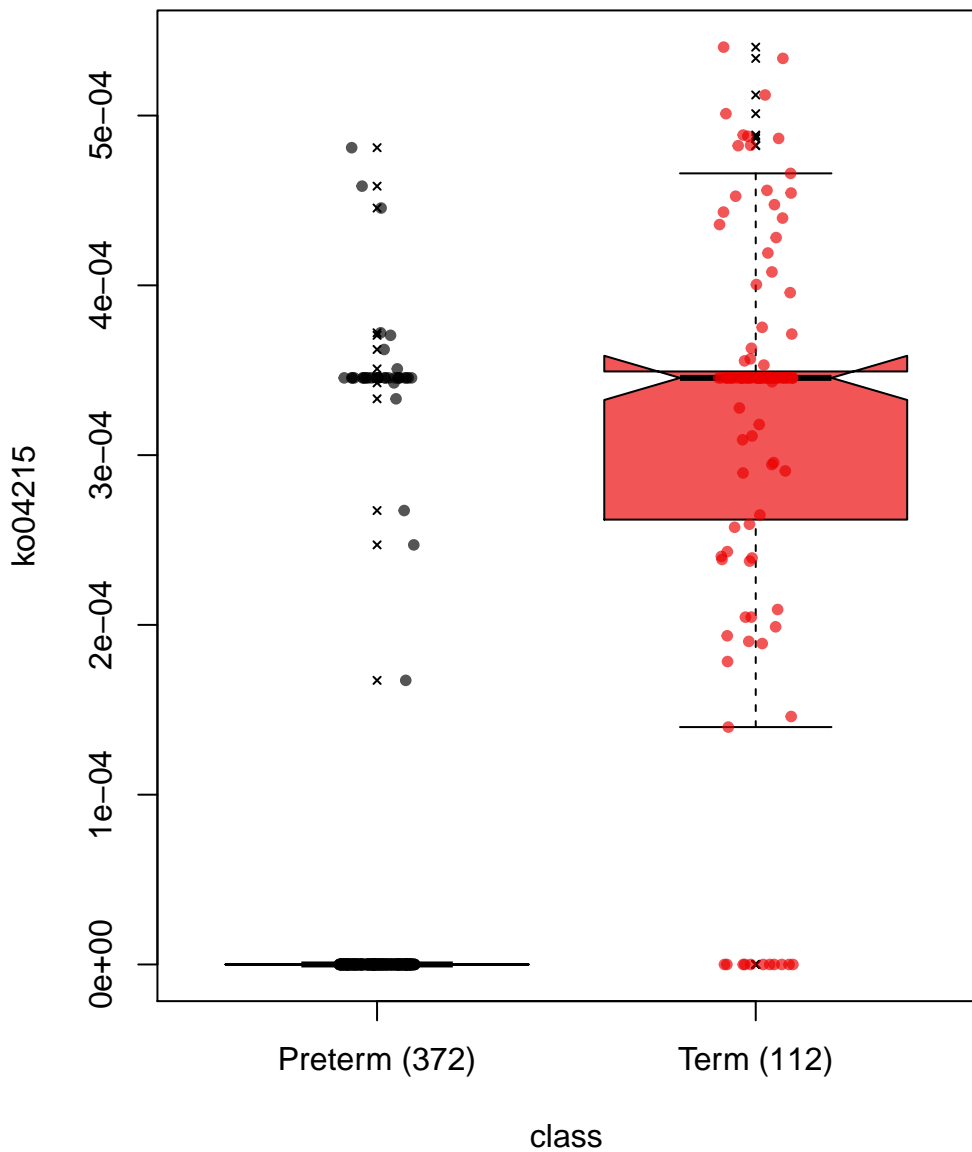


Supplementary data

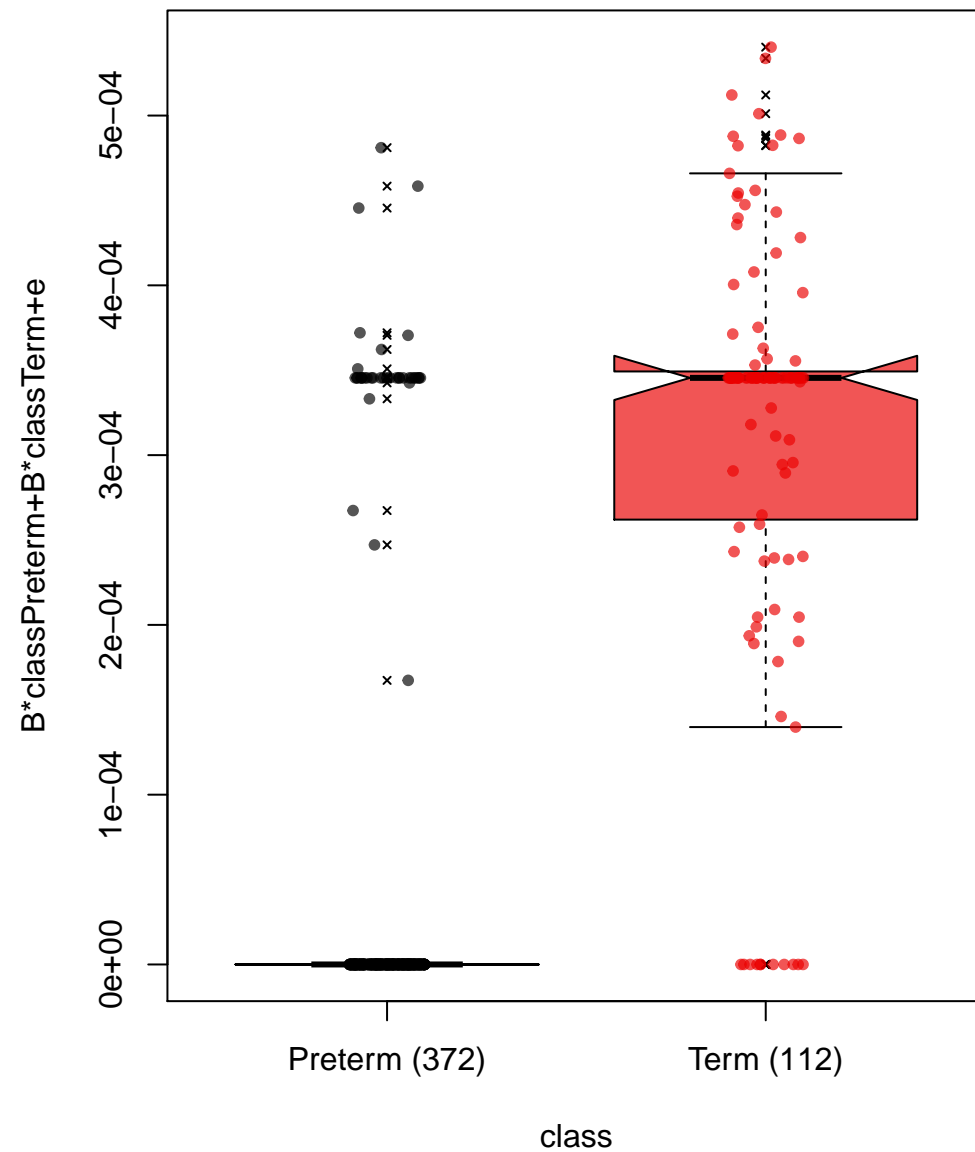
Metabolic Pathway Distributions in Very Low Birth Weight Infants:
Potential Relationships with NICU Faltered Growth

S4. Association of the relative abundance of bacterial KEGG pathways to the VLBW infants and term infants. Each page of this file shows a separate pathway which was significantly different between the two groups. The box plots indicate the association of the metadata (here, the two groups preterm and term infants) with the relative abundances. The strength of association is indicated by the p-value and an FDR-corrected q-value. The partial residual plot shows the relationship between the groups with abundances when all other variables are included in the model.

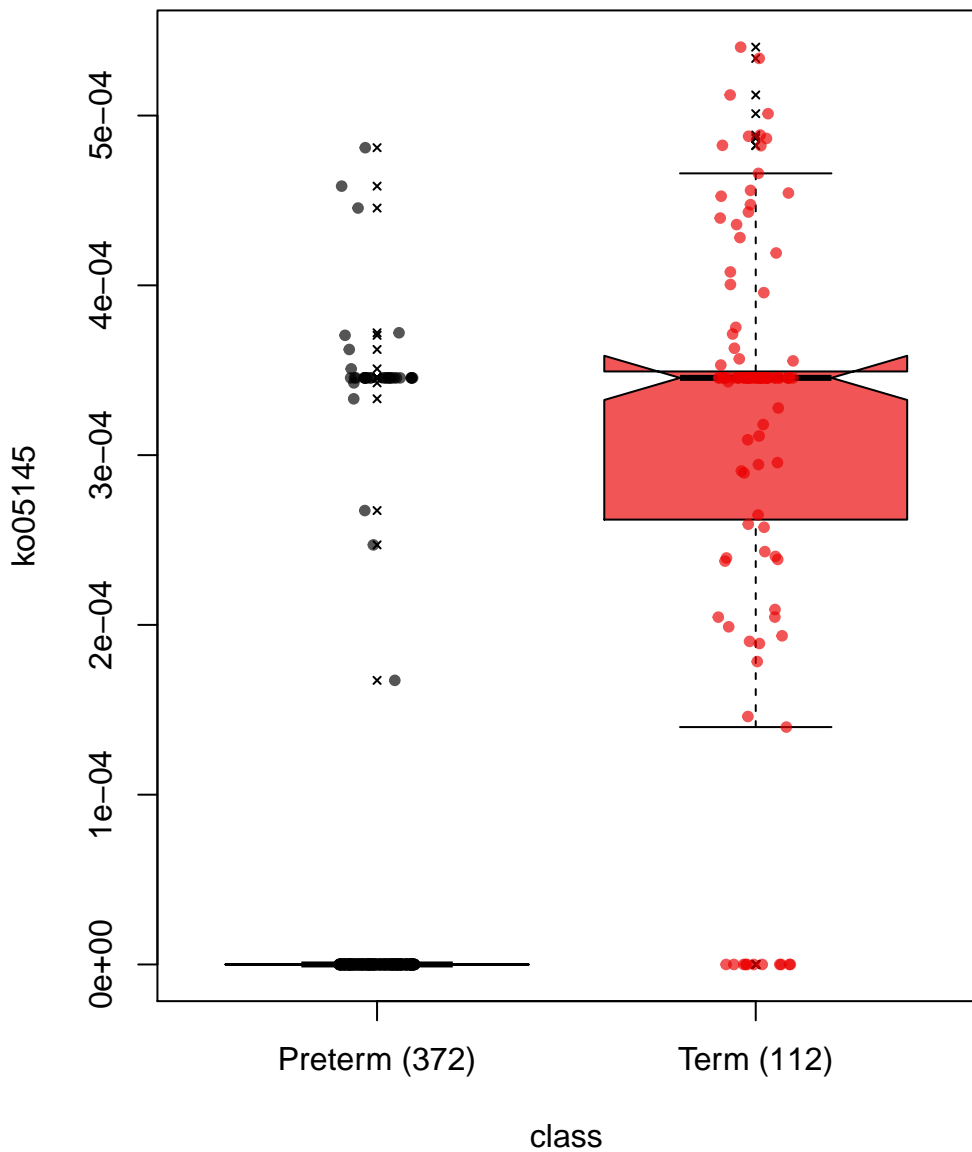
classTerm (0.000277 sd 1.2e-05, p=7.56e-80, q=2.02e-78)



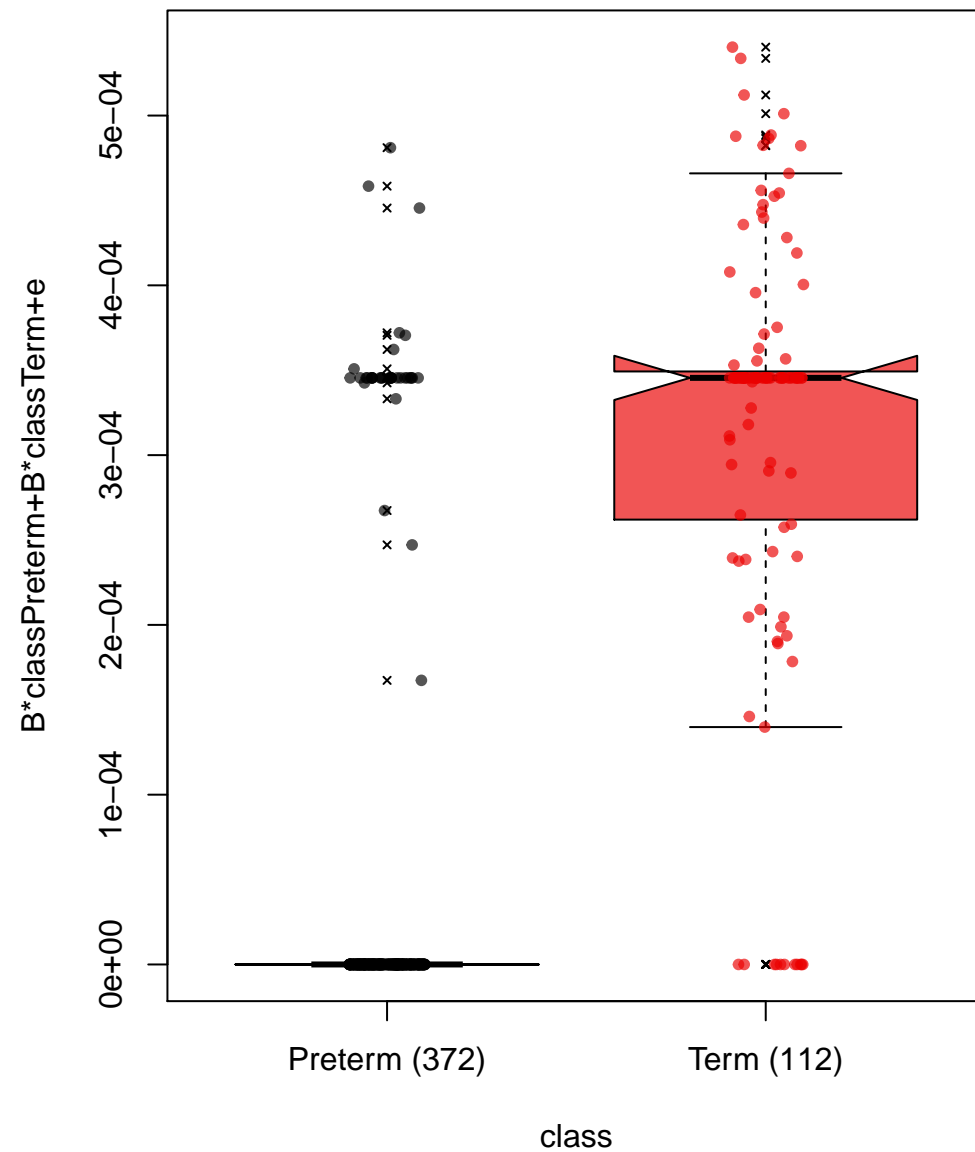
Partial Residual Plot



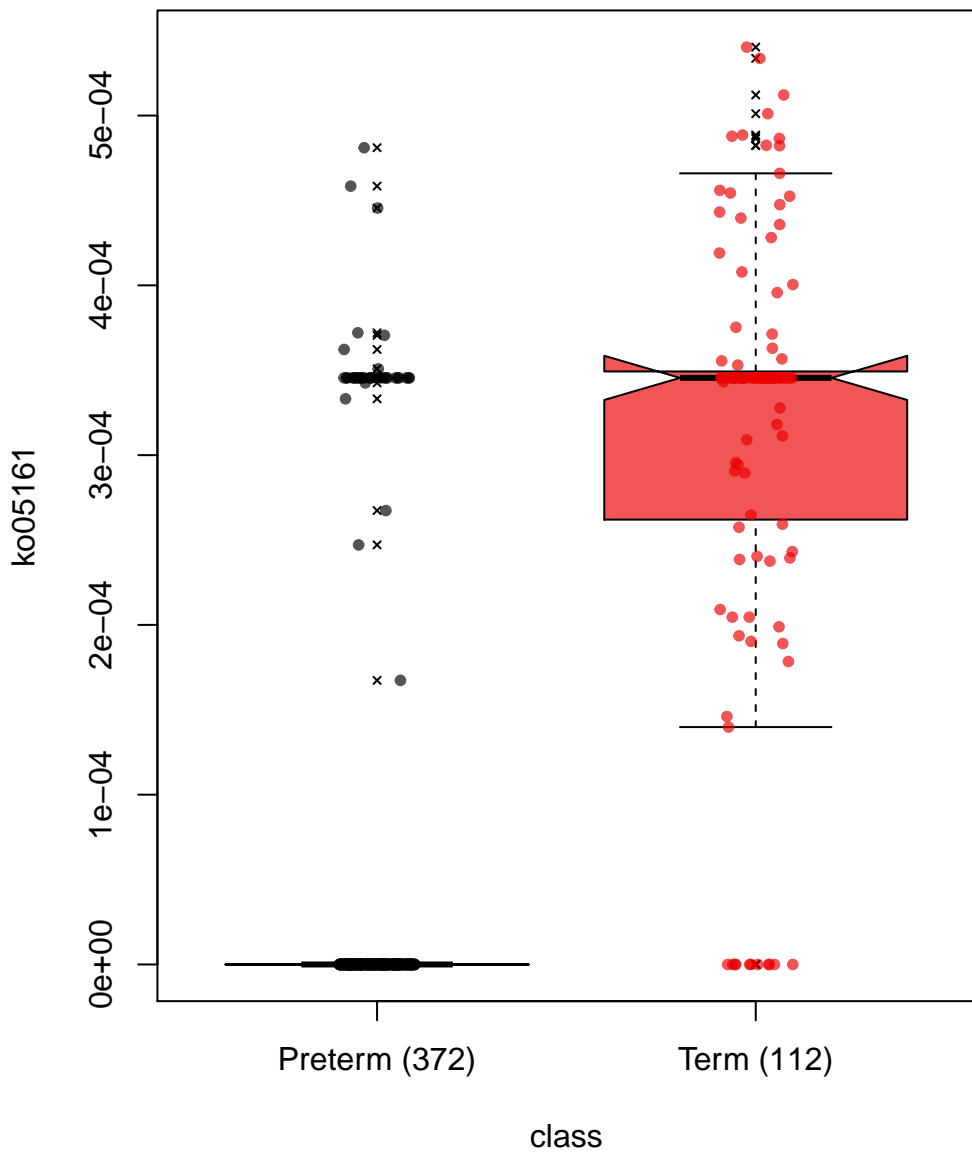
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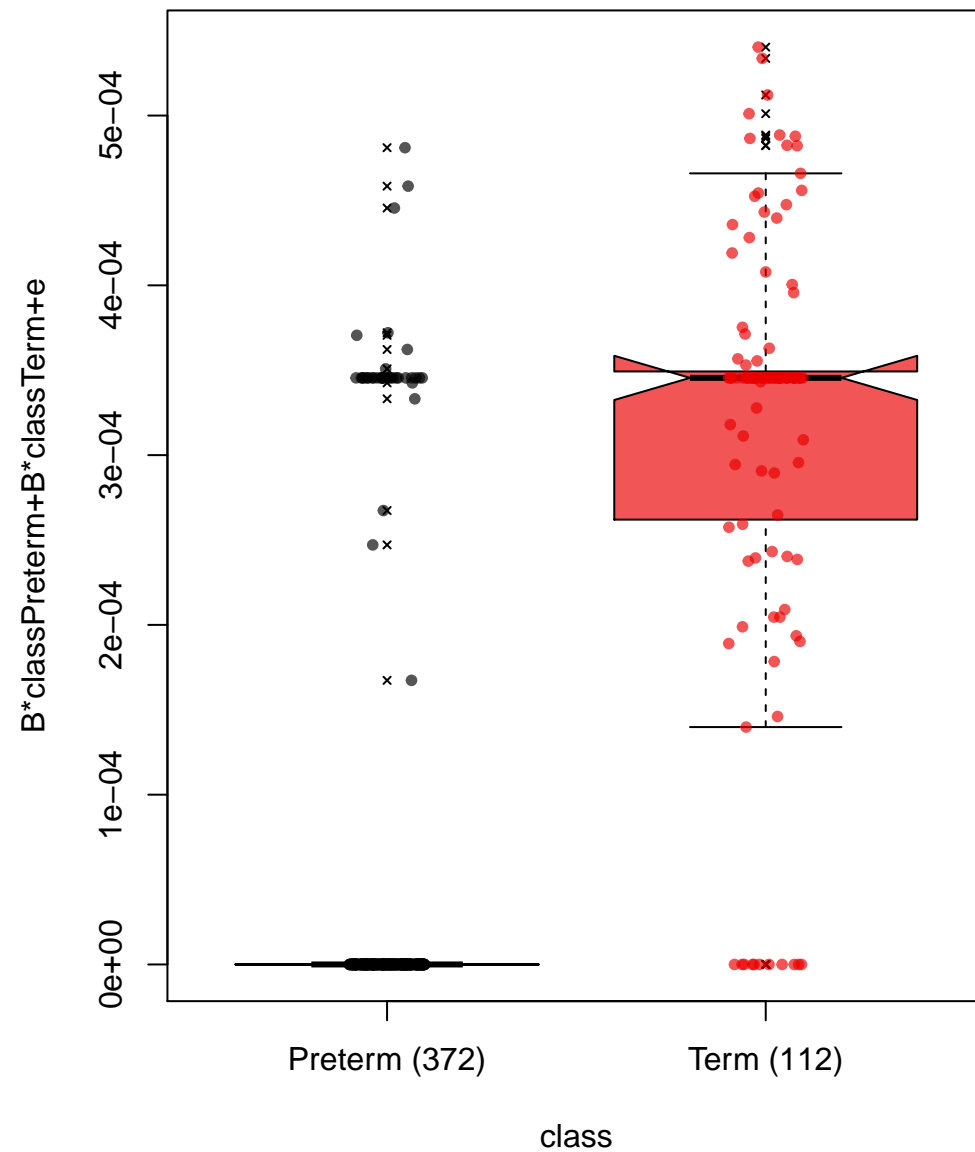
Partial Residual Plot



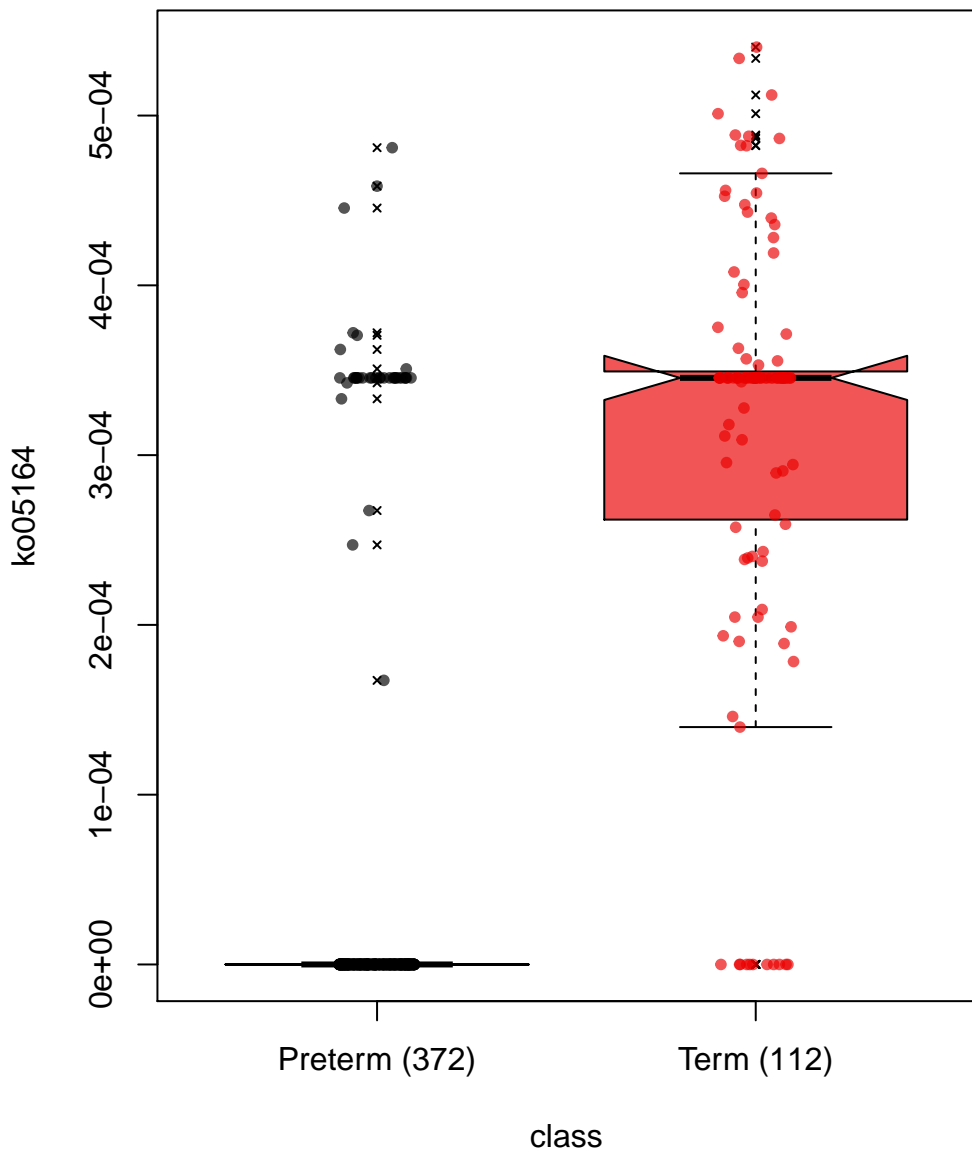
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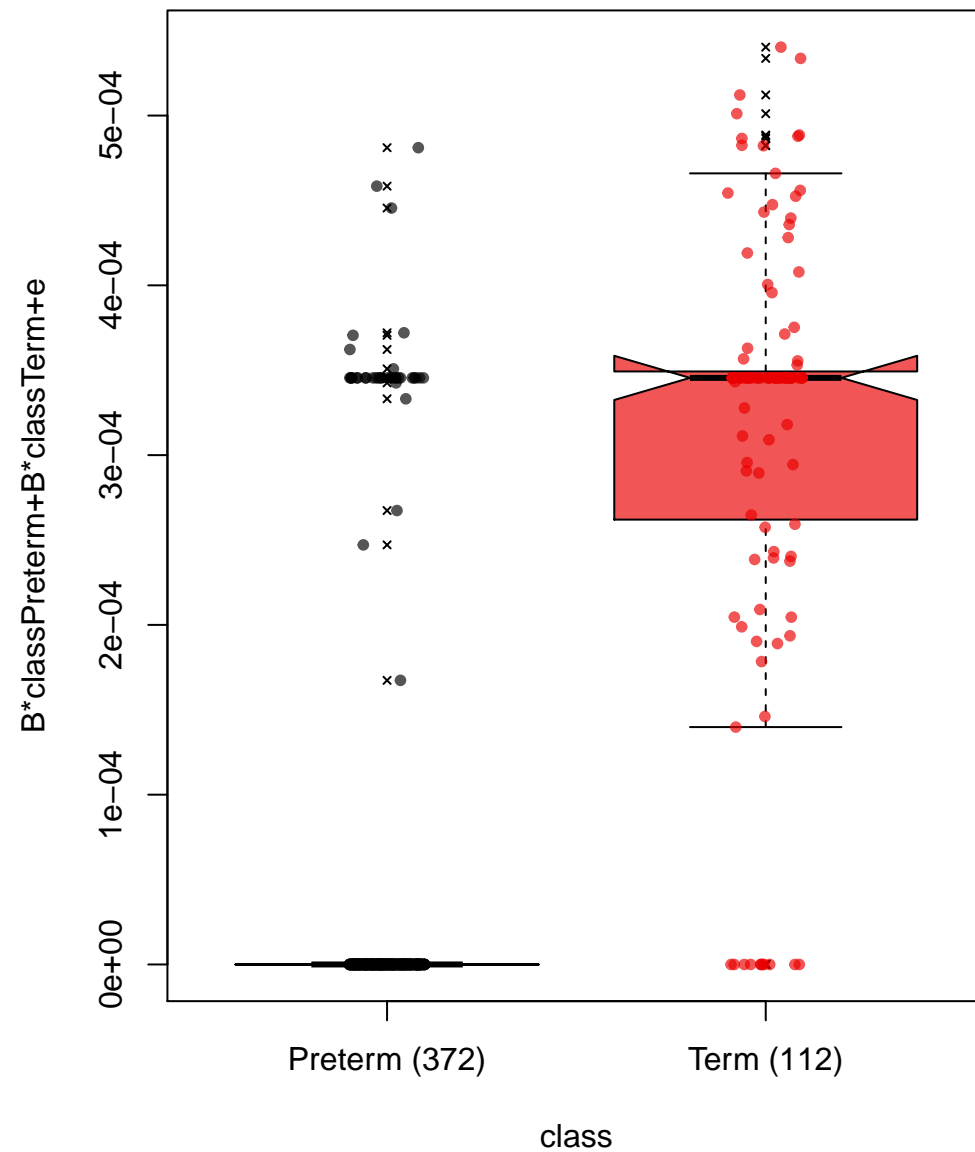
Partial Residual Plot



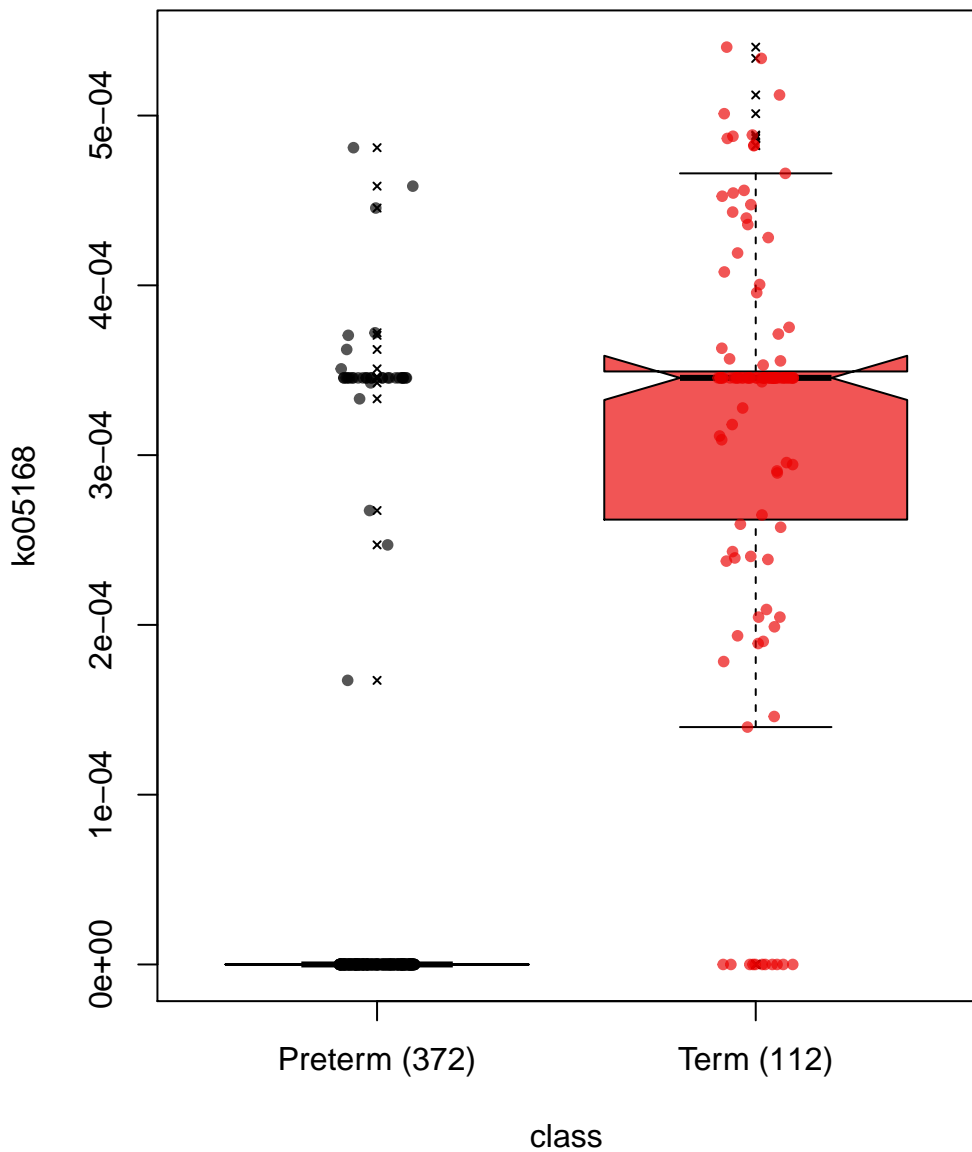
classTerm (0.000277 sd 1.2e-05, p=7.56e-80, q=2.02e-78)



