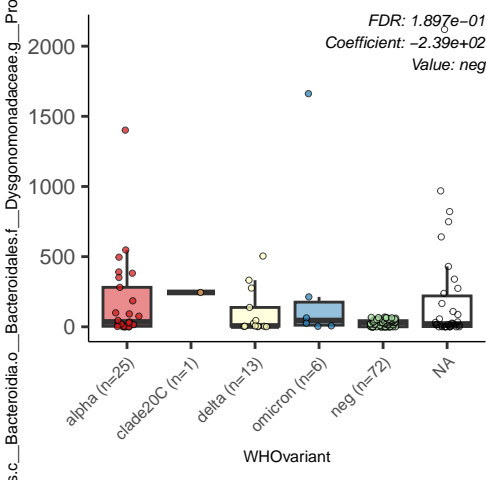
nicutes.c__Negativicutes.o__Selenomonadales.f__Sporomusaceae.

FDR: $1.890e-01$
Coefficient: $-2.55e+02$
Value: clade20C



a.p._Bacteroidetes.c._Cytophagia.o._Cytophagales.f._Hymenoba





micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

FDR: 1.901e-01
Coefficient: -1.45e+03
Value: neg

10000

5000

0

alpha (n=25)

clade20C (n=1)

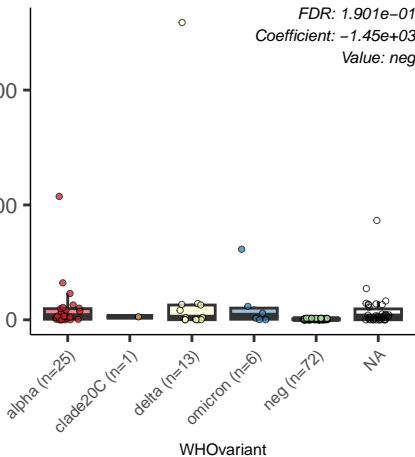
delta (n=13)

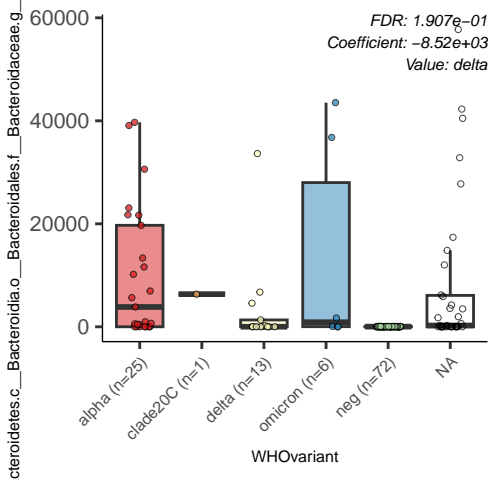
omicron (n=6)

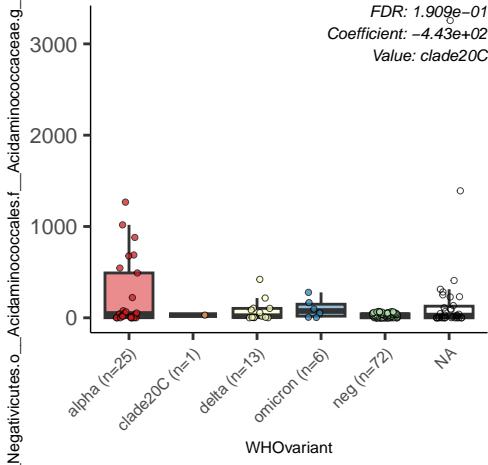
neg (n=72)

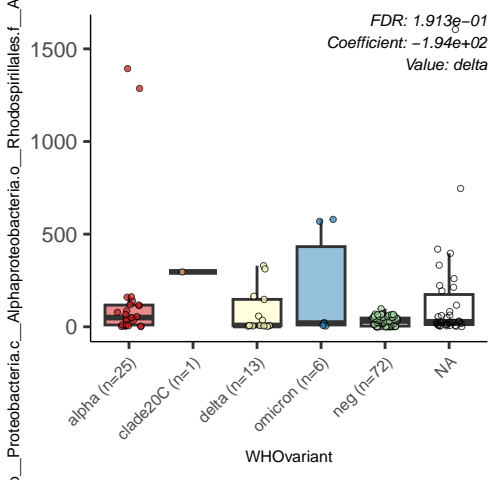
NA

WHOvariant

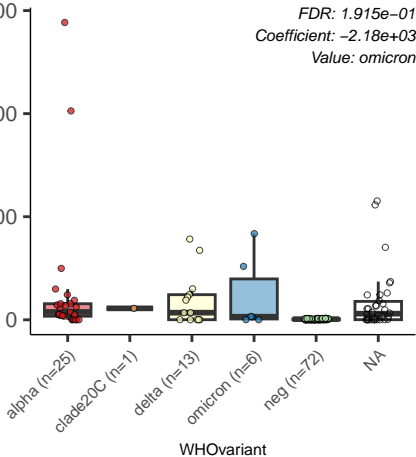


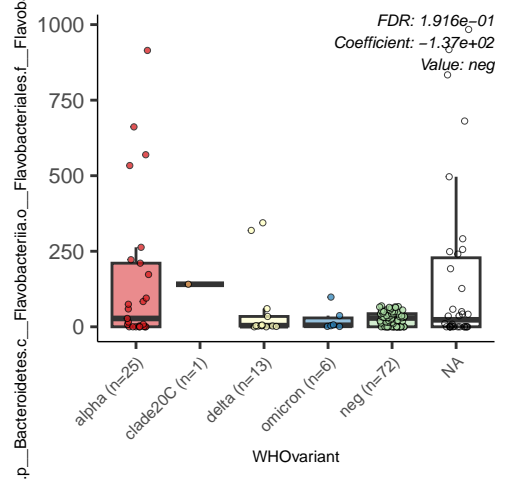




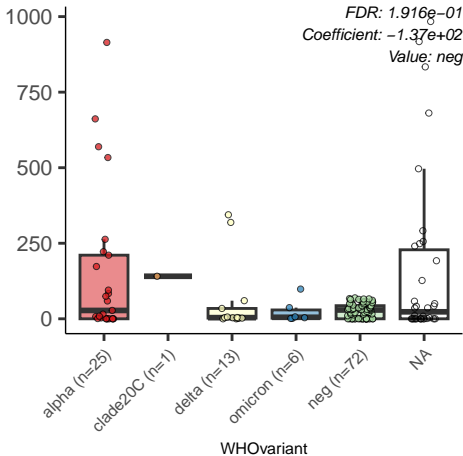


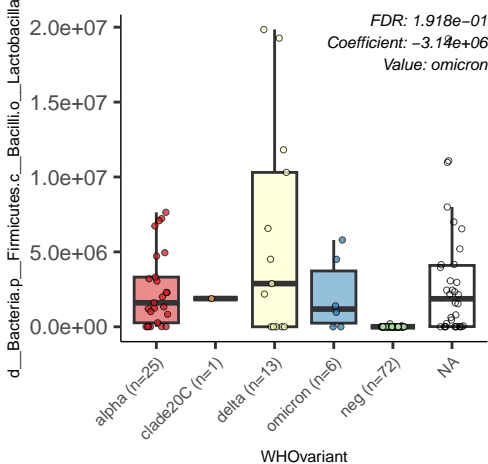
phylum: Bacteroidetes, class: Sphingobacteriia, order: Sphingobacteriales, family: Sphingobacteriaceae, genus: Sphingobacterium, species: Sphingobacterium



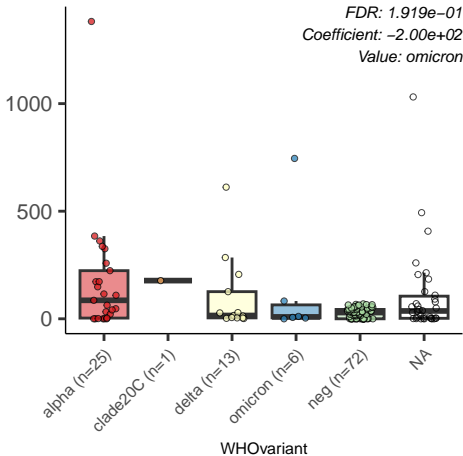


idetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae.

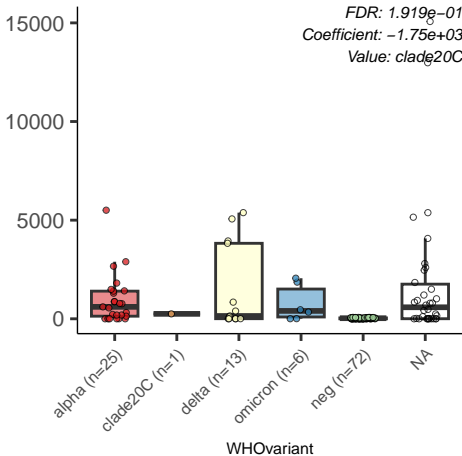




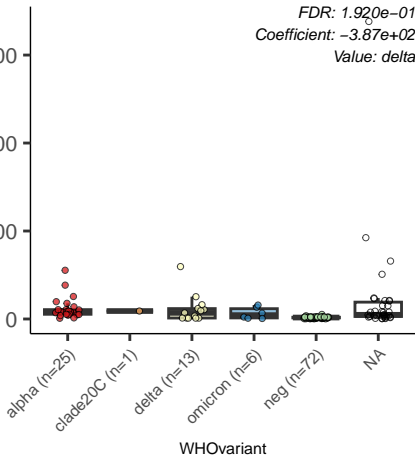
s.c._Clostridia.o_Eubacteriales.f_Lachnospiraceae.g_Lachnoclostridium



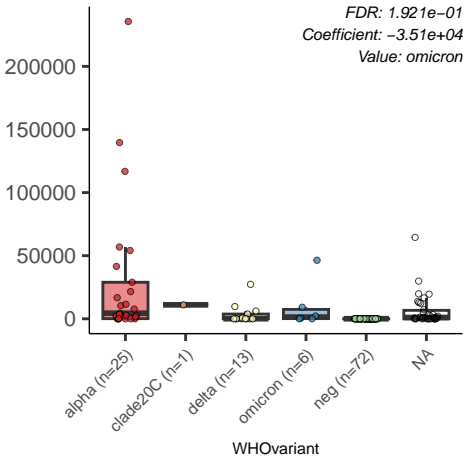
Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__St

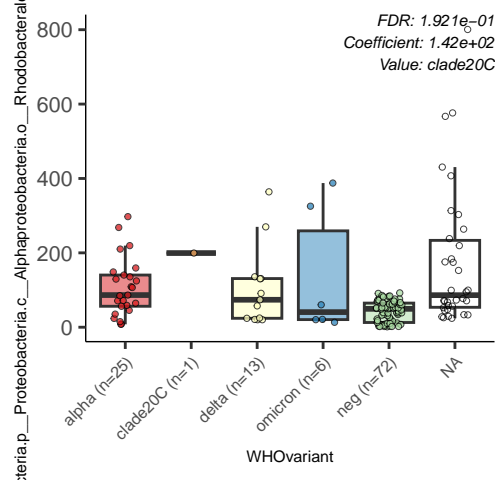


FDR: $1.920e-01$
Coefficient: $-3.87e+02$
Value: delta



ria.c_Fusobacteriia.o_Fusobacteriales.f_Leptotrichiaceae.g_Le





micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

FDR: 1.921×10^{-1}
Coefficient: -9.61×10^2
Value: neg

10000

5000

0

alpha (n=25)

clade20C (n=1)

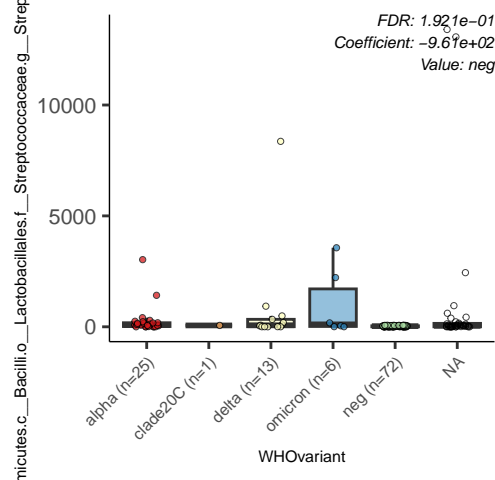
delta (n=13)

omicron (n=6)

neg (n=72)

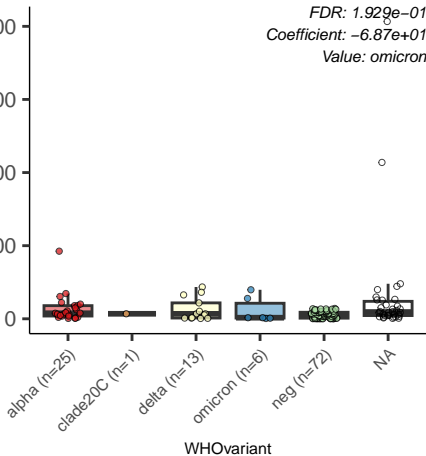
NA

WHOvariant



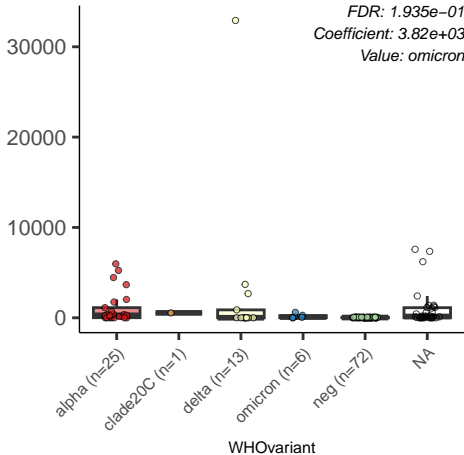
ia.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonada

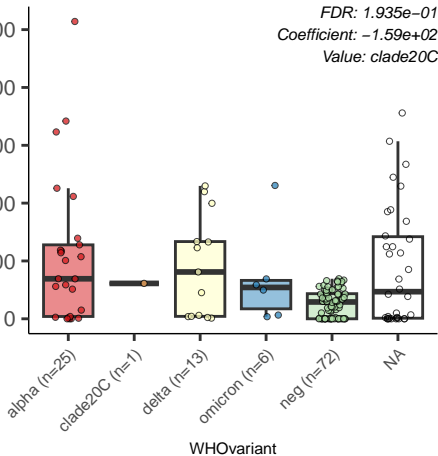
FDR: $1.929e-01$
Coefficient: $-6.87e+01$
Value: omicron

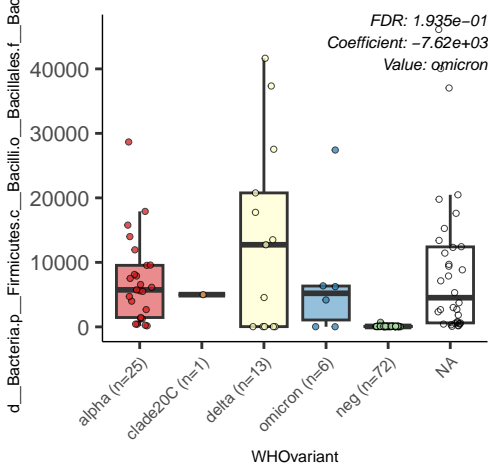


bacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae.g

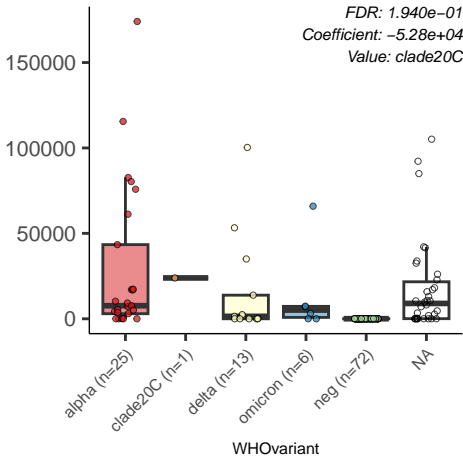
FDR: 1.935e-01
Coefficient: 3.82e+03
Value: omicron





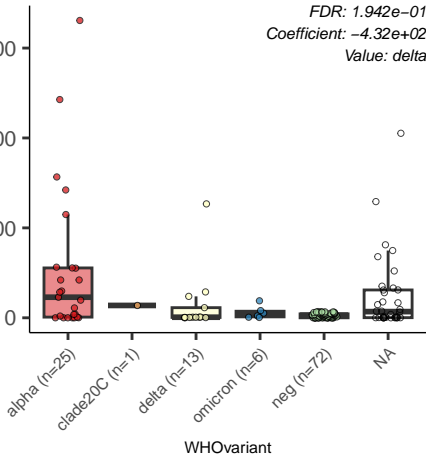


cutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strepto



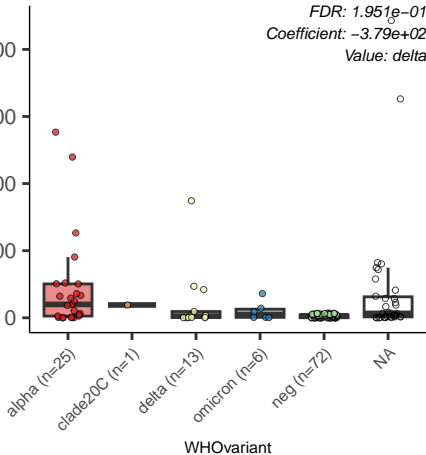
s.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_Chry

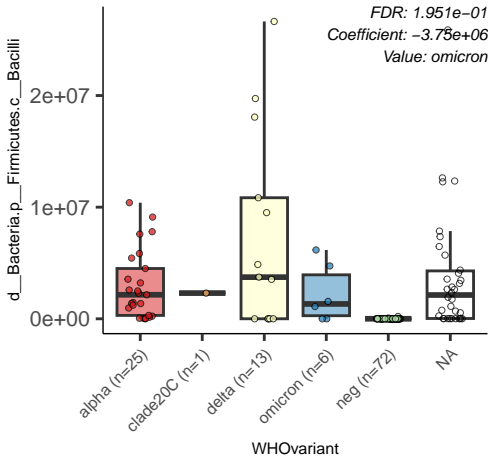
FDR: 1.942e-01
Coefficient: -4.32e+02
Value: delta

