

Table S1 Multiple linear regression model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics					Durbin-Watson
					R Square Change	F Change	df1	df2	Sig. F Change	
1	.841 ^a	.707	.677	.23115	.707	24.102	1	10	.001	
2	.909 ^b	.826	.788	.18744	.120	6.207	1	9	.034	2.132

- a. Predictors: (Constant), mpc1
b. Predictors: (Constant), mpc1, M1
c. Dependent Variable: OB

Table S2 Indicator species information table in module #1

ASV	King dom	Phylum	Class	Order	Family	Genus	Species	Fold change (CC vs NOR)	Biom arker
a6886436ce2477676a9c4daca0bd9d13	Fung i	Rozellomycota	unidentified	unidentifie d	unidentified	unidenti fied	unidentified	0.000538921	NOR
b5ed84deade42b8c47728edd84ddced2	Bact eria	Chloroflexi	KD4-96	KD4-96	KD4-96	KD4-96	uncultured_bac terium	0.00171073	NOR
aed787becb355d0e176762de9d7393ff	Bact eria	Chloroflexi	KD4-96	KD4-96	KD4-96	KD4-96	NA	0.001754206	NOR
99cf1750a54711e2bce46394da8df914	Bact eria	Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	Bacillus_batavi ensis	0.002177371	NOR
7befc6178a7ef82cffd c0611ba10317d	Bact eria	Proteobacteria	Alphaprote obacteria	Rhizobiale s	Xanthobact eraceae	NA	NA	0.002767571	NOR
3d9fc7bd5c4609c7eff d922967d1c968	Bact eria	Acidobacteriot a	Subgroup_1 8	Subgroup_ 18	Subgroup_ 18	Subgrou p_18	uncultured_bac terium	0.003890187	NOR
2116292b376dde9519a7f12cc76f4e4c	Bact eria	Acidobacteriot a	Blastocatell ia	Pyrinomon adales	Pyrinomon adaceae	RB41	uncultured_Aci dobacteria	0.006429867	NOR
c2d4f0b1a972493ff4f fef8ca269c07a	Fung i	unassigned	NA	NA	NA	NA	NA	0.039679121	NOR
ef6641185ab0fa2c3442d8b5f4c87af8	Bact eria	Actinobacteriot a	Actinobacte ria	Propioniba cteriales	Nocardioid aceae	Nocardi oides	NA	0.04288568	NOR
2a706be6d37fcbf1b04add91987ddc5c	Bact eria	Proteobacteria	Alphaprote obacteria	Sphingom onadales	Sphingomo nadaceae	Sphingo bium	NA	0.086861763	NOR
b65edd5d001d3668dc59db6f69c1be1f	Bact eria	Proteobacteria	Gammaprot eobacteria	Burkholde riales	Nitrosomon adaceae	MND1	uncultured_Bu rkholderiales	0.153925758	NOR
0a8f178dfb8da47b79d1197d09388268	Bact eria	Actinobacteriot a	Actinobacte ria	Micrococc ales	Intrasporan giaceae	Terrabac ter	Terrabacter_sp.	0.163158097	NOR
3aff84b9ca4f608791de878a14f5bd6d	Bact eria	Actinobacteriot a	Thermoleop hilia	Gaiellales	Gaiellaceae	Gaiella	NA	0.275786966	NOR
0e2bc71bef131ab2c6c2053f2a3ac318	Bact eria	Gemmatimoun assigneddota	Gemmatim onadetes	Gemmati monadales	Gemmatim onadaceae	Gemmat imonas	NA	0.295628433	NOR
75e6d2e0e8e2f524a7ea5605c410eeac	Bact eria	Gemmatimoun assigneddota	Gemmatim onadetes	Gemmati monadales	Gemmatim onadaceae	uncultur ed	NA	0.345869371	NOR

4fd72f3551ce1fe631769dbffd841360	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobiales	Beijerinckiaceae	Microvirga	NA	0.44481961	NOR
5eeb1cd3b5b89f057f105b554736f049	Fungi	unassigned	NA	NA	NA	NA	NA	1.655381003	CC
968992fc75554f39fb4d60aebced3050	Fungi	Ascomycota	Dothideomycetes	Pleosporales	Didymellaceae	Didymella	NA	2.325551333	CC
a90f7820f8c8240177be68191aa0cab6	Fungi	Mortierellomycota	Mortierellomyces	Mortierellales	Mortierellaceae	Mortierella	Mortierella_amoeboides	2.338692253	CC
ee3301596353115d984dc0c9664e878c	Fungi	Mortierellomycota	Mortierellomyces	Mortierellales	Mortierellaceae	Mortierella	Mortierella_alpina	2.365826013	CC
ffbbcc236e64e00f8314f36440ca58a1	Fungi	Ascomycota	Sordariomycetes	Hypocreales	Stachybotryaceae	NA	NA	2.619664375	CC
38317f0098ab7993ccd4f752eb9831c7	Fungi	Ascomycota	Eurotiomycetes	Chaetothyriales	unidentified	unidentified	unidentified	3.194552522	CC
b99f2e16b143e67b97f1e024ad44524a	Fungi	Ascomycota	Sordariomycetes	Xylariales	Microdochaceae	Microdochium	Microdochium_paspali	3.679983846	CC
43a95e01a5c67f3480668bd5c2851c34	Fungi	Ascomycota	Pezizomyces	Pezizales	Ascodesmidaceae	Cephalophora	unidentified	4.002834817	CC
3baaa1a55f67a004e5bdf88baecff544	Fungi	Ascomycota	Sordariomycetes	Hypocreales	Nectriaceae	Gibberella	Gibberella_intricans	4.149172212	CC
c1805b5d501009a19b1d6589de9b00d4	Fungi	Ascomycota	Sordariomycetes	Sordariales	Lasiosphaeriaceae	Cladorrhinum	NA	5.677996318	CC
a0d9f93e678f593c59f226cc94c0615a	Fungi	Ascomycota	Sordariomycetes	Sordariales	Chaetomiaceae	Chaetomium	NA	29.9936698	CC