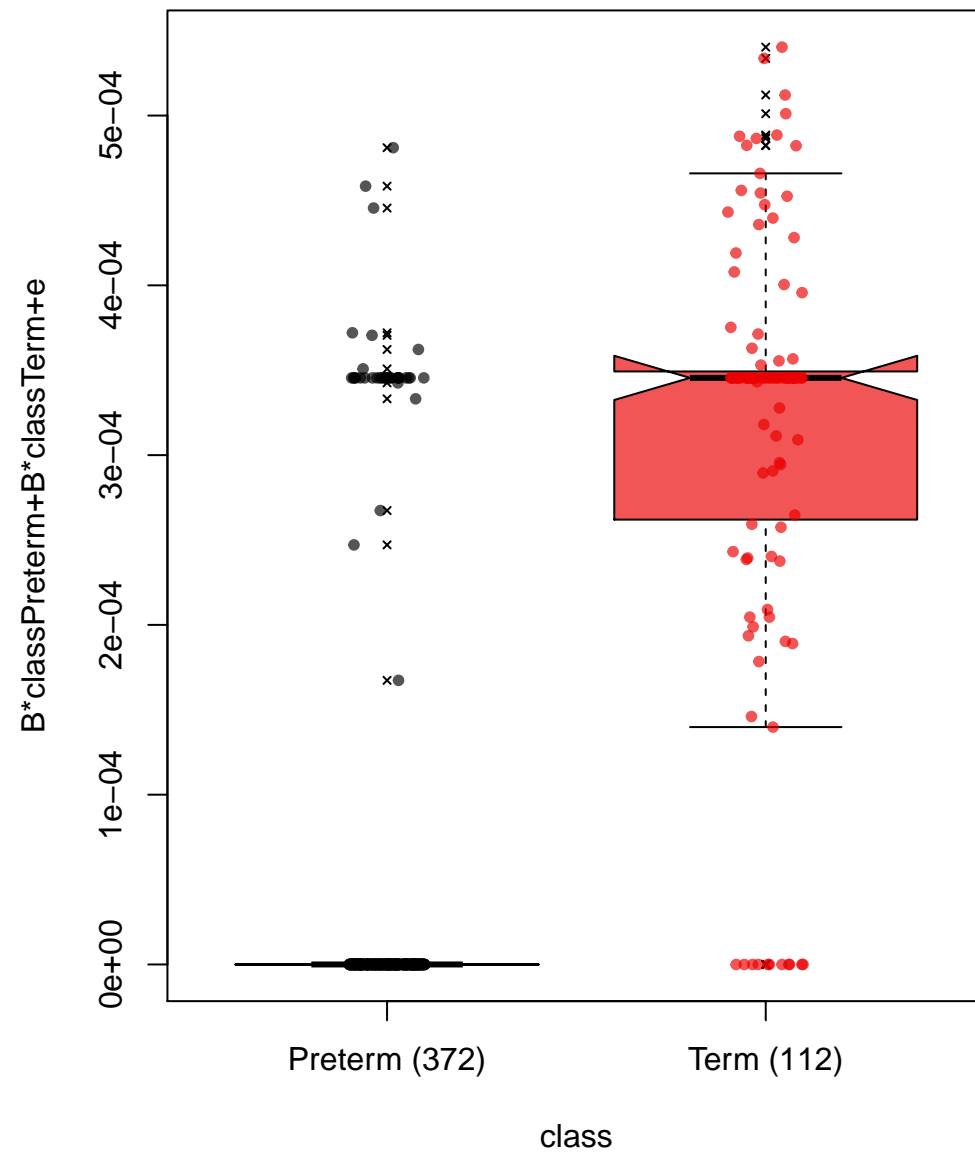
Partial Residual Plot



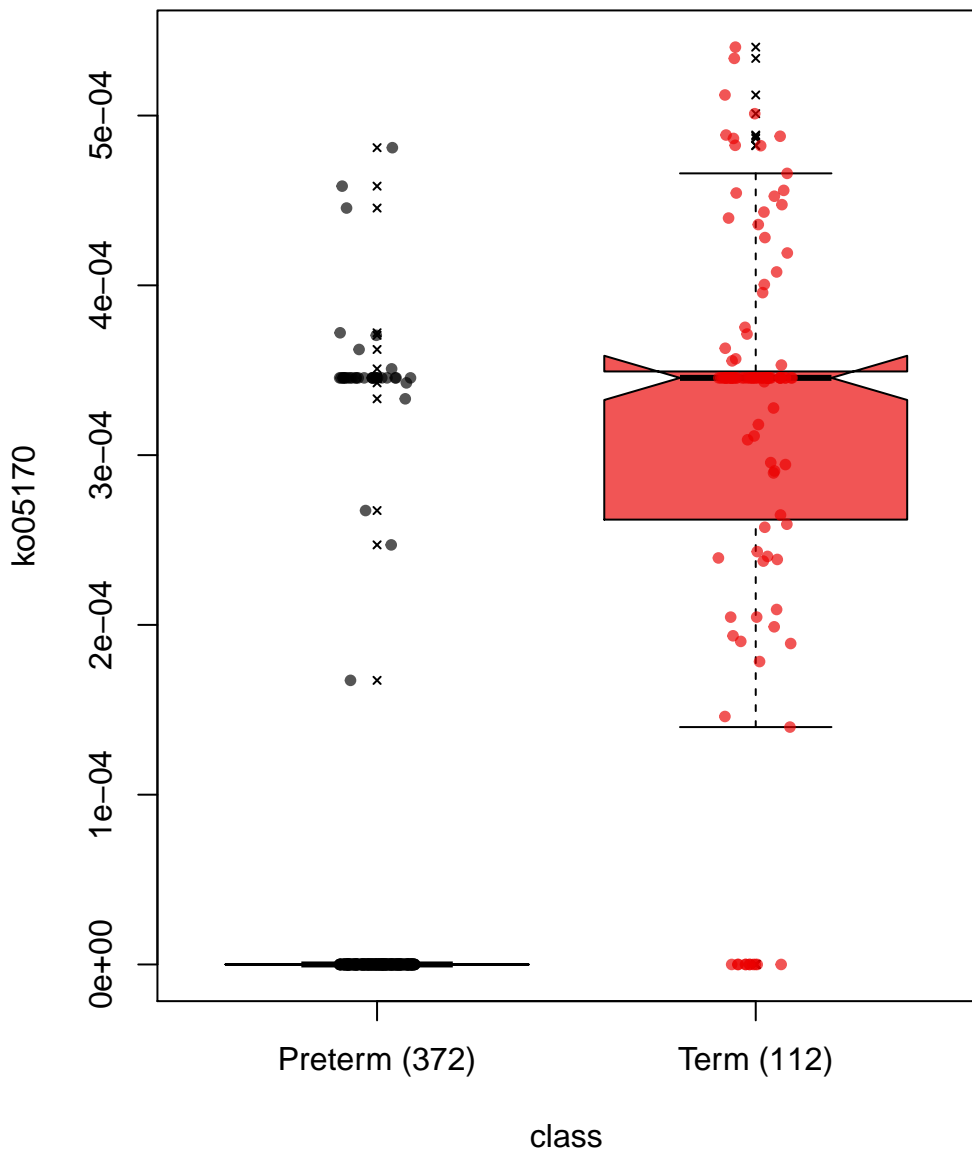
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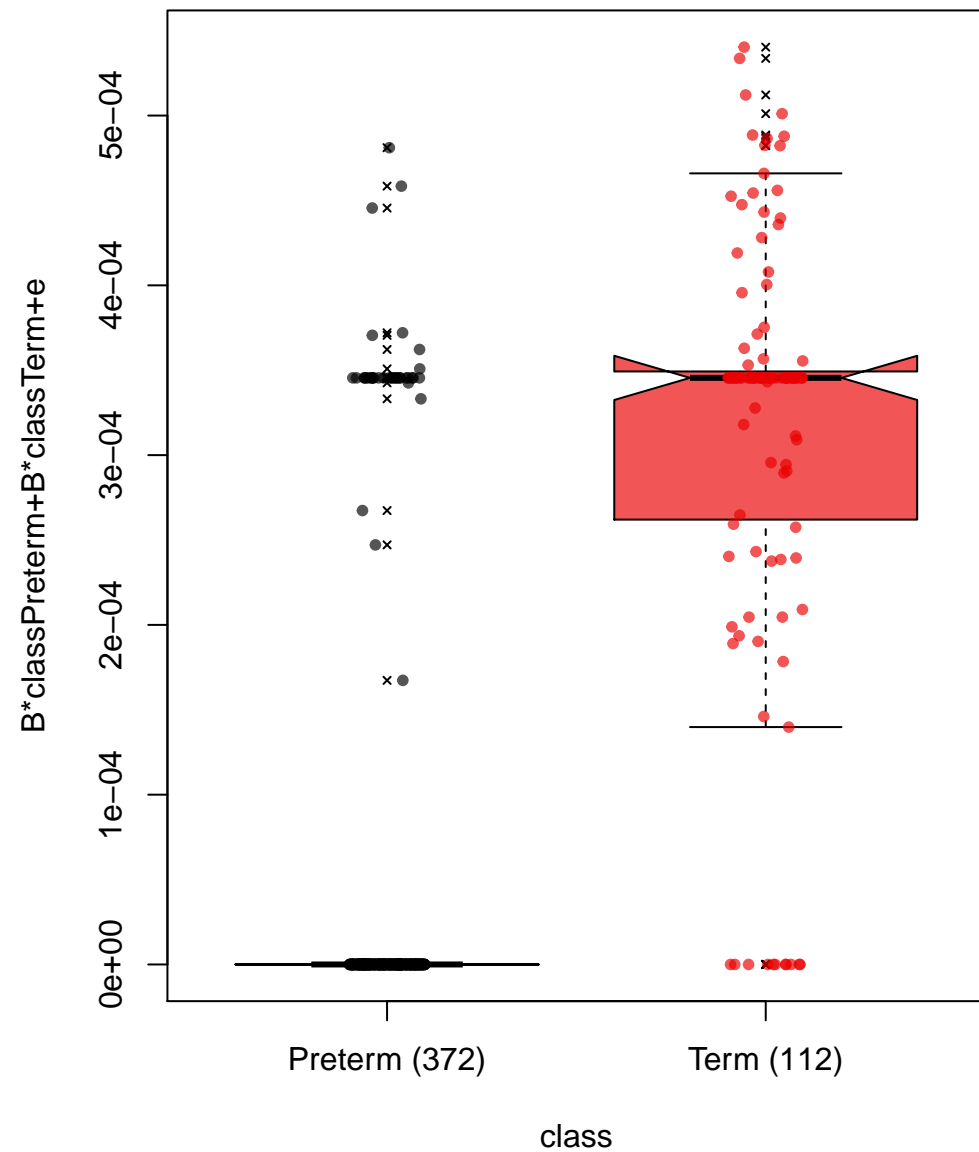
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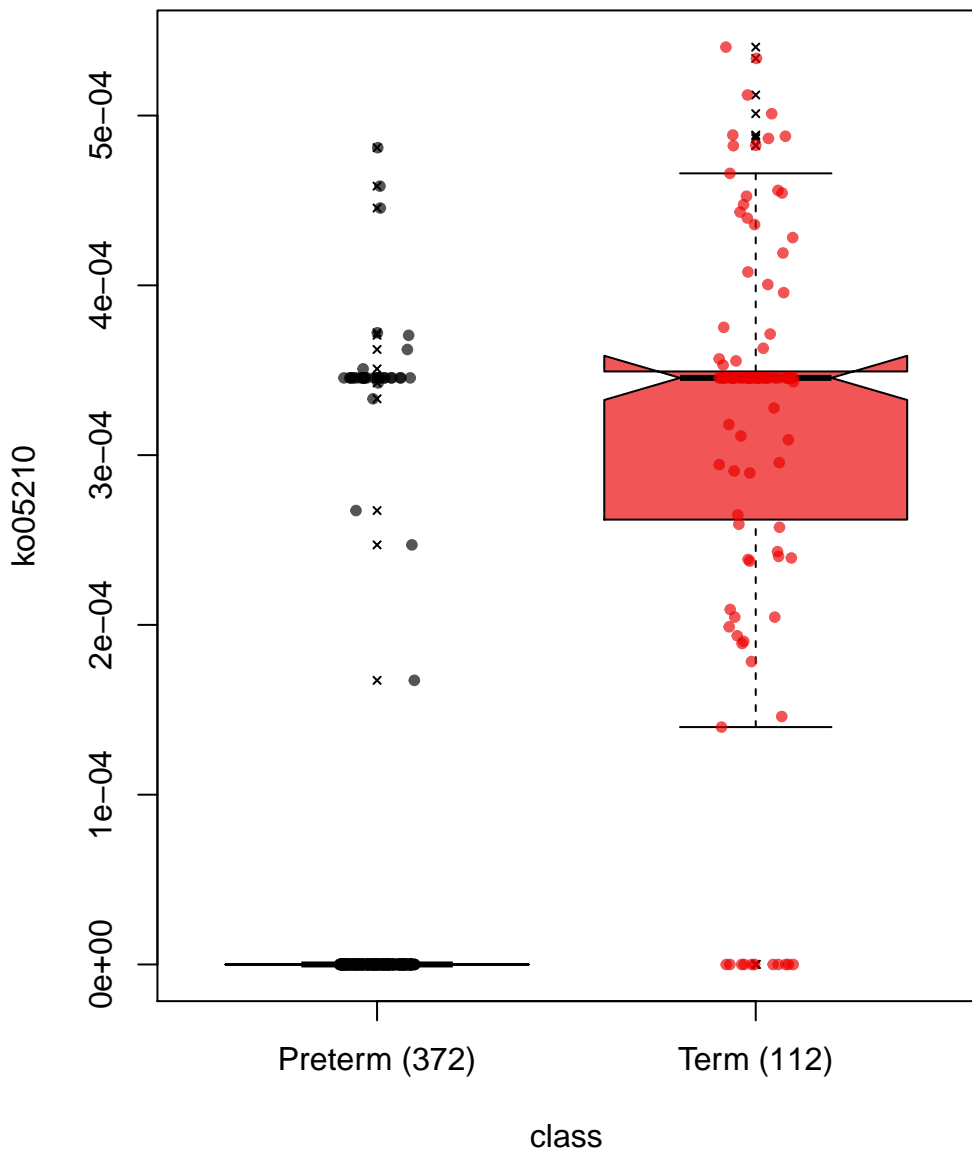
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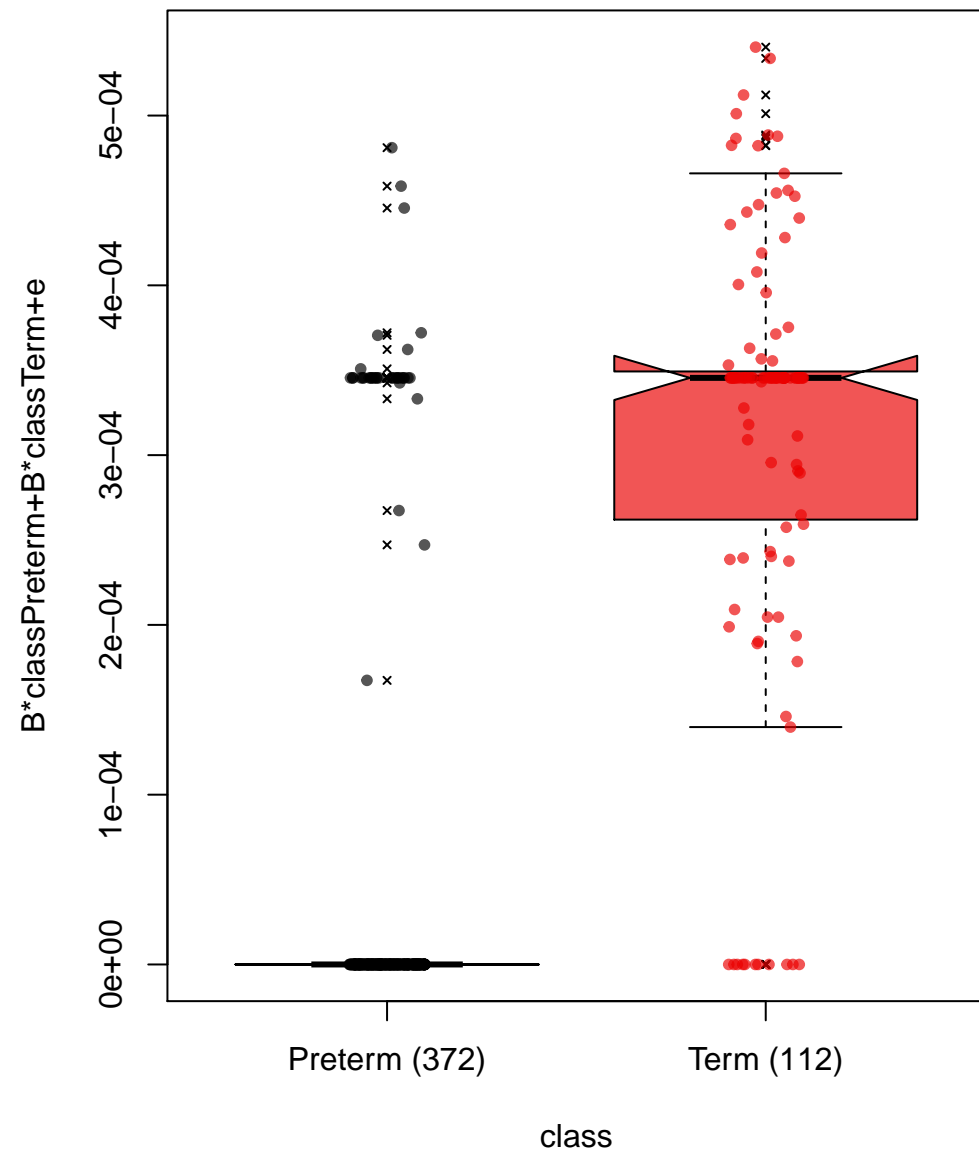
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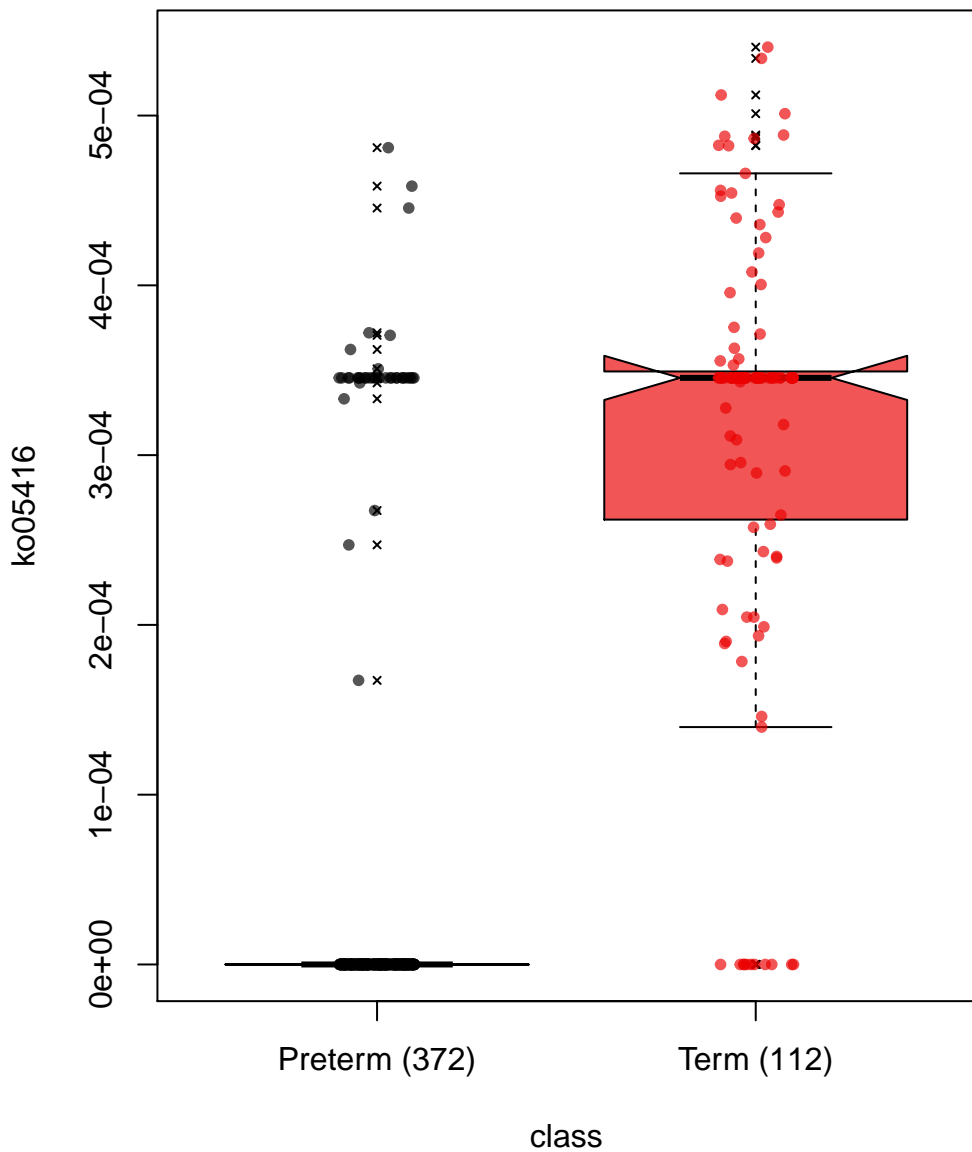
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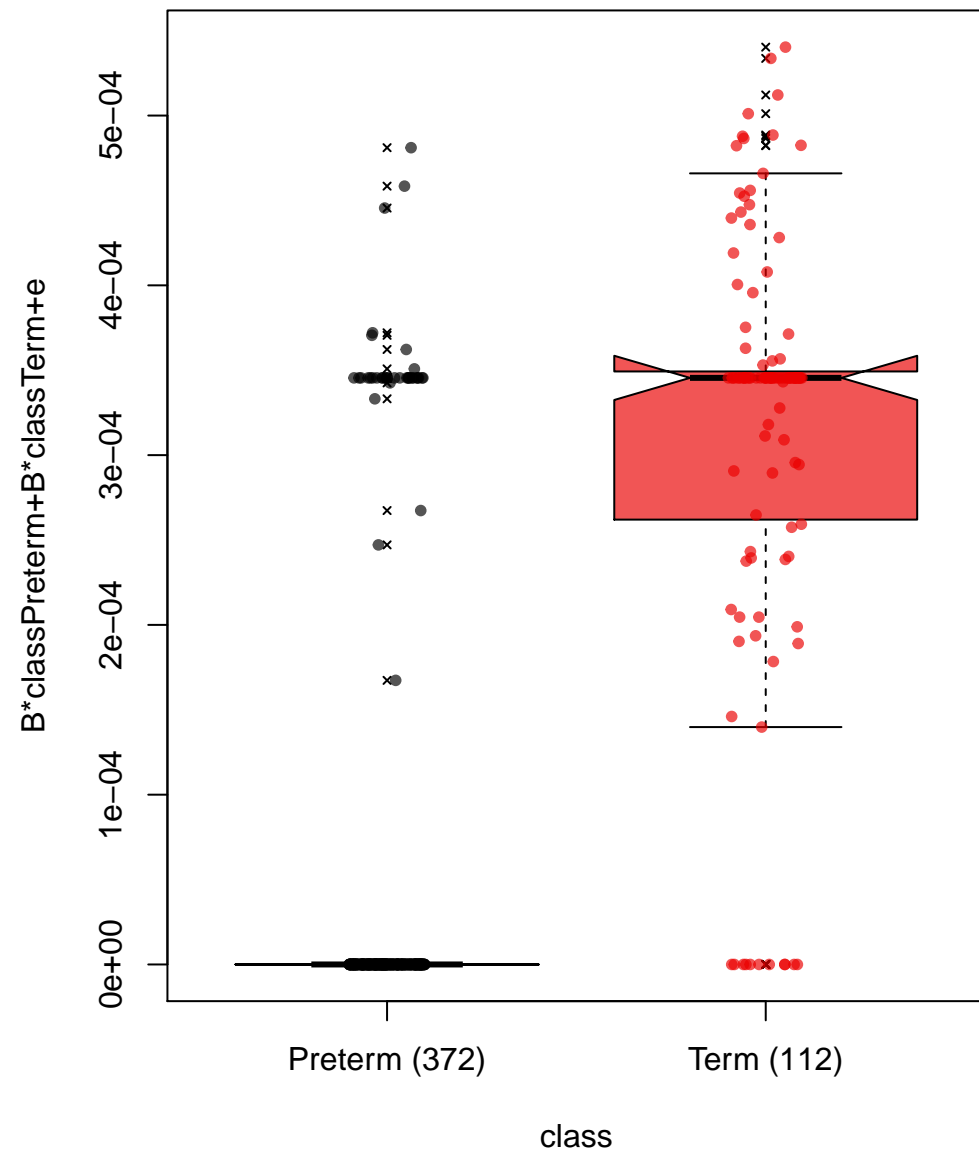
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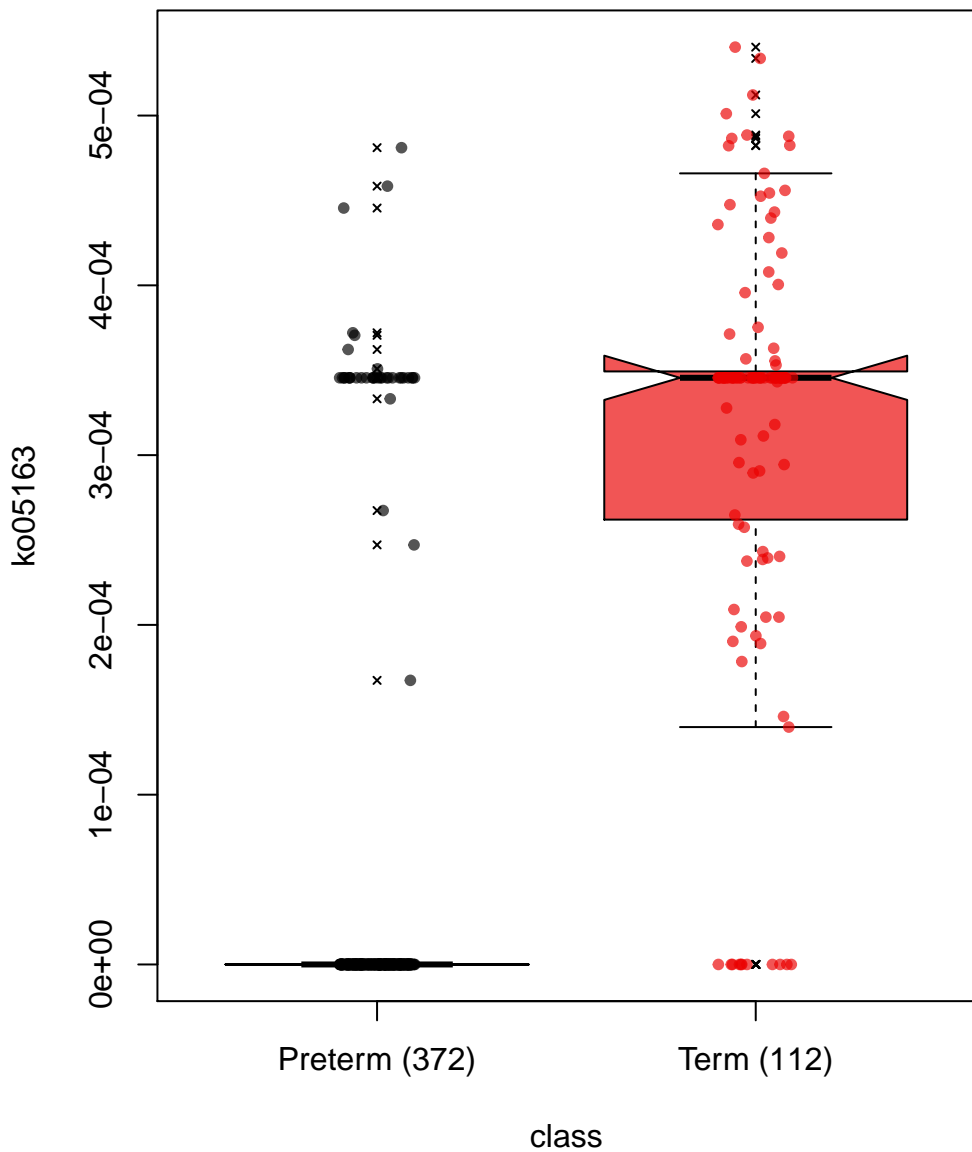
classTerm (0.000277 sd 1.2e-05, p=7.56e-80, q=2.02e-78)



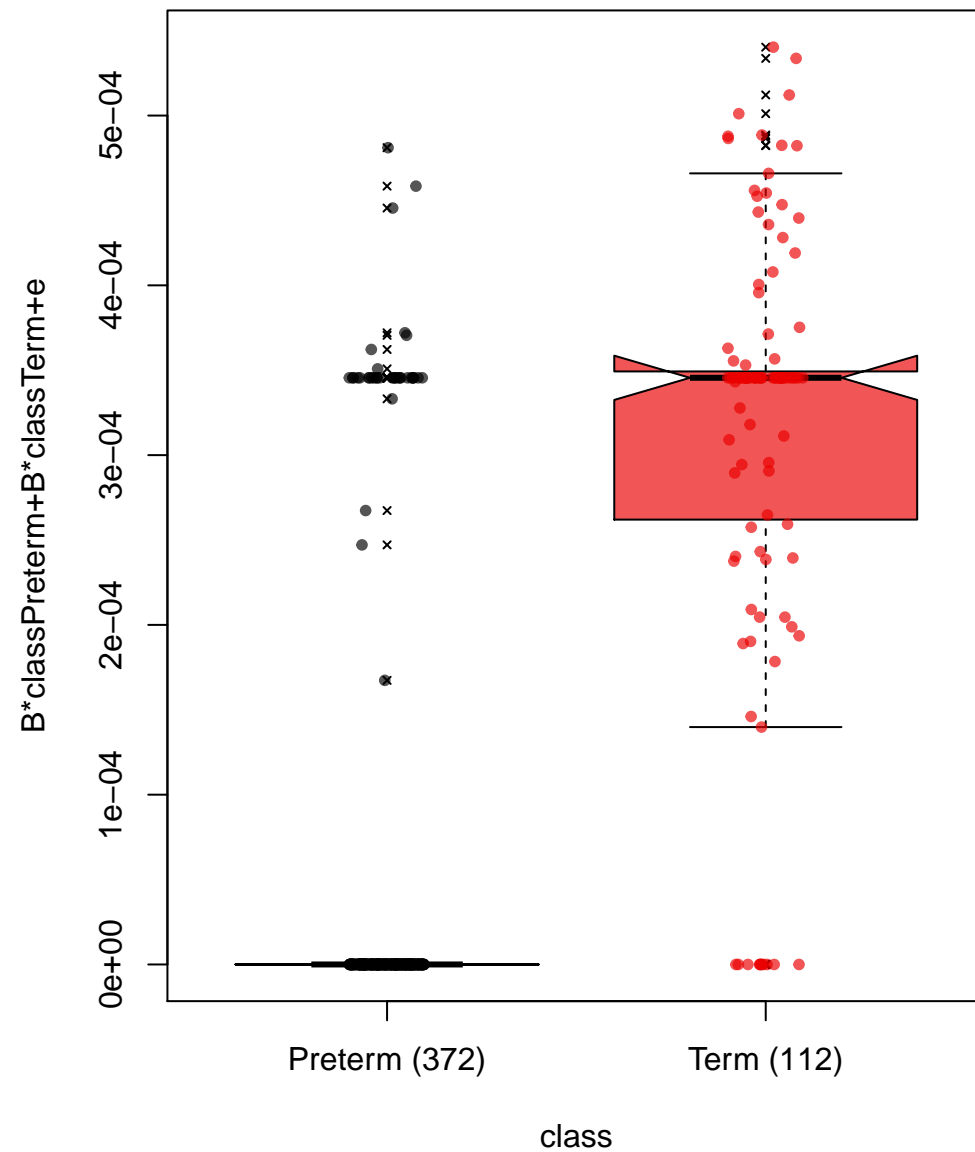
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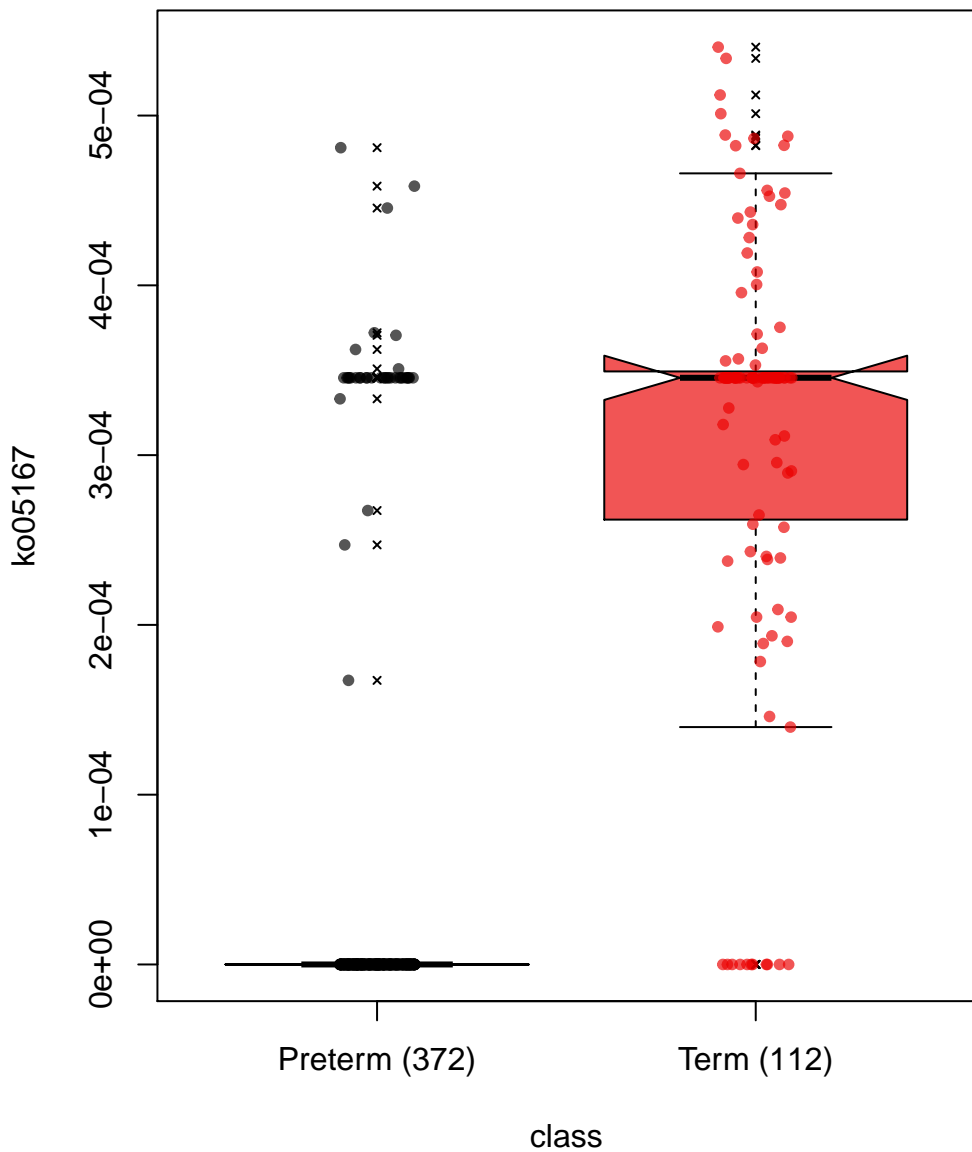
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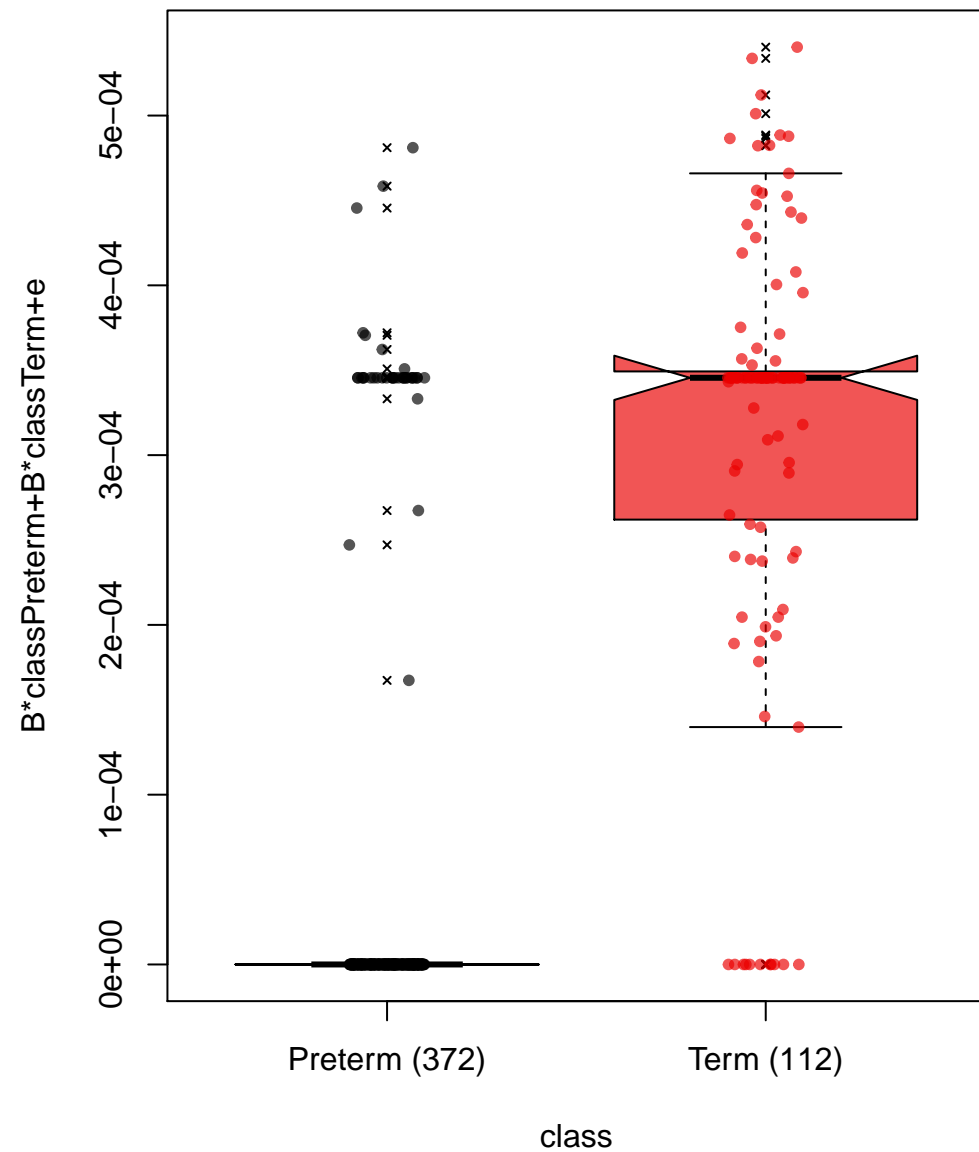
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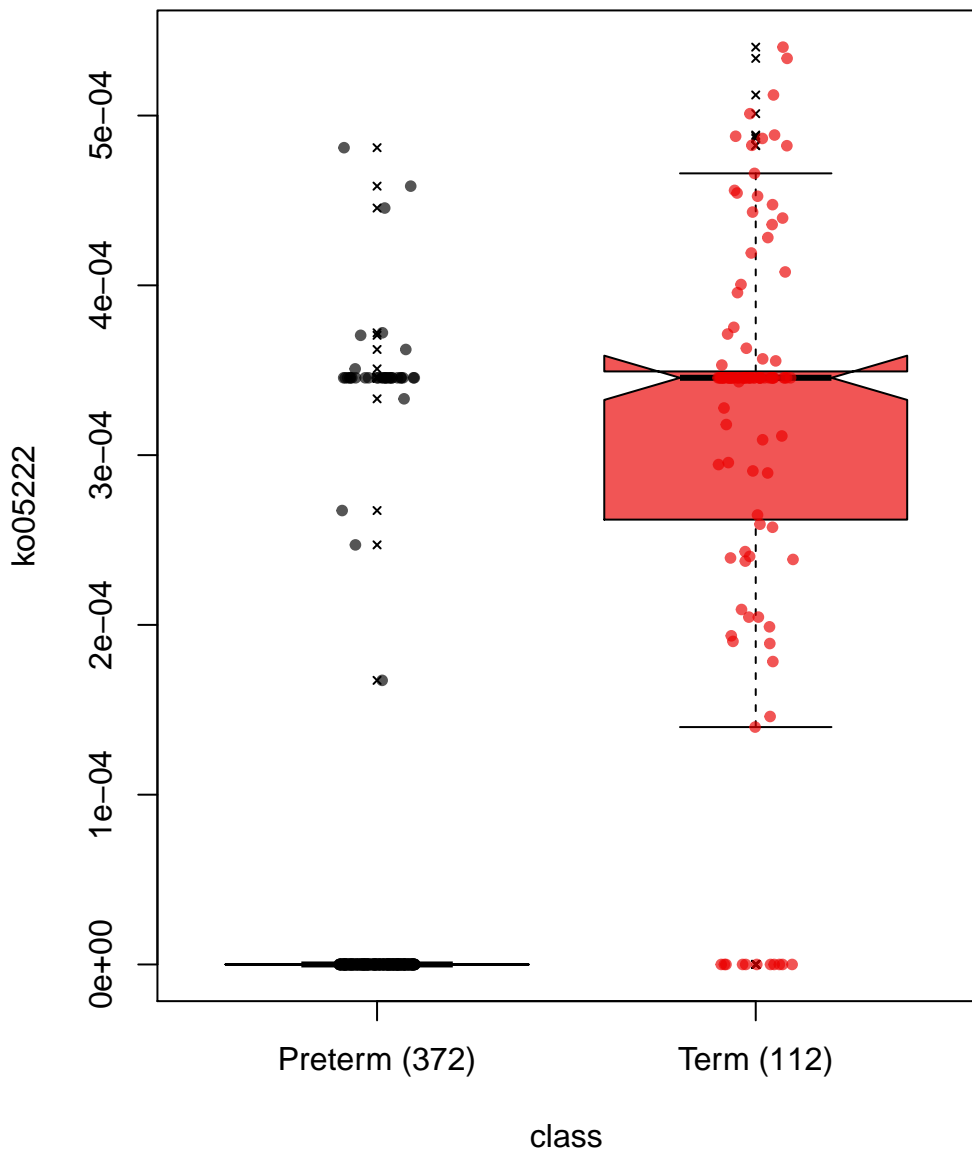
classTerm (0.000277 sd 1.2e-05, p=7.95e-80, q=2.02e-78)