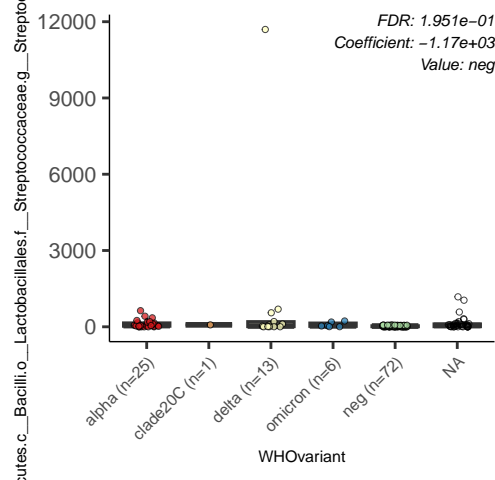


eria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__We

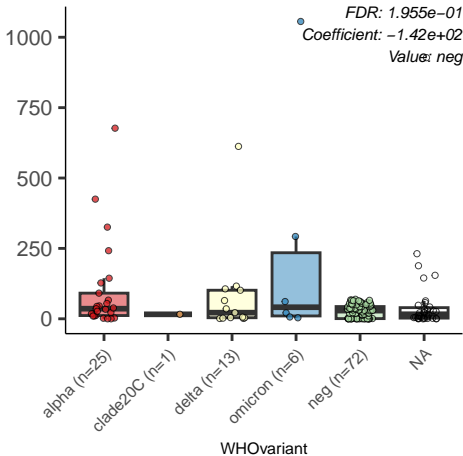
$FDR: 1.951e-01$
 $Coefficient: -3.79e+02$
 $Value: delta$

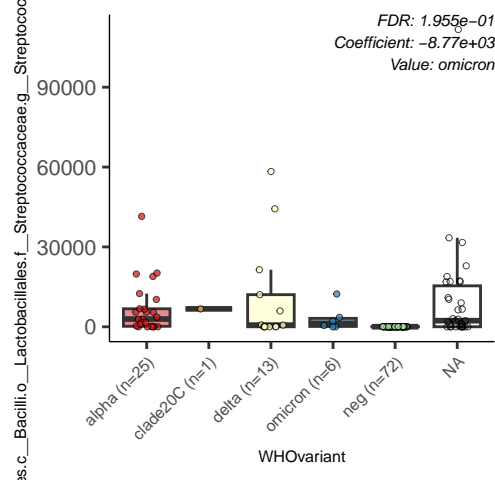


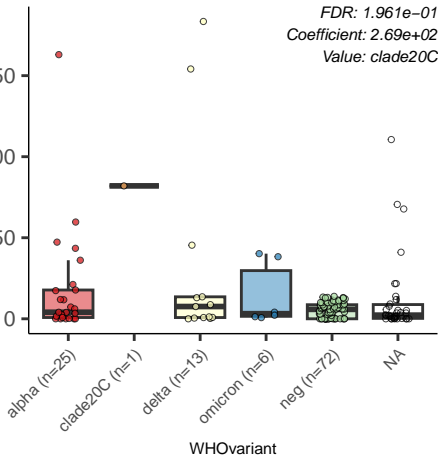




Actinomyces

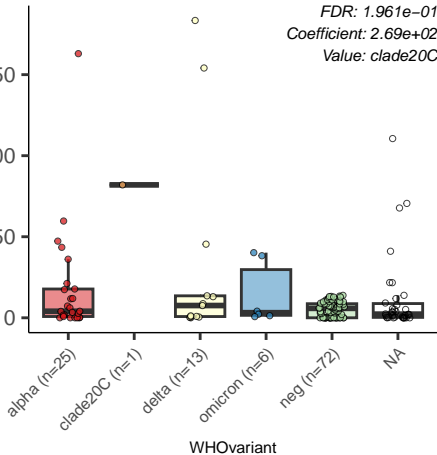






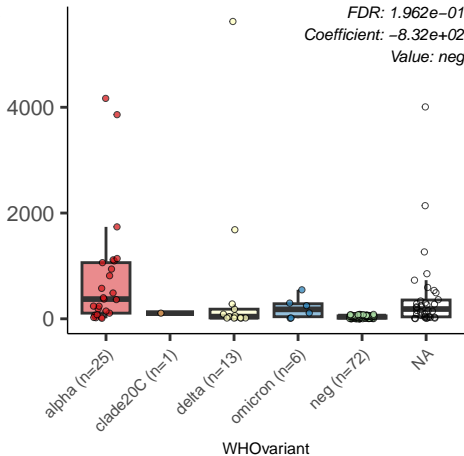
tes.o__Mycoplasmatales.f__Mycoplasmataceae.g__Candidatus.Hep

FDR: 1.961e-01
Coefficient: 2.69e+02
Value: clade20C



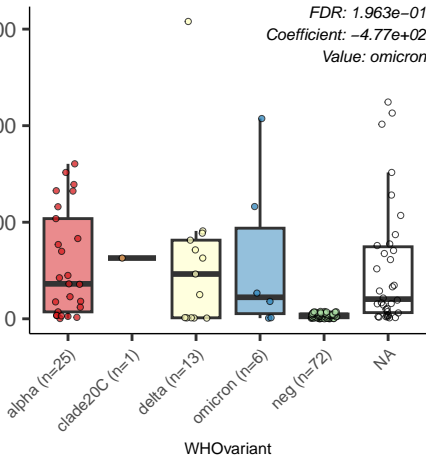
Actinomycetia.o__Corynebacteriales.f__Corynebacteriaceae.g

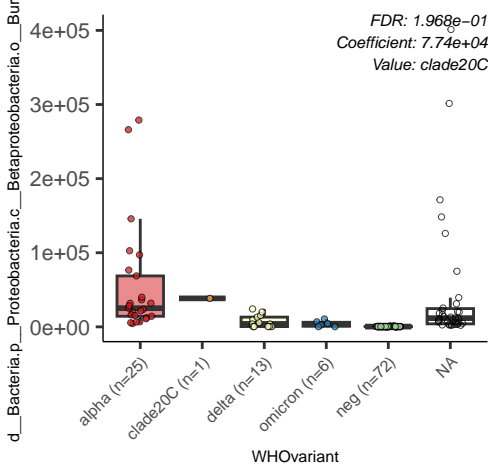
FDR: $1.962e-01$
Coefficient: $-8.32e+02$
Value: neg

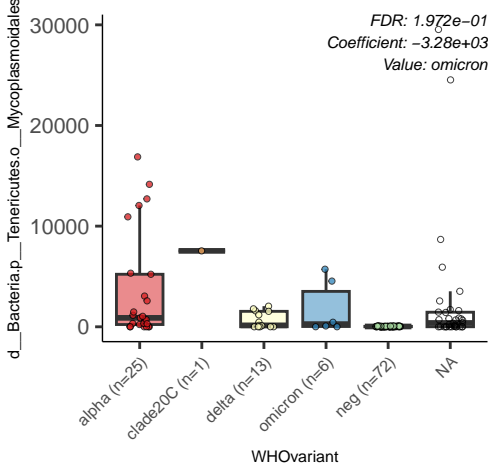


d__Bacteria.p__Firmicutes.c__Clostridia.o__Thermoanaerob

FDR: $1.963e-01$
Coefficient: $-4.77e+02$
Value: omicron

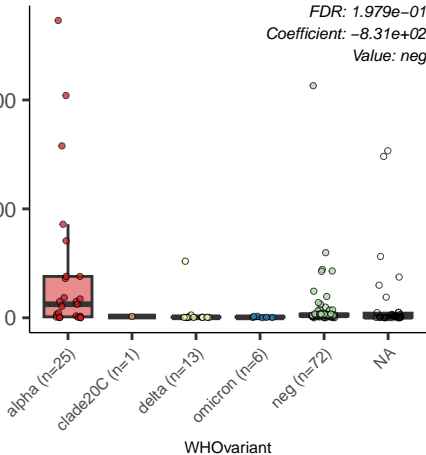






Actinomycetia.o__Corynebacteriales.f__Corynebacteriaceae.g

FDR: 1.979e-01
Coefficient: -8.31e+02
Value: neg



d_Bacteria.p__Fibrobacteres

FDR: 1.982e-01
Coefficient: -6.49e+01
Value: delta

alpha (n=25)

clade20C (n=1)

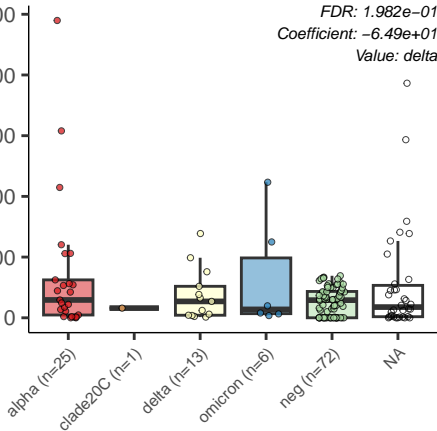
delta (n=13)

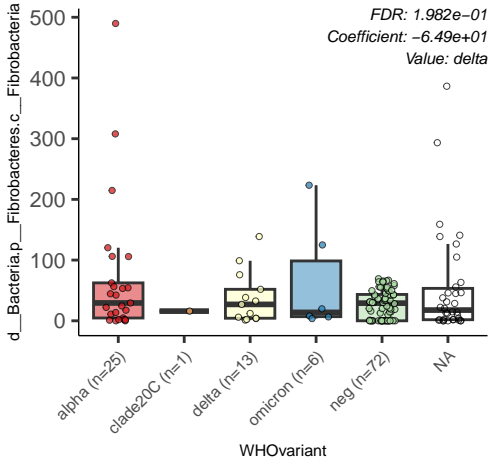
omicron (n=6)

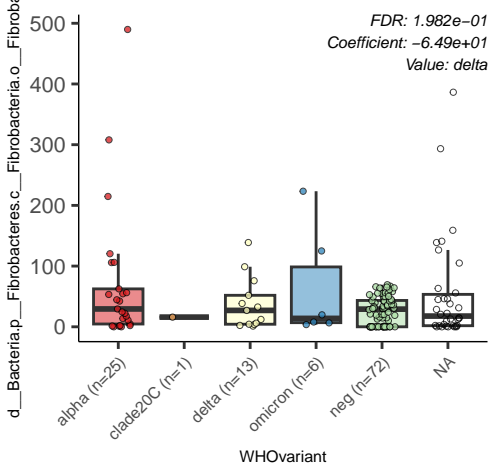
neg (n=72)

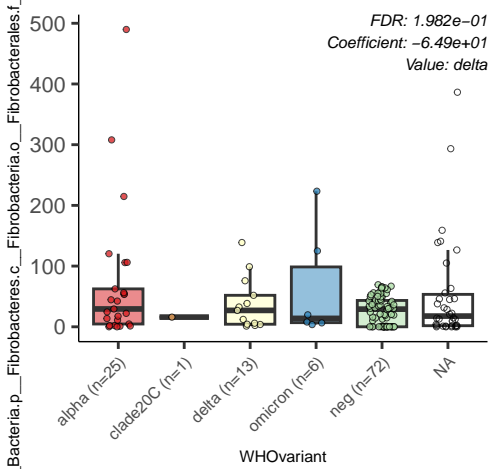
NA

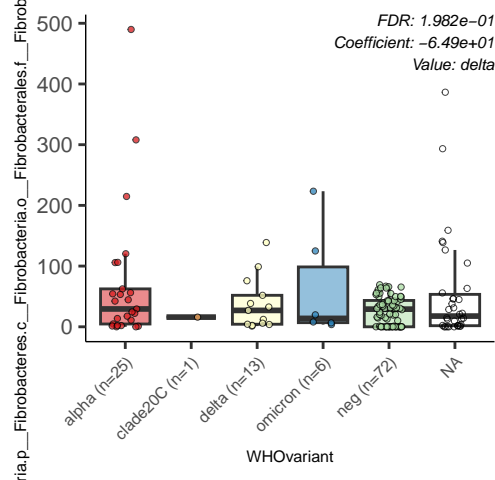
WHOvariant

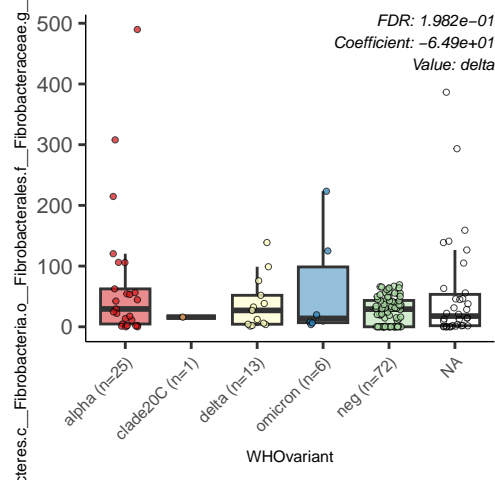


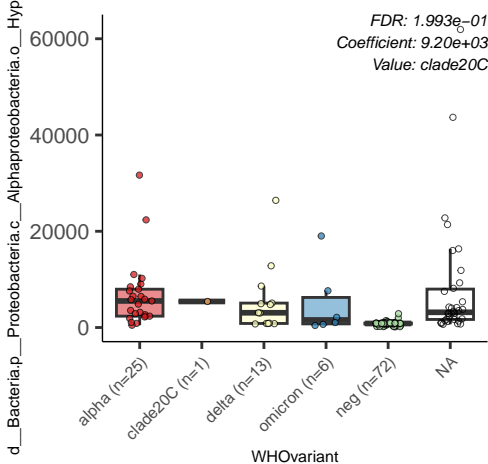


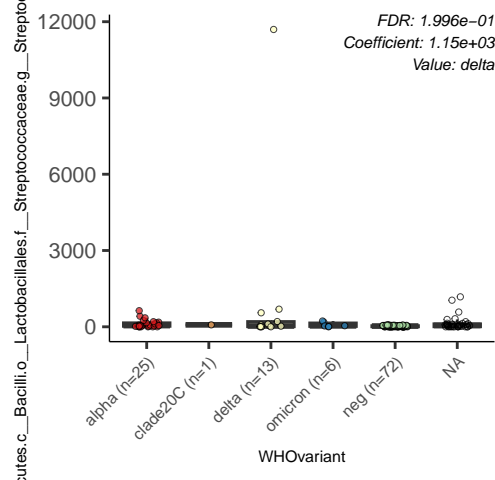


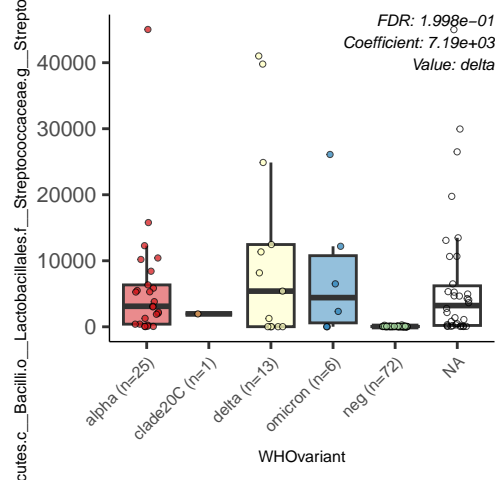






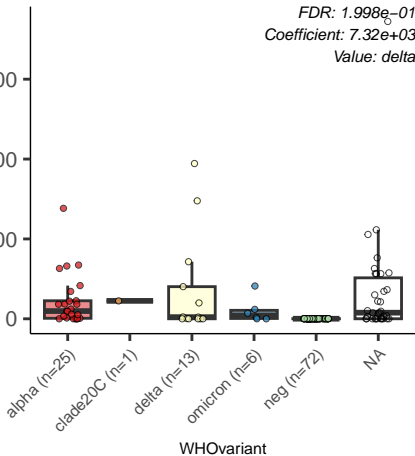


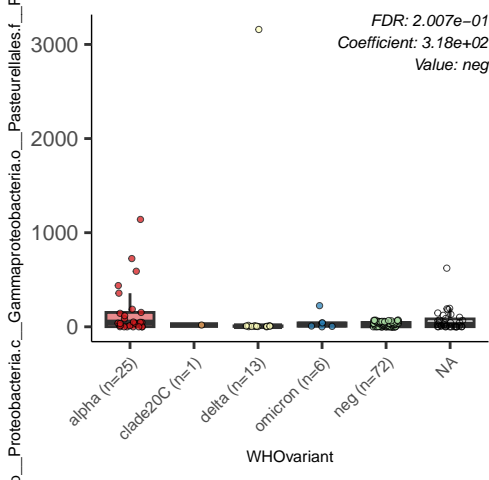




es.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Streptococ

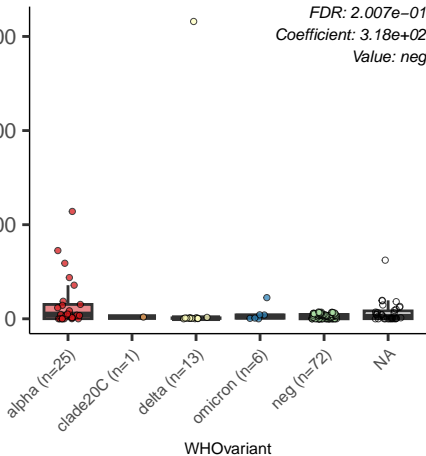
FDR: $1.998e-01$
Coefficient: $7.32e+03$
Value: delta

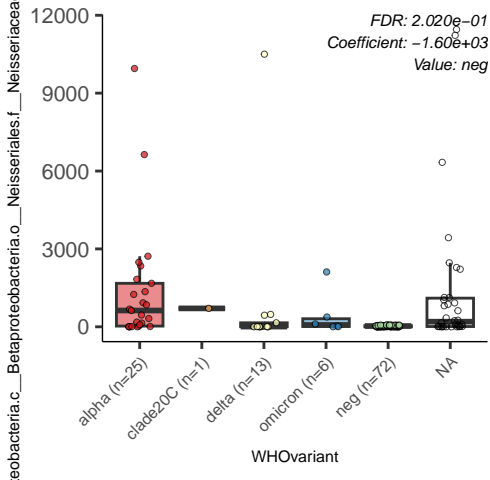


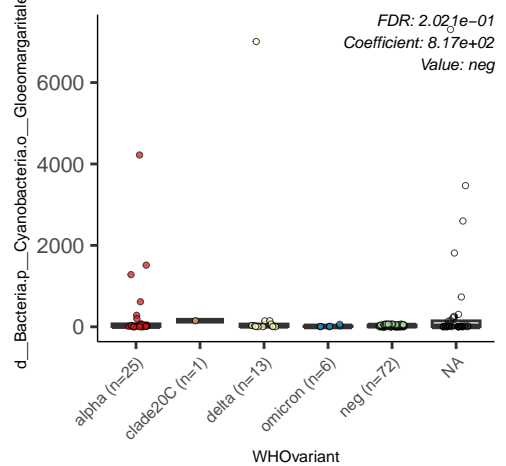


bacteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurella

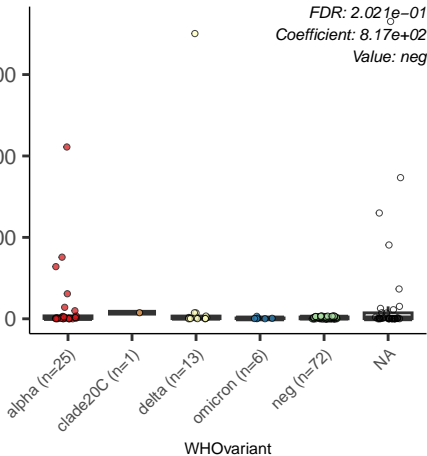
FDR: 2.007e-01
Coefficient: 3.18e+02
Value: neg