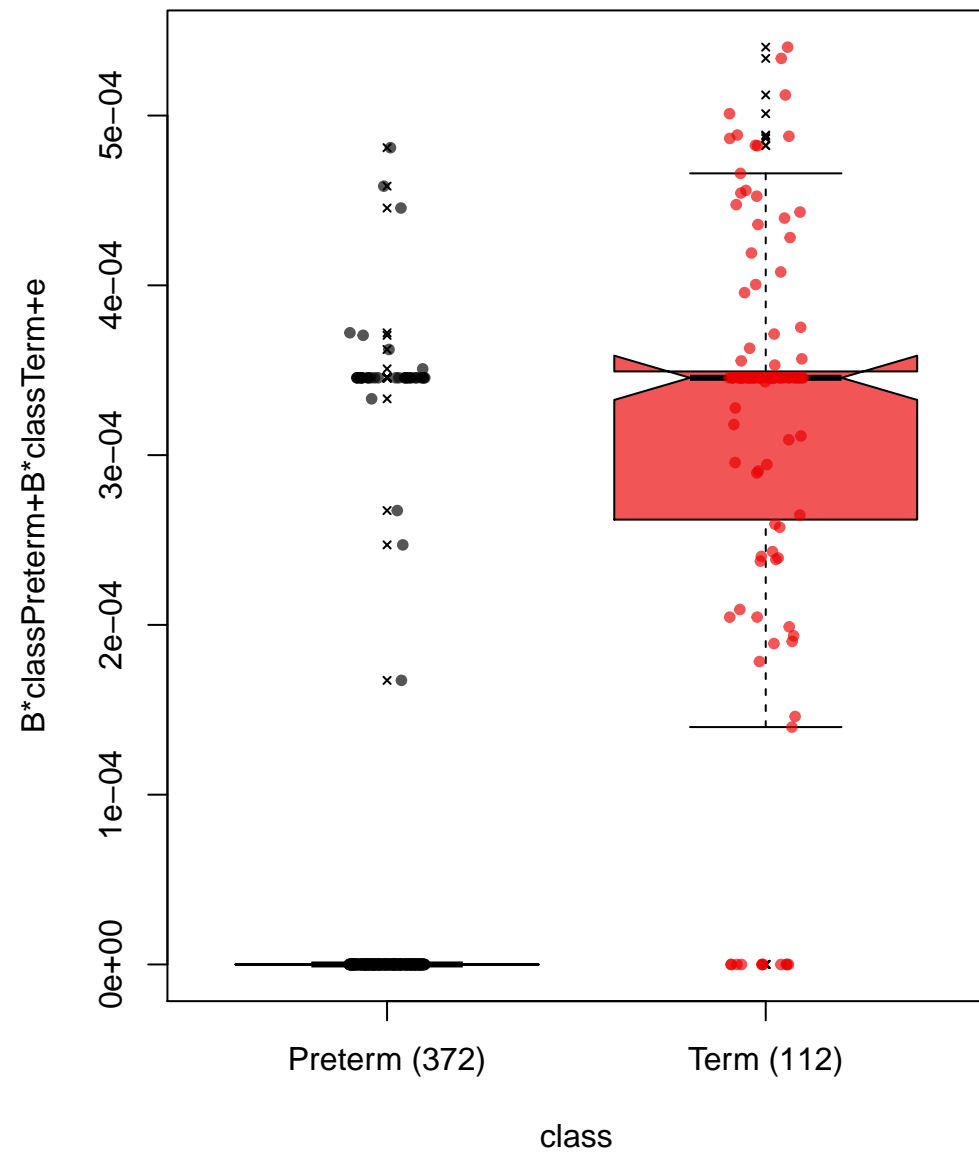
Partial Residual Plot



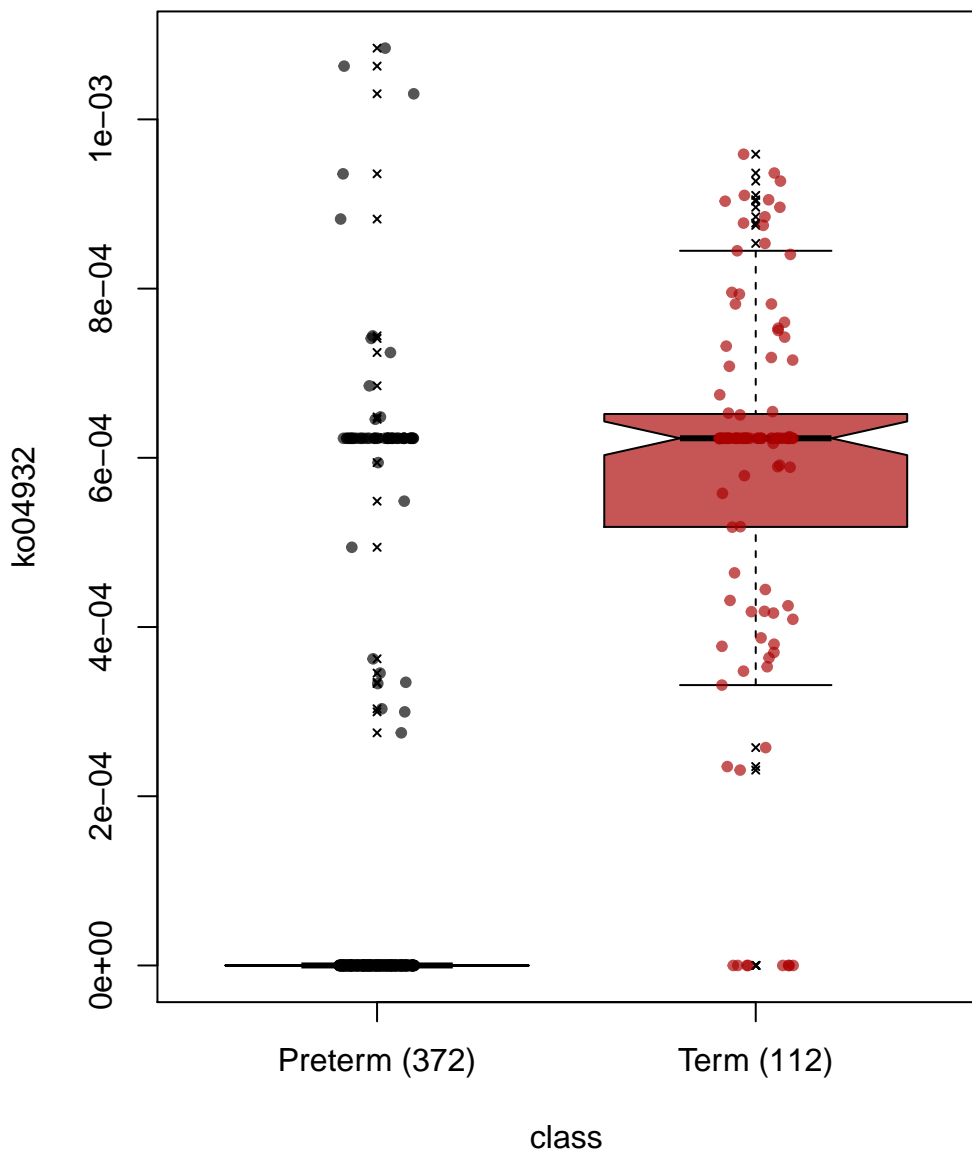
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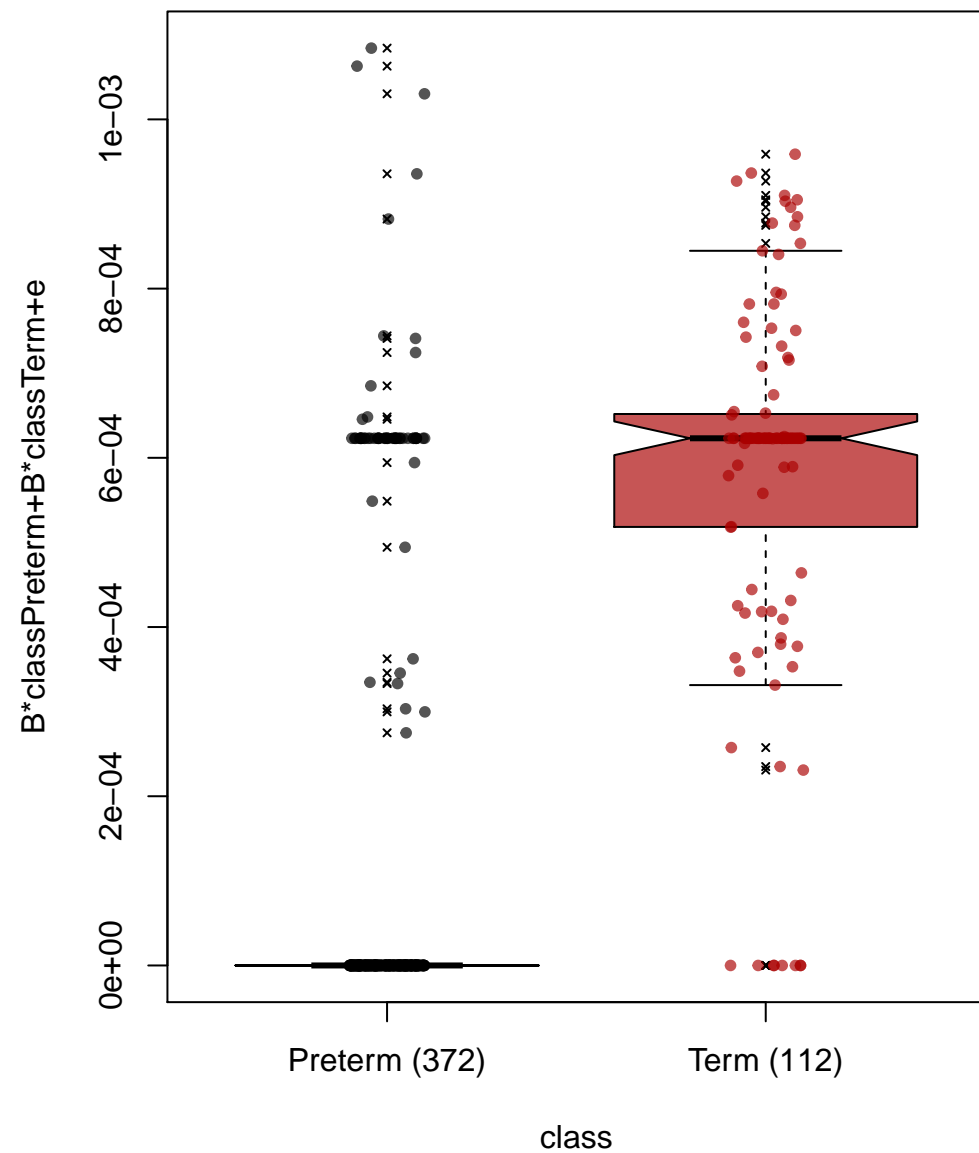
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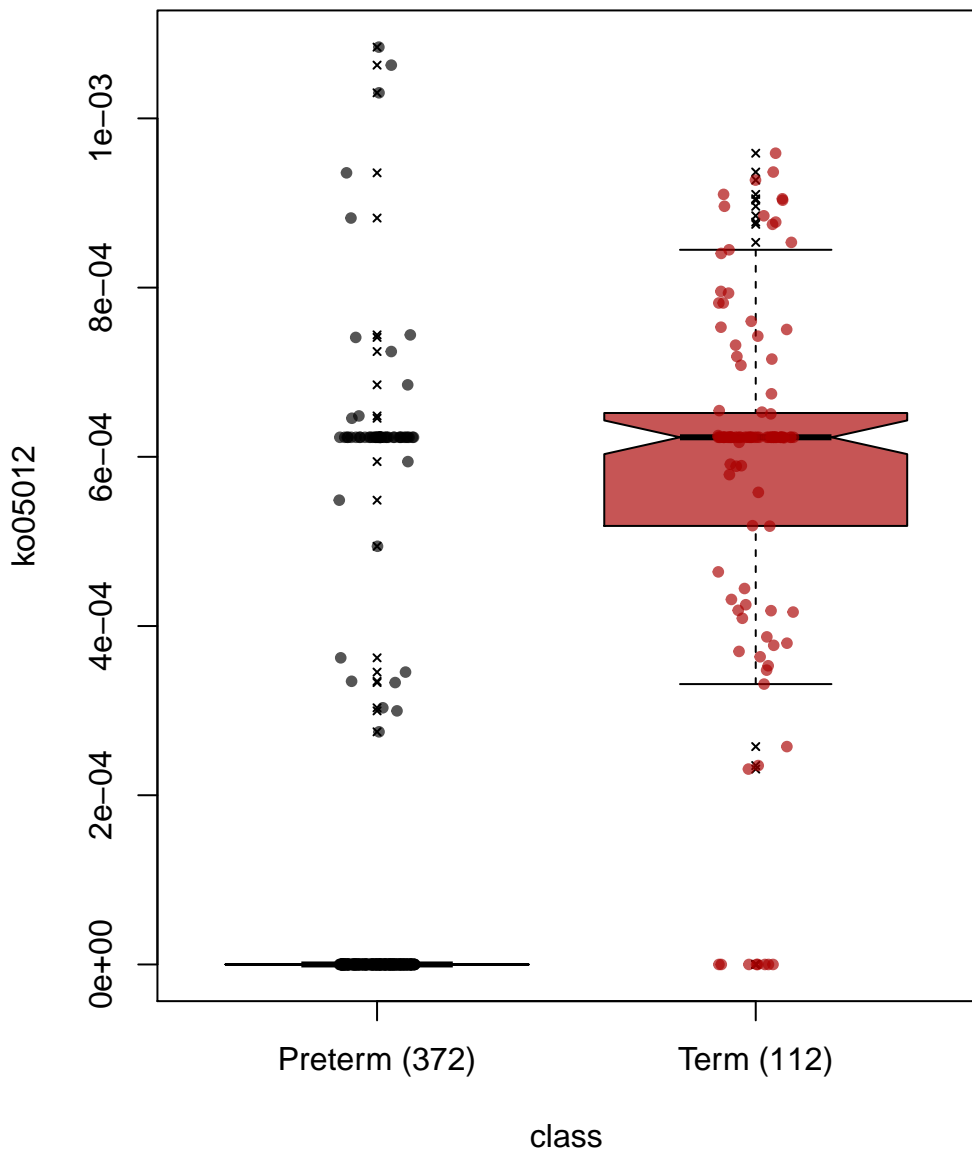
classTerm (0.000477 sd 2.53e-05, p=1.29e-59, q=2.76e-58)



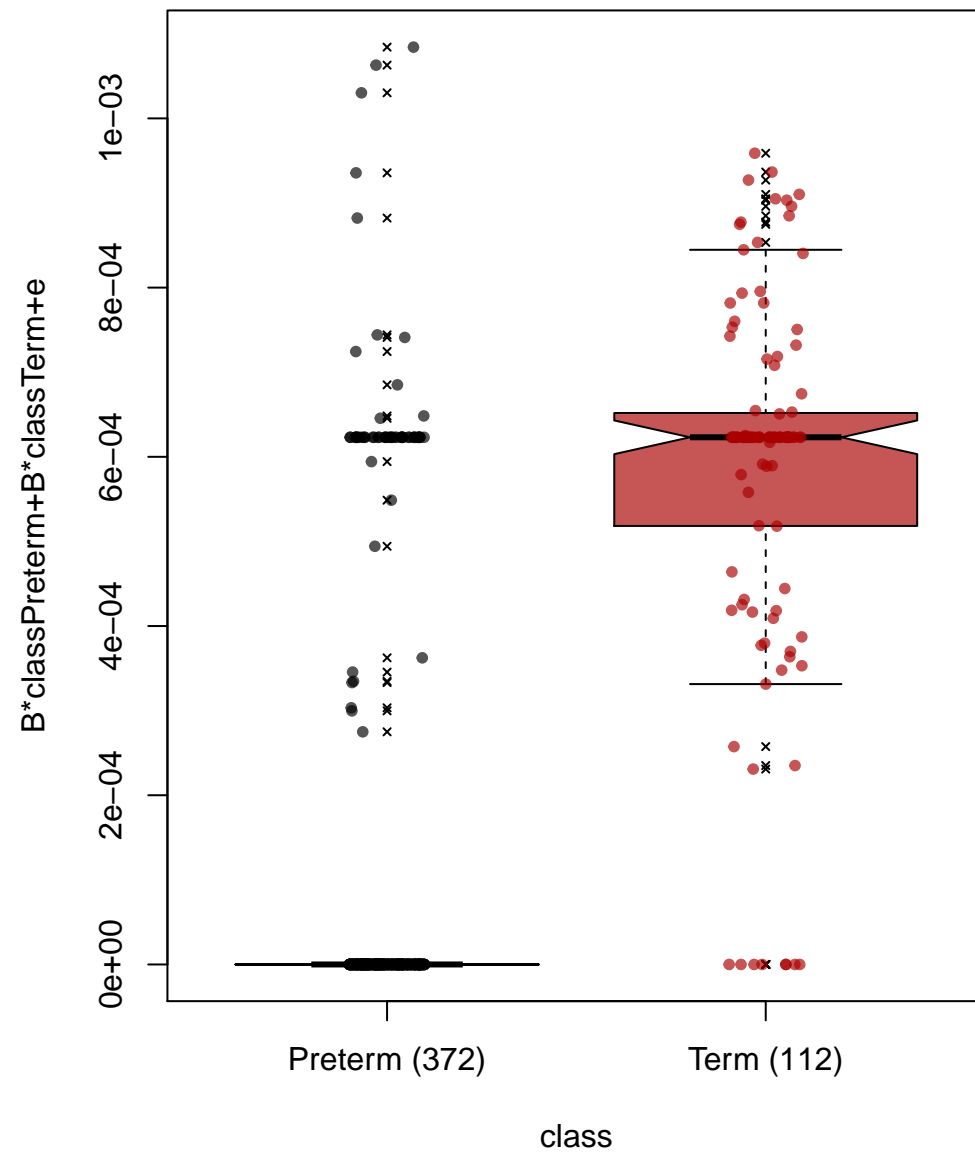
Partial Residual Plot



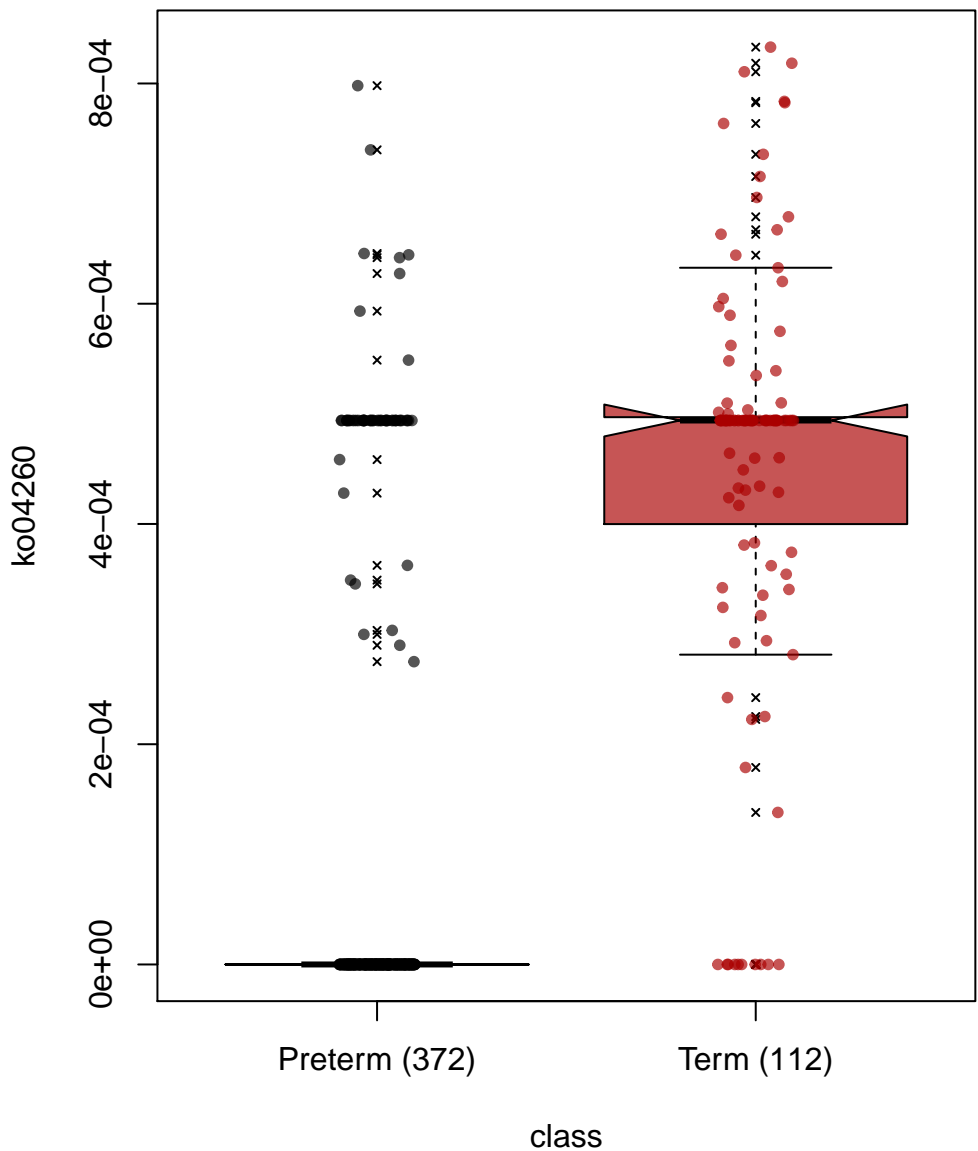
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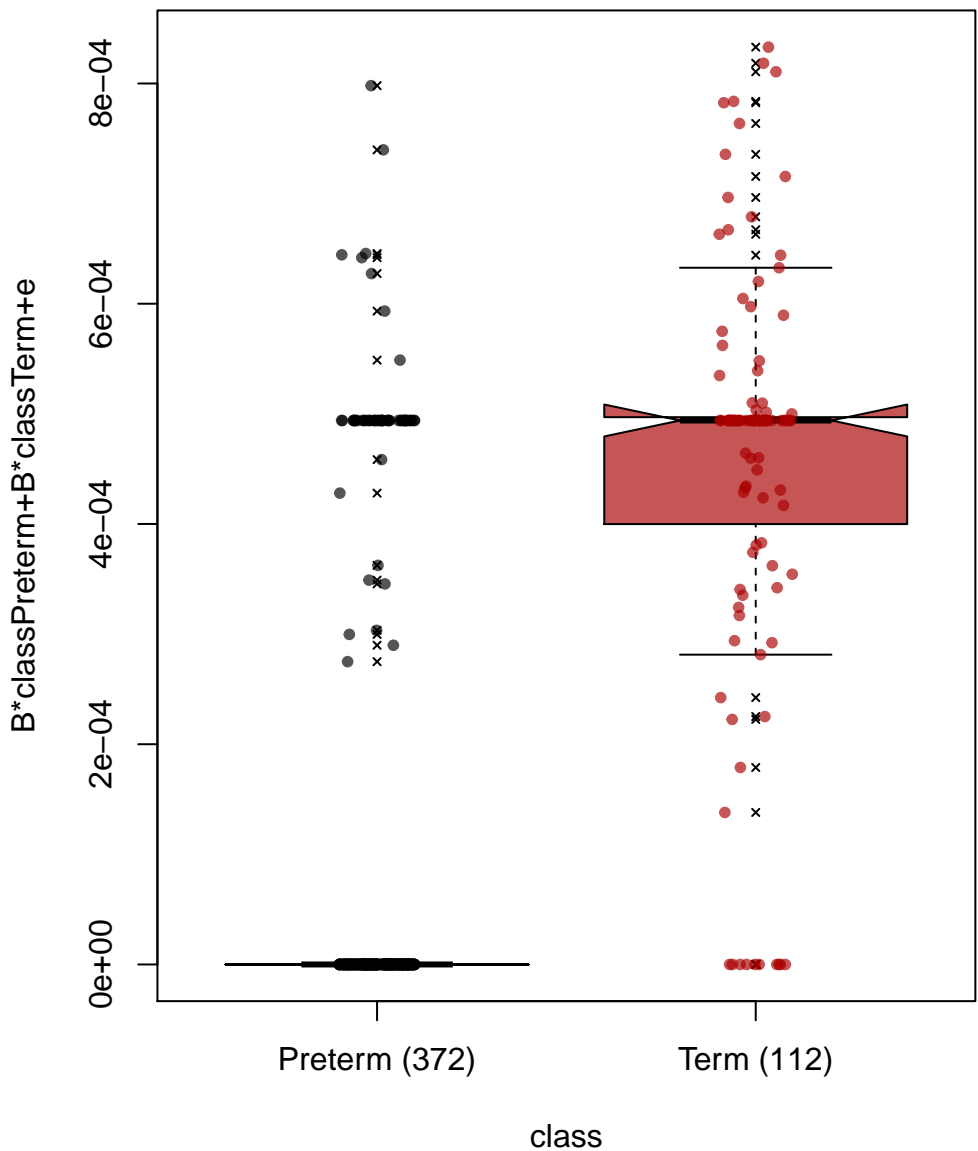
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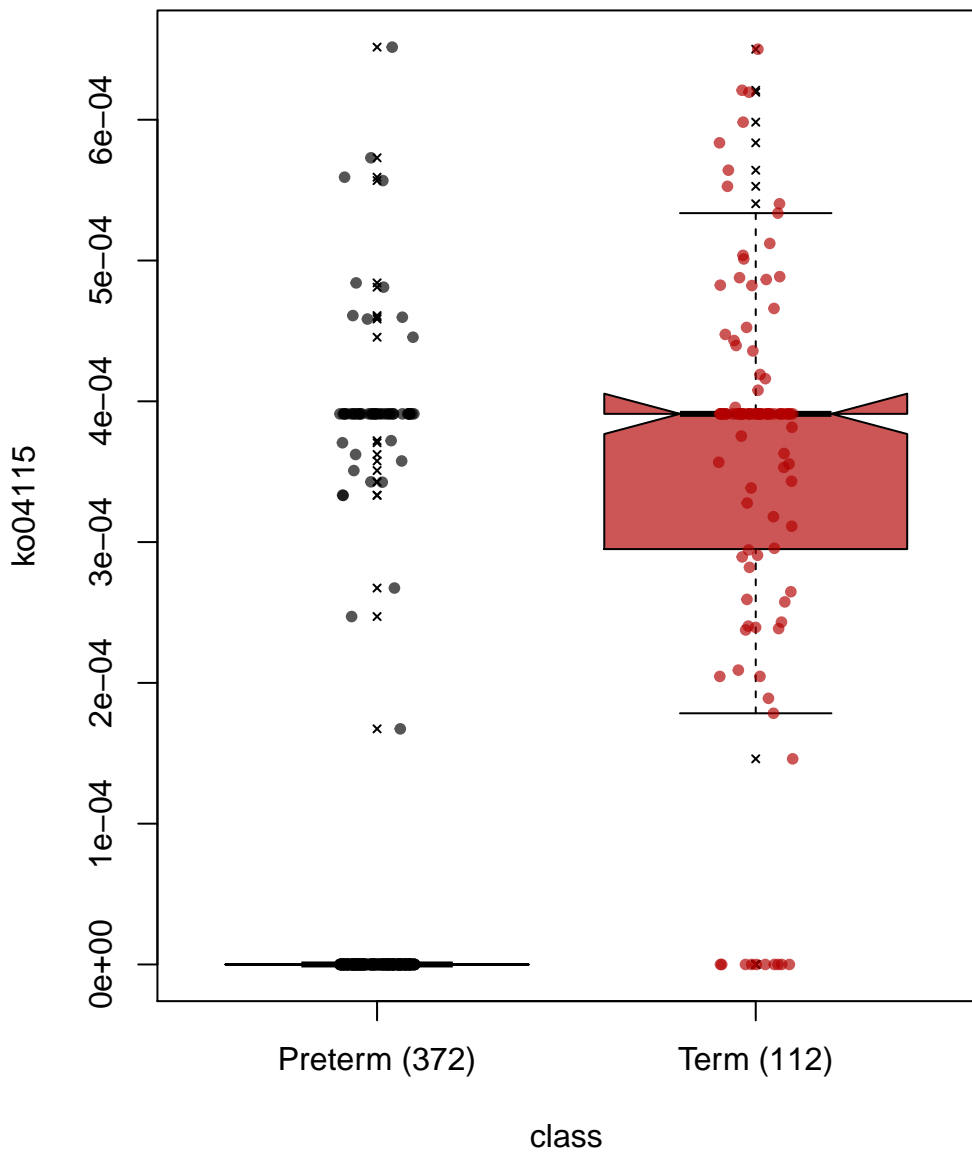
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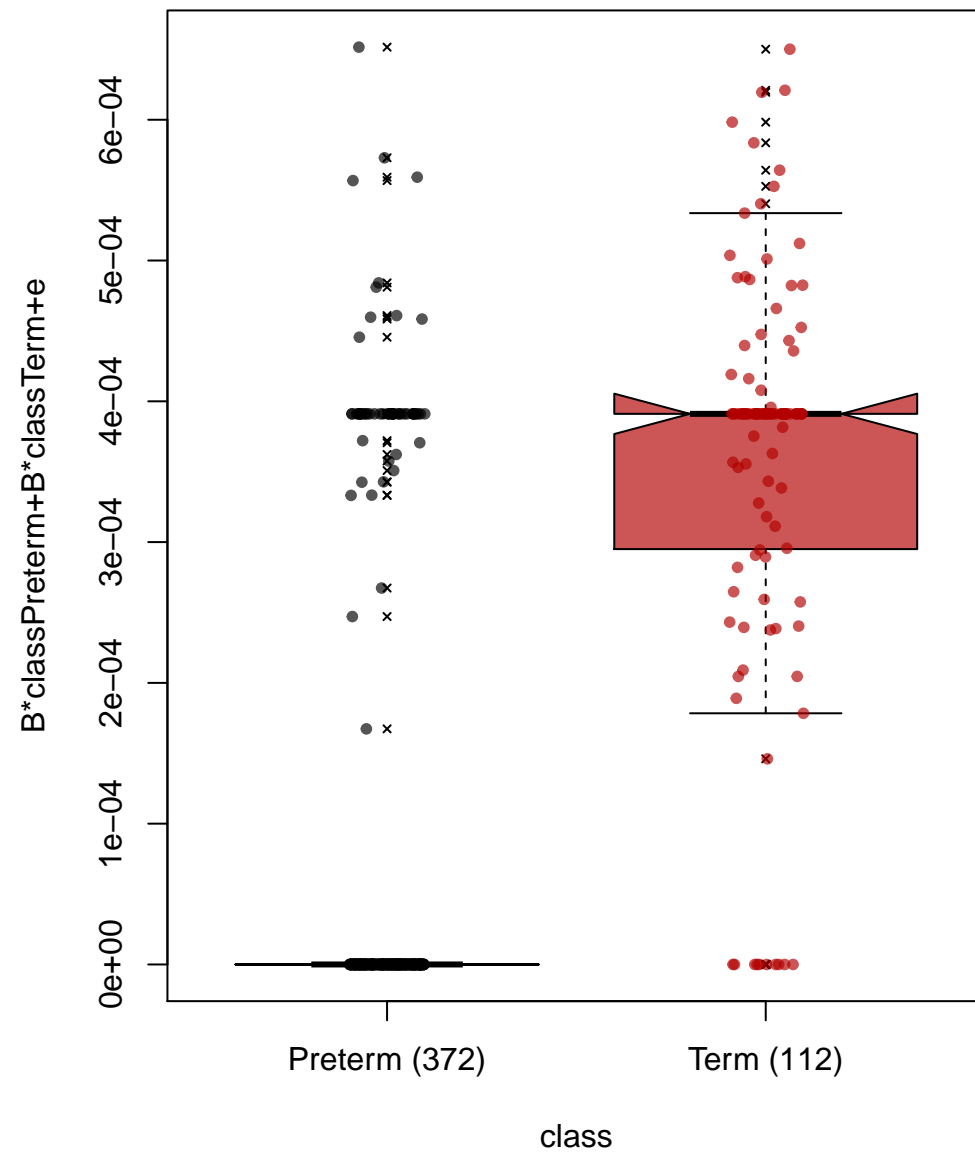
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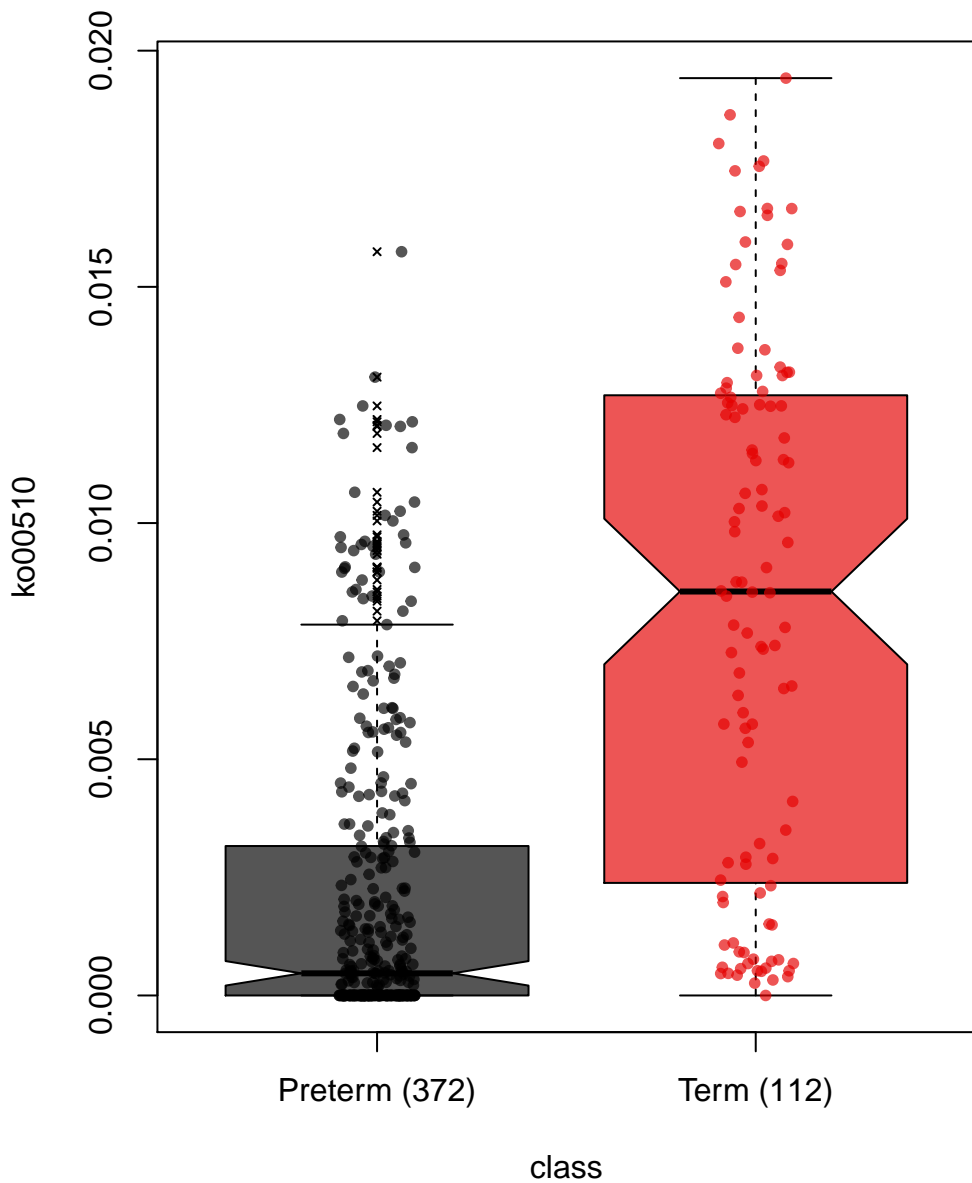
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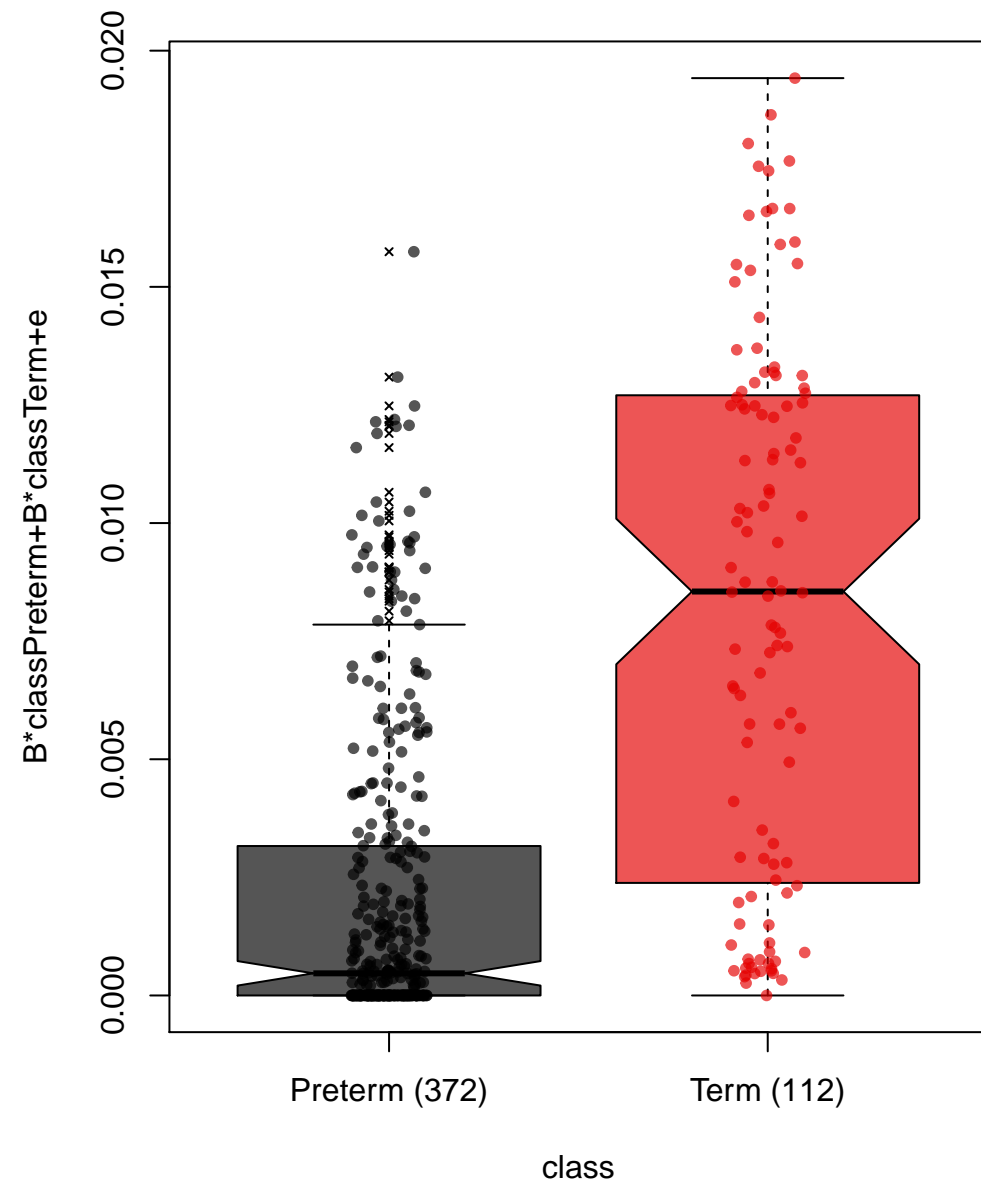
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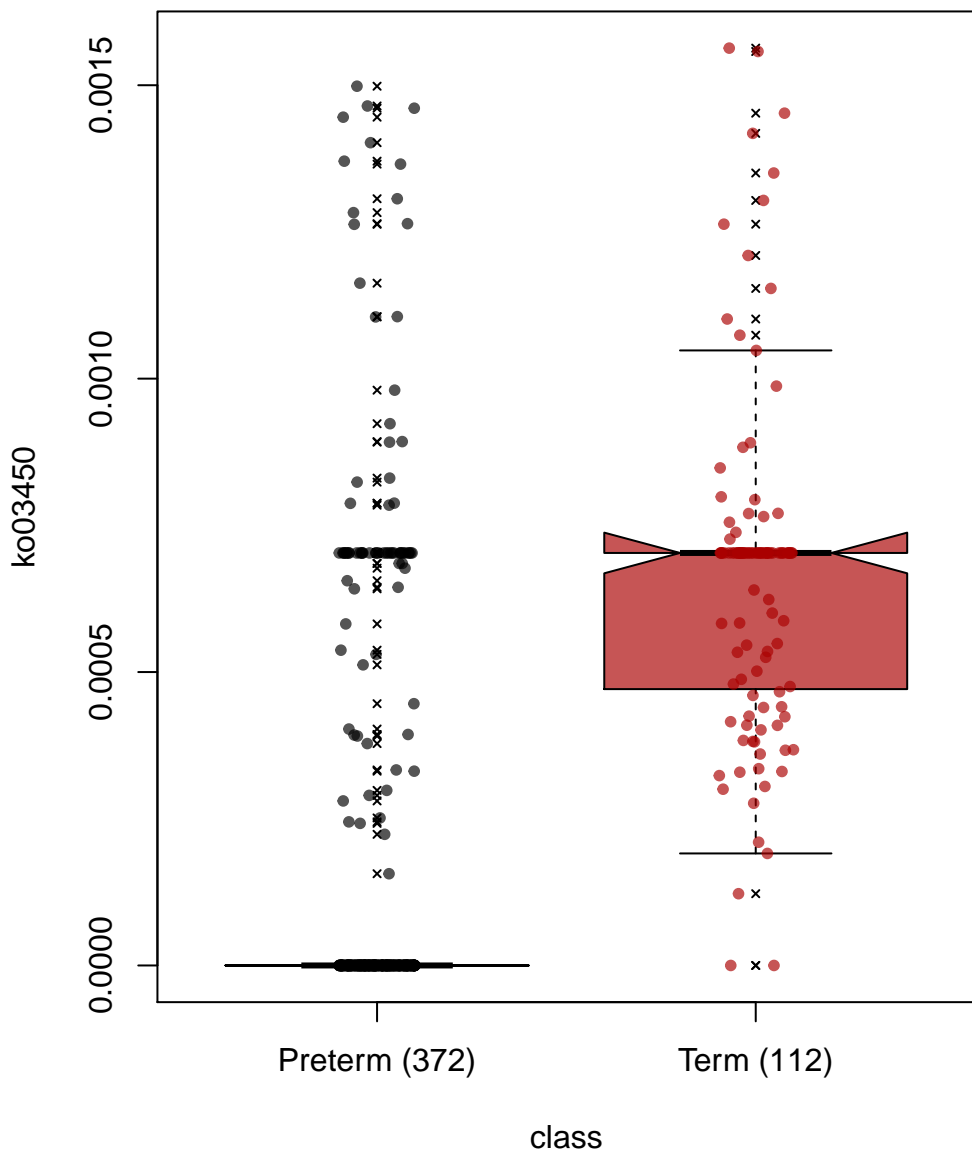
classTerm (0.0061 sd 0.000423, p=2.36e-39, q=4.12e-38)



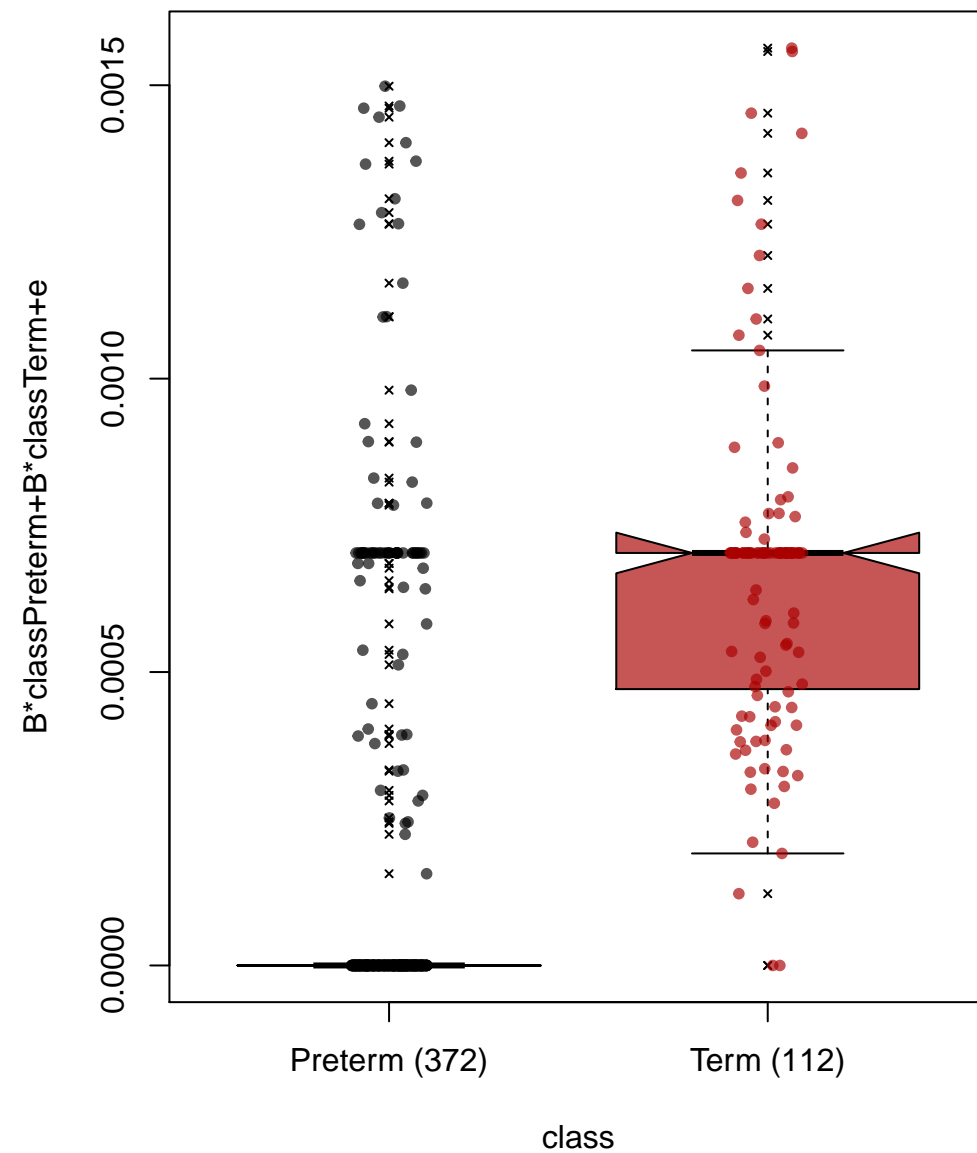
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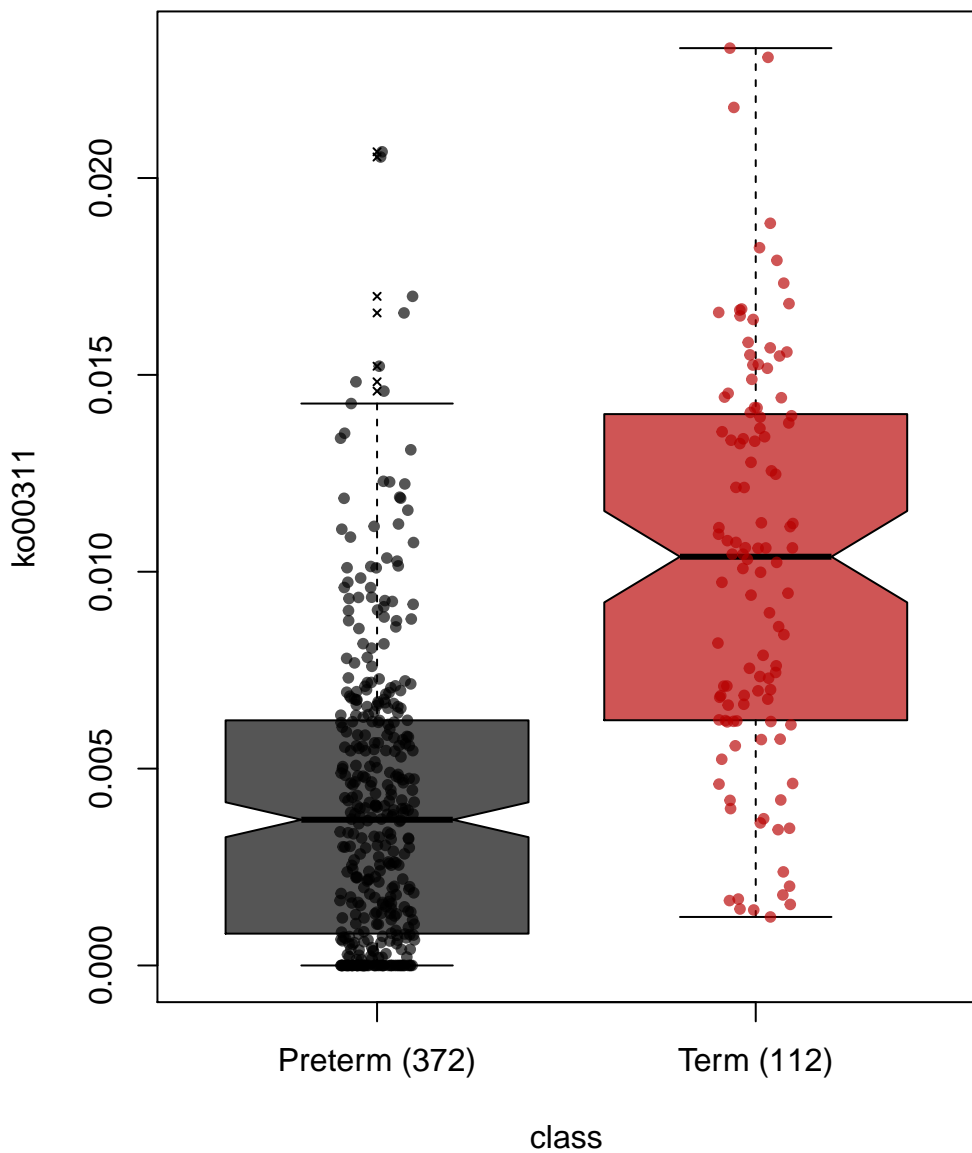
classTerm (0.000503 sd 3.55e-05, p=2.21e-38, q=3.63e-37)



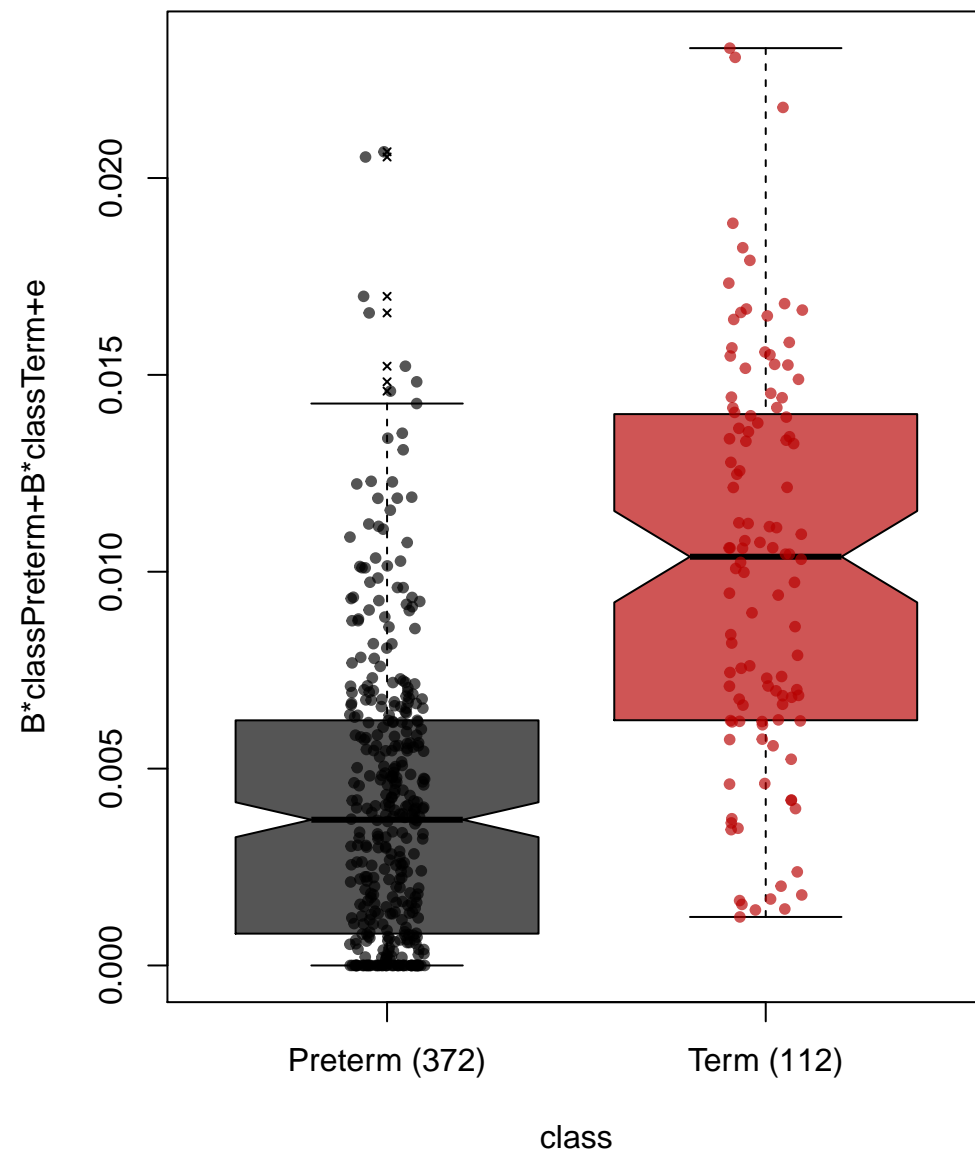
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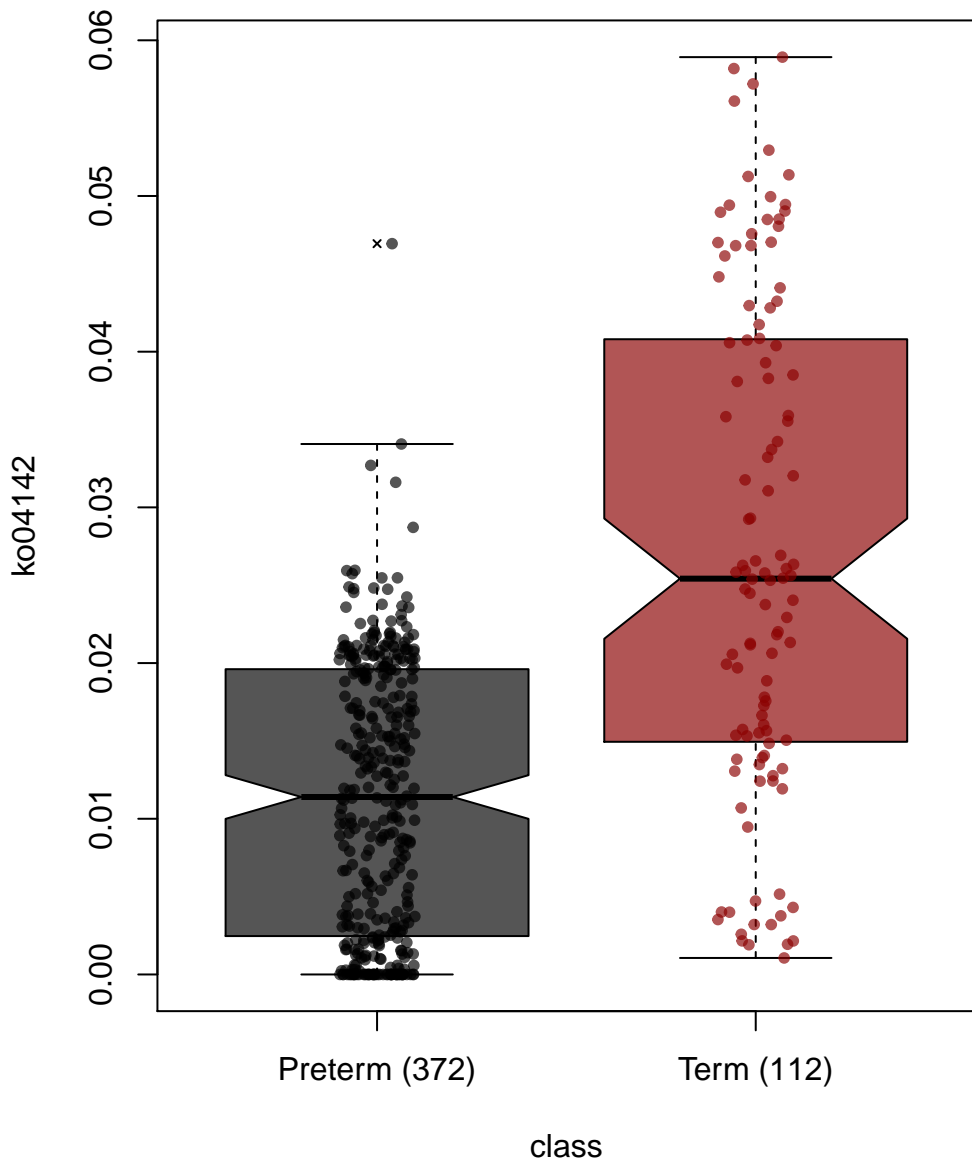
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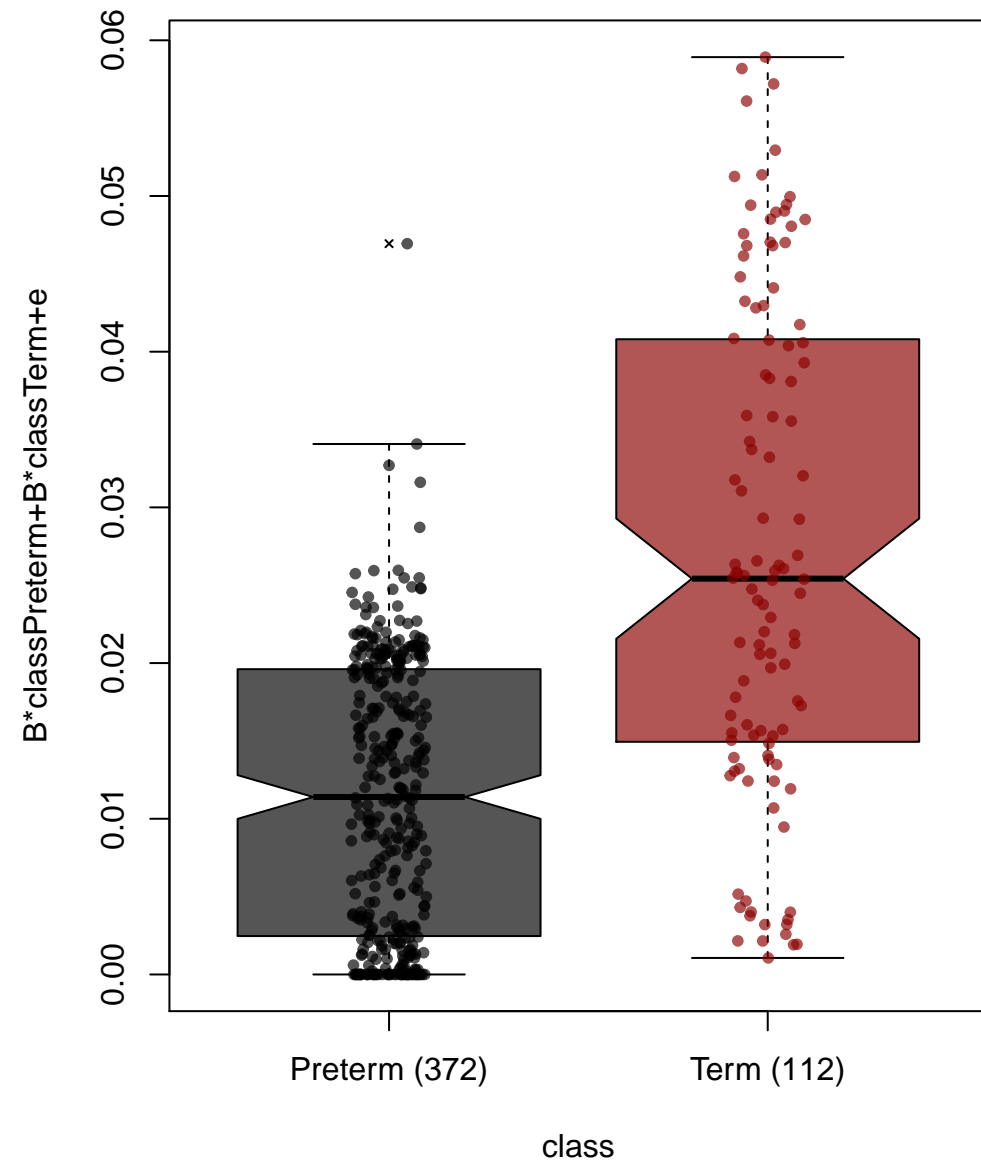
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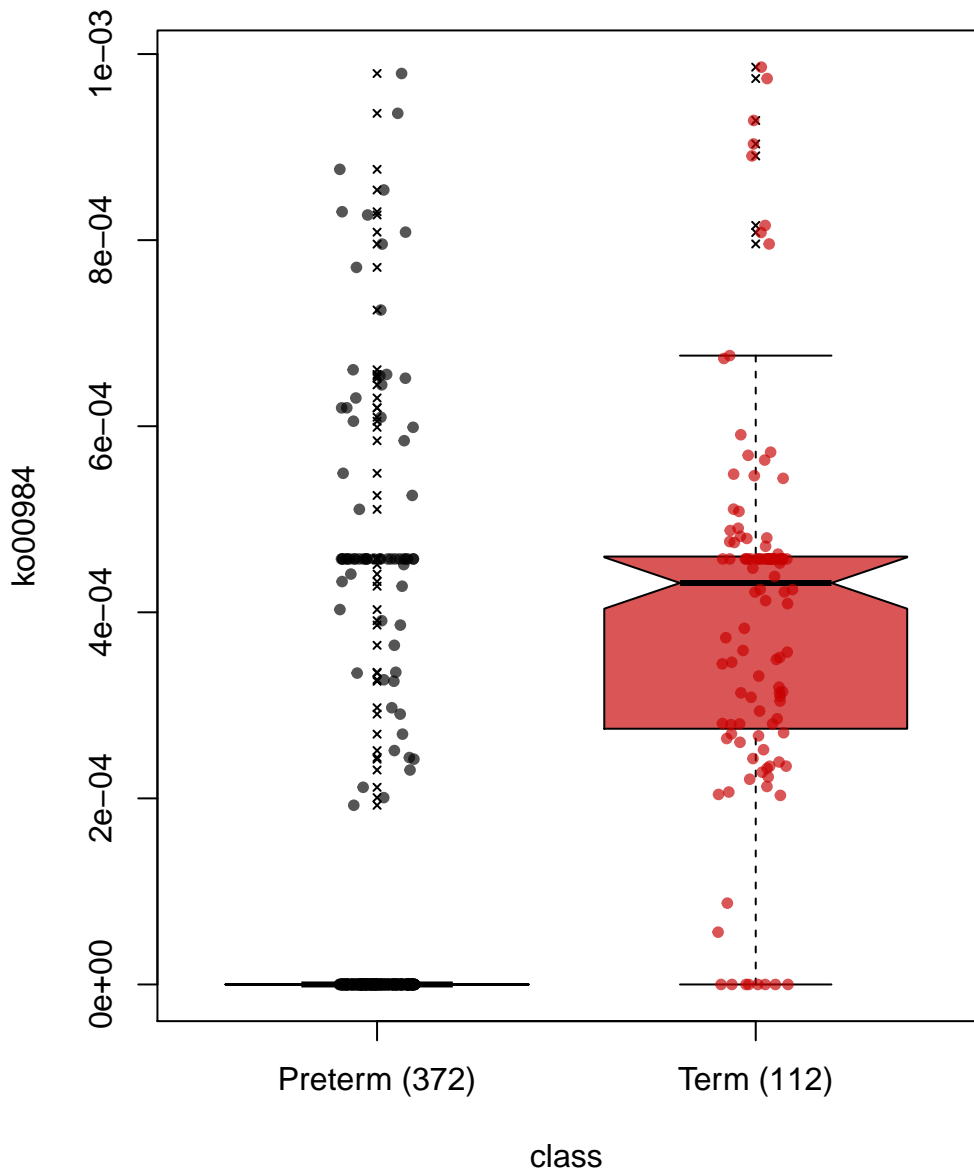
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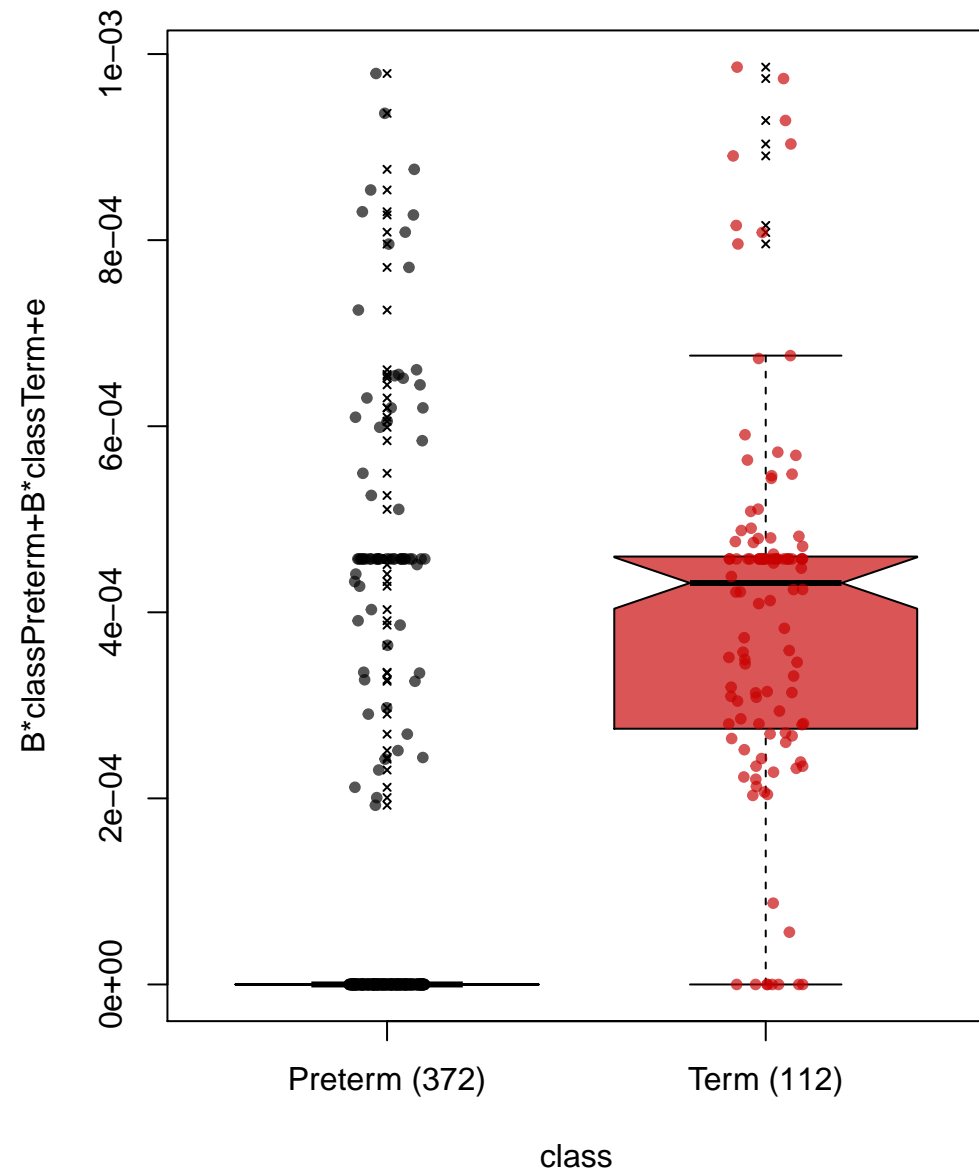
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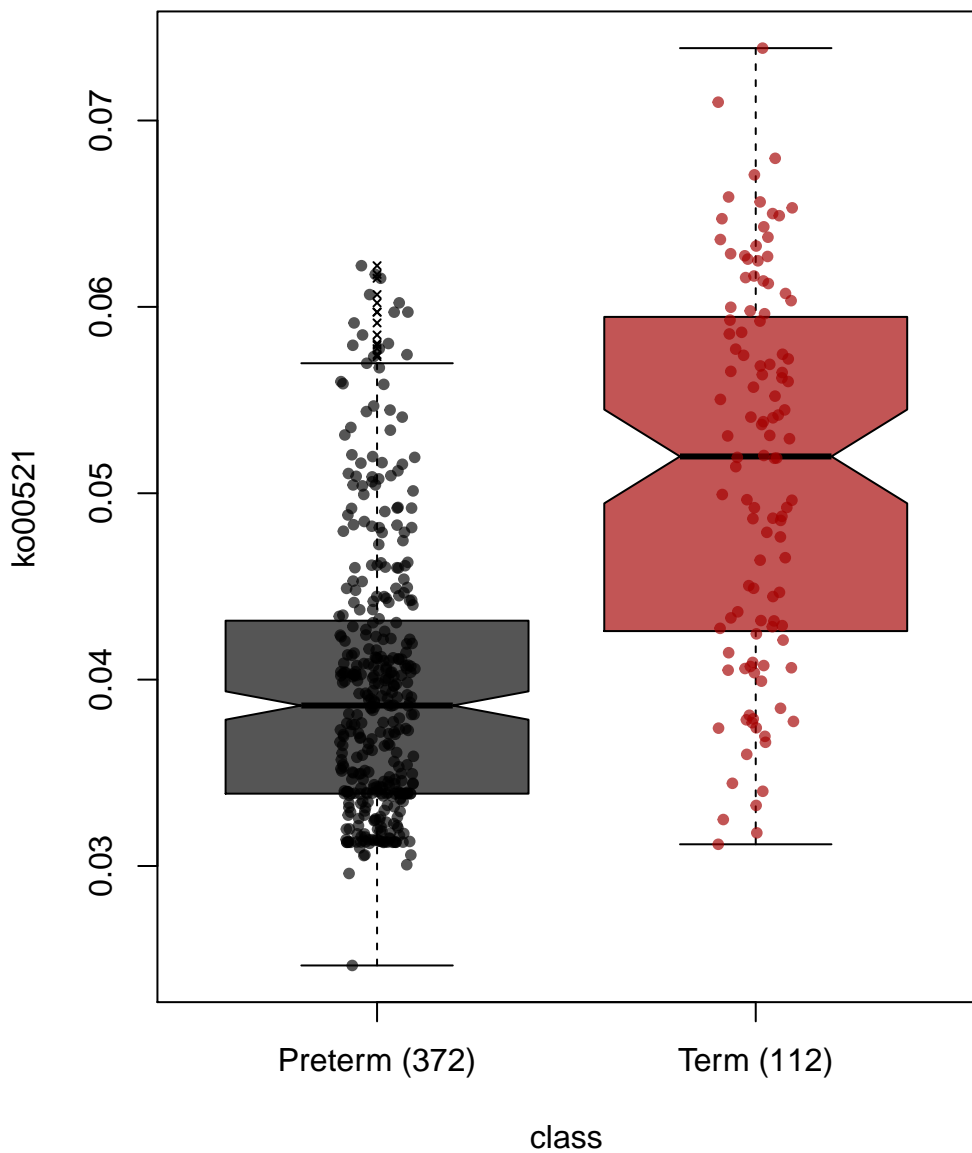
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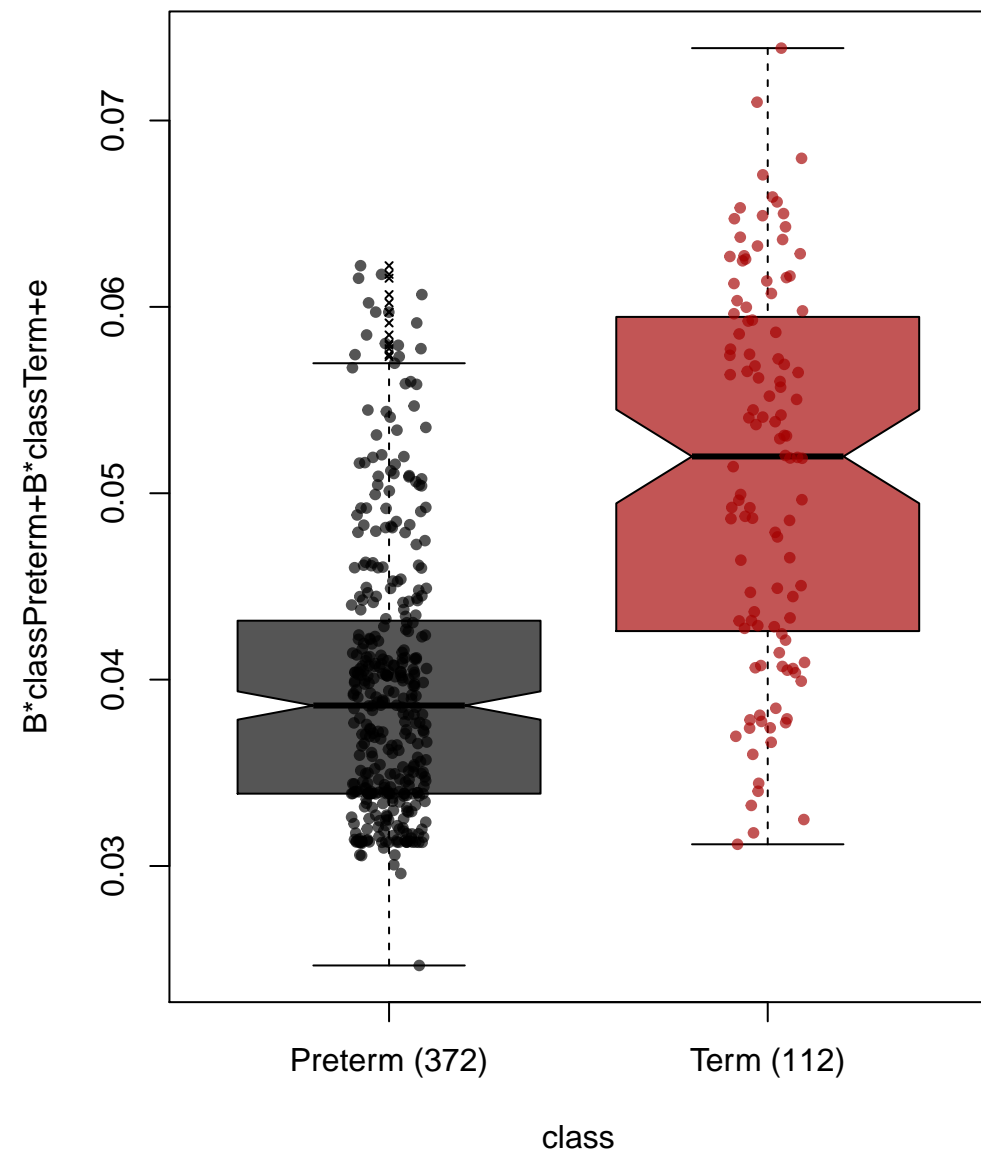
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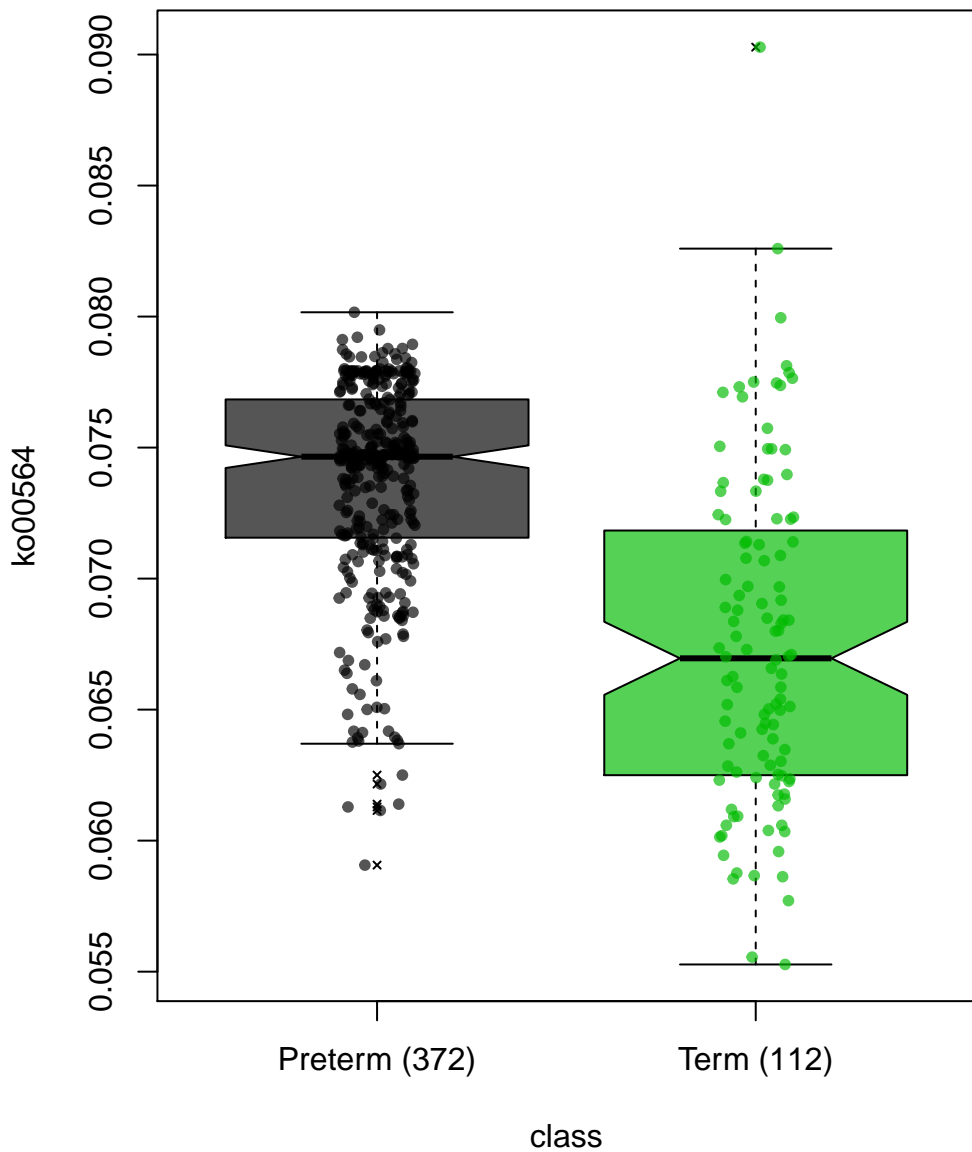
classTerm (0.0114 sd 0.000871, p=5.92e-34, q=7.87e-33)