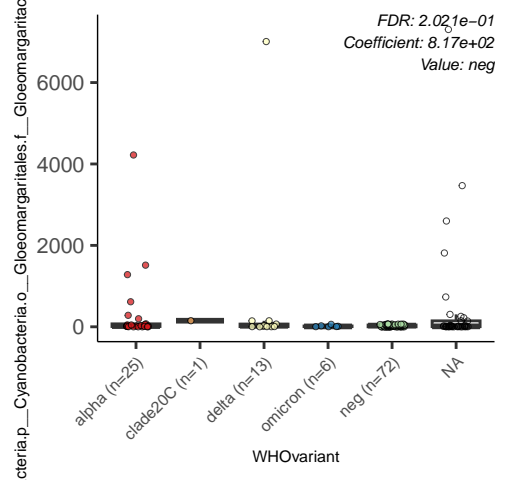


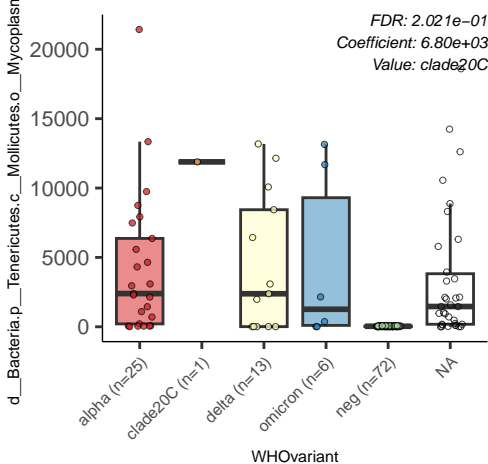


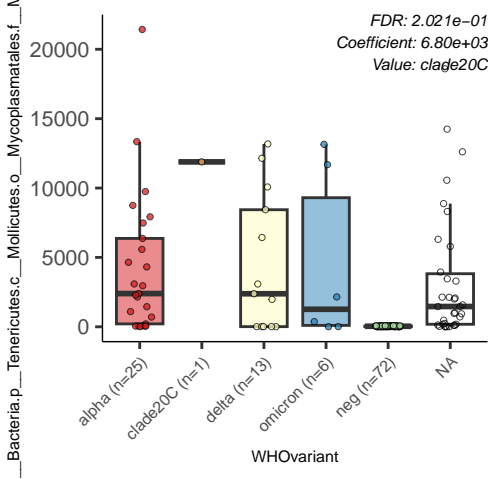


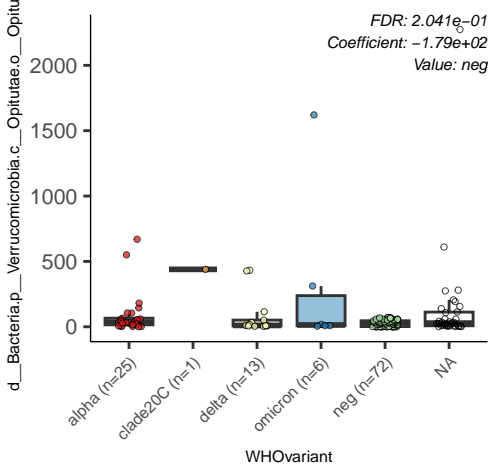
FDR: 2.021e-01
Coefficient: 8.17e+02
Value: neg

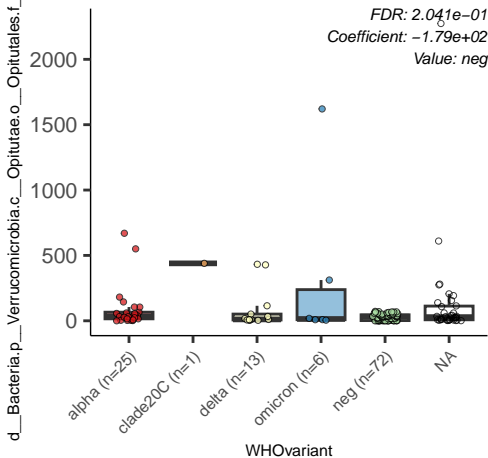


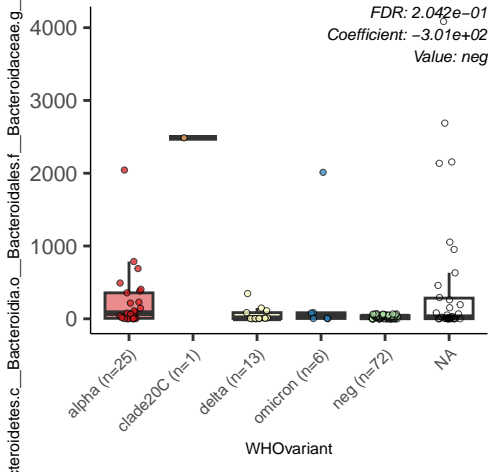






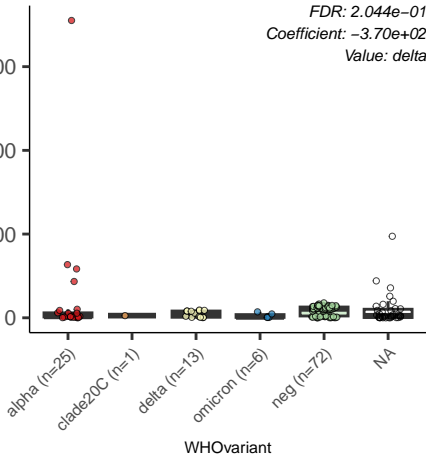






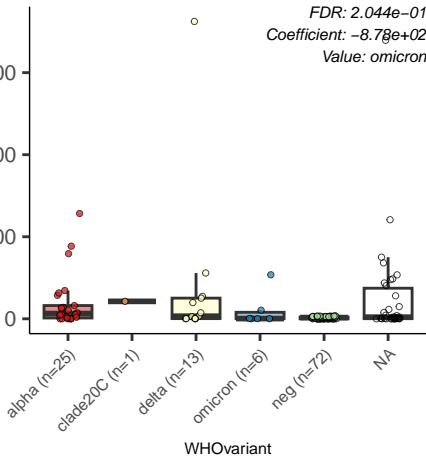
ia.c__Alphaproteobacteria.o__Rhodobacterales.f__Rhodobacterace

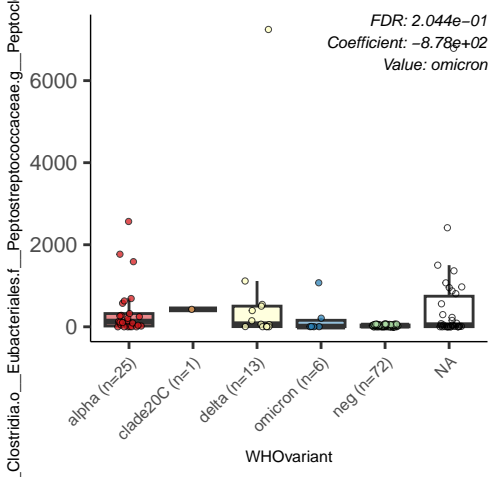
FDR: 2.044e-01
Coefficient: -3.70e+02
Value: delta

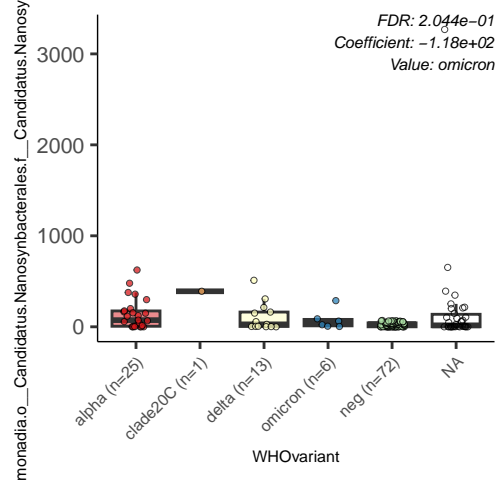


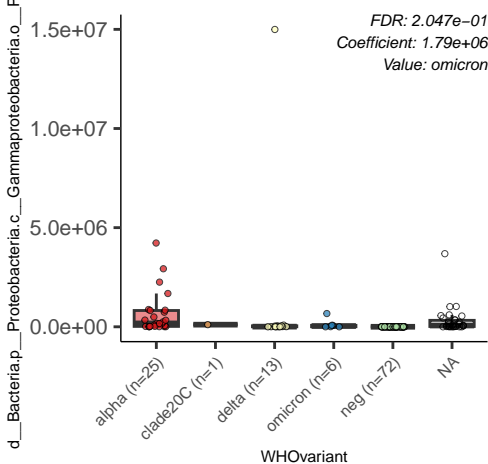
a.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Peptostreptococ

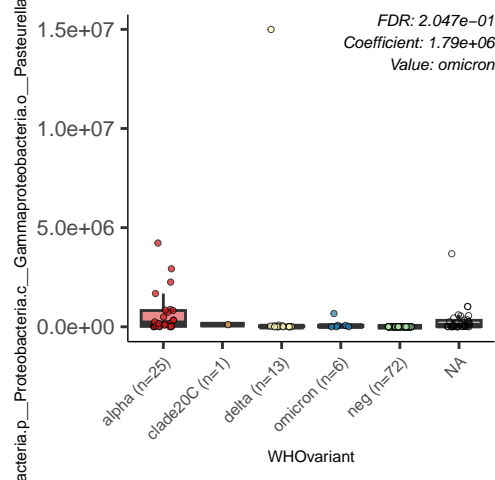
FDR: 2.044e-01
Coefficient: -8.78e+02
Value: omicron



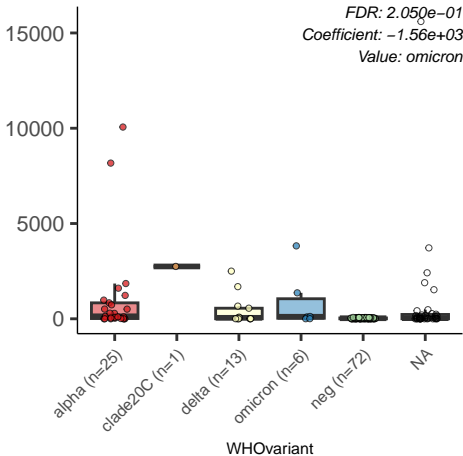


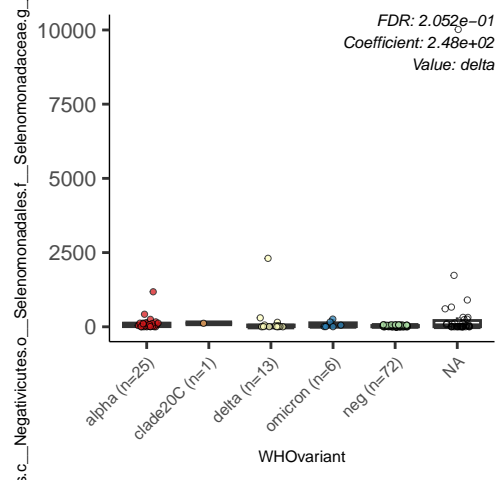


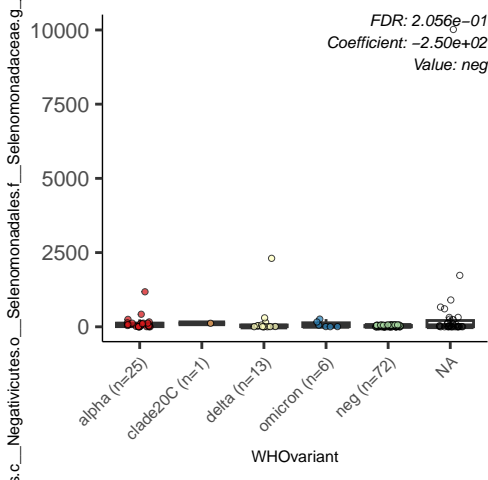


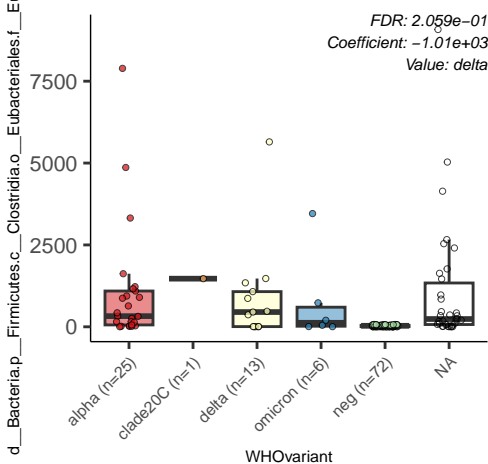


idetes.c__Bacteroidia.o__Bacteroidales.f__Tannerellaceae.g__Para



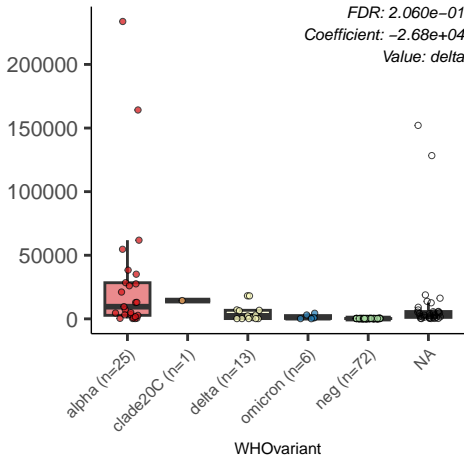






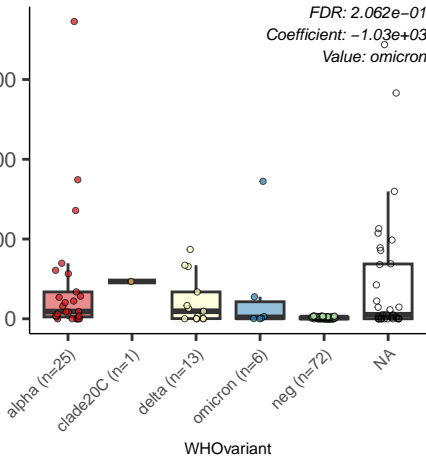
bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales

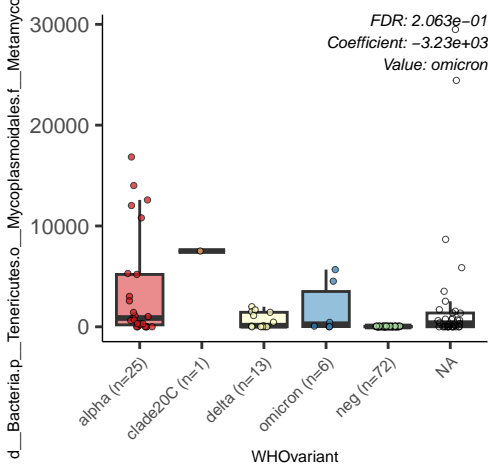
FDR: 2.060e-01
Coefficient: -2.68e+04
Value: delta



s.c._Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Incert

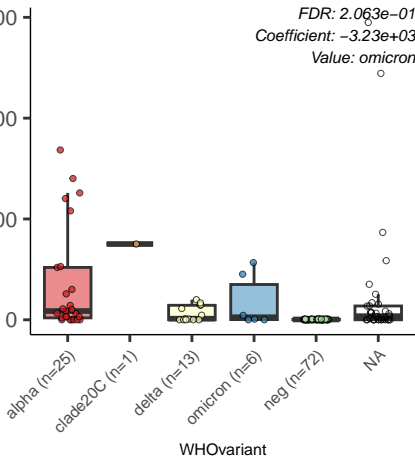
FDR: 2.062e-01
Coefficient: -1.03e+03
Value: omicron

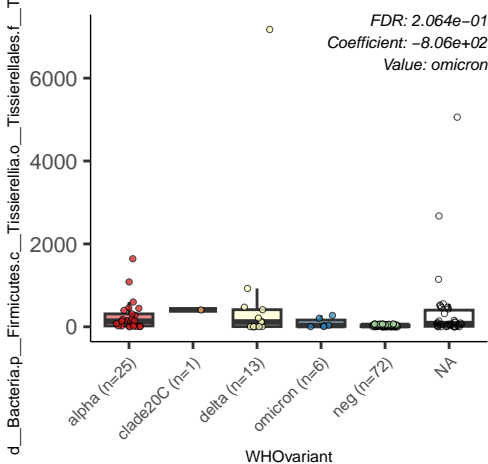




eria.p__Tenericutes.o__Mycoplasmoidales.f__Metamycoplasmatac

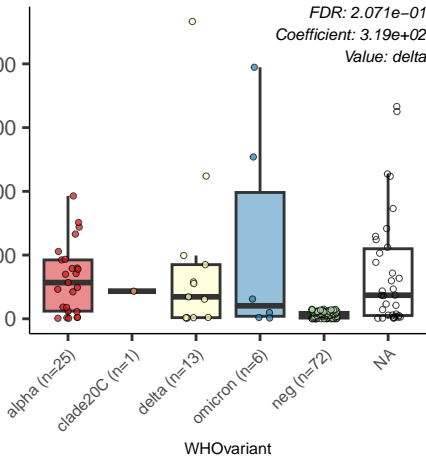
FDR: 2.063e-01
Coefficient: -3.23e+03
Value: omicron