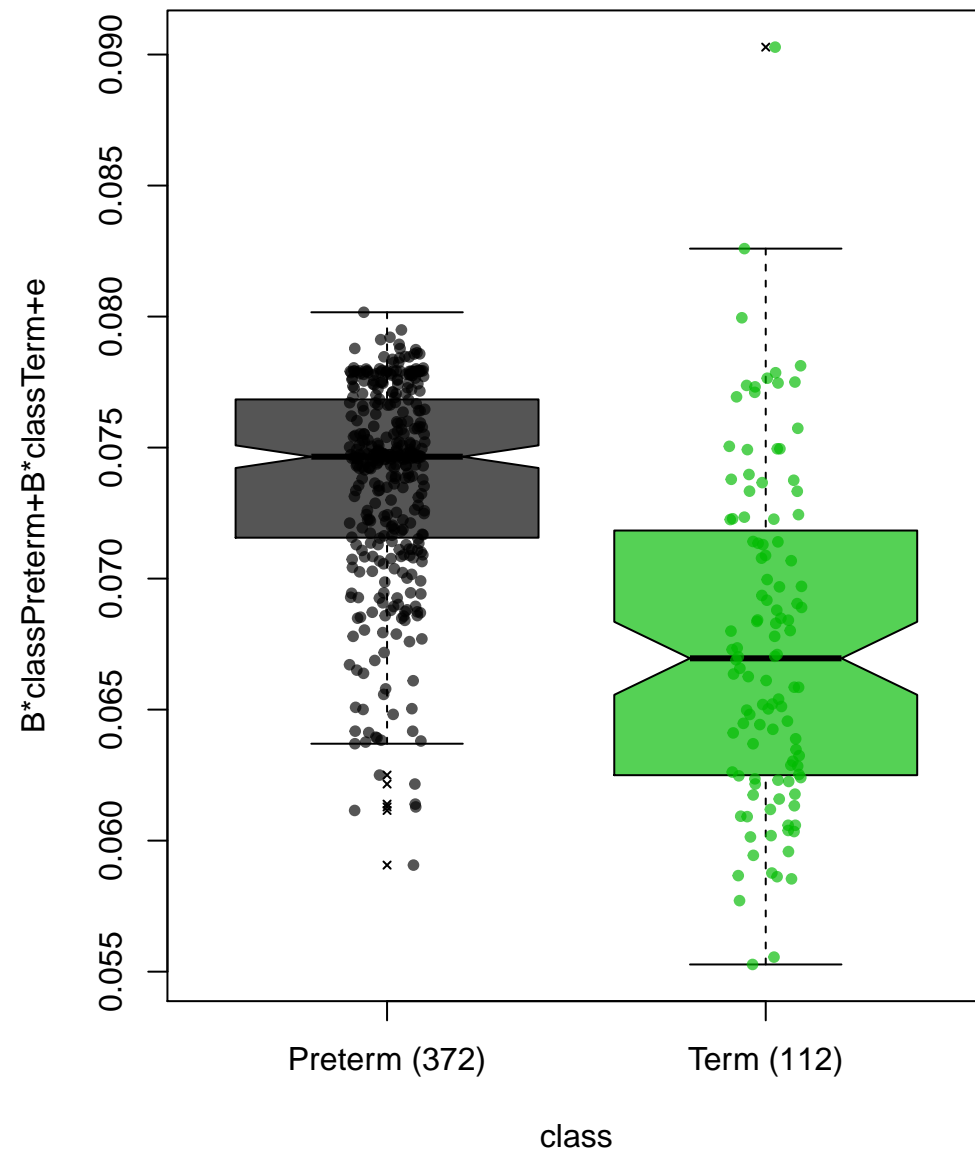
Partial Residual Plot



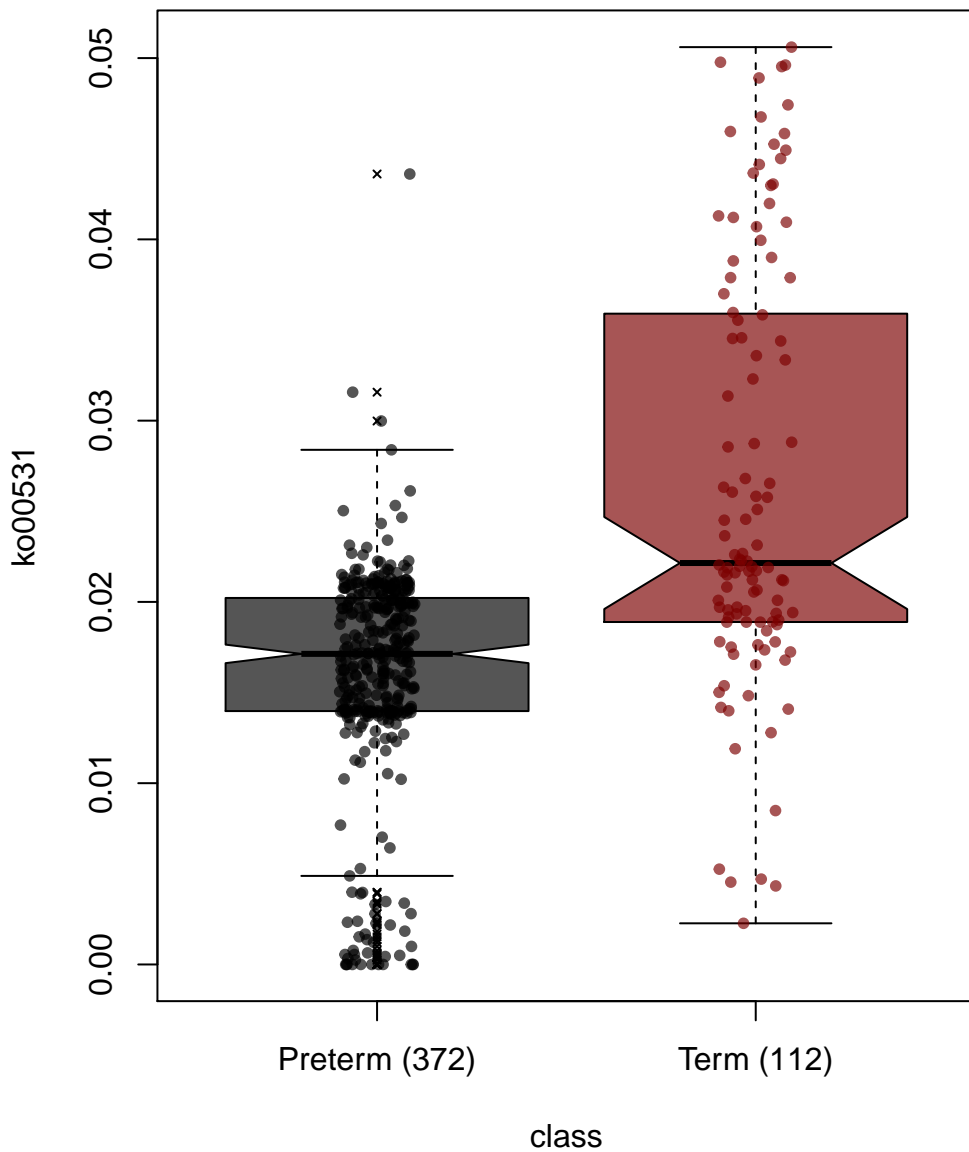
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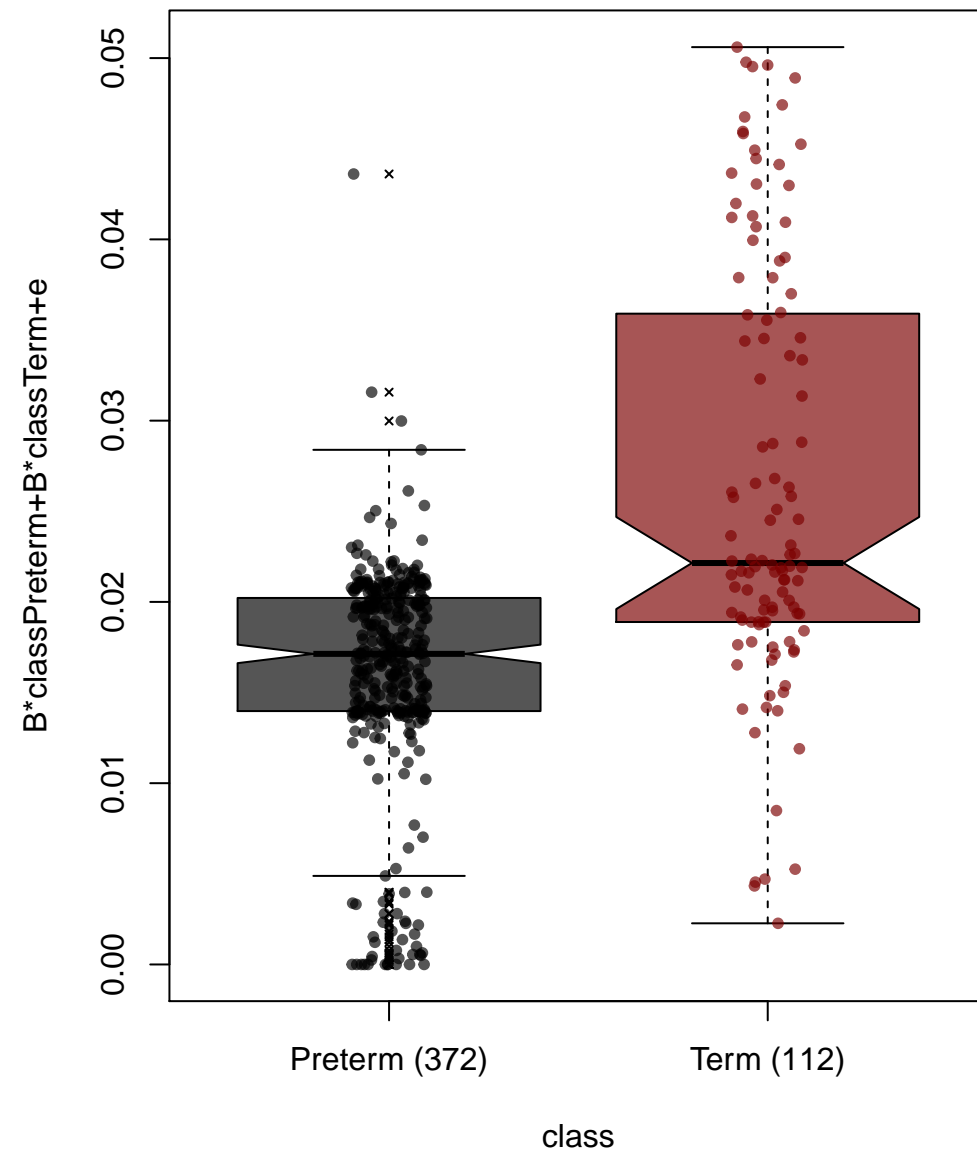
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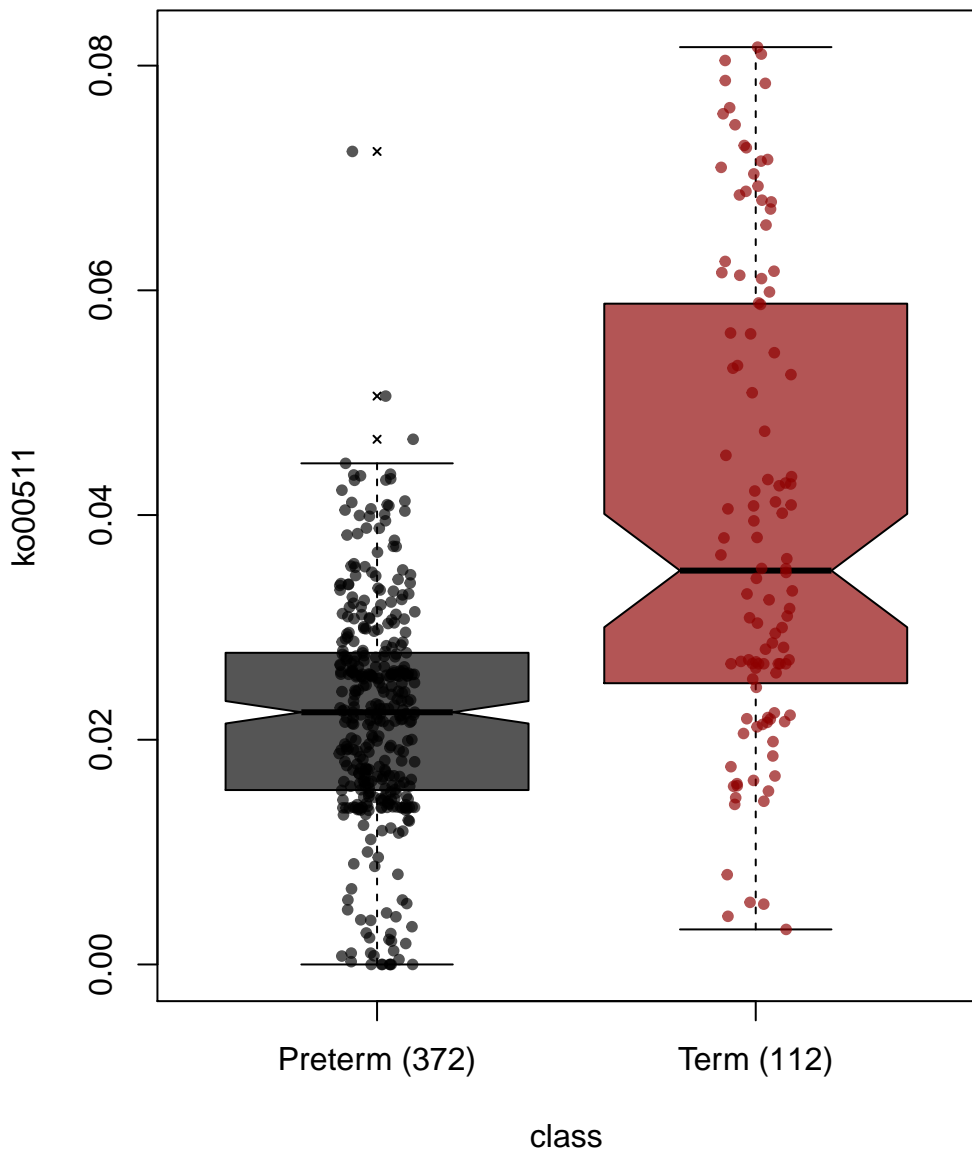
classTerm (0.0104 sd 0.000839, p=4.87e-31, q=5.9e-30)



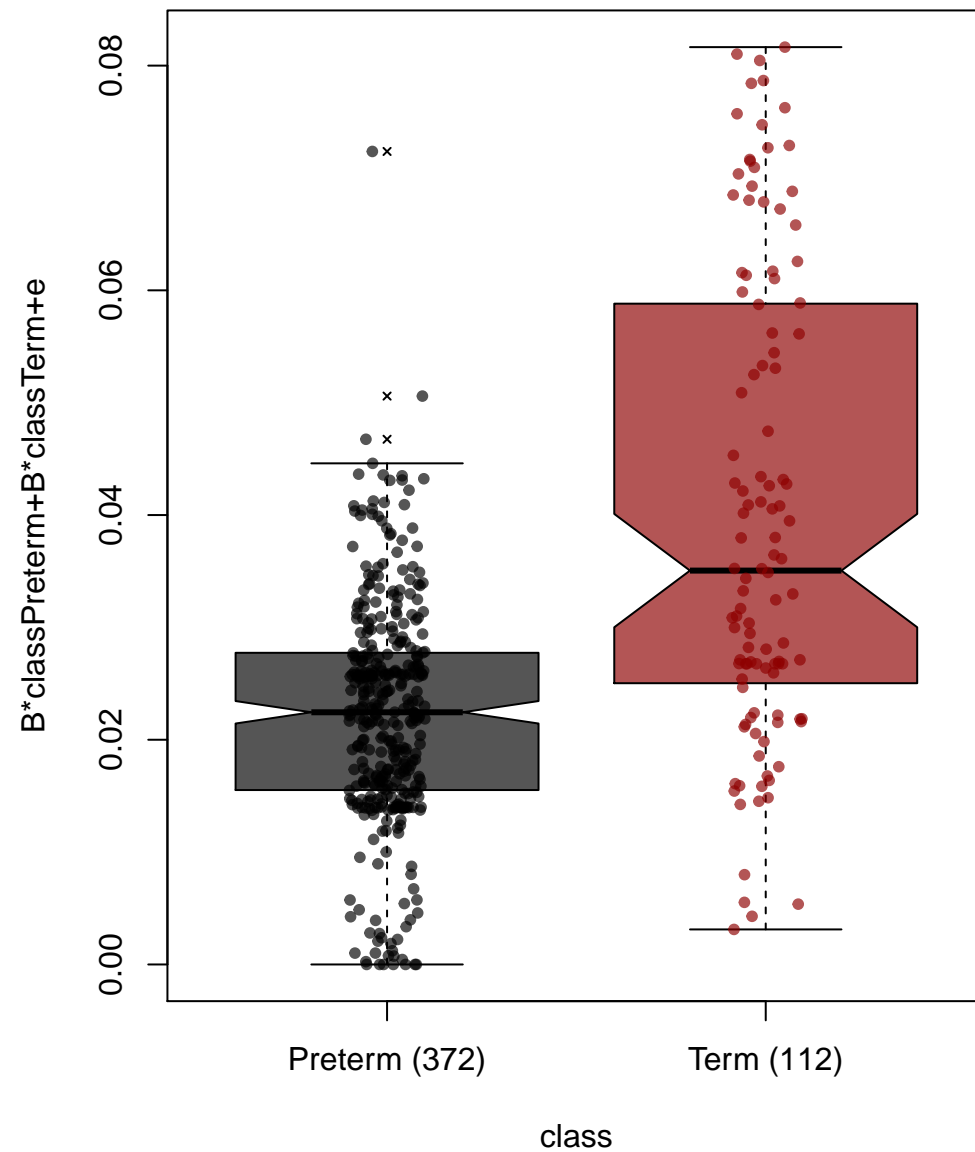
Partial Residual Plot



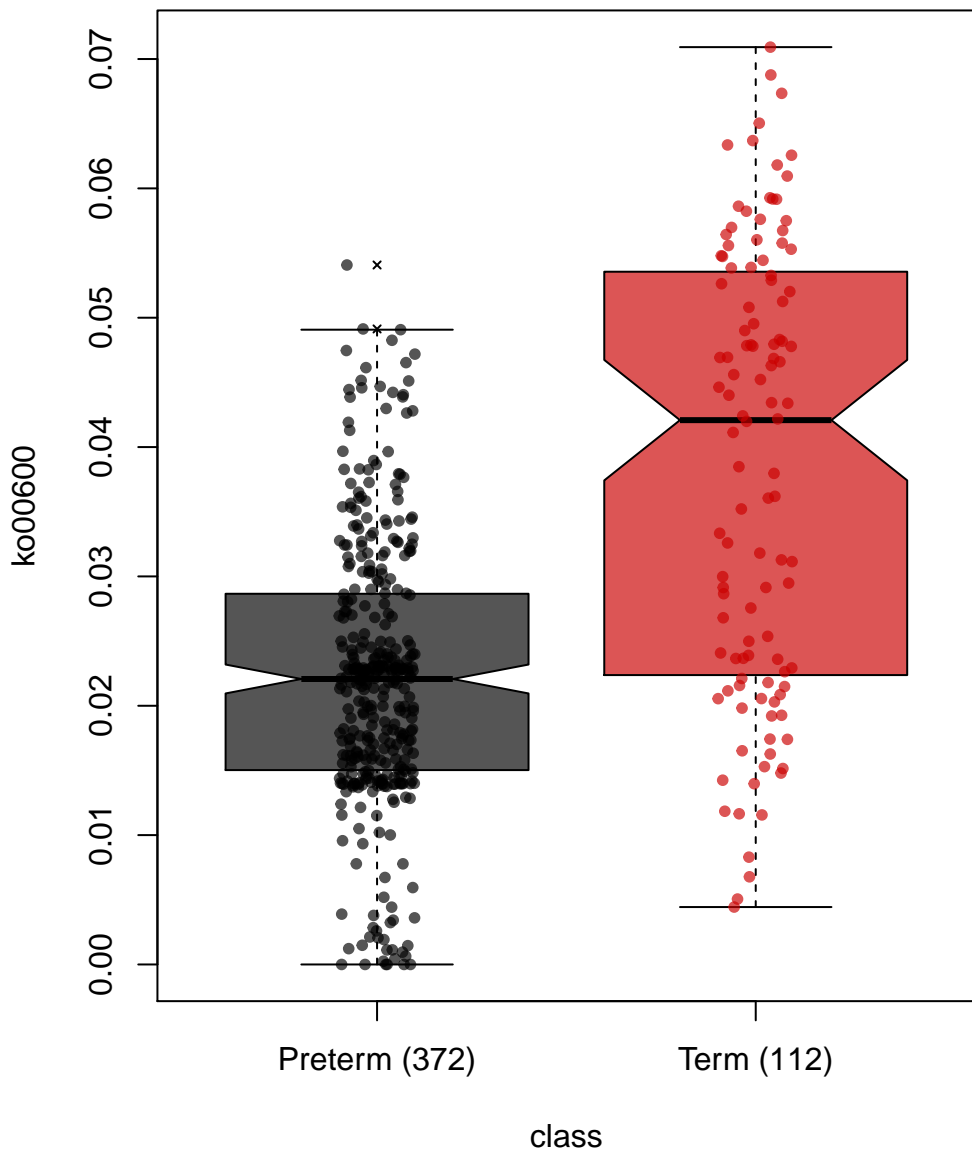
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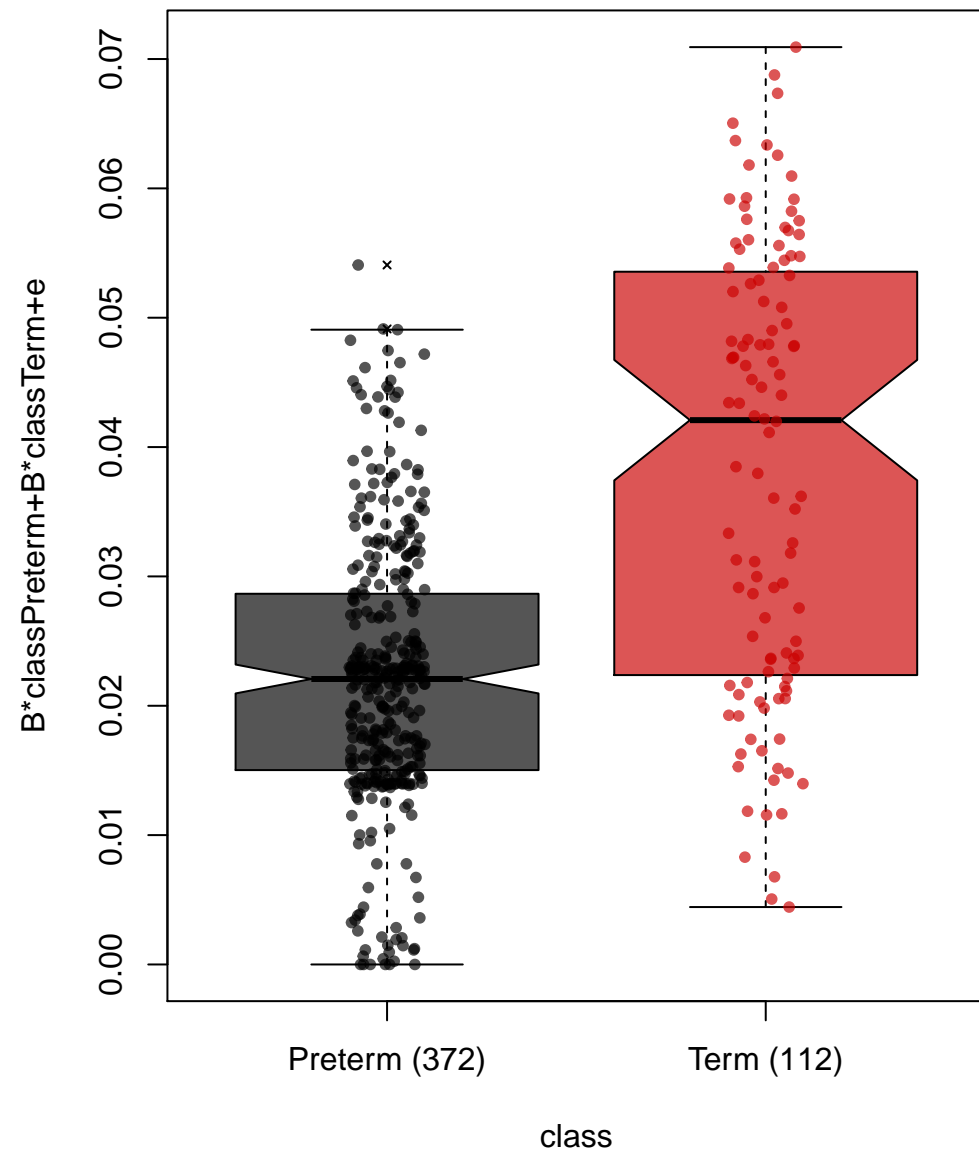
Partial Residual Plot