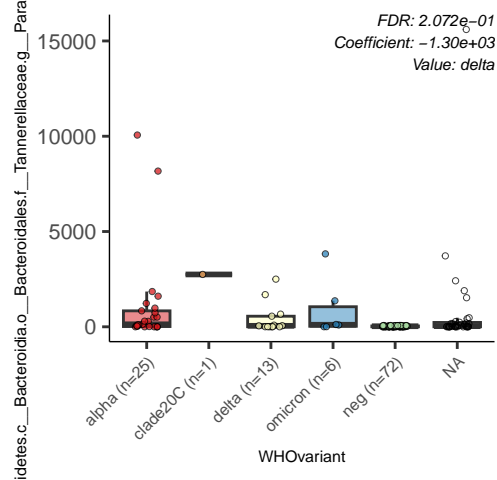


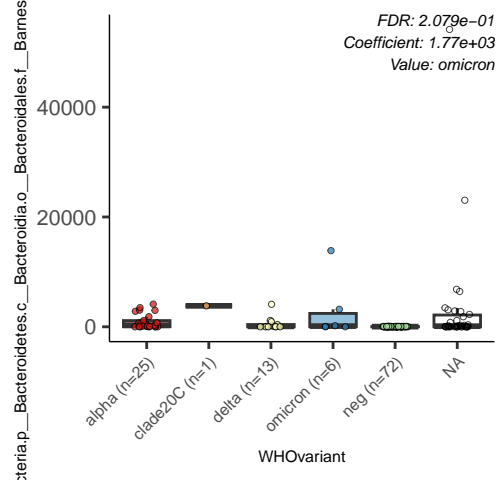


bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromonad

FDR: 2.071e-01
Coefficient: 3.19e+02
Value: delta







teroidetes.c__Bacteroidia.o__Bacteroidales.f__Barnesiellaceae.g

FDR: 2.079×10^{-1}
Coefficient: 1.77×10^3
Value: omicron

40000

20000

0

alpha (n=25)

clade20C (n=1)

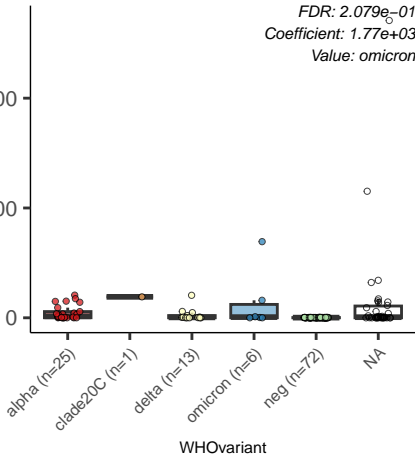
delta (n=13)

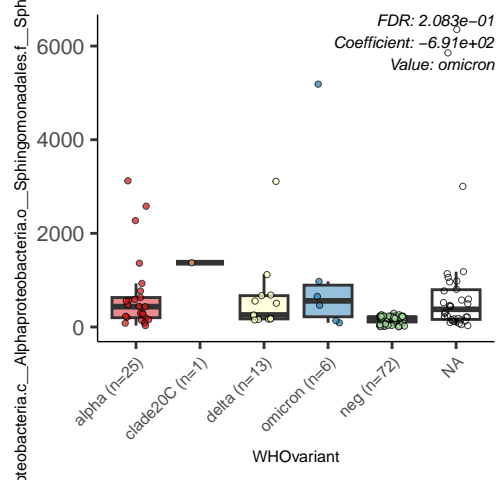
omicron (n=6)

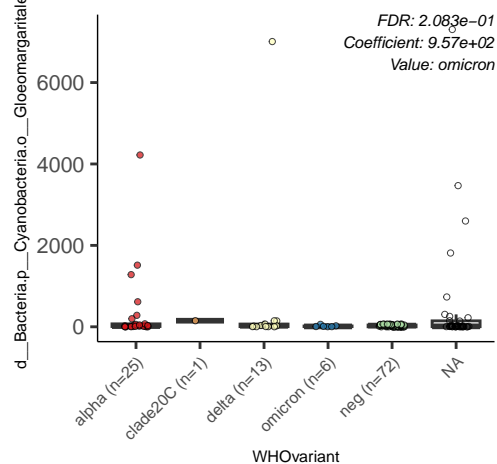
neg (n=72)

NA

WHOvariant

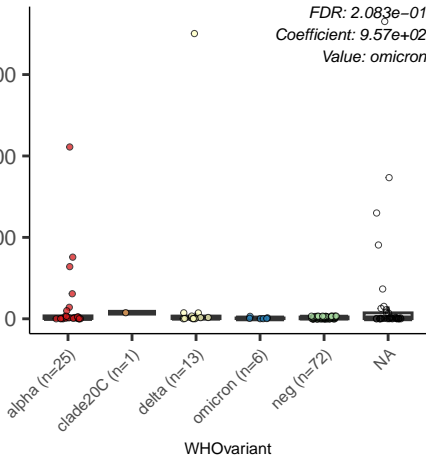


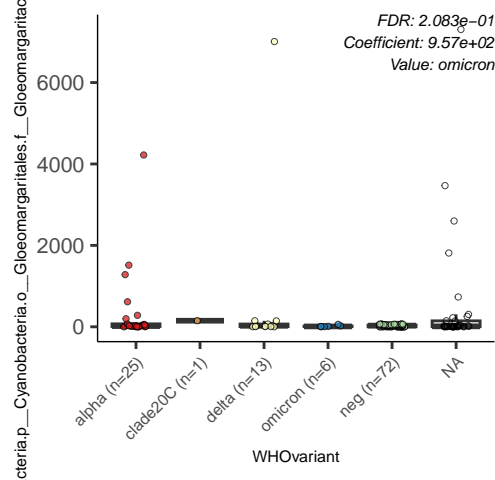




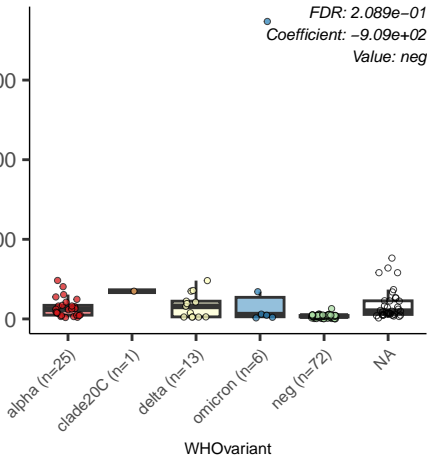
d_Bacteria.p__Cyanobacteria.o__Gloeomargaritales.f__Gloe

FDR: 2.083e-01
Coefficient: 9.57e+02
Value: omicron

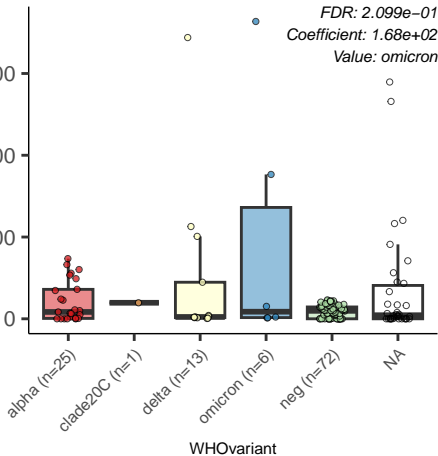


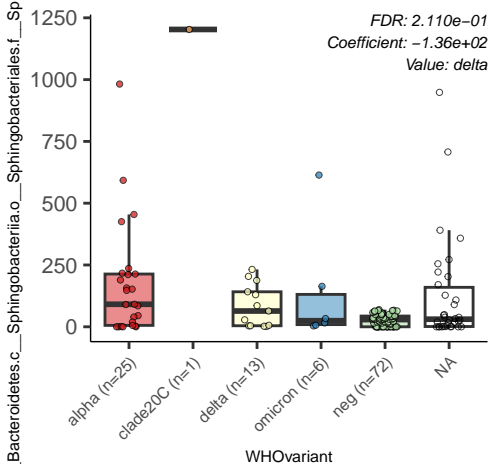


cteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales

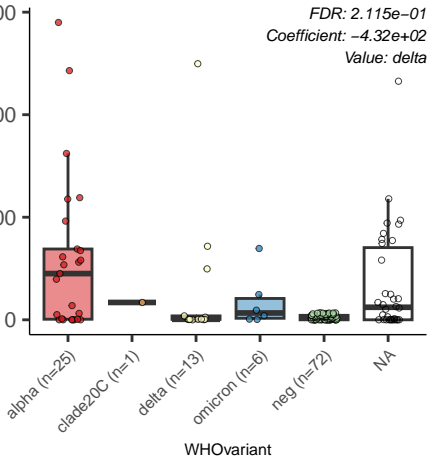


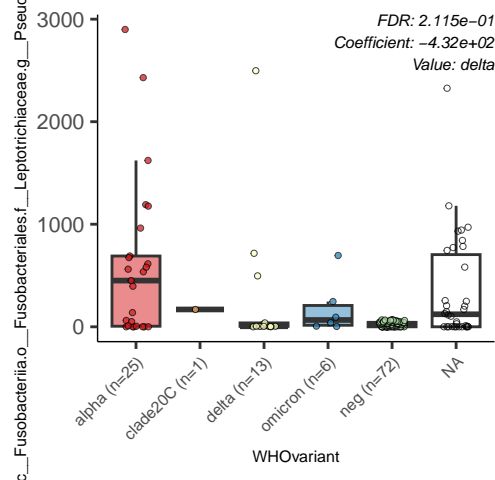
eroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae.g__B

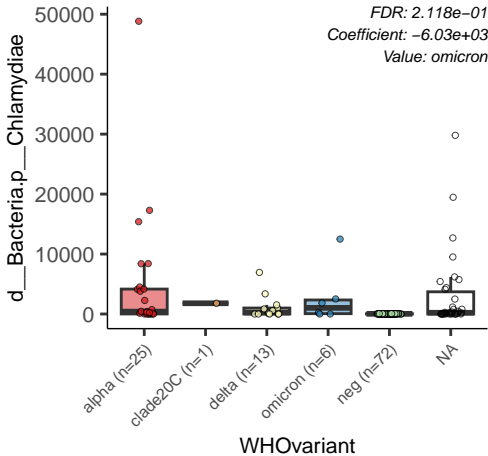


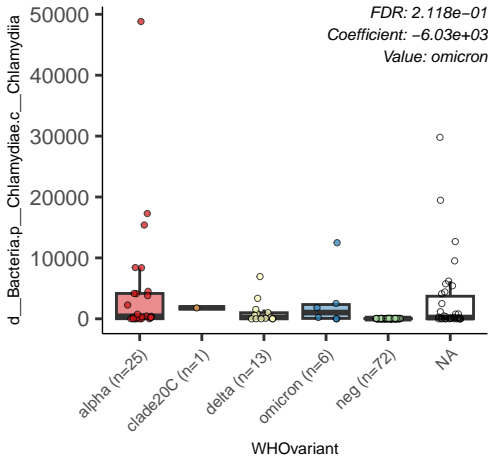


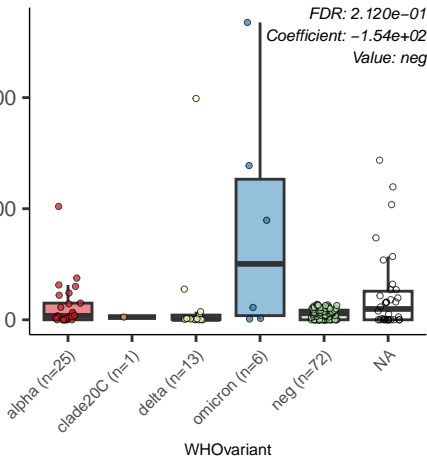
p_Fusobacteria.c_Fusobacteria.o_Fusobacteriales.f_Leptotrich

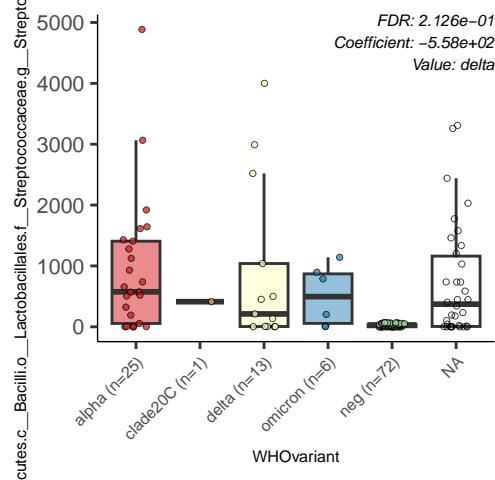




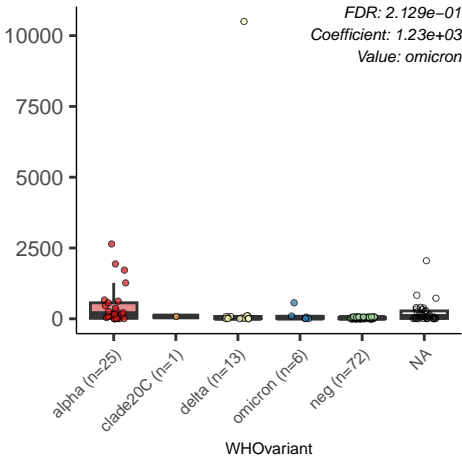


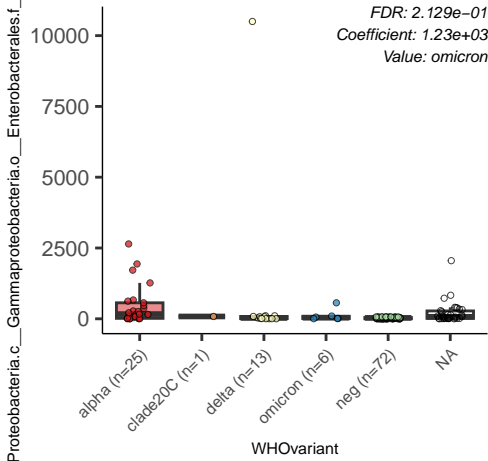




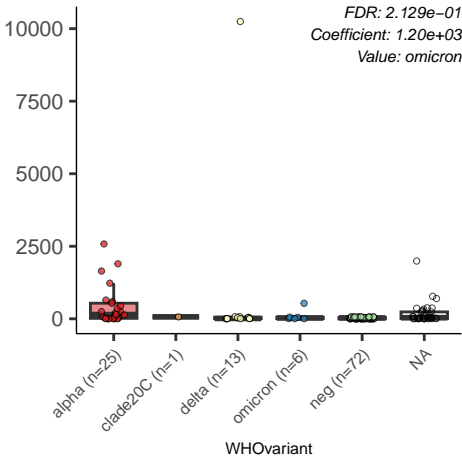


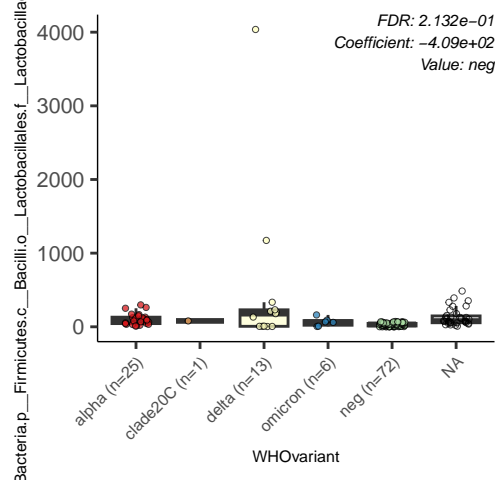
irria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobactera

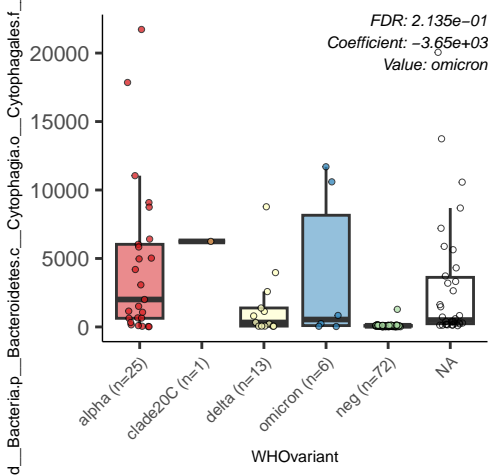


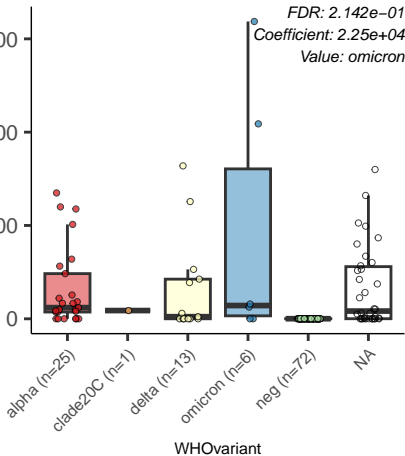


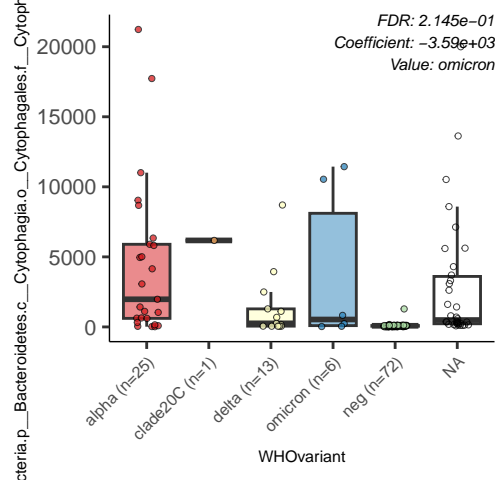
Gamma__Gammaproteobacteria.o__Enterobacterales.f__Bruguierivoracace