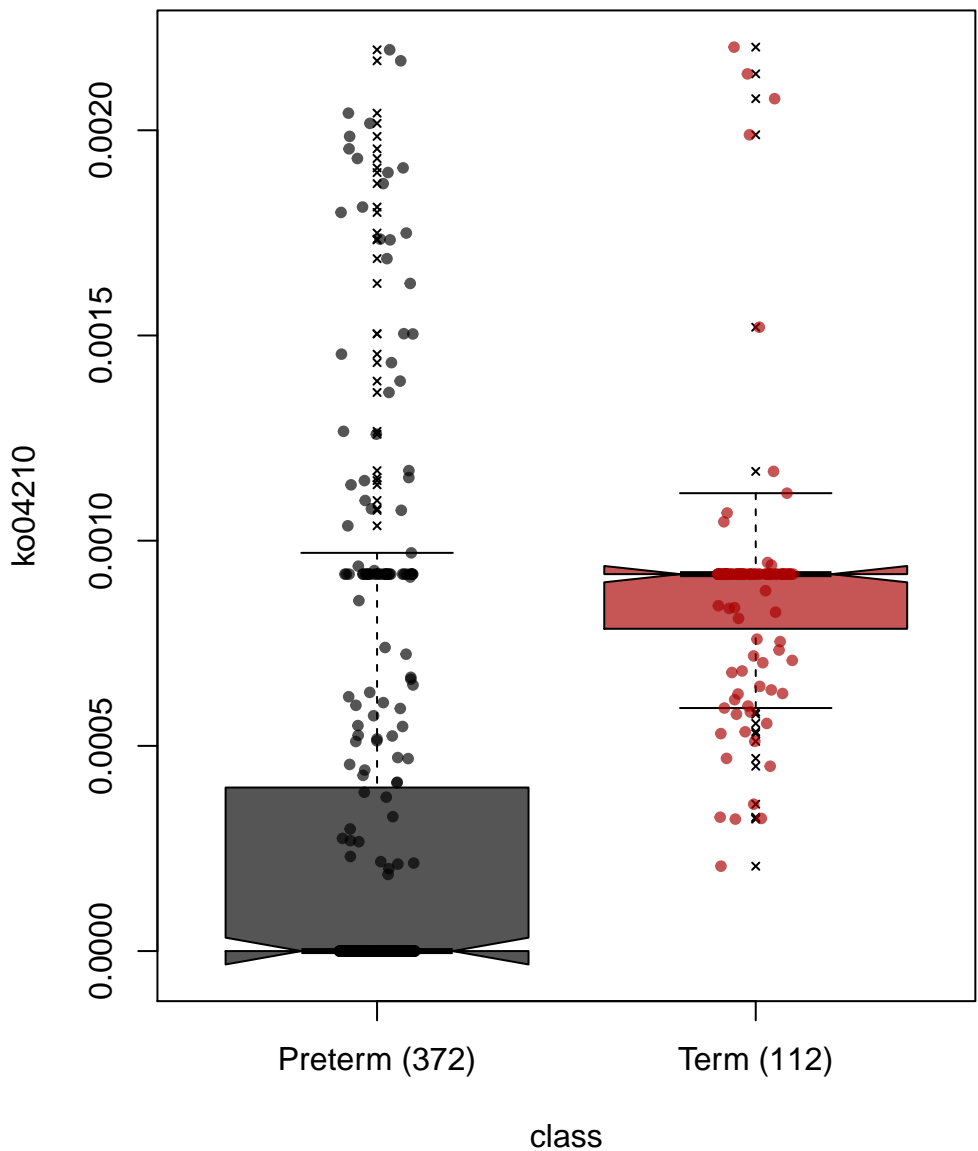
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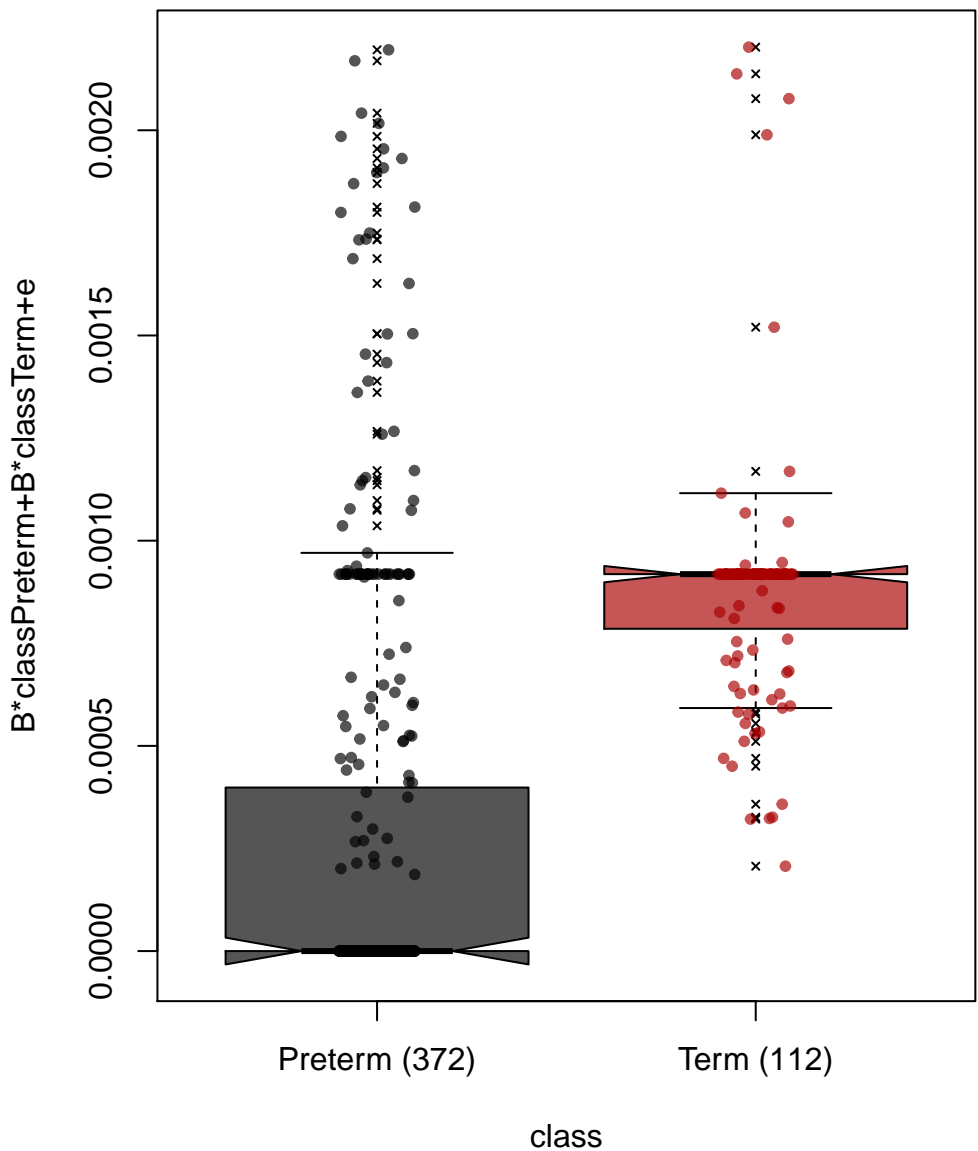
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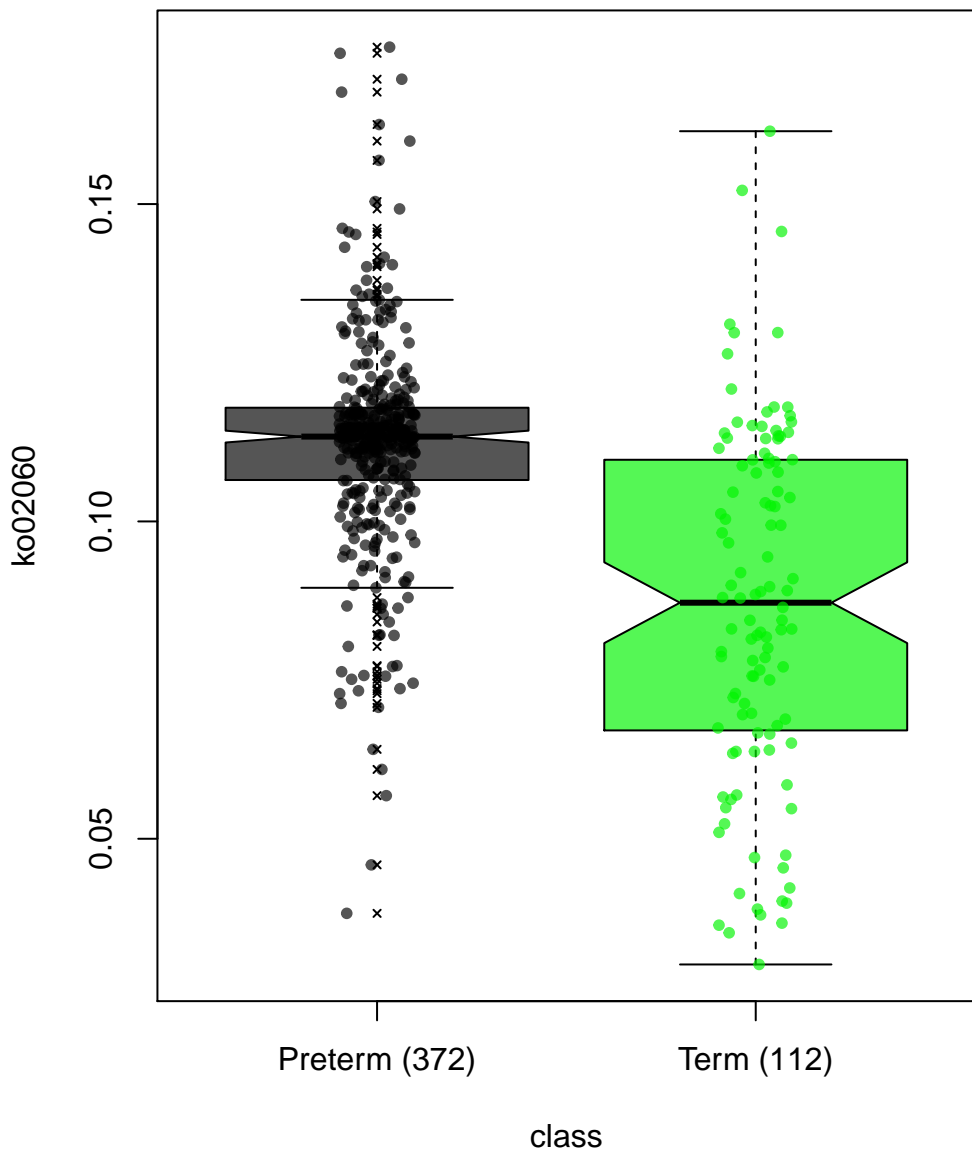
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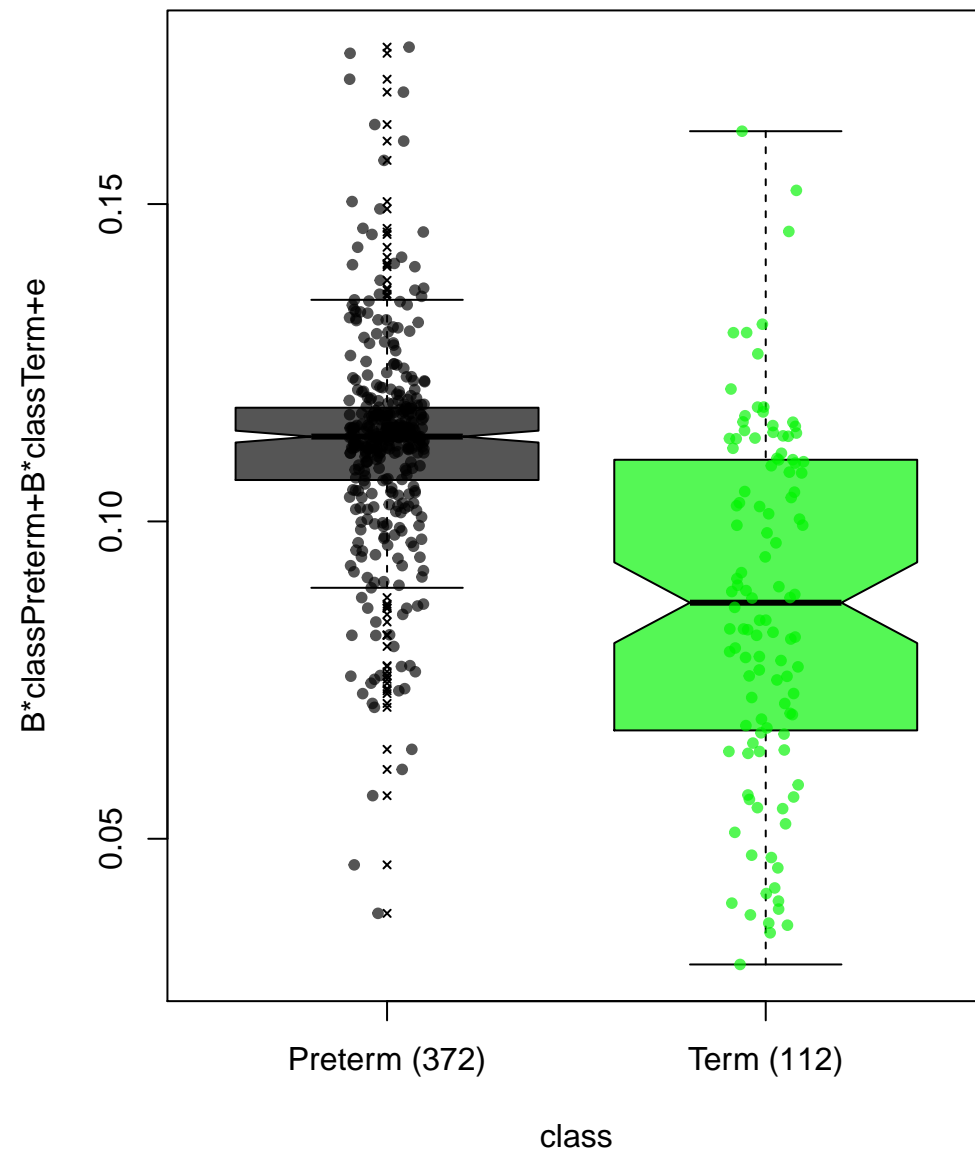
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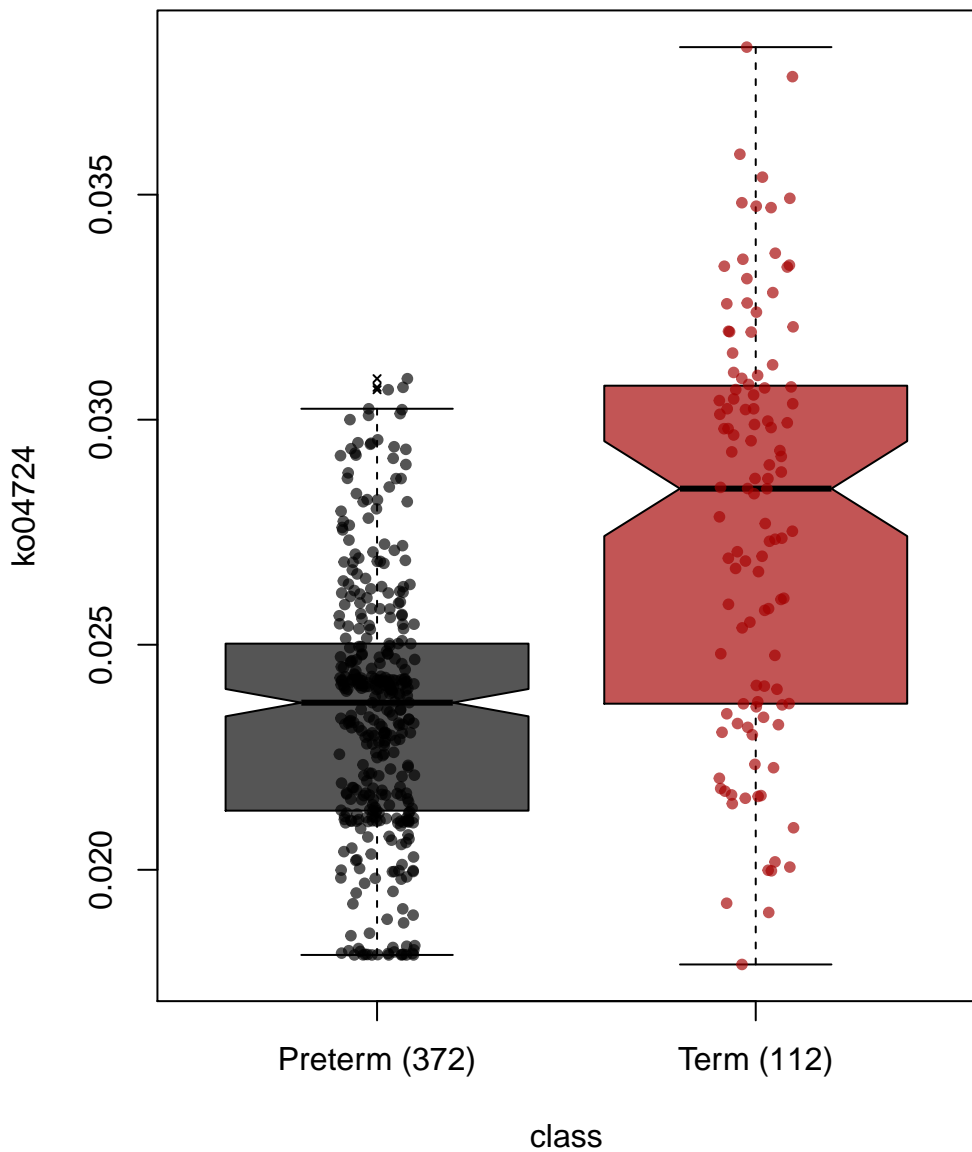
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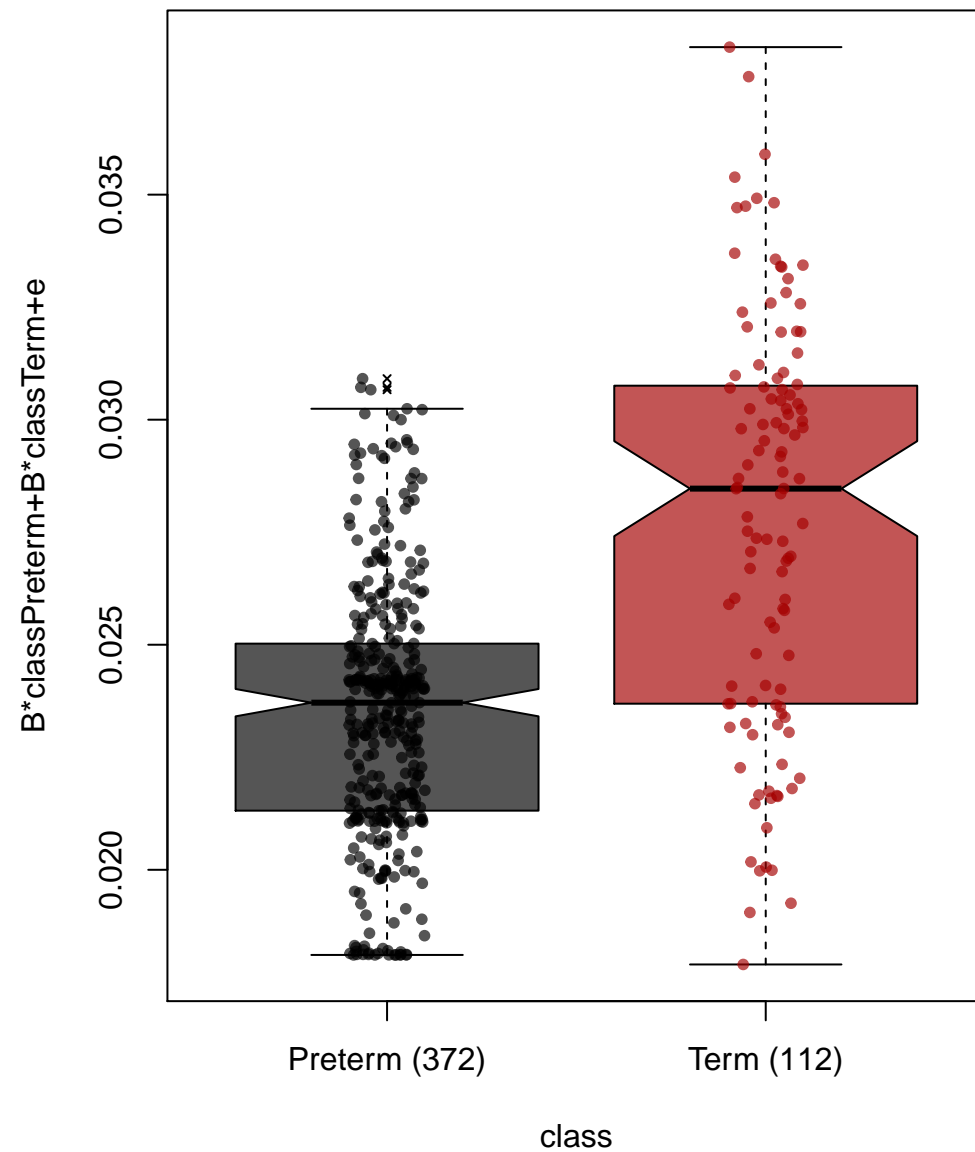
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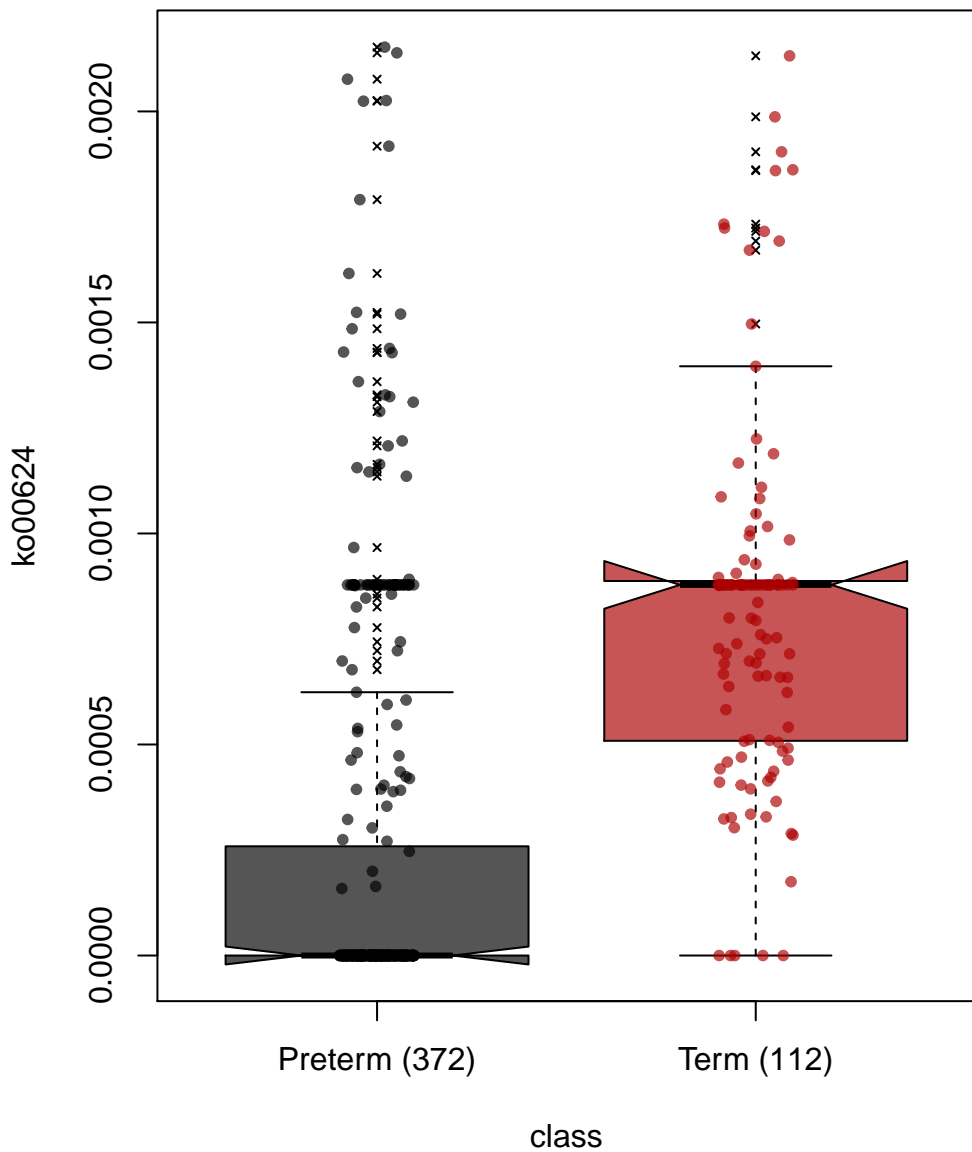
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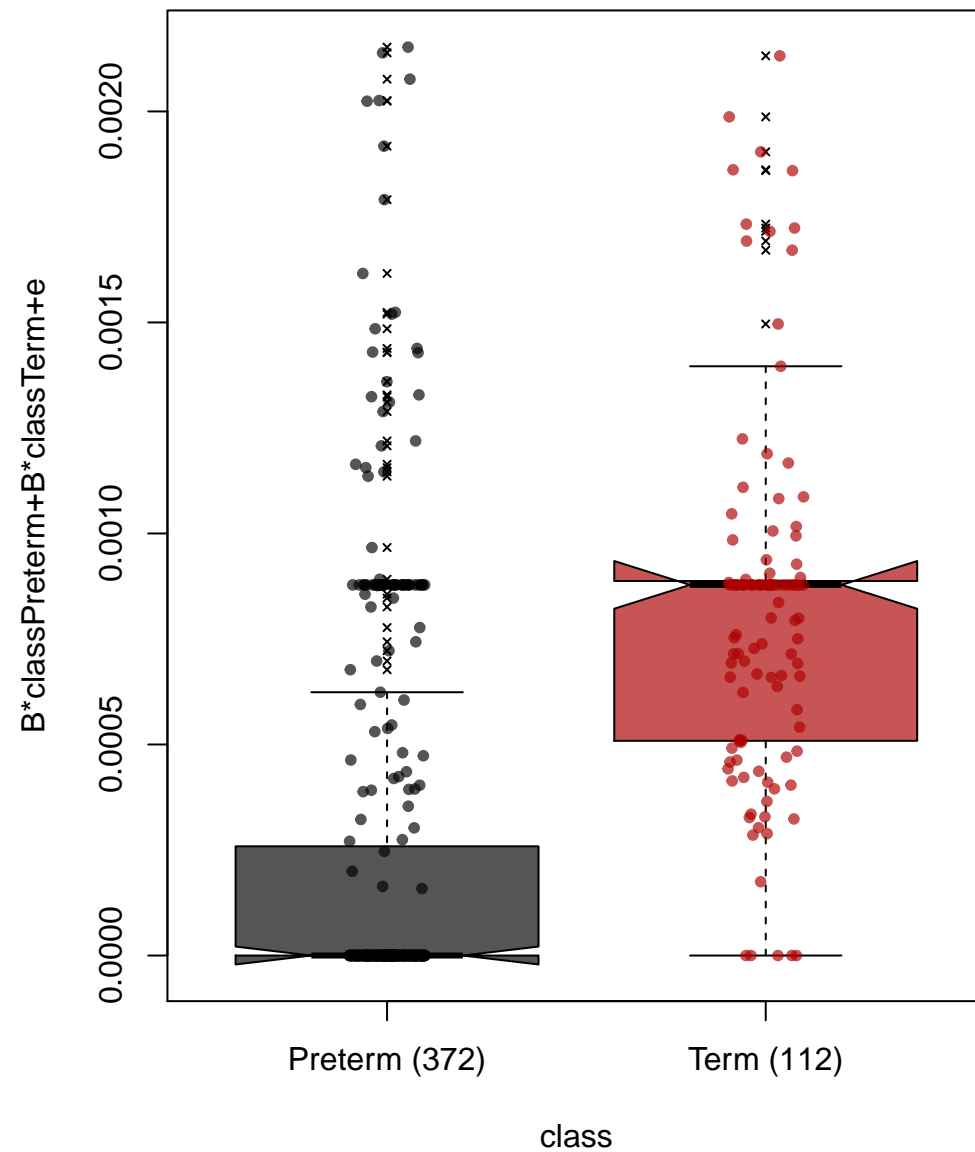
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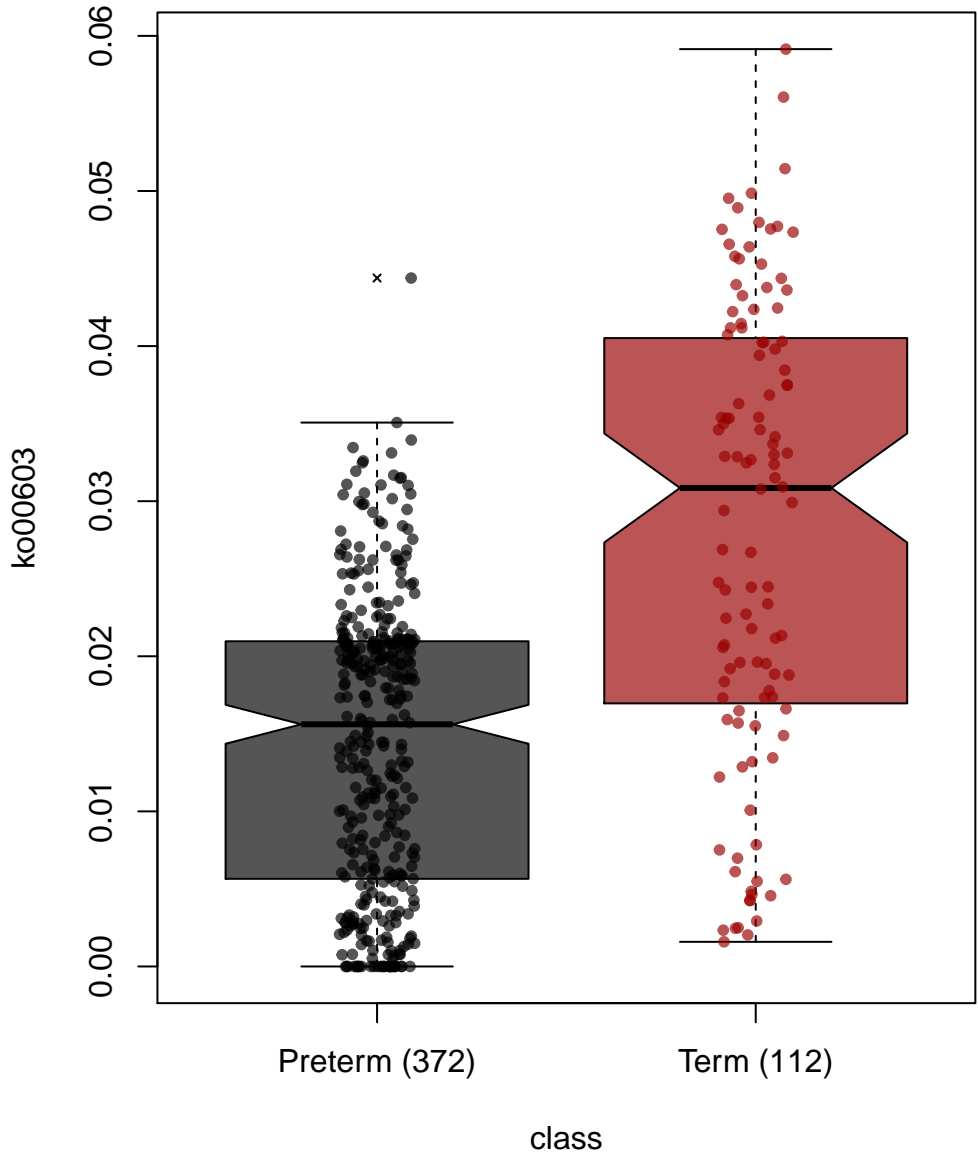
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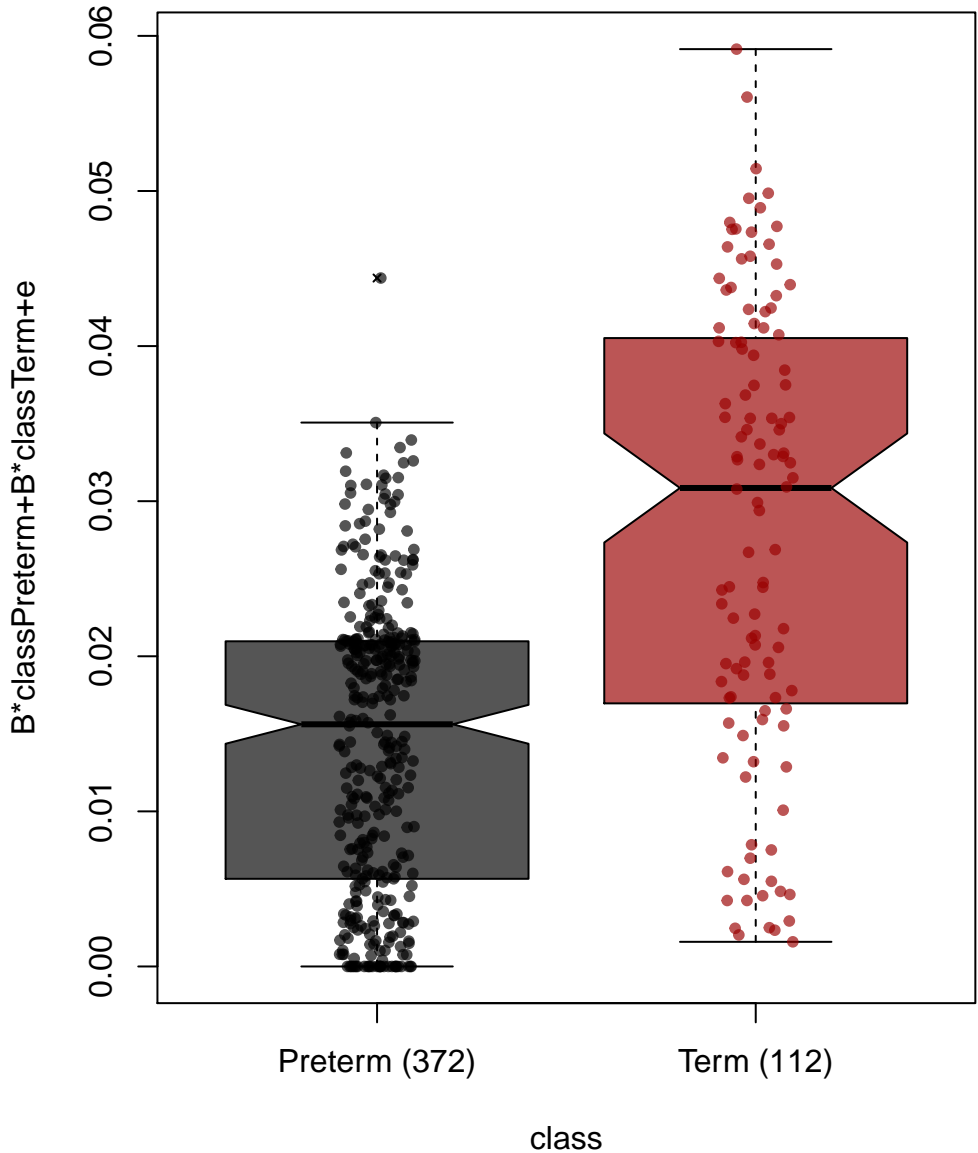
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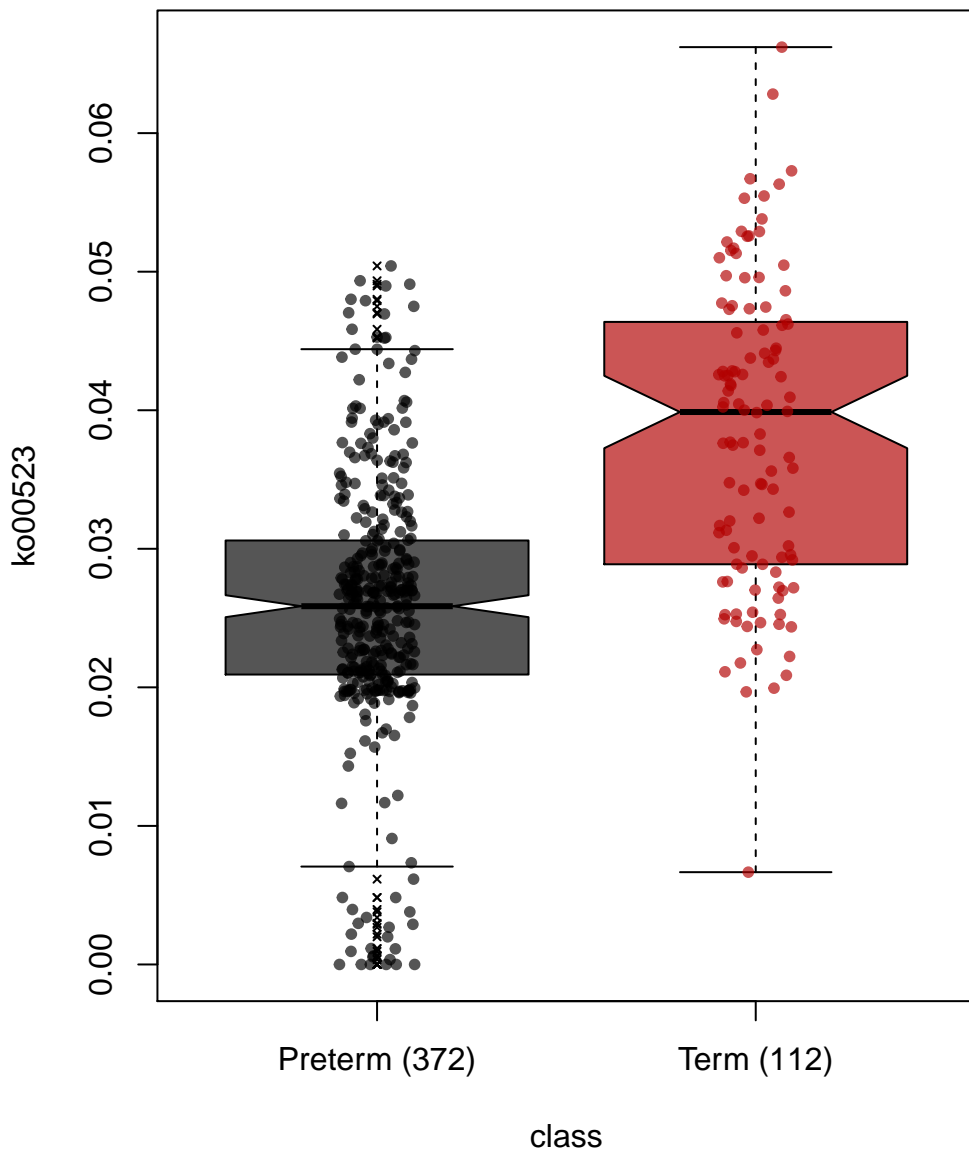
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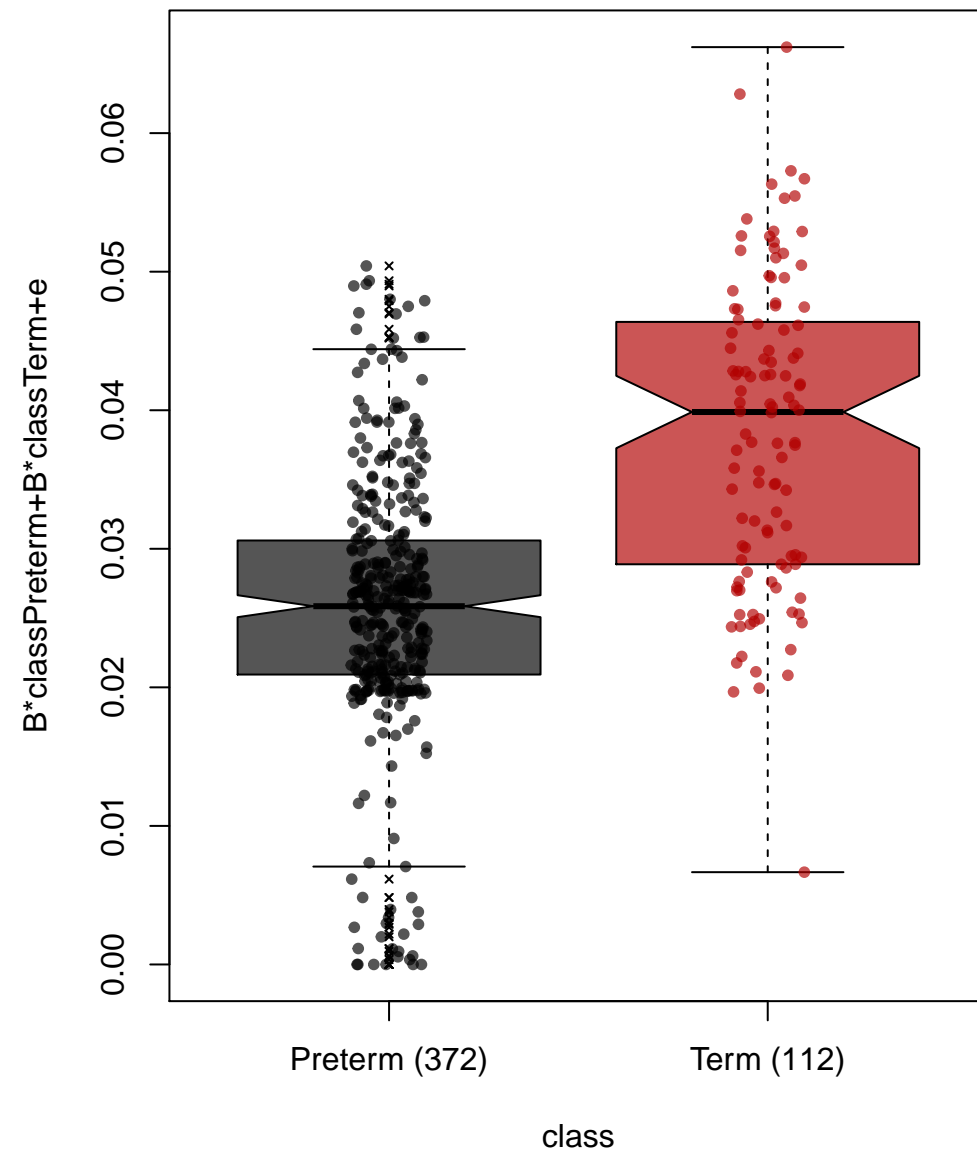
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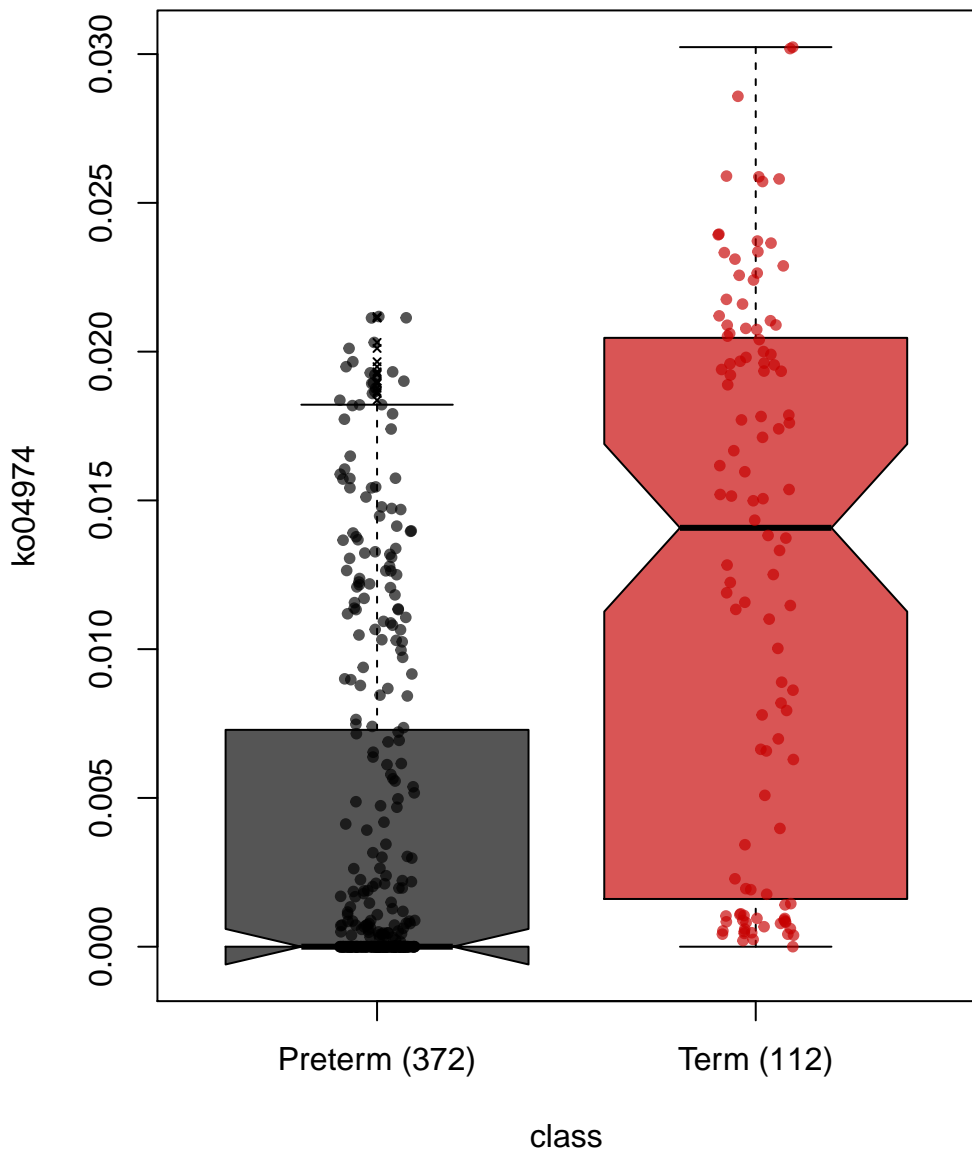
classTerm (0.0125 sd 0.00108, p=1.73e-27, q=1.56e-26)