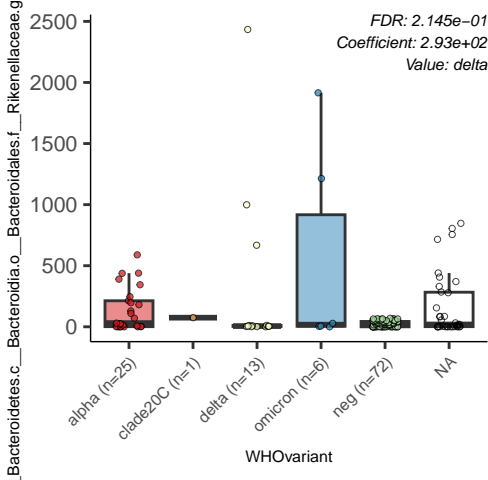


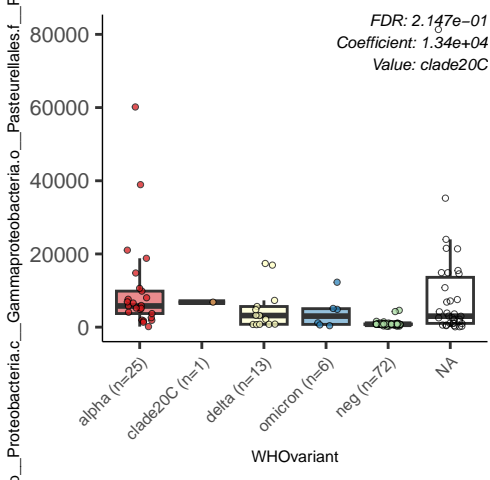


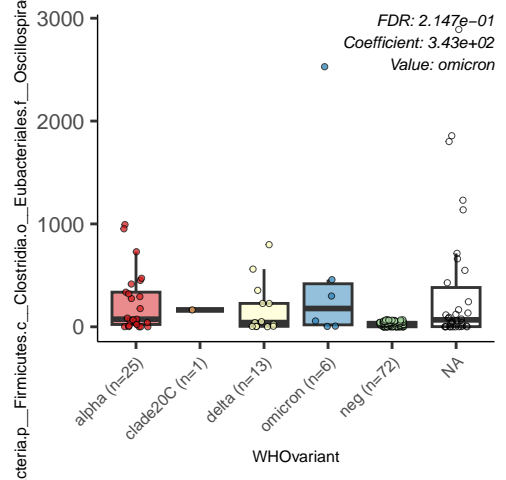


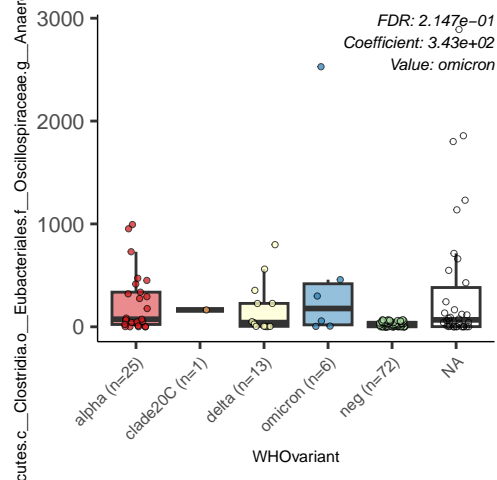




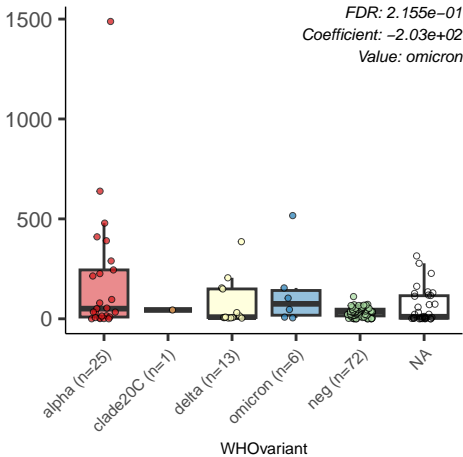


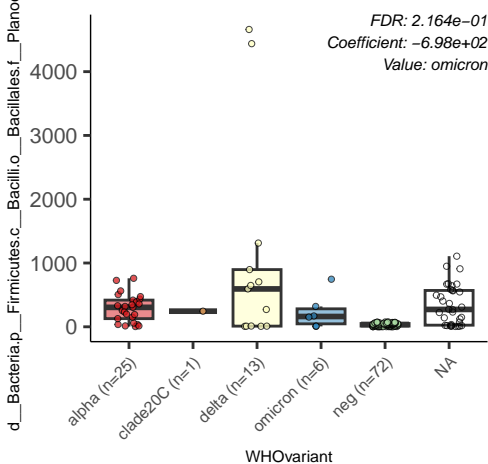


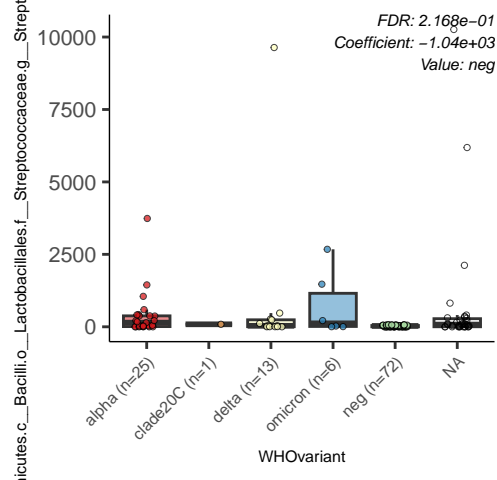


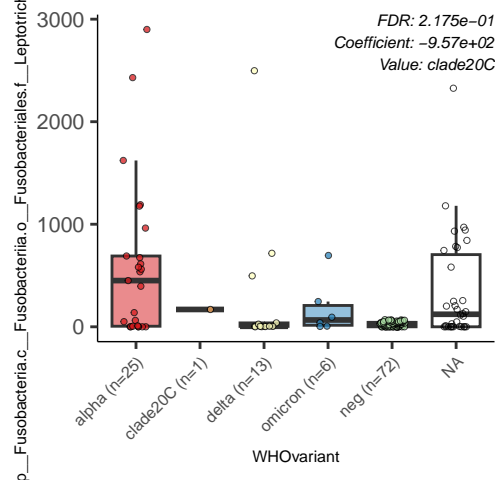


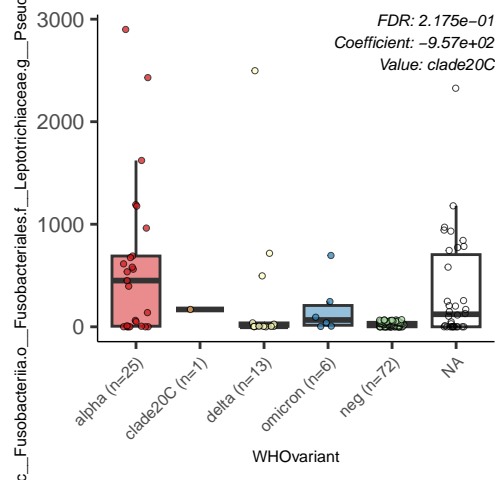
bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

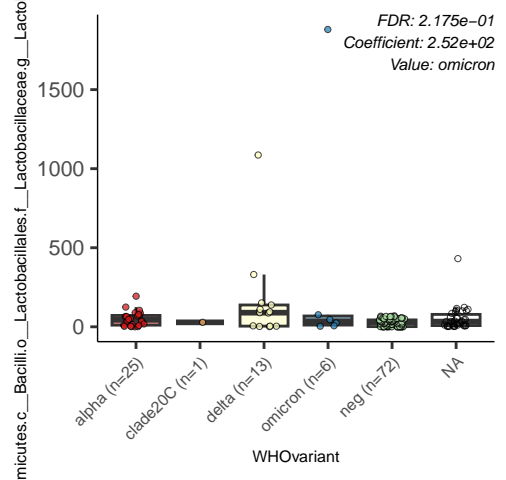


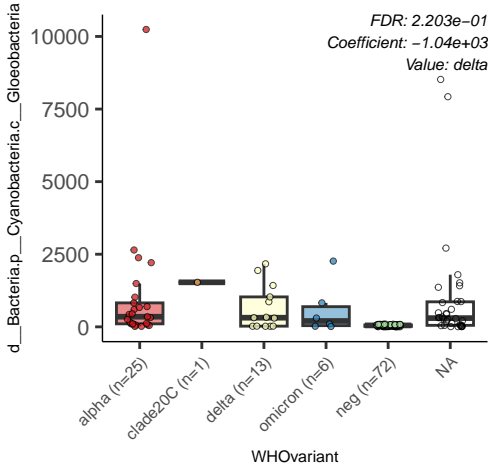


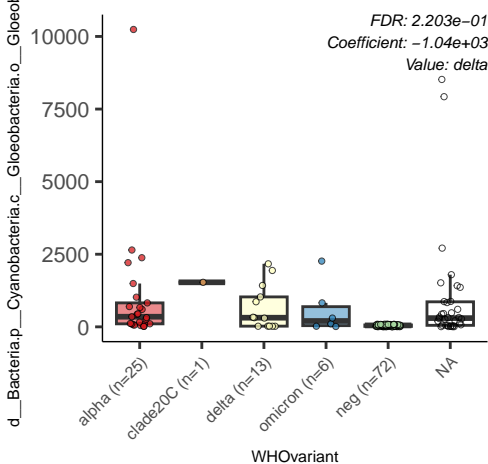




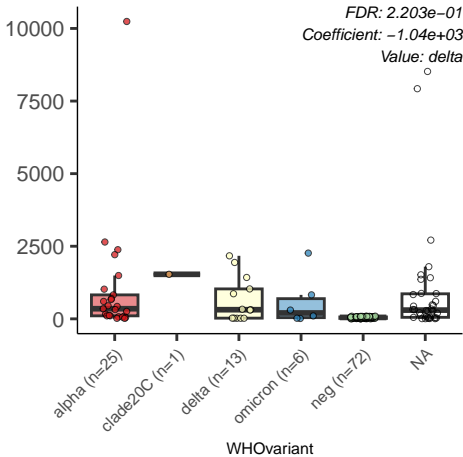








Bacteria.p__Cyanobacteria.c__Gloeobacteria.o__Gloeobacterales.f.



micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

FDR: 2.203×10^{-1}
Coefficient: 9.15×10^2
Value: delta

10000

5000

0

alpha (n=25)

clade20C (n=1)

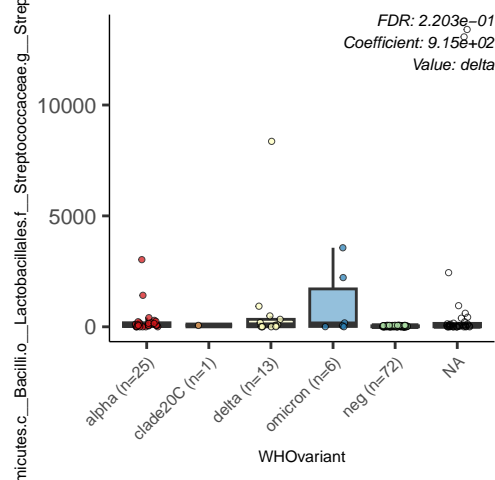
delta (n=13)

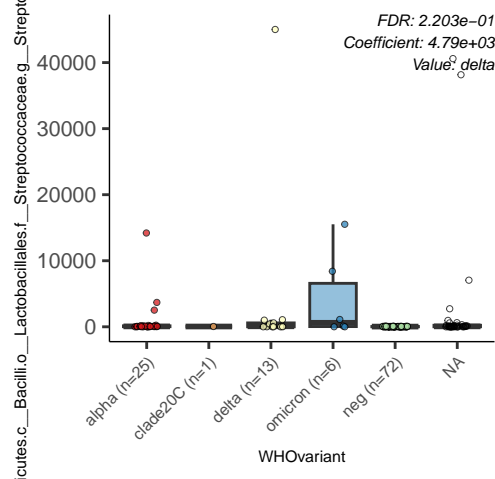
omicron (n=6)

neg (n=72)

NA

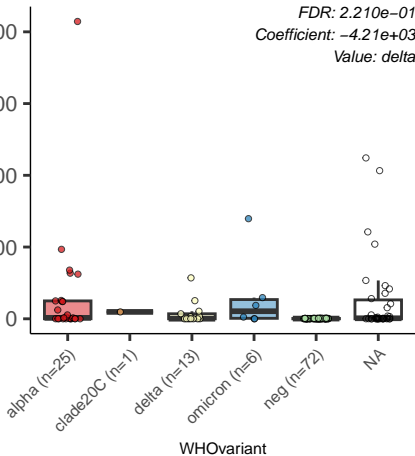
WHOvariant

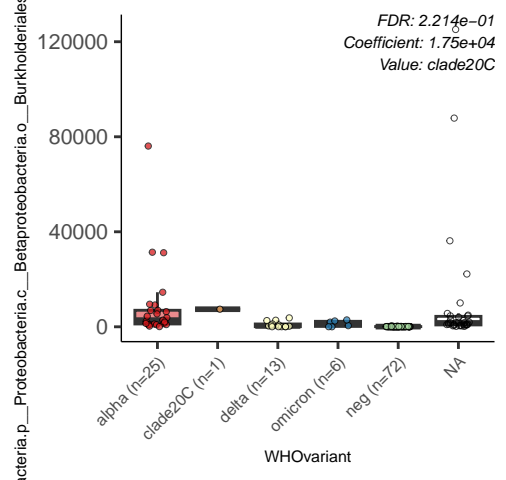




a.p__Cyanobacteria.o__Nostocales.f__Calotrichaceae.g__Calothrix

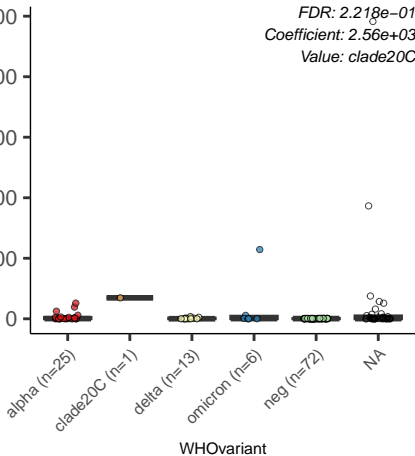
FDR: 2.210e-01
Coefficient: -4.21e+03
Value: delta



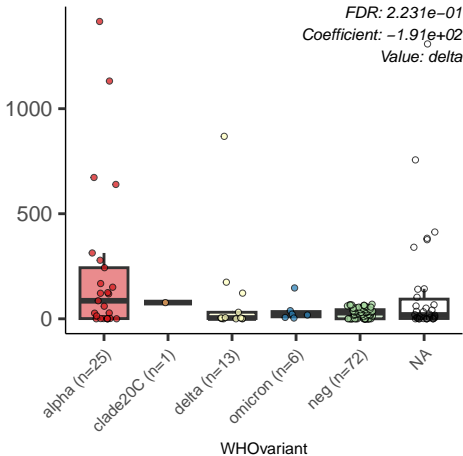


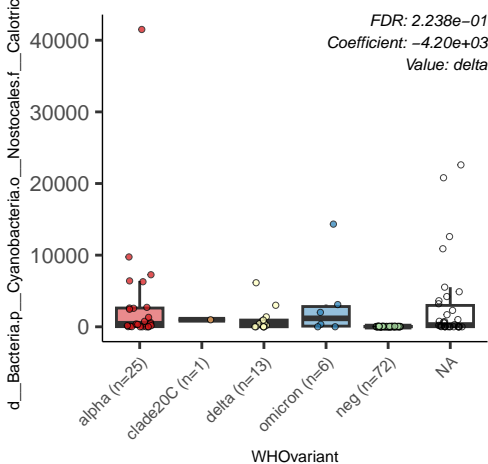
bidetes.c__Bacteroidia.o__Bacteroidales.f__Tannerellaceae.g__Para

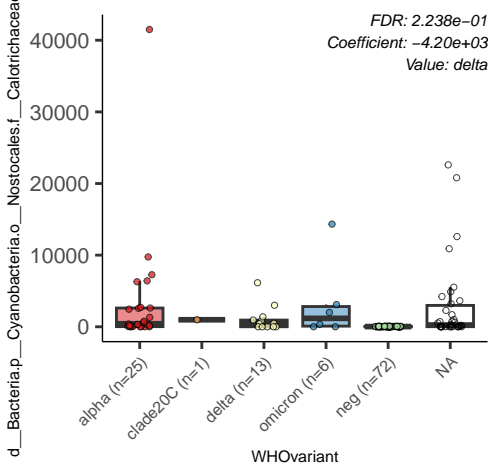
FDR: 2.218×10^{-1}
Coefficient: 2.56×10^3
Value: clade20C

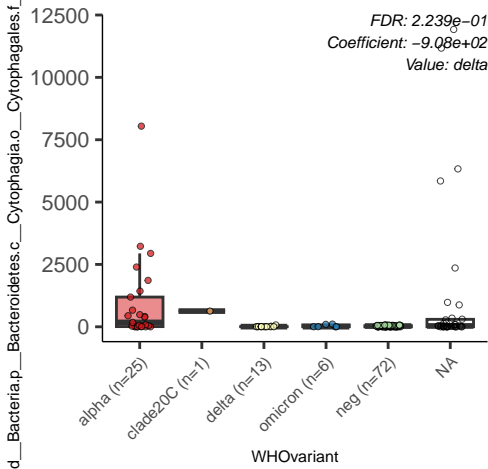


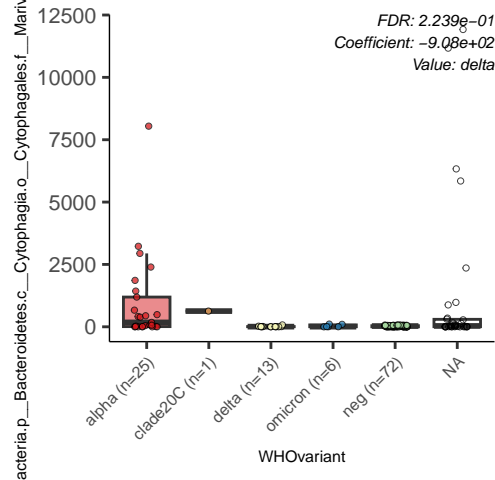
s.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g__Chr