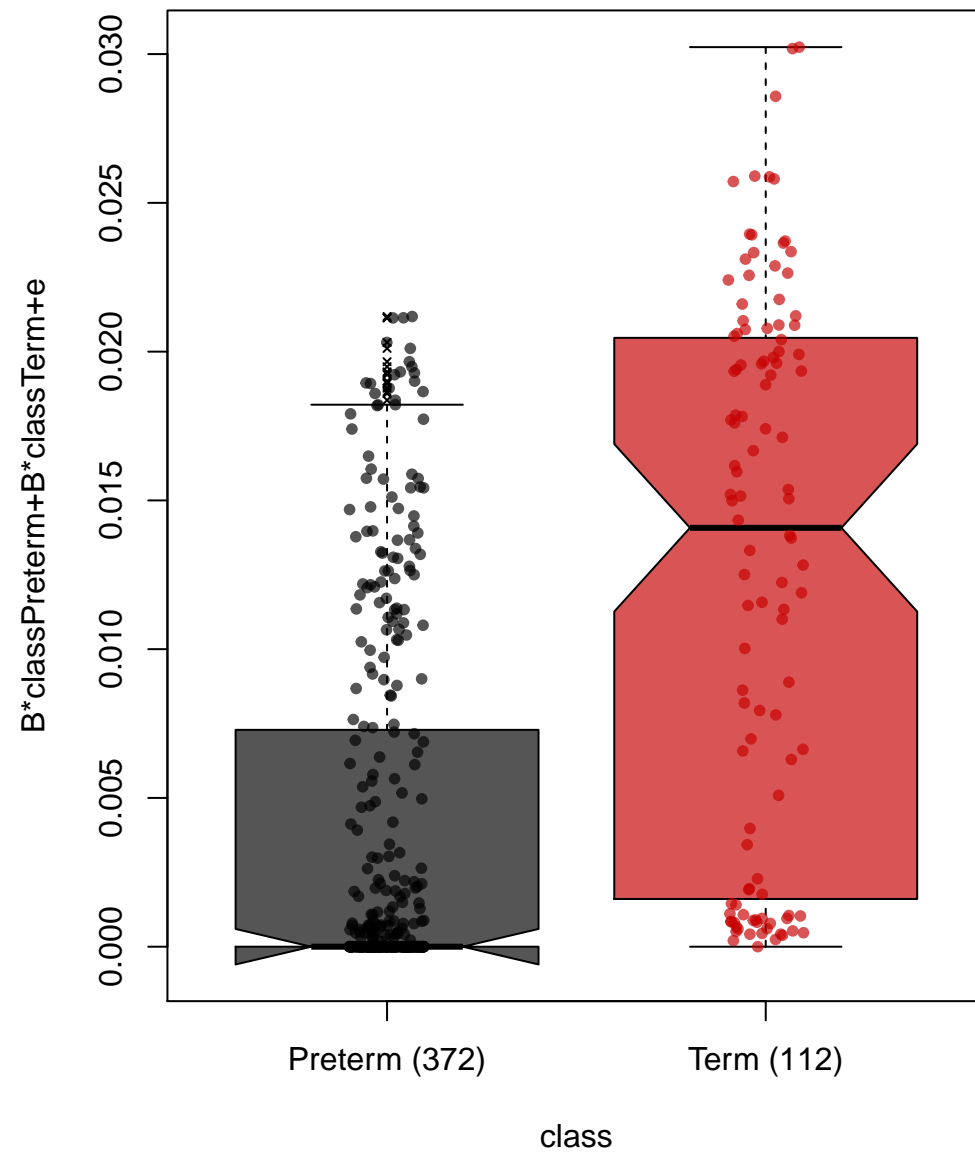
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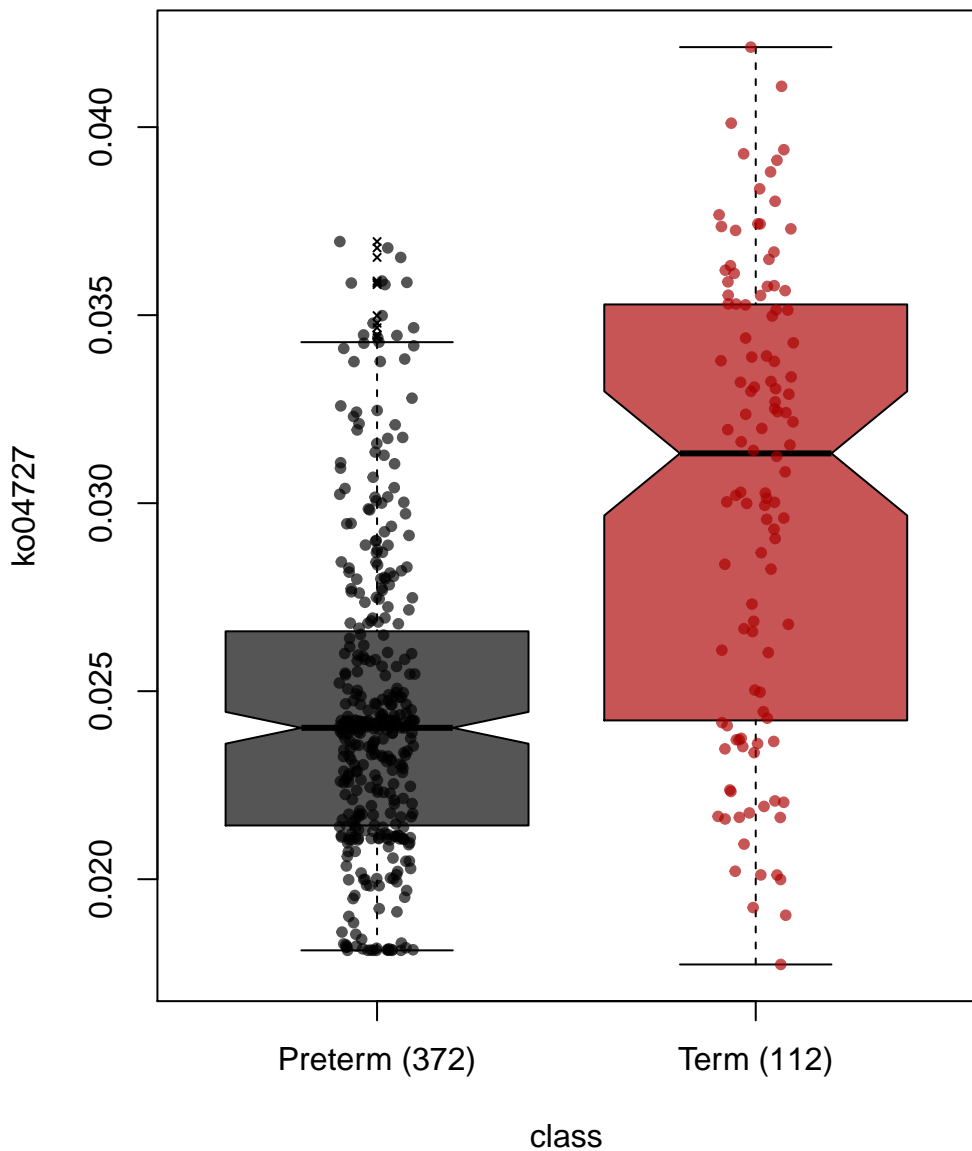
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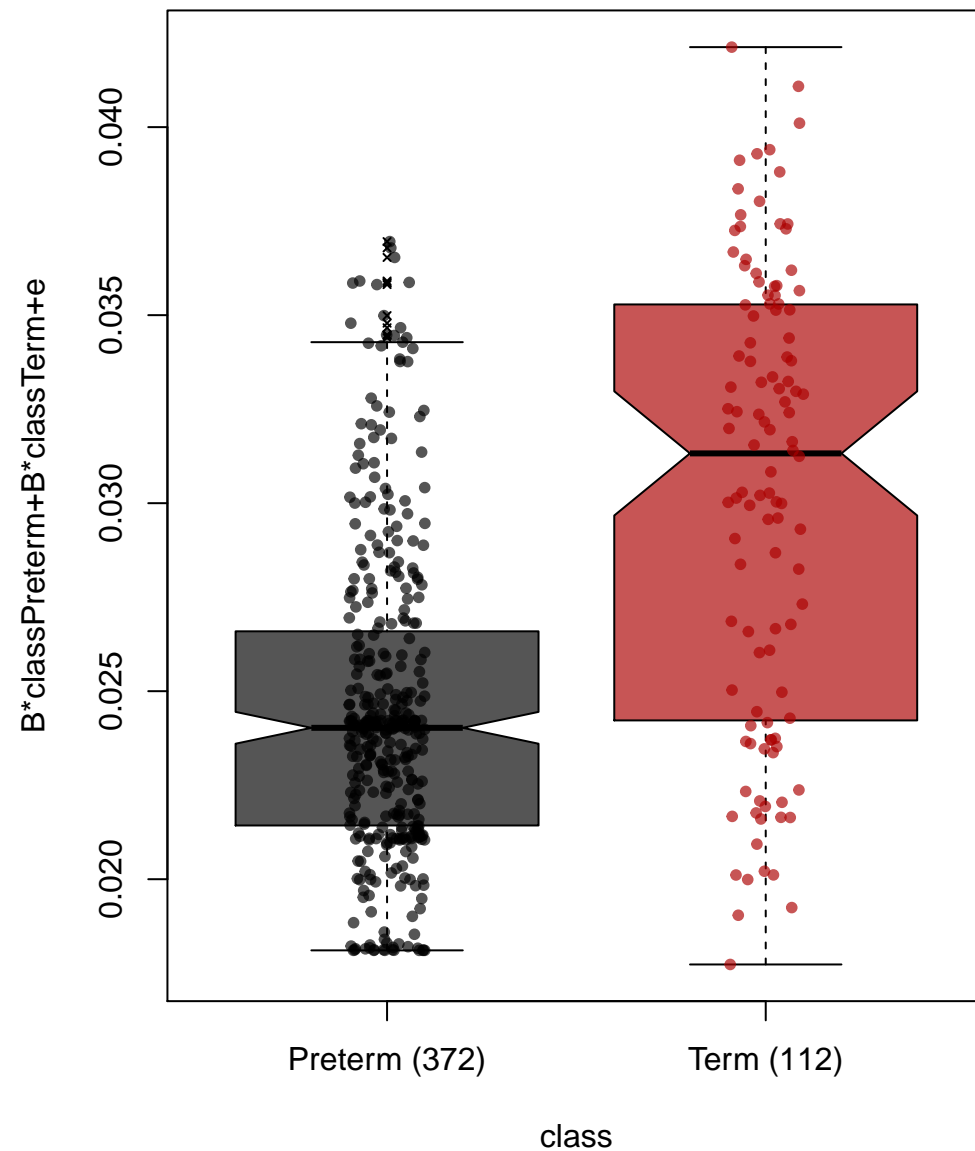
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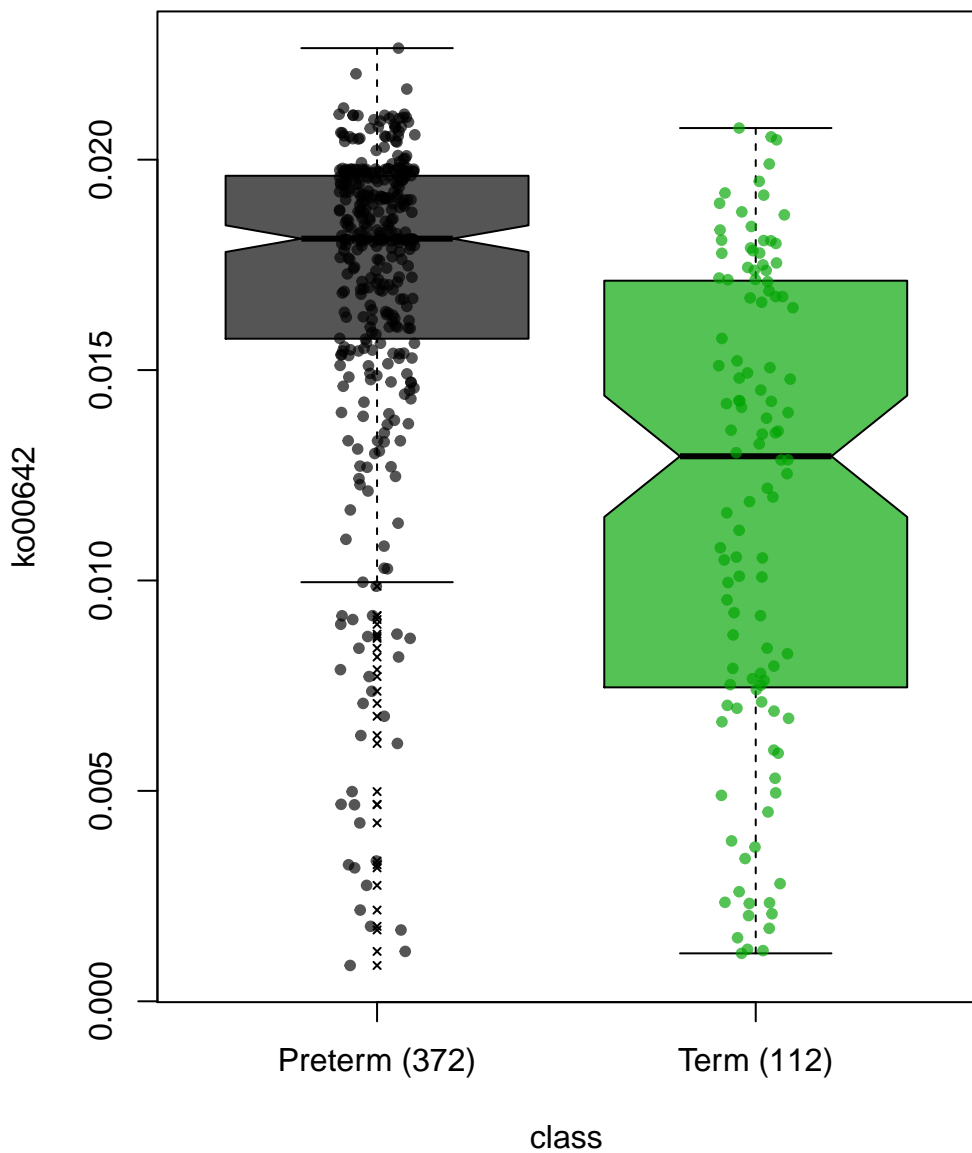
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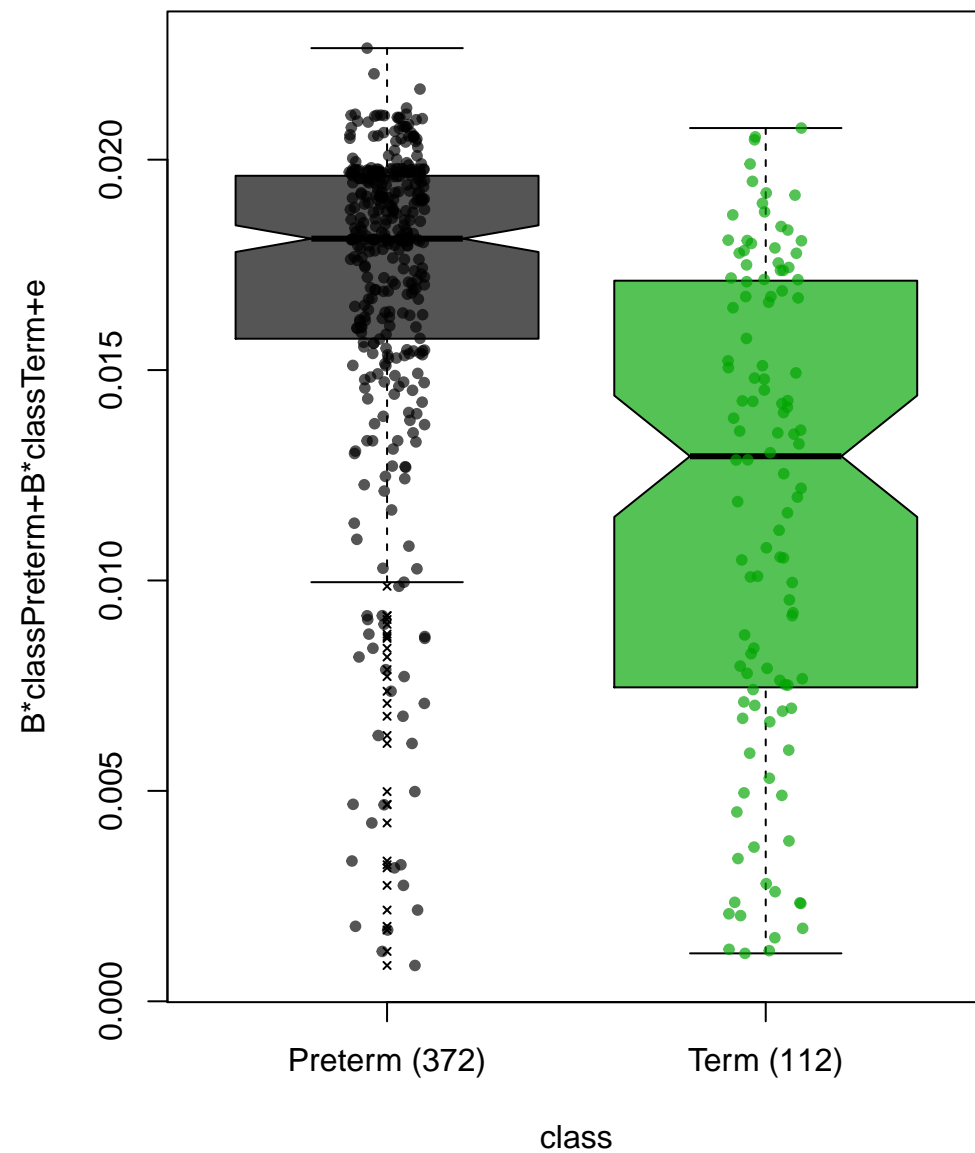
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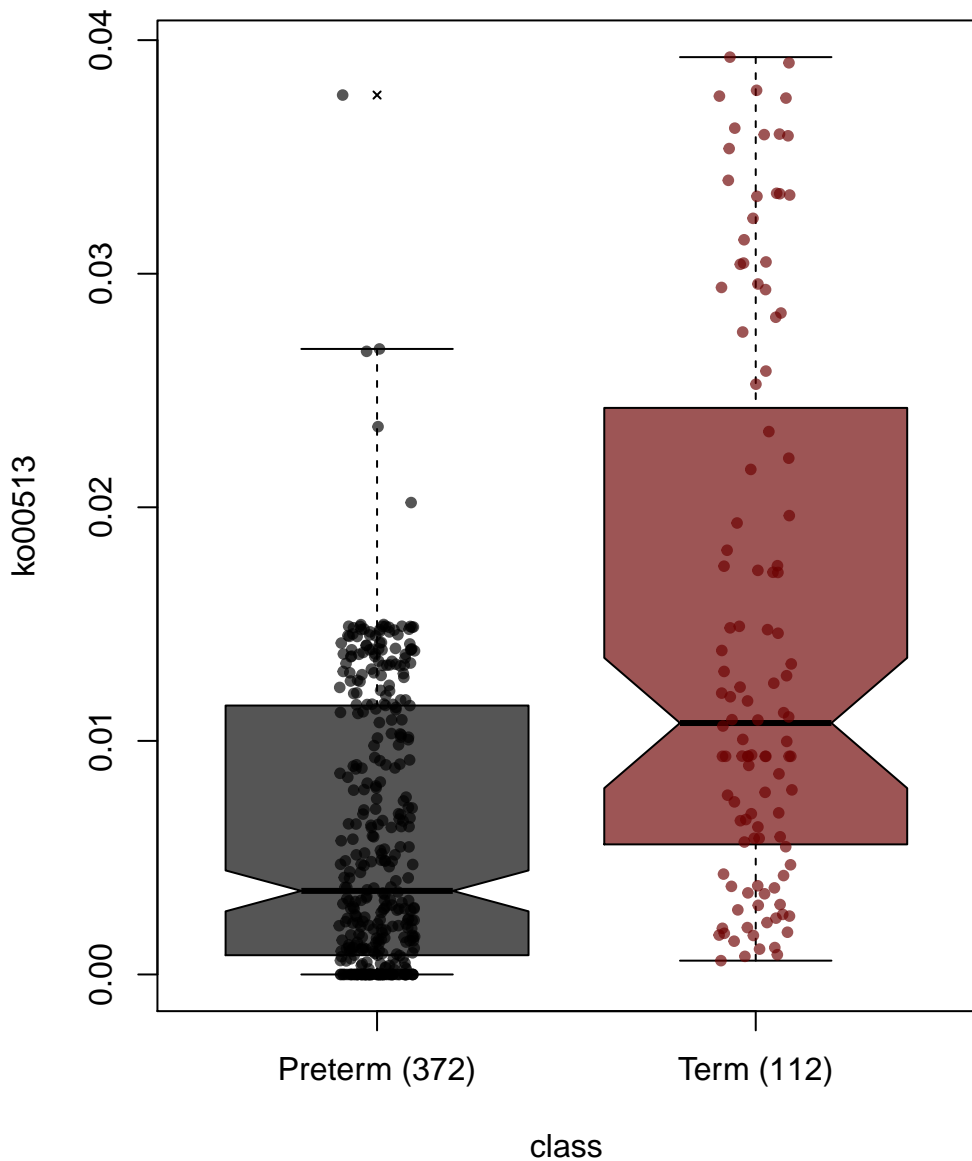
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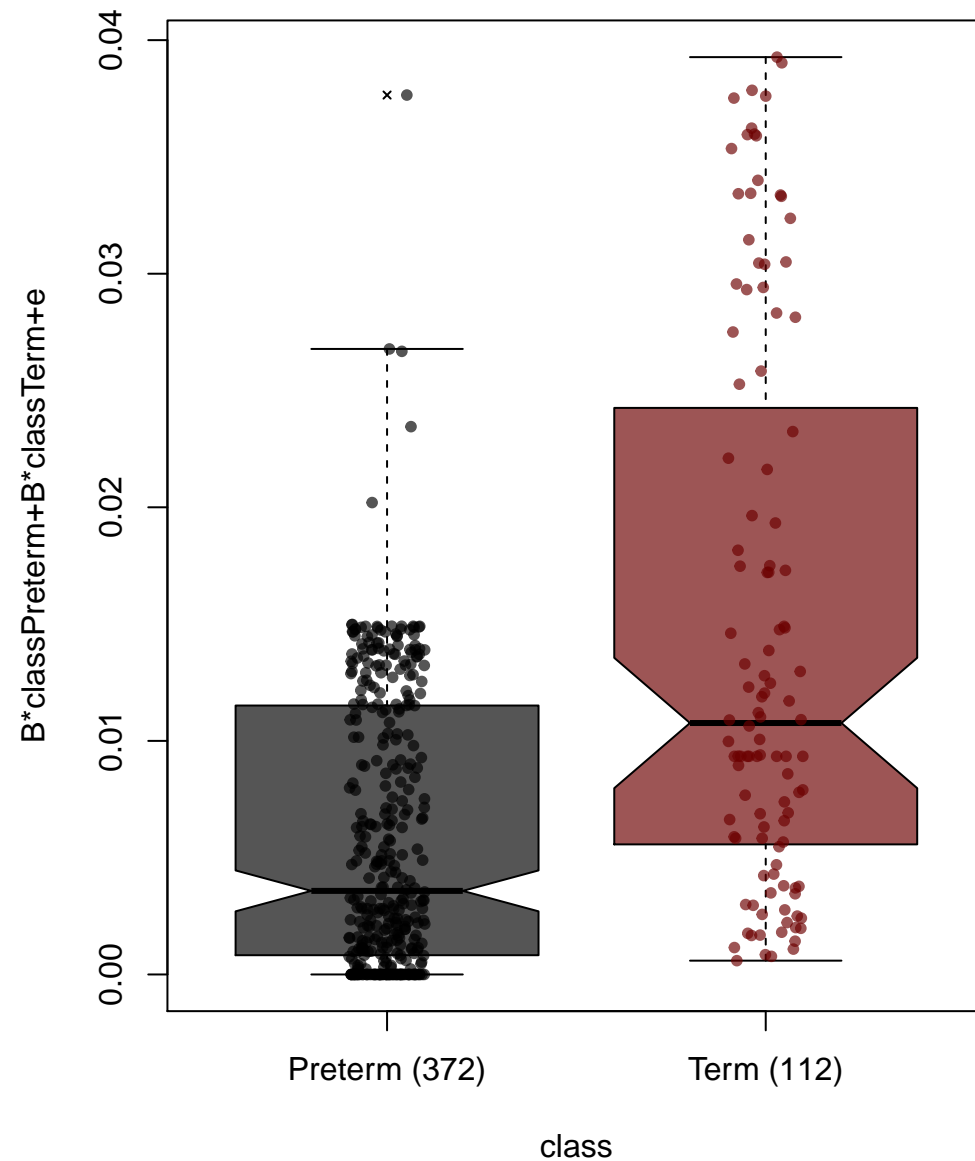
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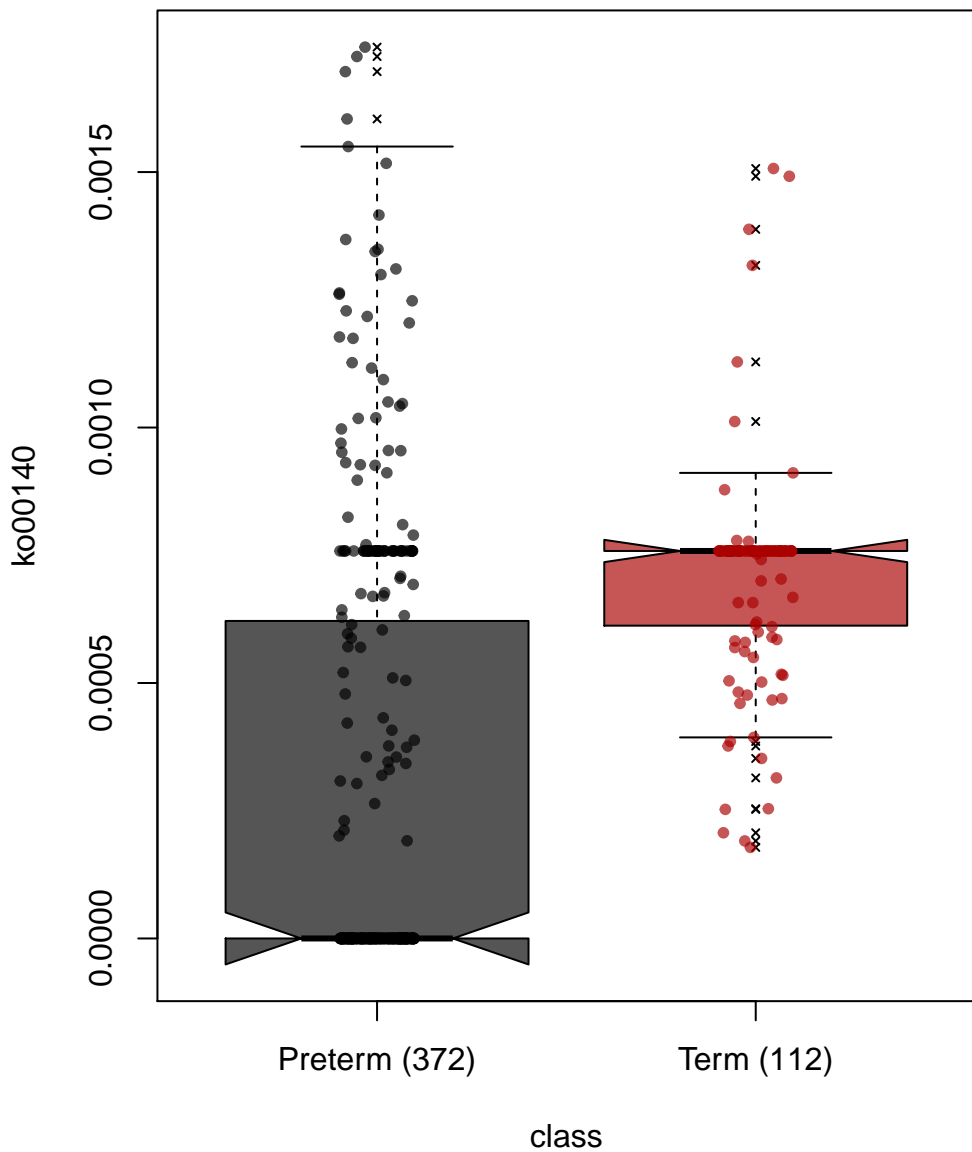
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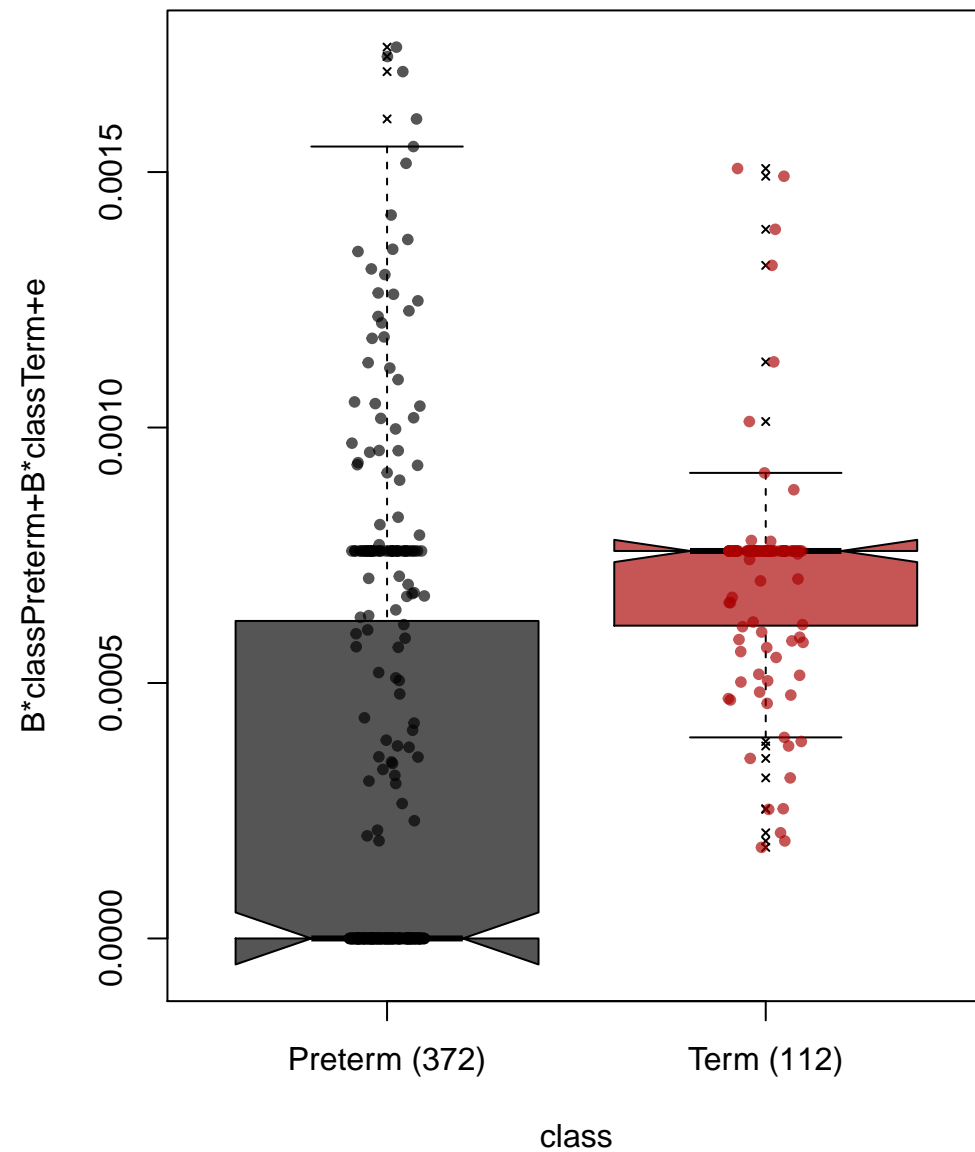
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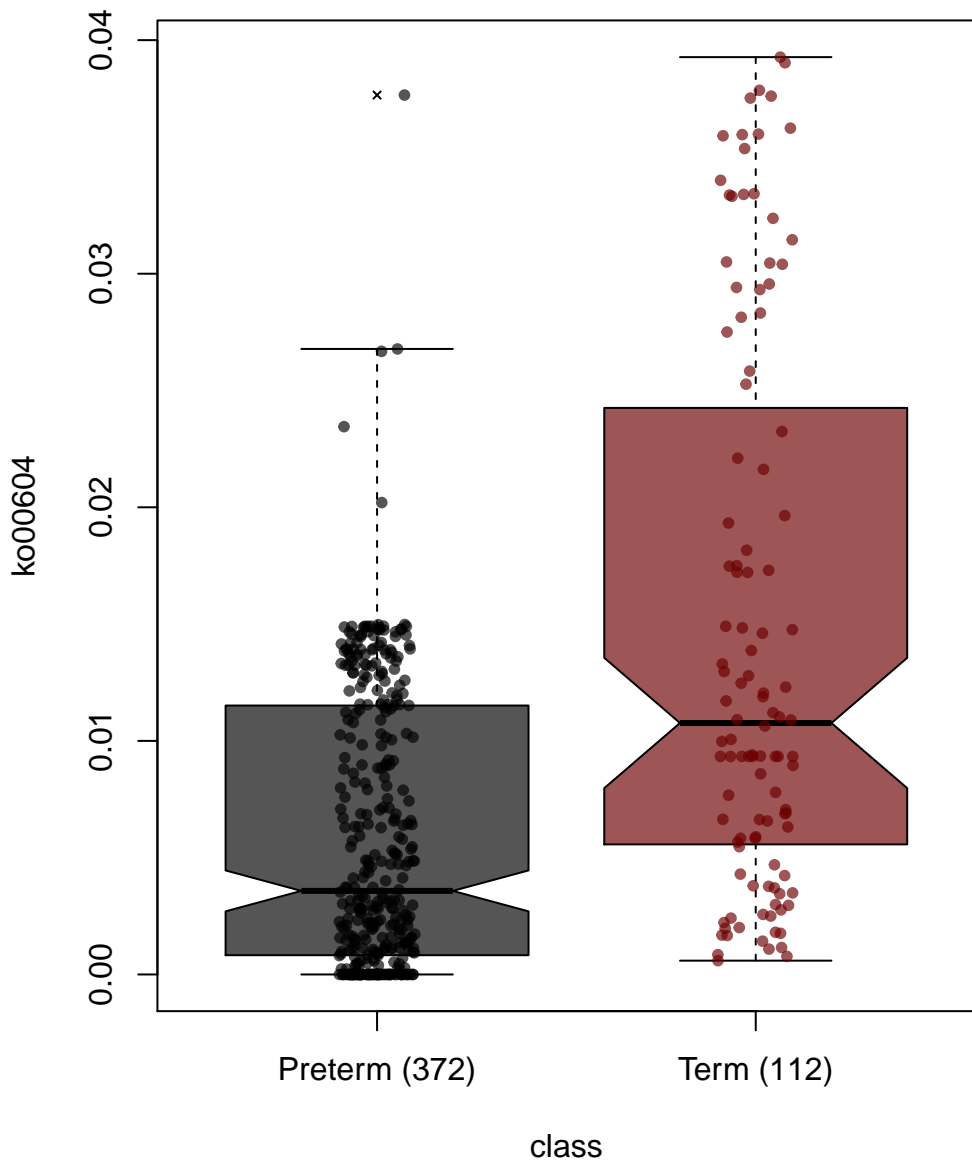
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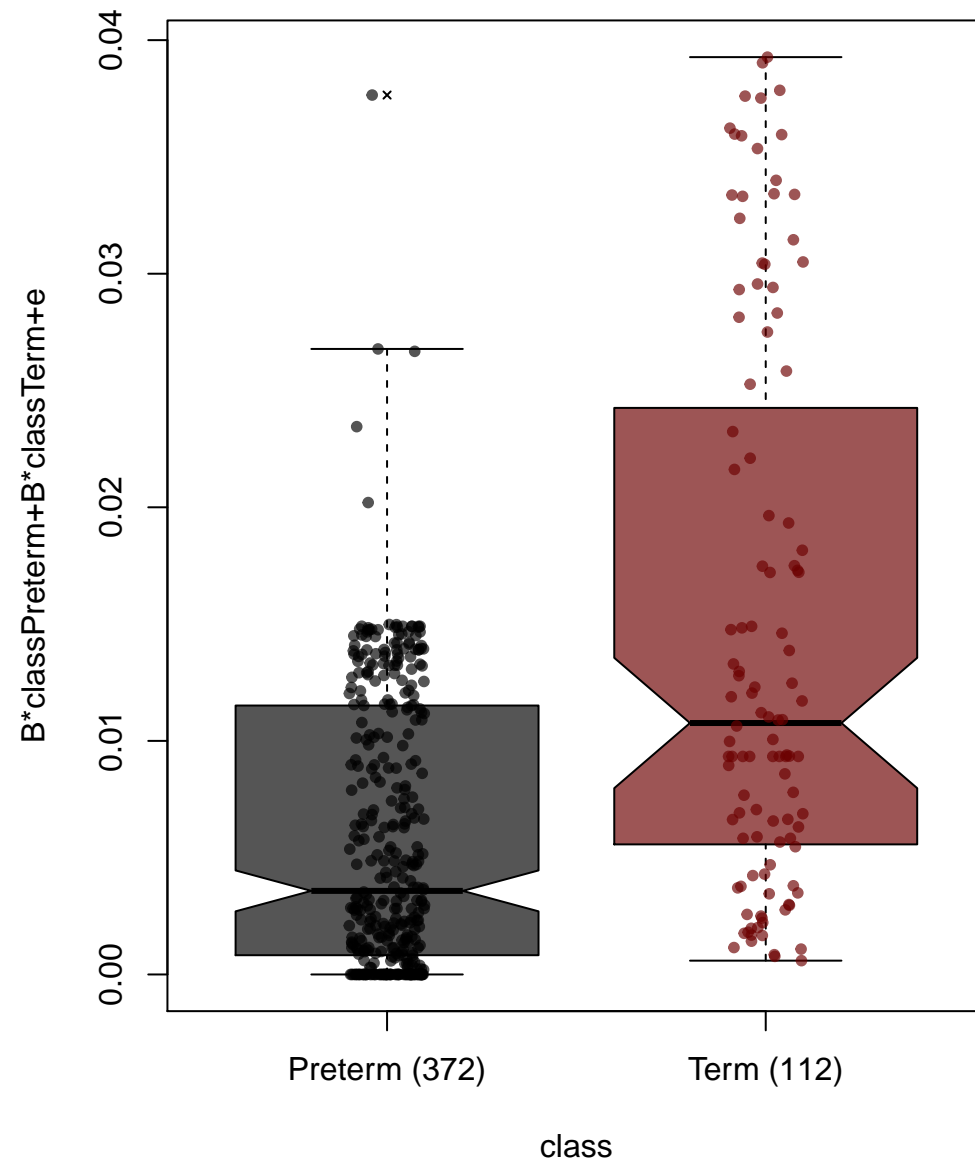
Partial Residual Plot