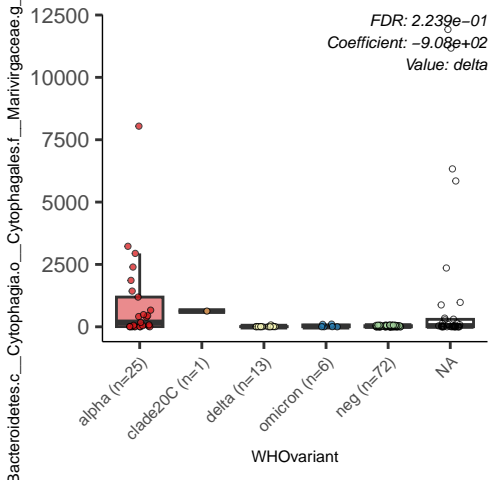






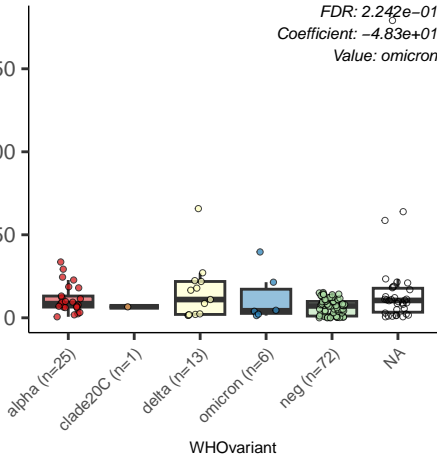






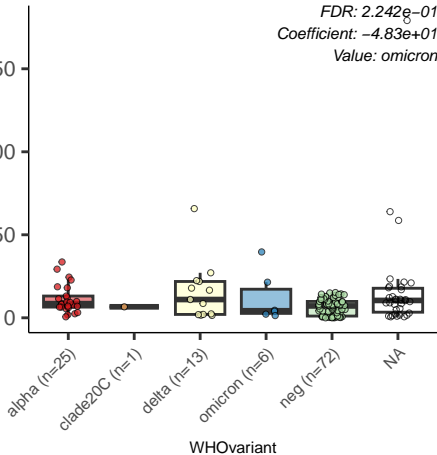
d__Bacteria.c__Candidatus.Babelliae

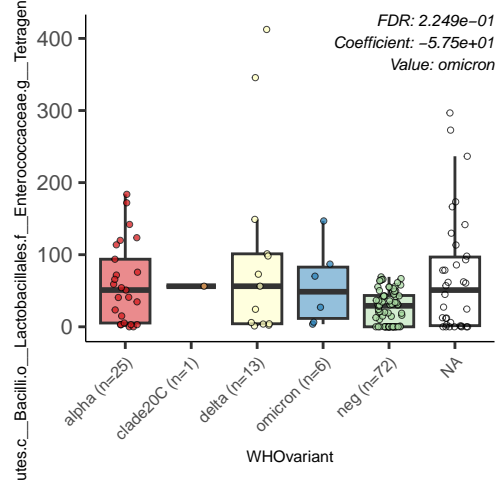
FDR: $2.242e-01$
Coefficient: $-4.83e+01$
Value: omicron



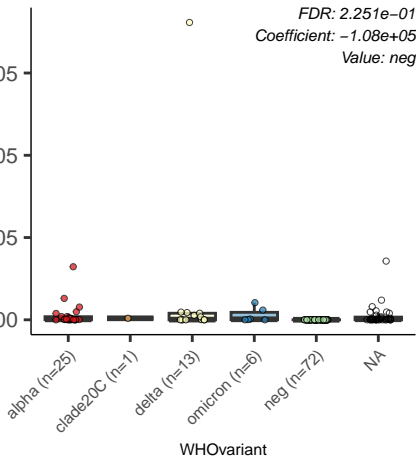
d__Bacteria.c__Candidatus.Babelliae.o__Candidatus.Bab

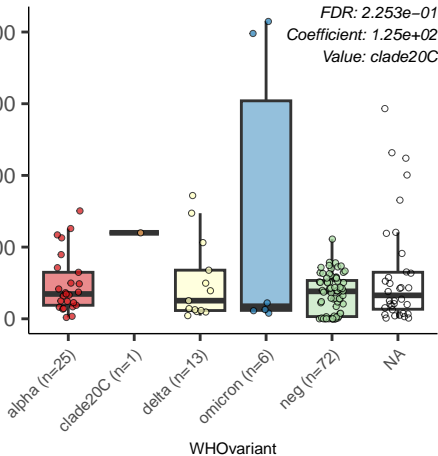
FDR: 2.242×10^{-1}
Coefficient: -4.83×10^1
Value: omicron

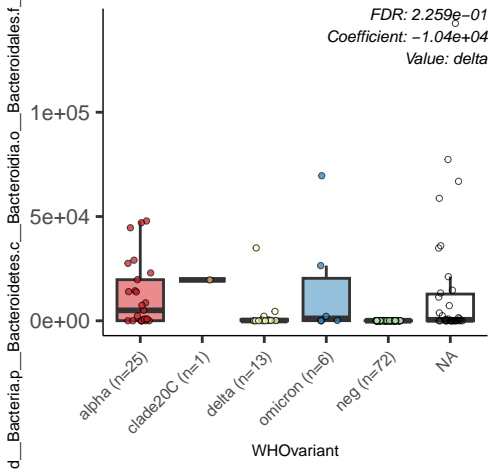




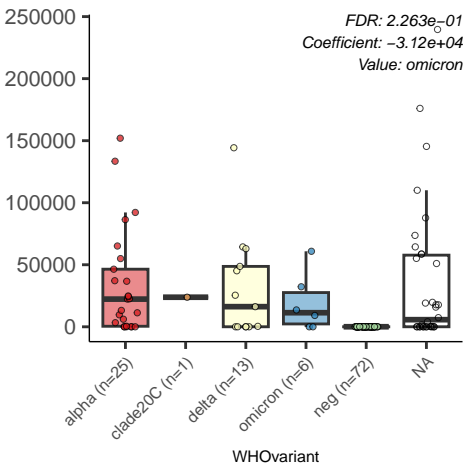
s.c_Negativicutes.o_Selenomonadales.f_Selenomonadaceae.g







Actinomycetia.o__Actinomycetales.f__Actinomycetaceae.g



FDR: 2.263e-01

Coefficient: $-3.12e+04$

Value: omicron

eroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g__P

FDR: 2.263×10^{-1}
Coefficient: -1.73×10^5
Value: omicron

1e+06

5e+05

0e+00

alpha (n=25)

clade20C (n=1)

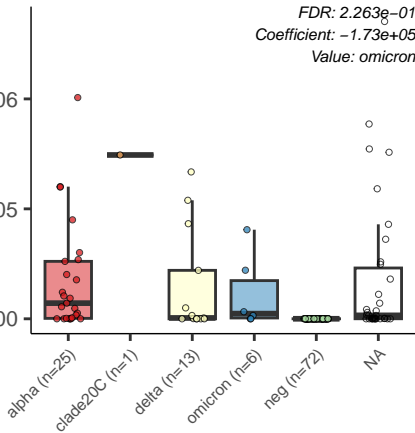
delta (n=13)

omicron (n=6)

neg (n=72)

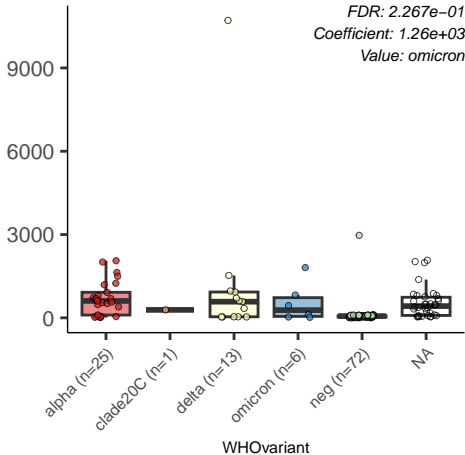
NA

WHOvariant



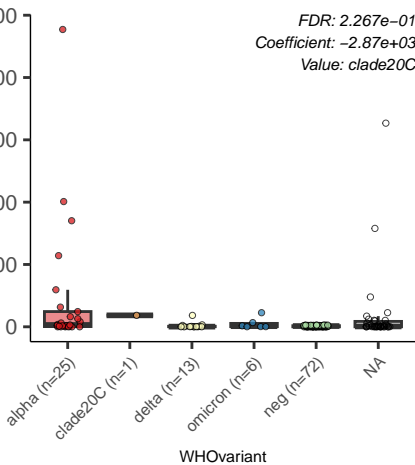
cteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacte

FDR: 2.267e-01
Coefficient: 1.26e+03
Value: omicron



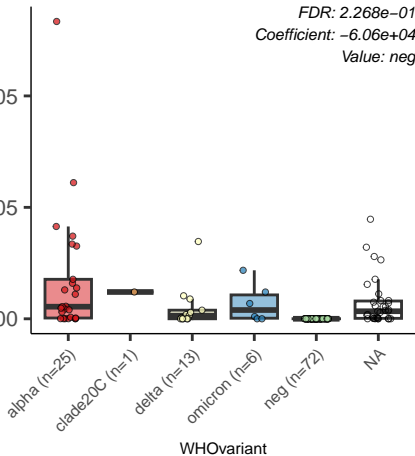
Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae.g__Capnocytophaga

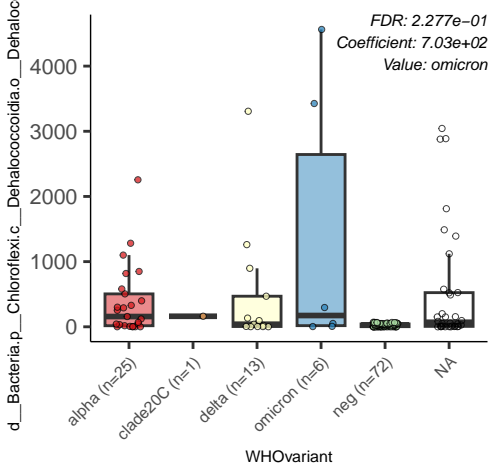
FDR: $2.267e-01$
Coefficient: $-2.87e+03$
Value: *clade20C*



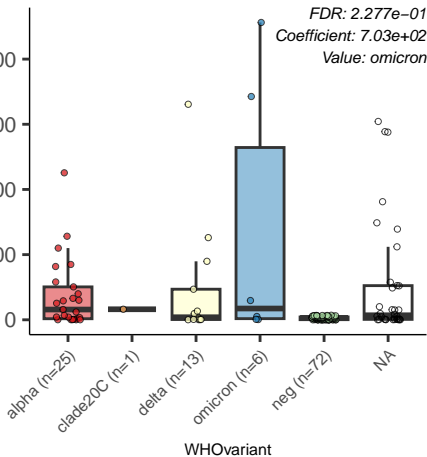
_Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f

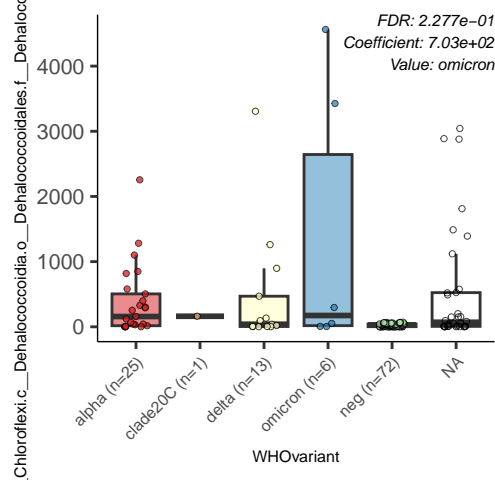
FDR: 2.268e-01
Coefficient: -6.06e+04
Value: neg



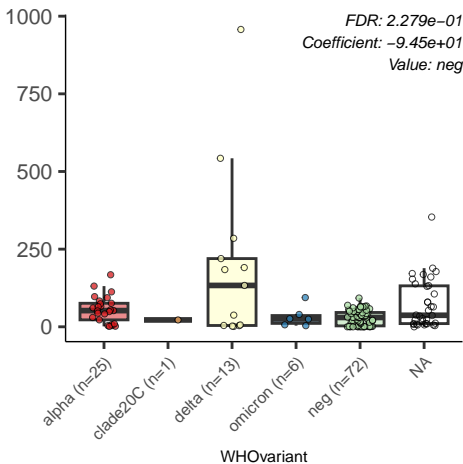


bacteria.p__Chloroflexi.c__Dehalococcoidia.o__Dehalococcoidales.f__

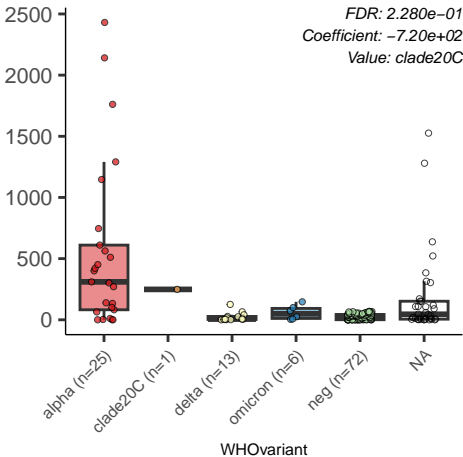


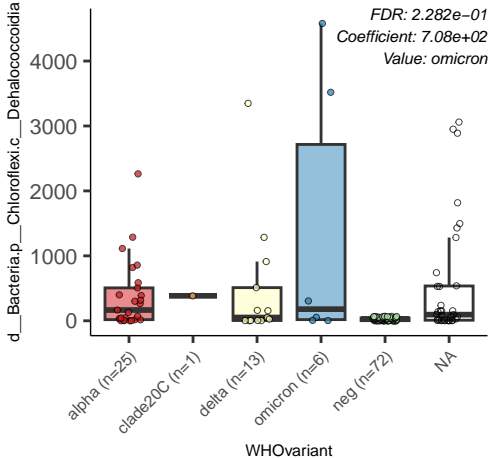


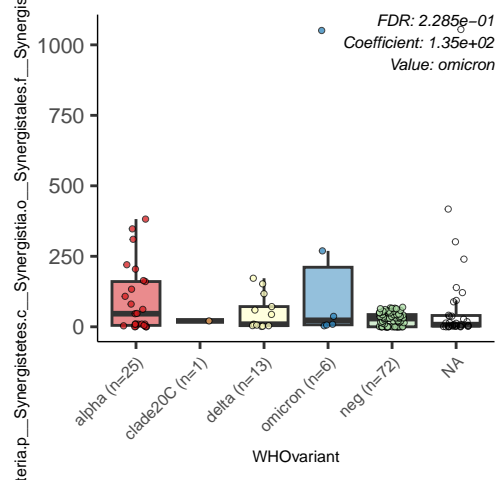
acteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Carnobacteri



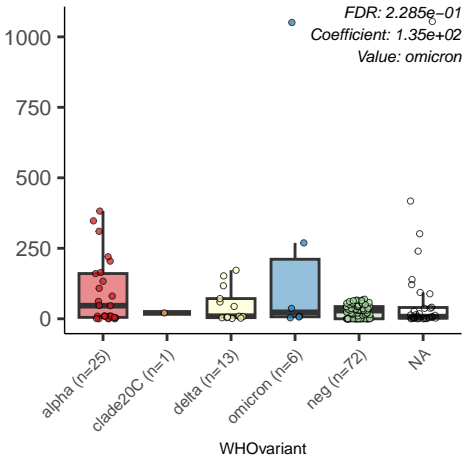
bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae.g





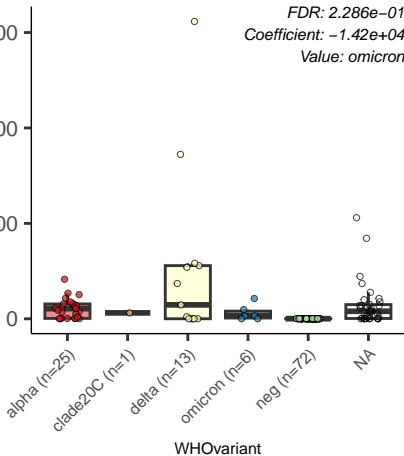


gisteres.c__Synergistia.o__Synergistales.f__Synergistaceae.g__Cl

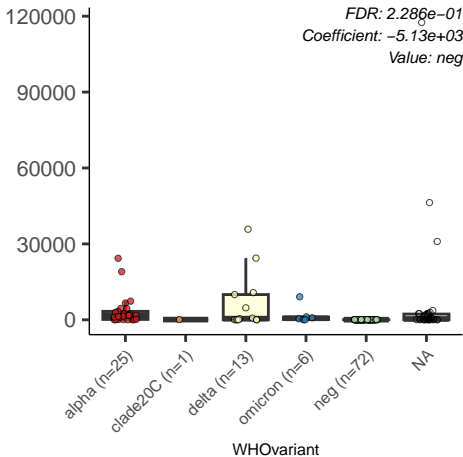


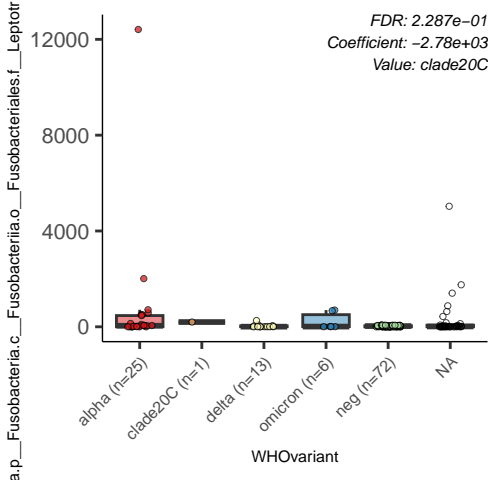
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Paenit

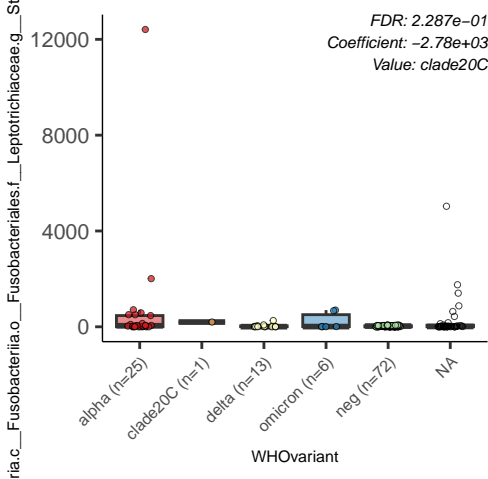
FDR: 2.286e-01
Coefficient: -1.42e+04
Value: omicron



Actinobacteria.c__Actinomycetia.o__Micrococcales.f__Micrococcaceae

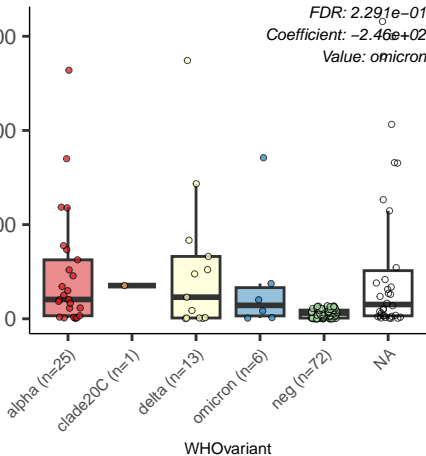




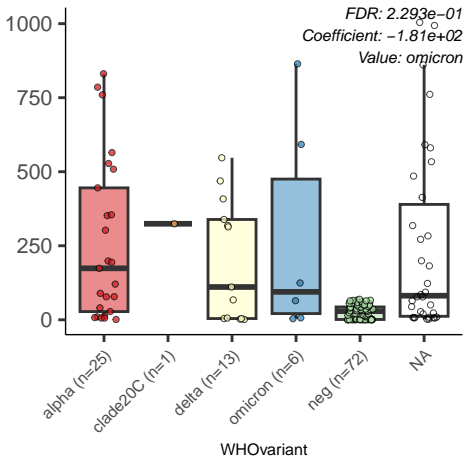


d__Bacteria.p__Firmicutes.c__Bacilli.o__Bacillales.g__Exigu

FDR: $2.291e-01$
Coefficient: $-2.46e+02$
Value: omicron

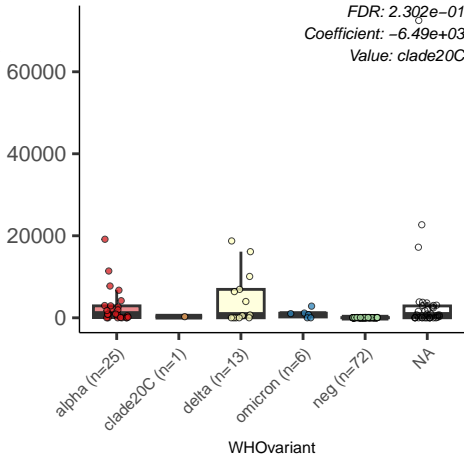


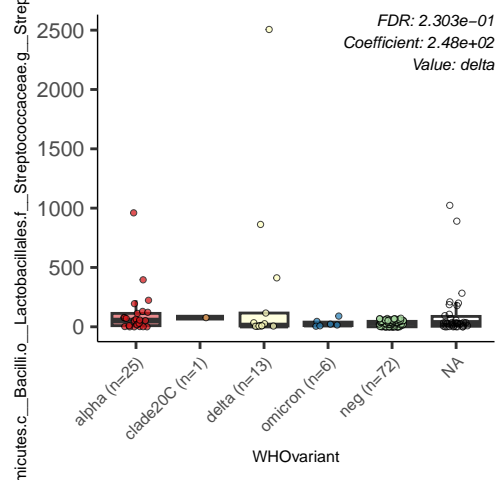
eria.p__Firmicutes.c__Clostridia.o__Thermoanaerobacterales.f__T

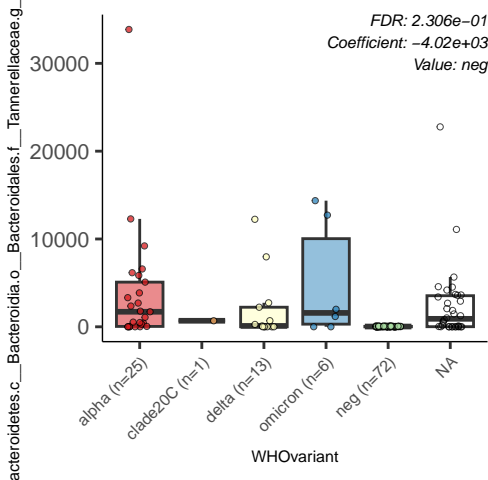


nicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

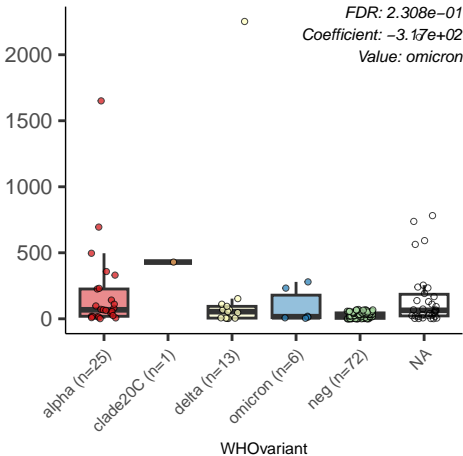
FDR: 2.302×10^{-1}
Coefficient: -6.49×10^3
Value: clade20C

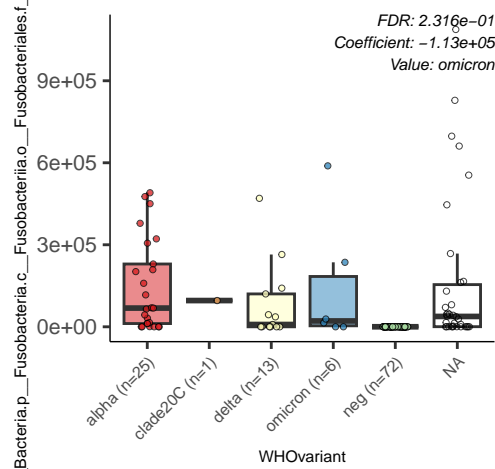




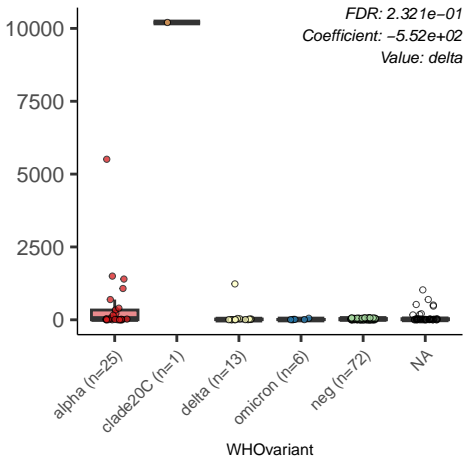


acteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Eubacteri

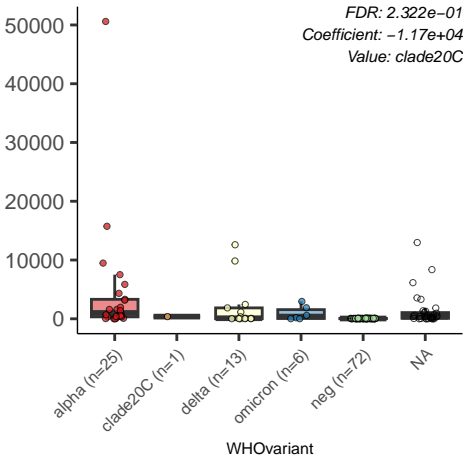




Bacteria.p_Spirochaetes.c_Spirochaetia.o_Spirochaetales.f_Bo

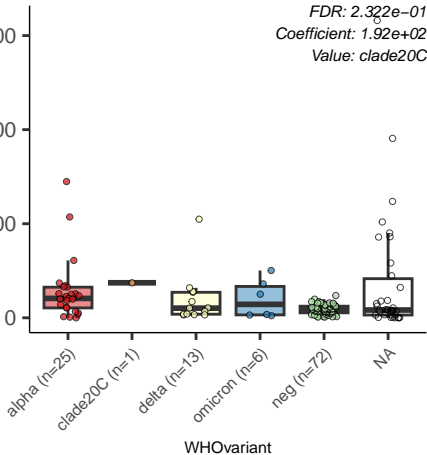


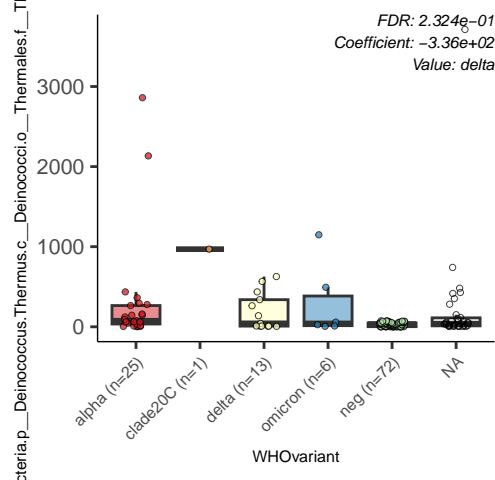
__Epsilonproteobacteria.o__Campylobacteriales.f__Campylobacter

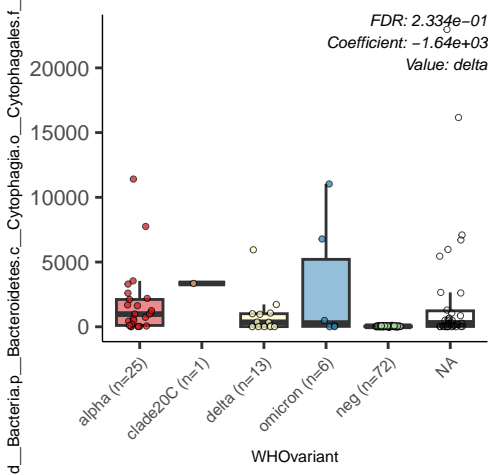


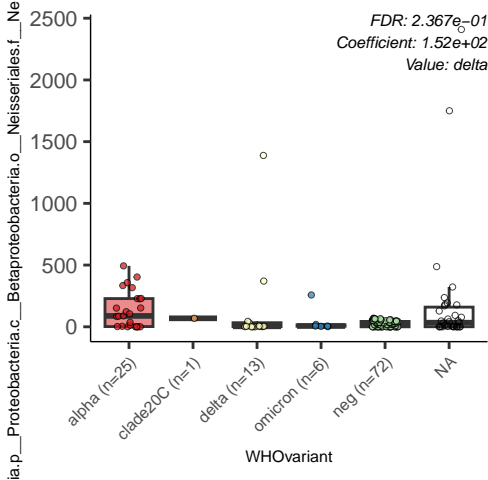
acteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteri

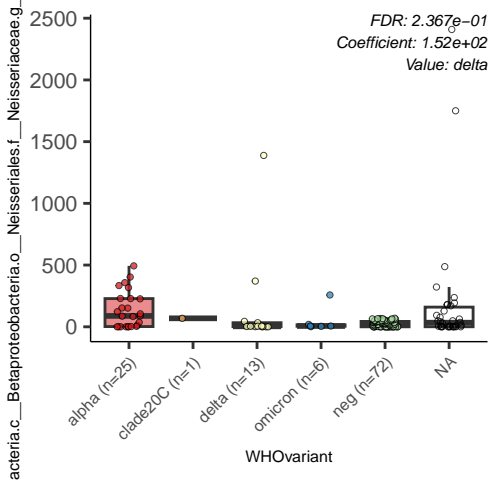
FDR: $2.322e-01$
Coefficient: $1.92e+02$
Value: clade20C





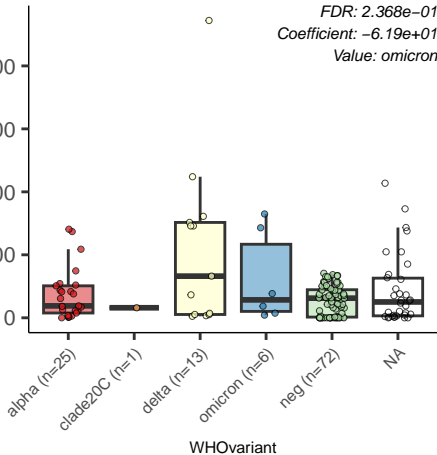




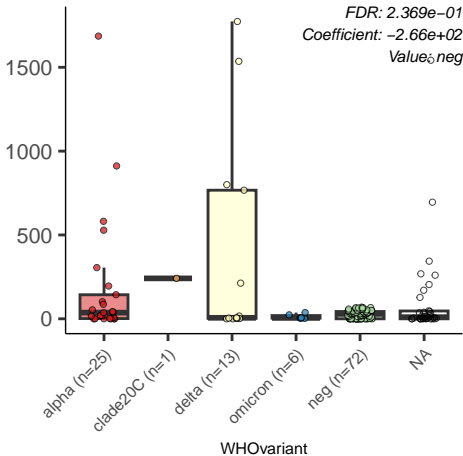


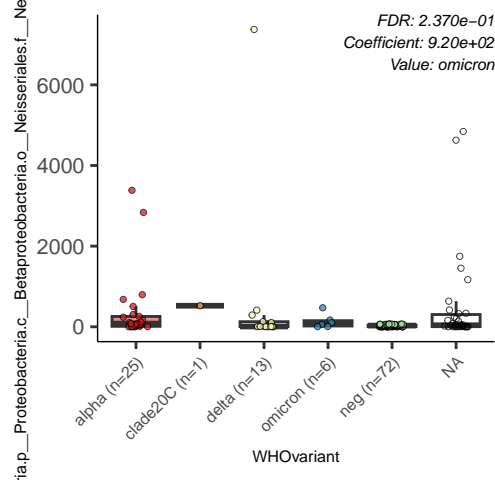
ria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsiales.f__C

FDR: 2.368e-01
Coefficient: -6.19e+01
Value: omicron



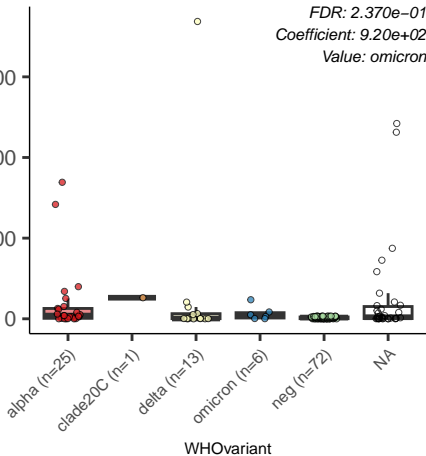
a.c__Gammaproteobacteria.o__Enterobacterales.f__Enterobacteri

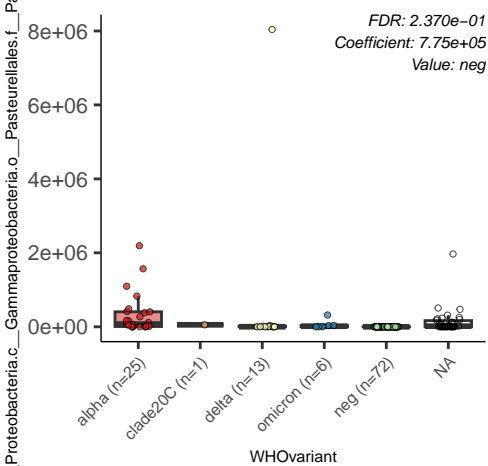


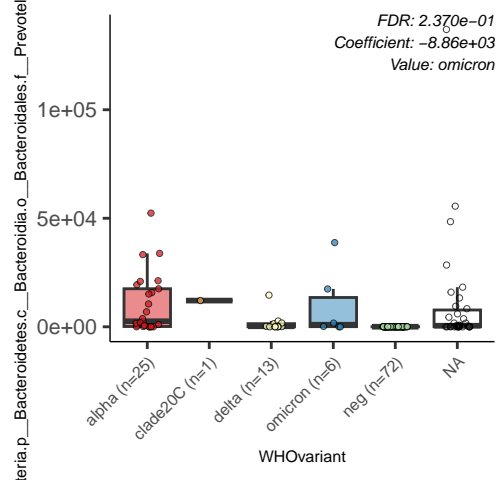


obacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae.

FDR: 2.370e-01
Coefficient: 9.20e+02
Value: omicron







FDR: $2.370e-01$
Coefficient: $-8.86e+03$
Value: omicron

1e+05

5e+04

0e+00

alpha (n=25)

clade20C (n=1)

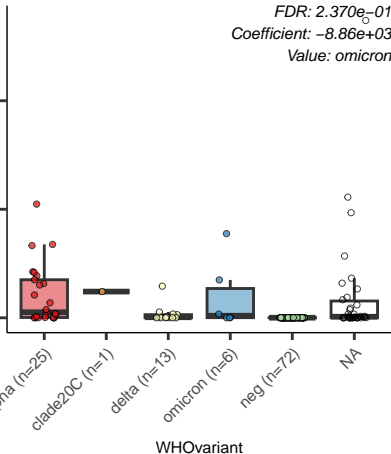
delta (n=13)

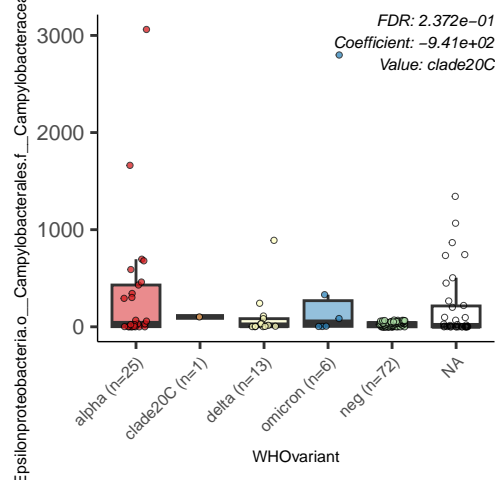
omicron (n=6)

neg (n=72)

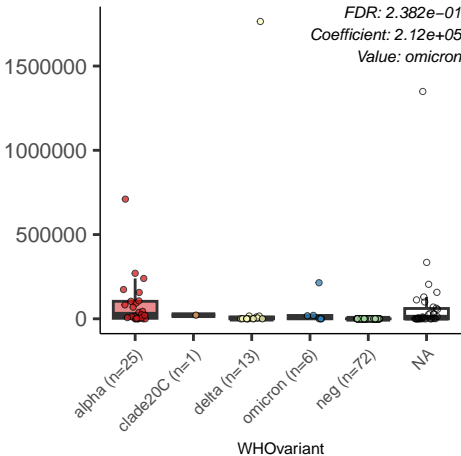
NA

WHOvariant



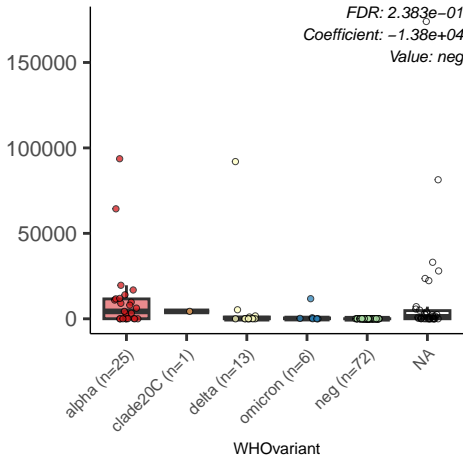


FDR: 2.382e-01
Coefficient: 2.12e+05
Value: omicron



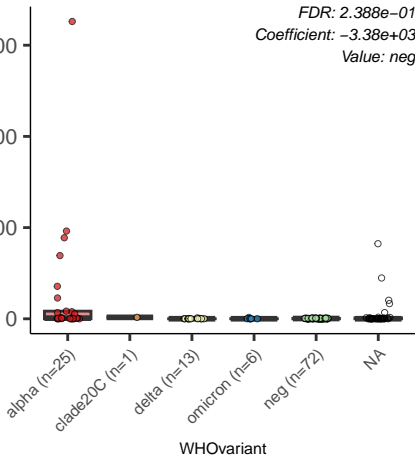
oteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriace

FDR: $2.383e-01$
Coefficient: $-1.38e+04$
Value: neg

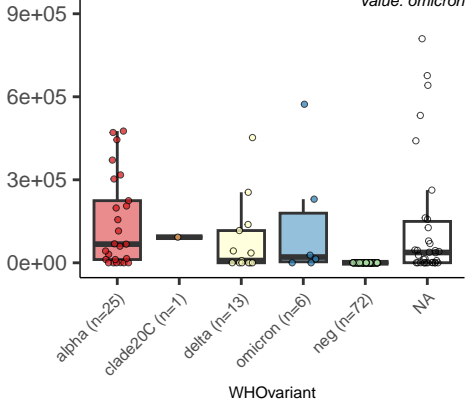


psilonproteobacteria.o__Campylobacterales.f__Campylobacteraceae

FDR: 2.388e-01
Coefficient: -3.38e+03
Value: neg

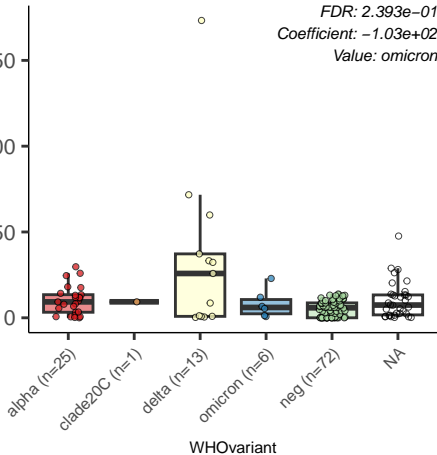


Value: omicron

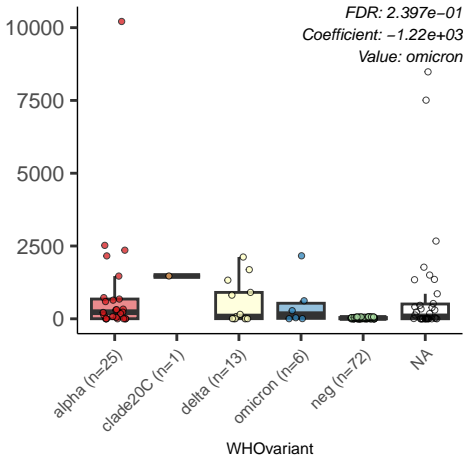


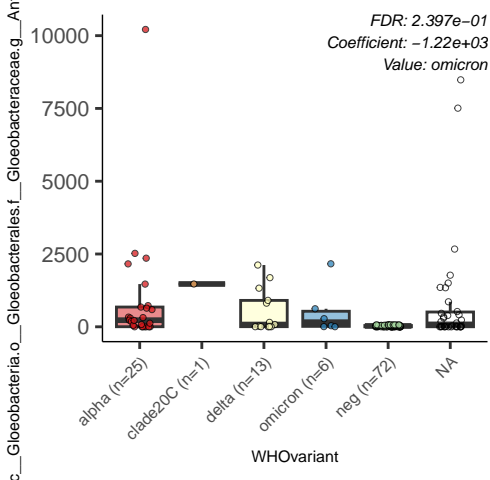
micutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Lactila

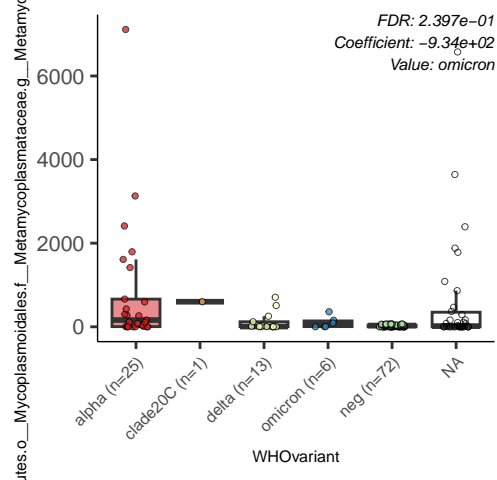
FDR: 2.393e-01
Coefficient: -1.03e+02
Value: omicron



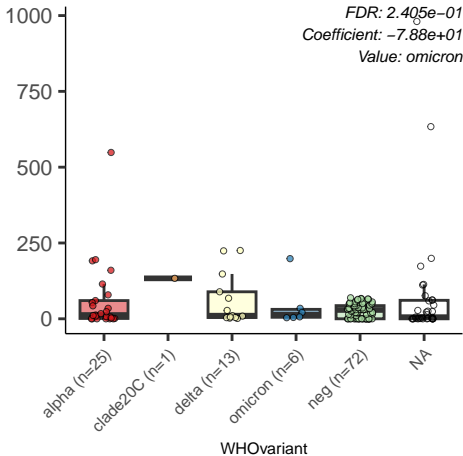
Cyanobacteria.c__Gloeobacteria.o__Gloeobacterales.f__Gloeoba

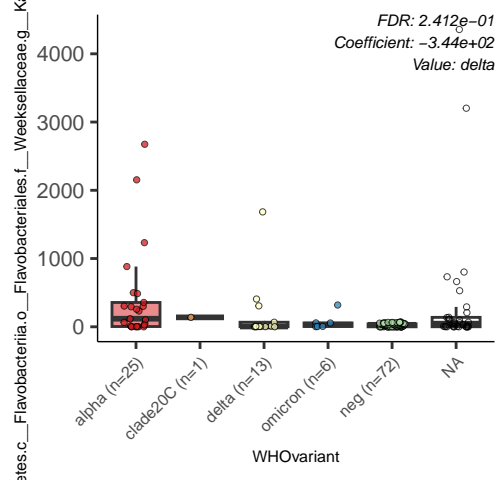






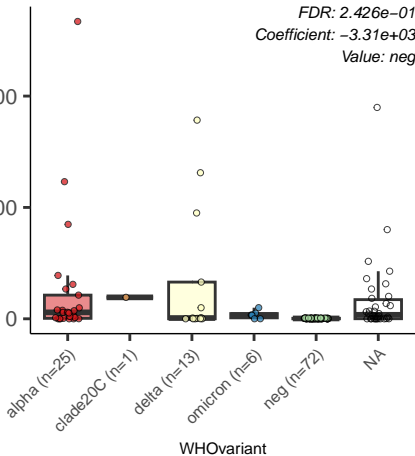
ia.p__Acidobacteria.c__Blastocatellia.g__Chloracidobacterium.s__C



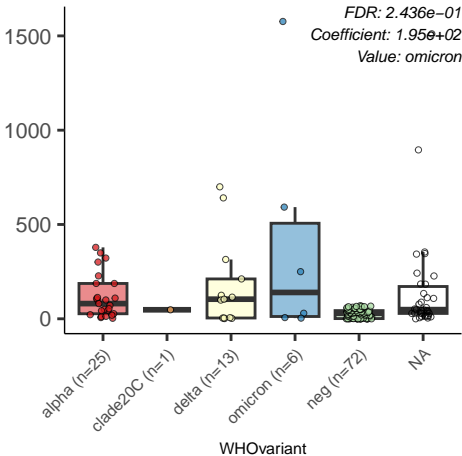


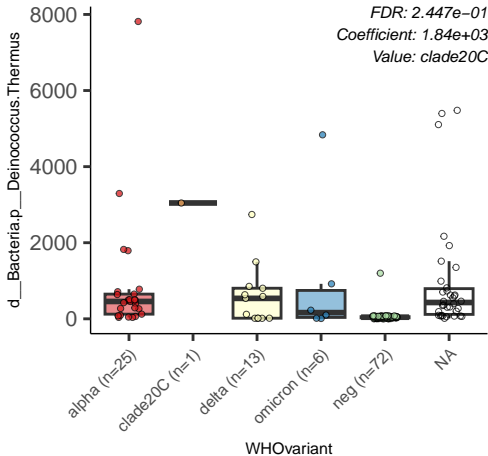
Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.g_Gemella.s

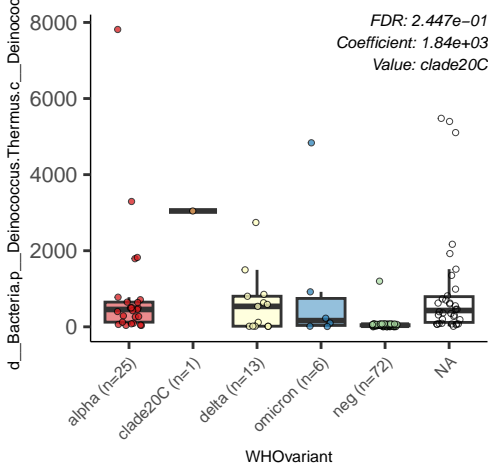
FDR: 2.426e-01
Coefficient: -3.31e+03
Value: neg



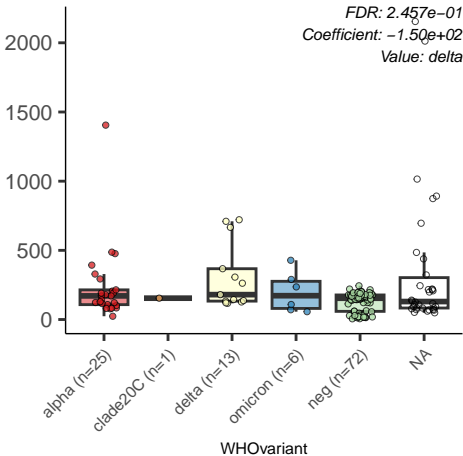
Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Lac



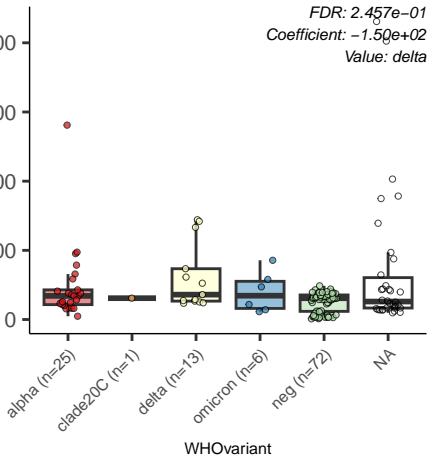


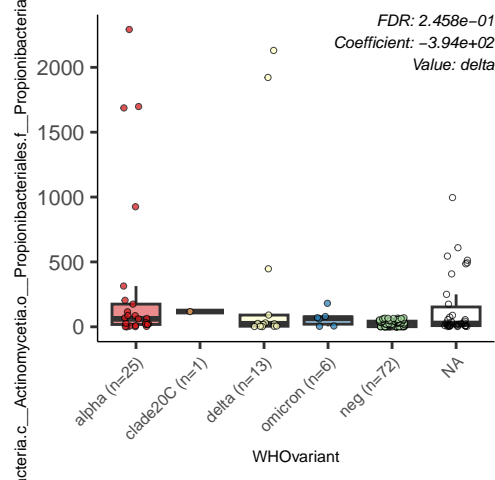


Bacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f



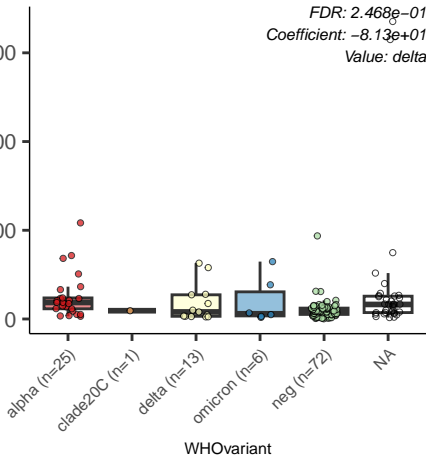
FDR: $2.457e-01$
Coefficient: $-1.50e+02$
Value: delta





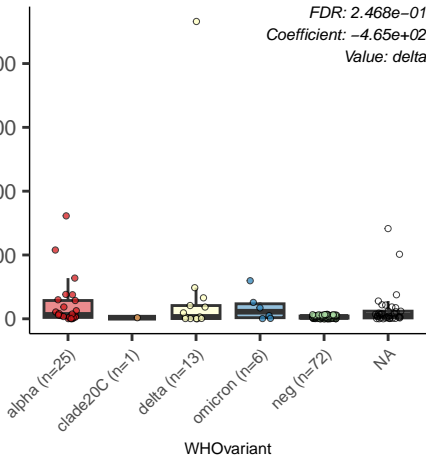
ria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales.f_G

$FDR: 2.468e-01$
 $Coefficient: -8.13e+01$
 $Value: delta$

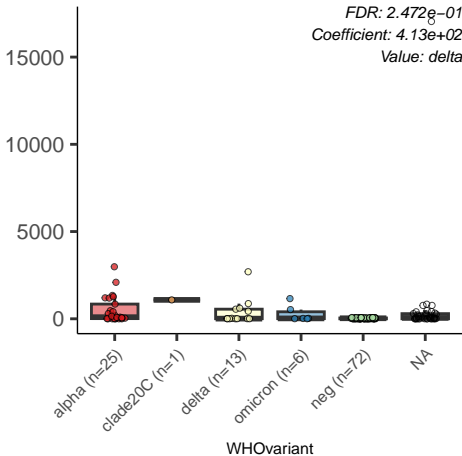


Actinobacteria.c__Actinomycetia.o__Pseudonocardiales.f__Pseud

FDR: $2.468e-01$
Coefficient: $-4.65e+02$
Value: delta



FDR: 2.472e-01
Coefficient: 4.13e+02
Value: delta



o_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Dermaba

FDR: $2.475e-01$
Coefficient: $-9.78e+01$
Value: omicron

1000

500

alpha (n=25)

clade20C (n=1)

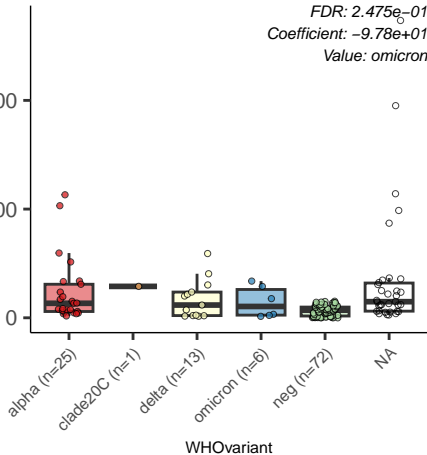
delta (n=13)

omicron (n=6)

neg (n=72)

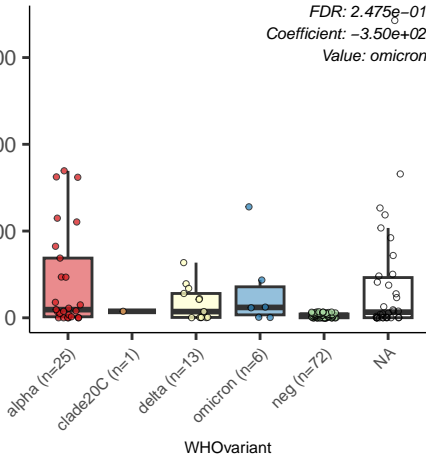
NA

WHOvariant



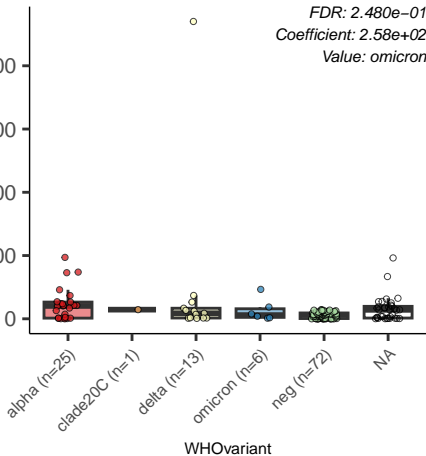
Firmicutes.c__Negativicutes.o__Acidaminococcales.f__Acidaminino

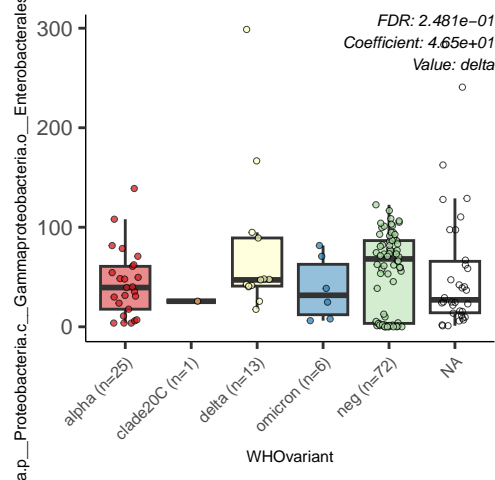
FDR: $2.475e-01$
Coefficient: $-3.50e+02$
Value: omicron



a.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales

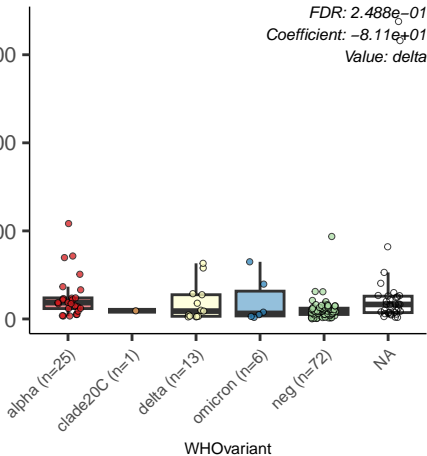
FDR: 2.480e-01
Coefficient: 2.58e+02
Value: omicron





Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriale

FDR: $2.488e-01$
Coefficient: $-8.11e+01$
Value: delta



d__Bacteria.p__Firmicutes.c__Negativicutes.o__Acidaminob

FDR: $2.491e-01$
Coefficient: $-1.34e+03$
Value: clade20C