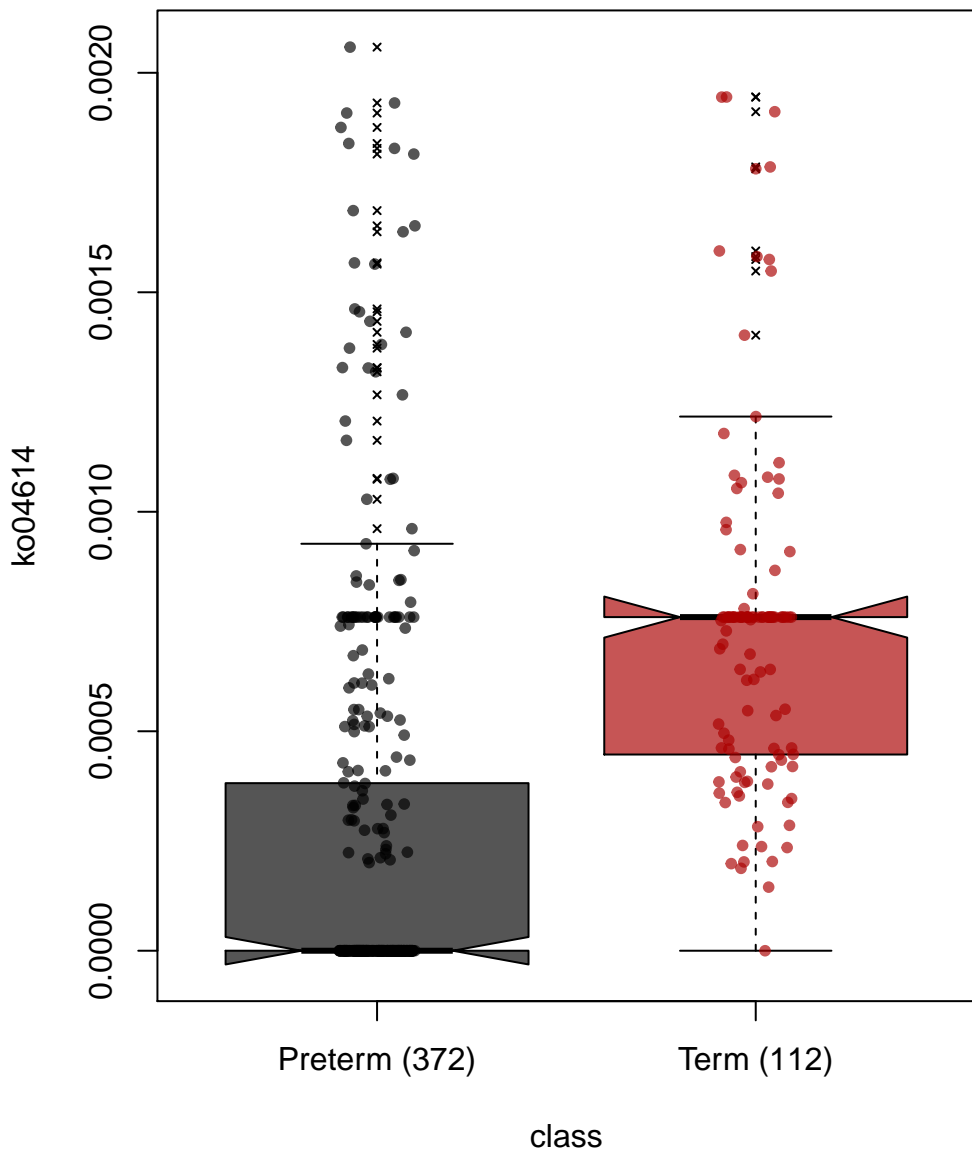
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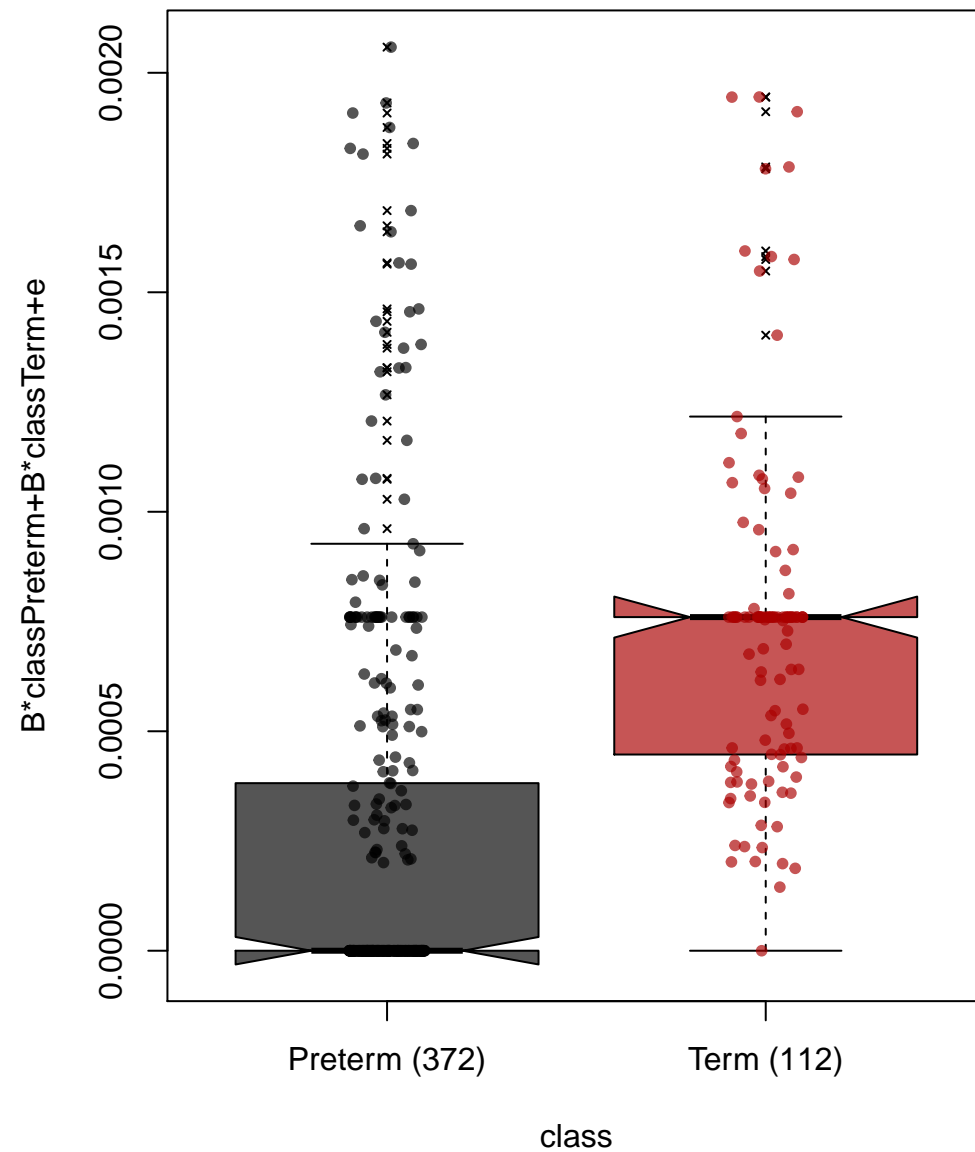
Partial Residual Plot



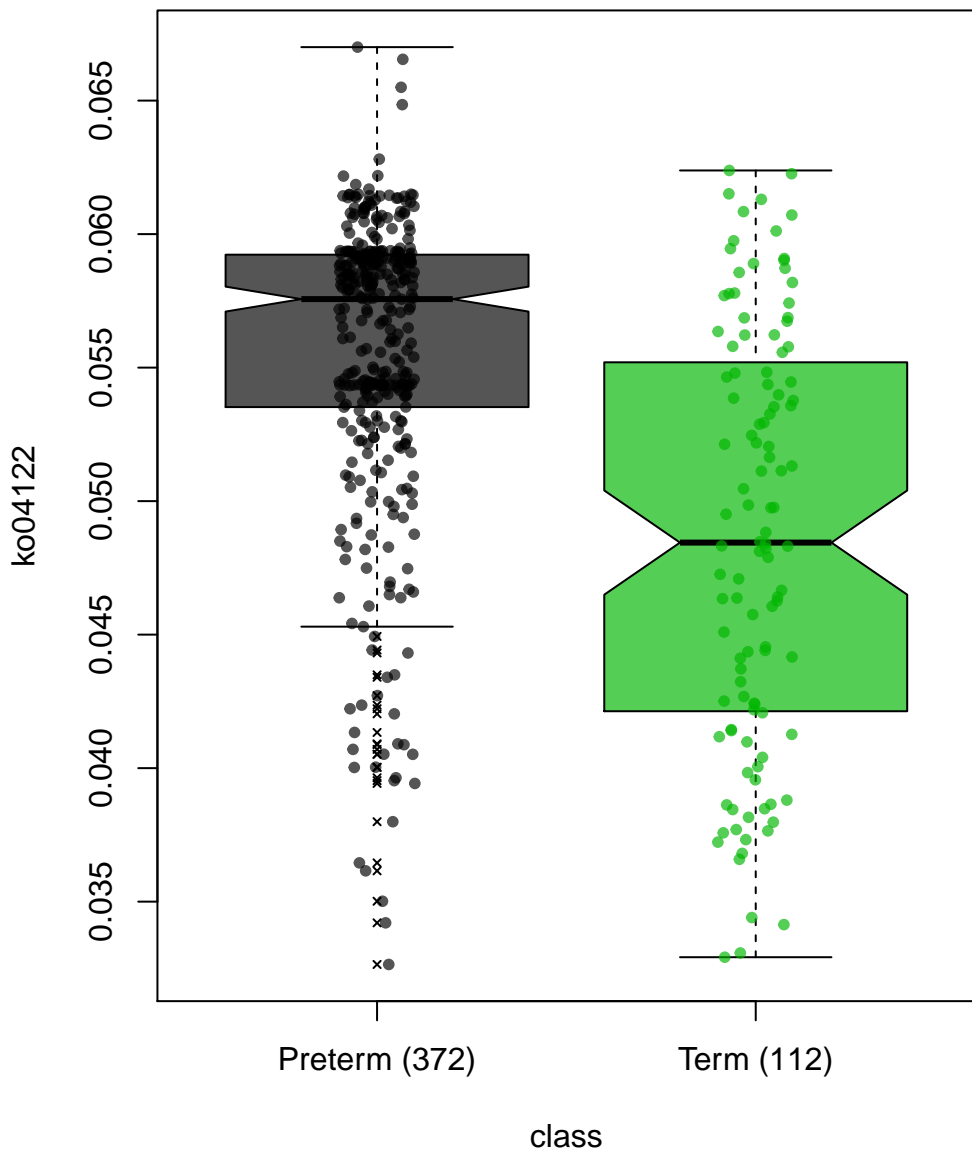
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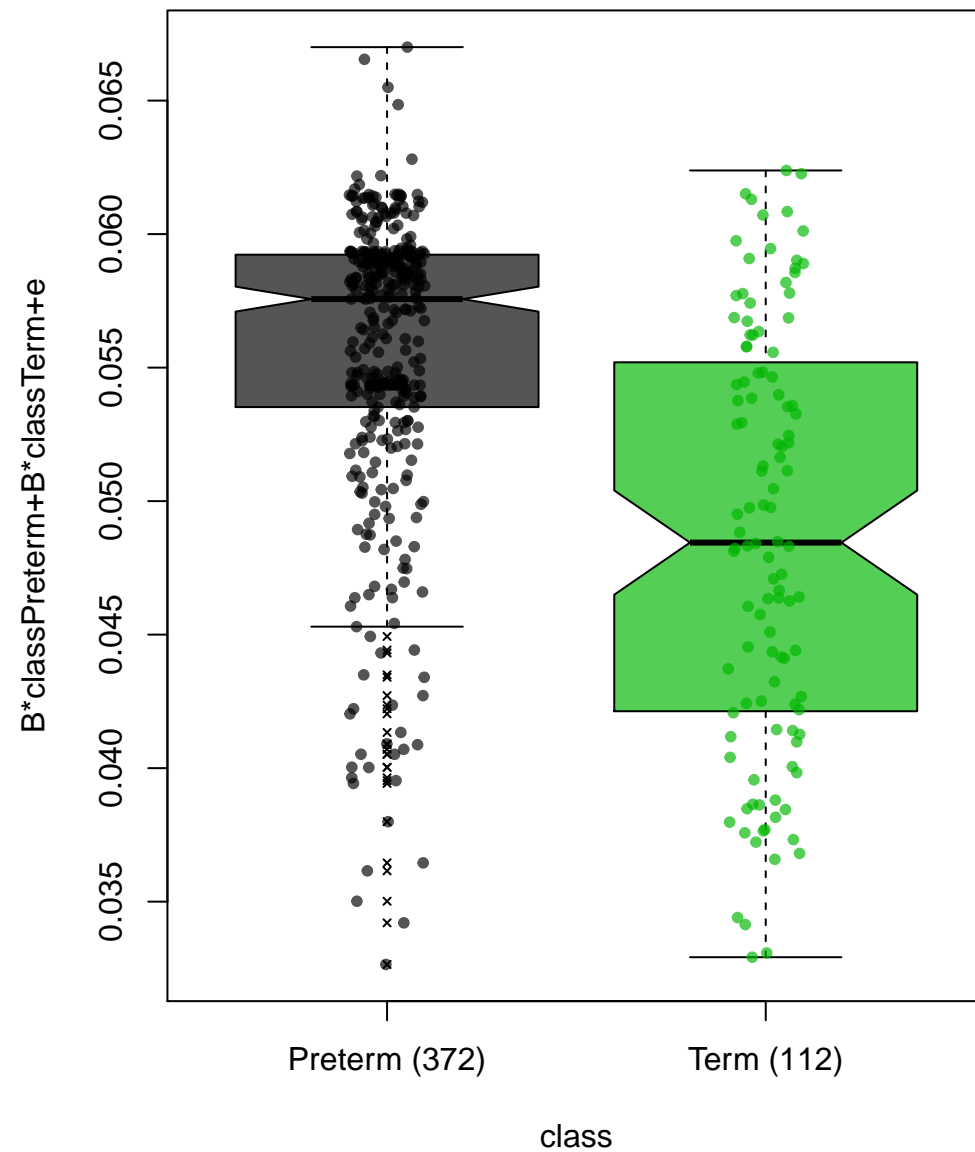
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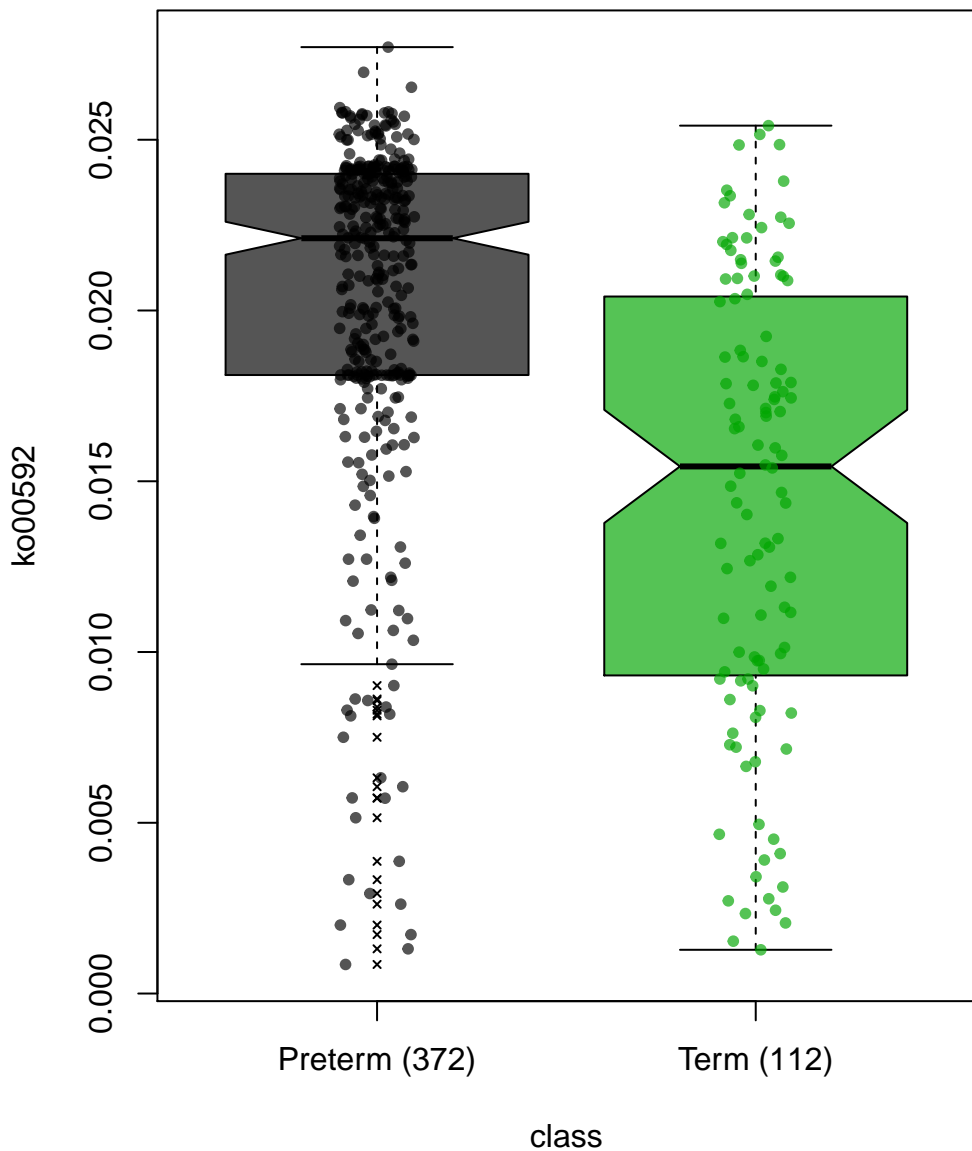
classTerm (−0.00681 sd 0.000676, p=8.63e−22, q=6.18e−21)



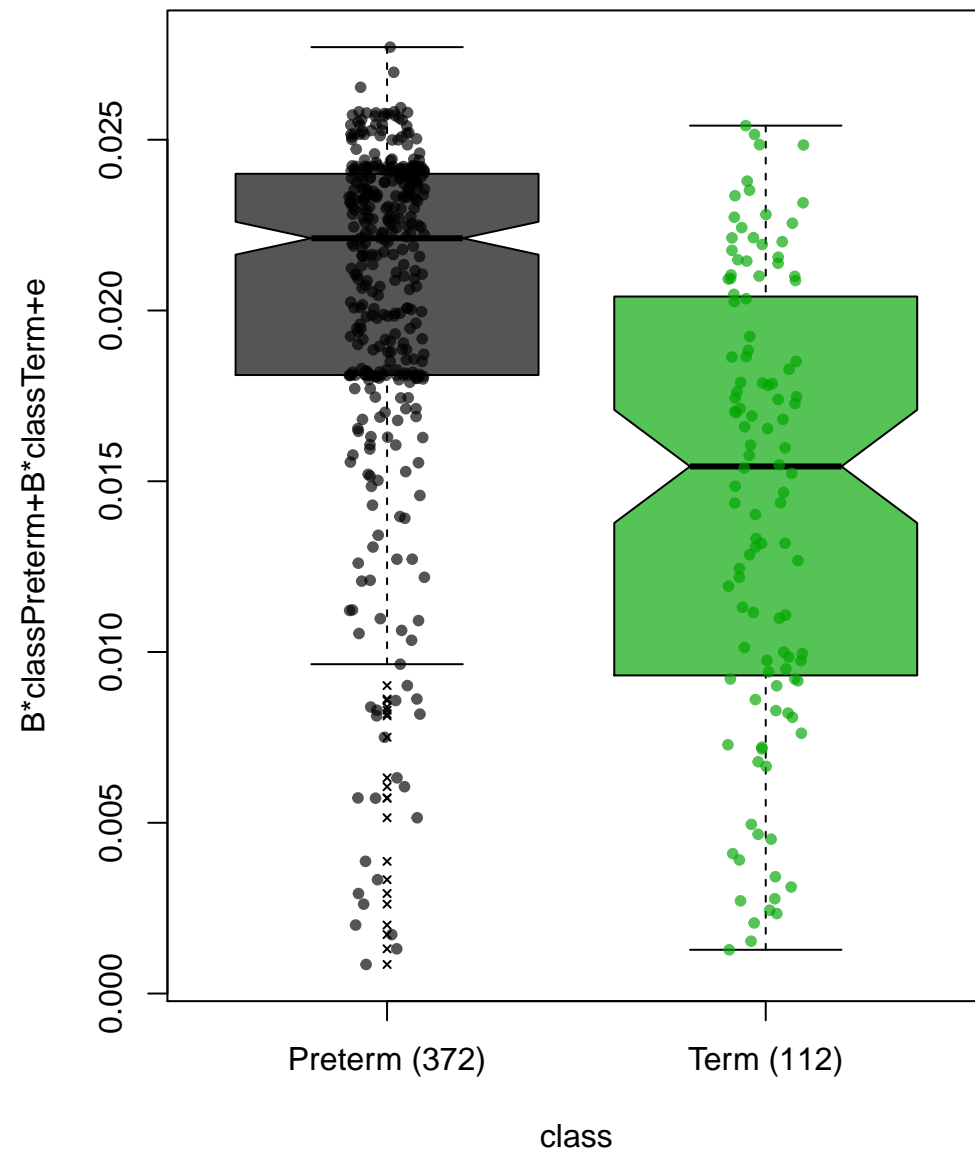
Partial Residual Plot



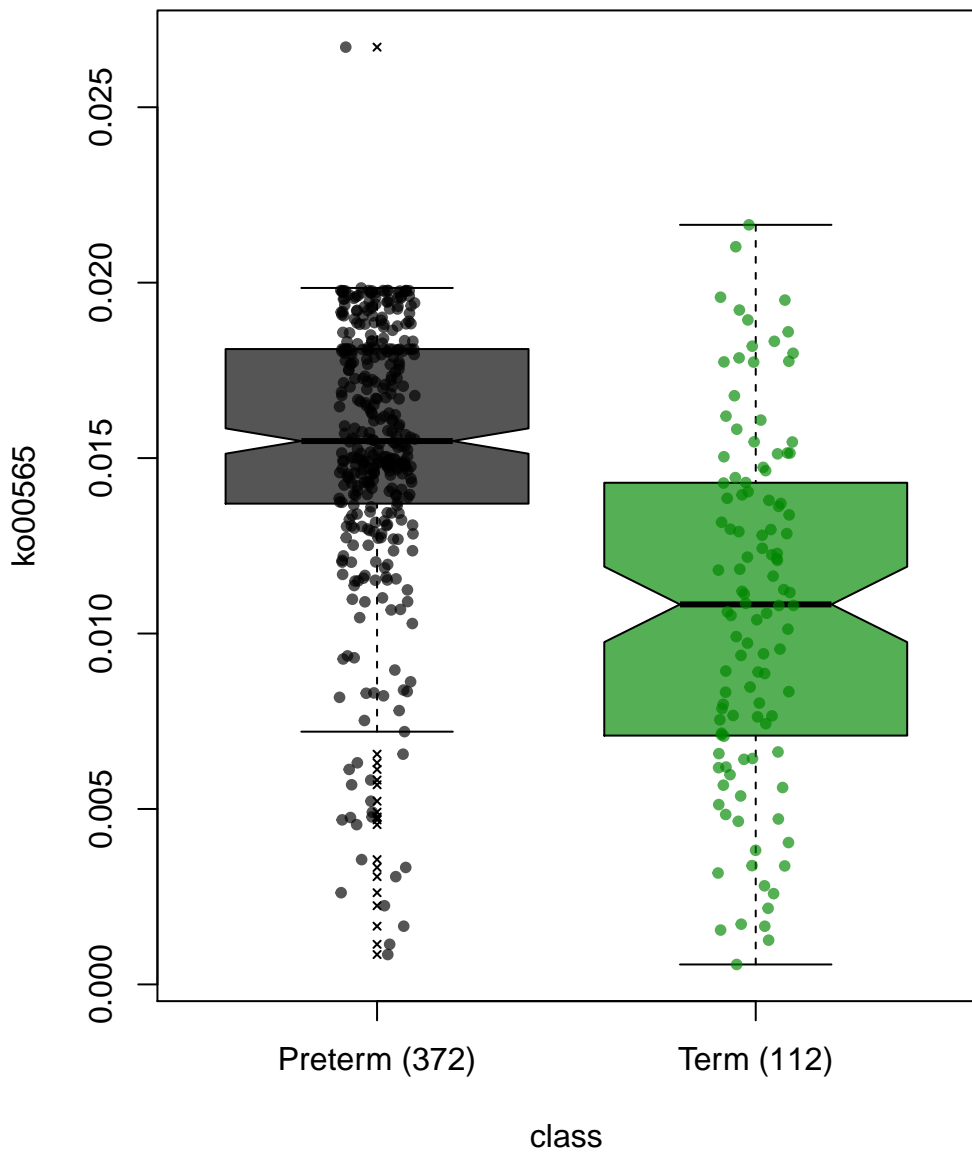
classTerm (−0.00593 sd 0.000589, p=9.01e−22, q=6.28e−21)



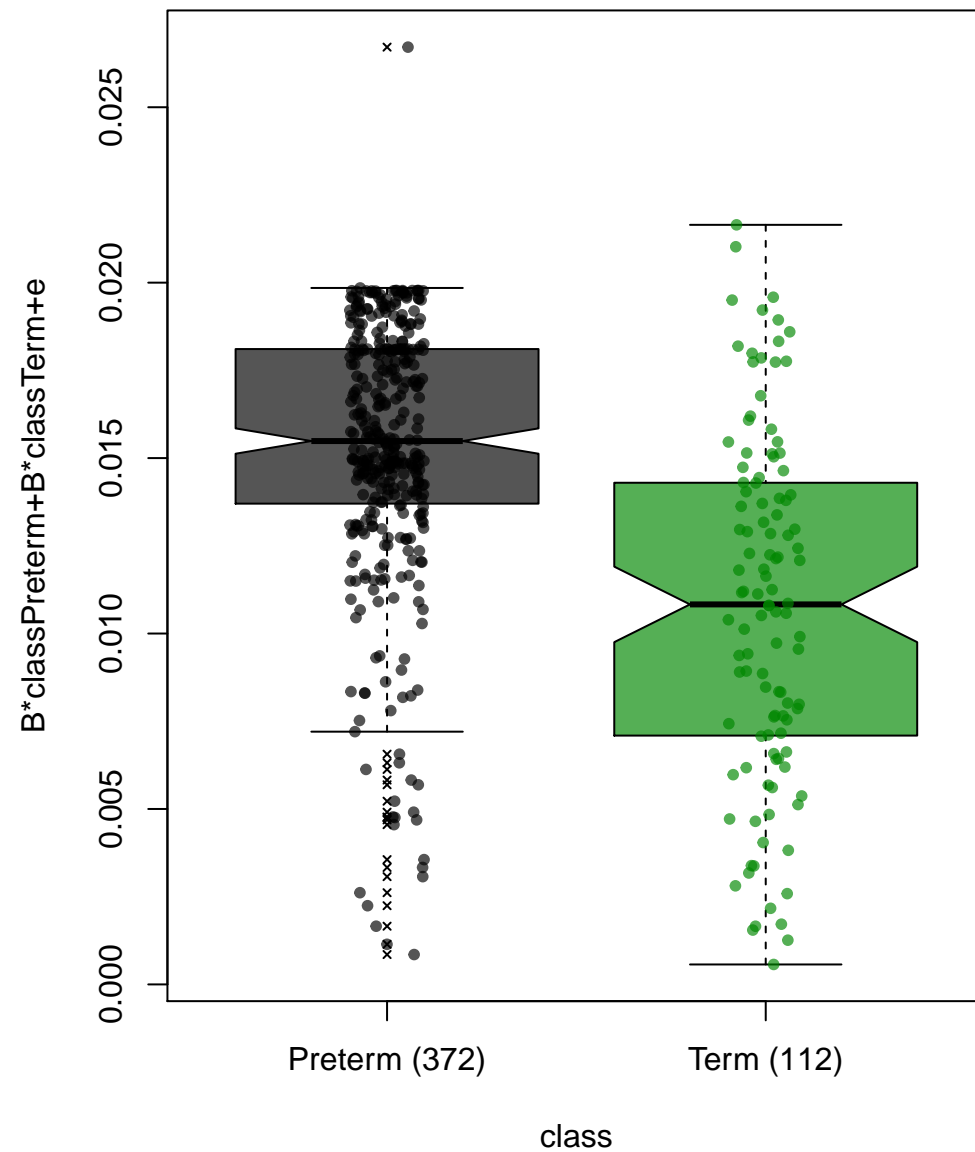
Partial Residual Plot



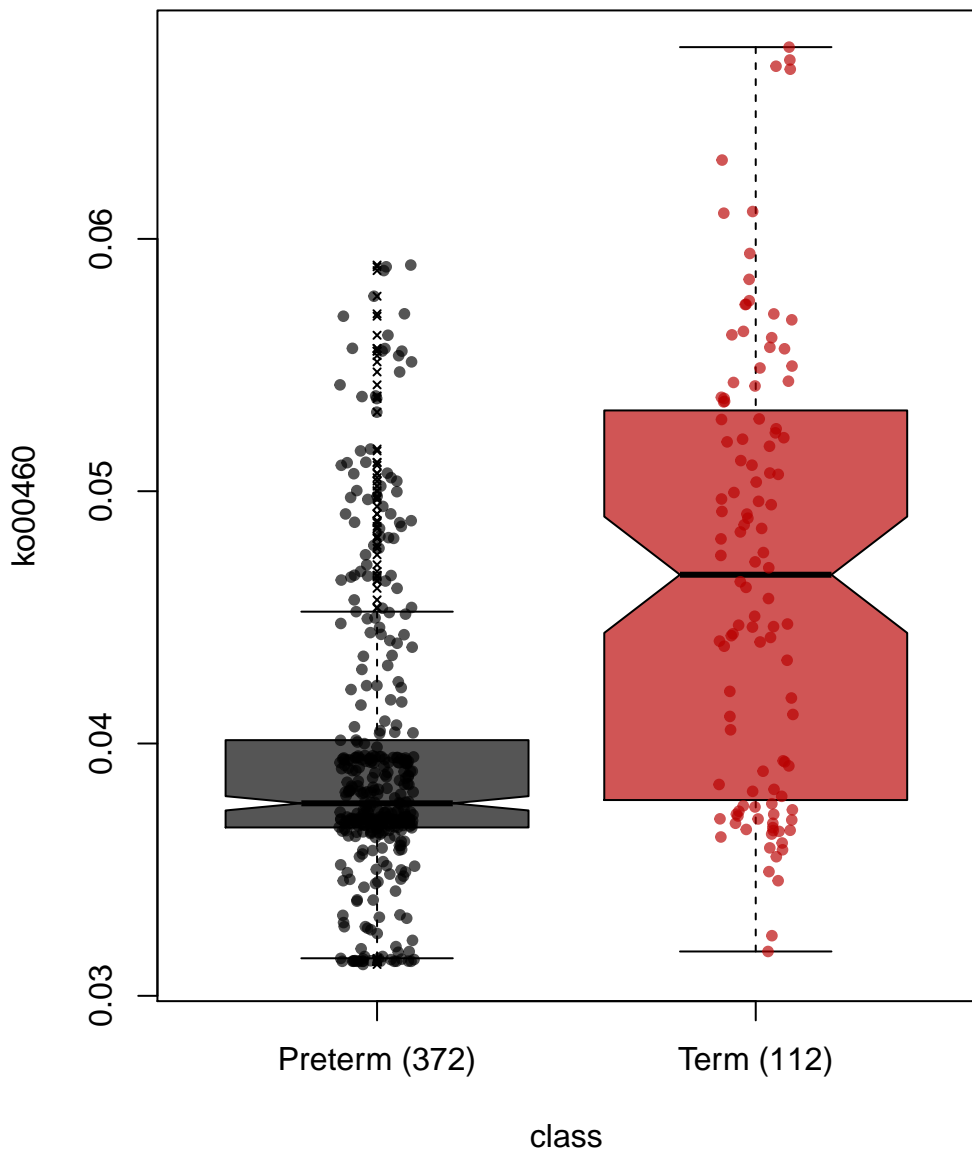
classTerm (−0.00452 sd 0.000449, p=9.56e−22, q=6.51e−21)



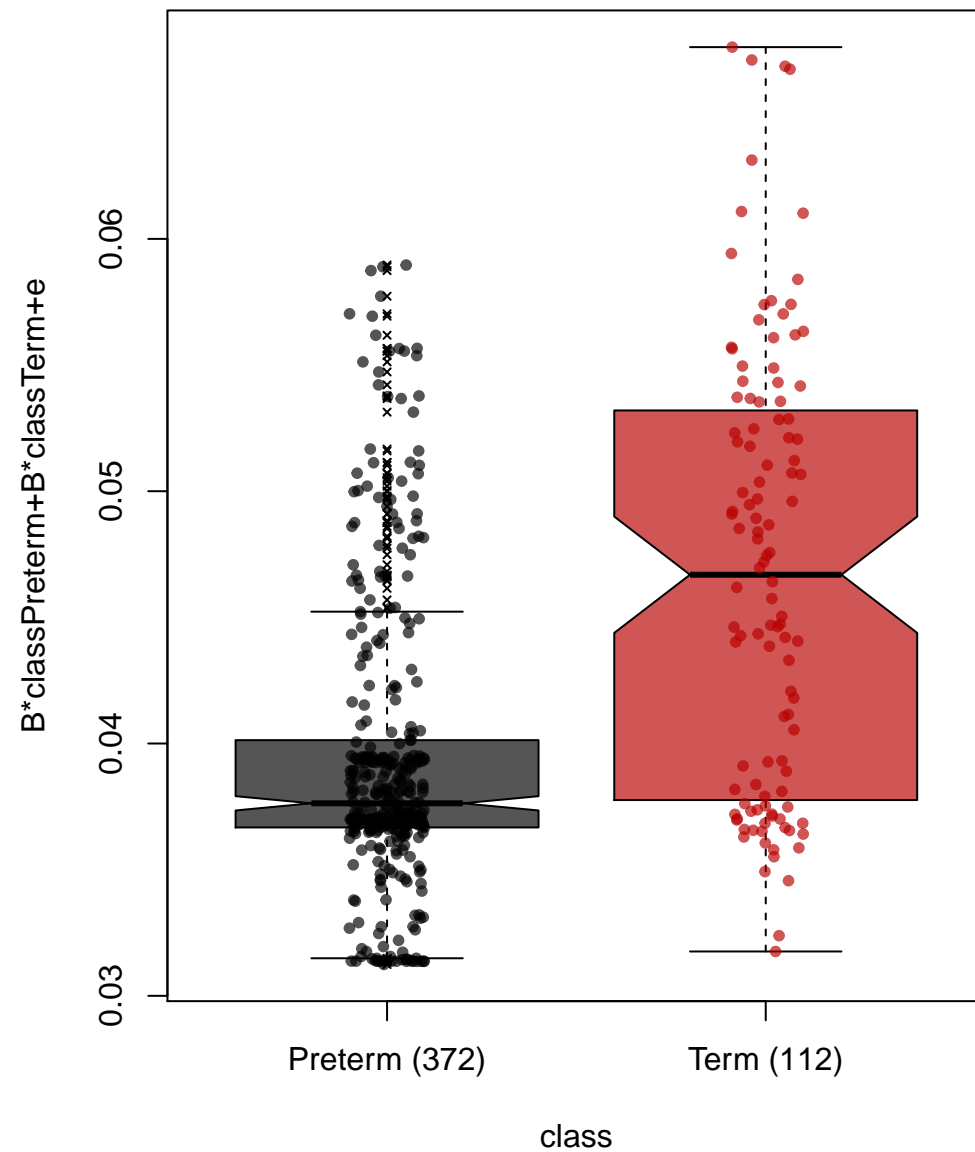
Partial Residual Plot



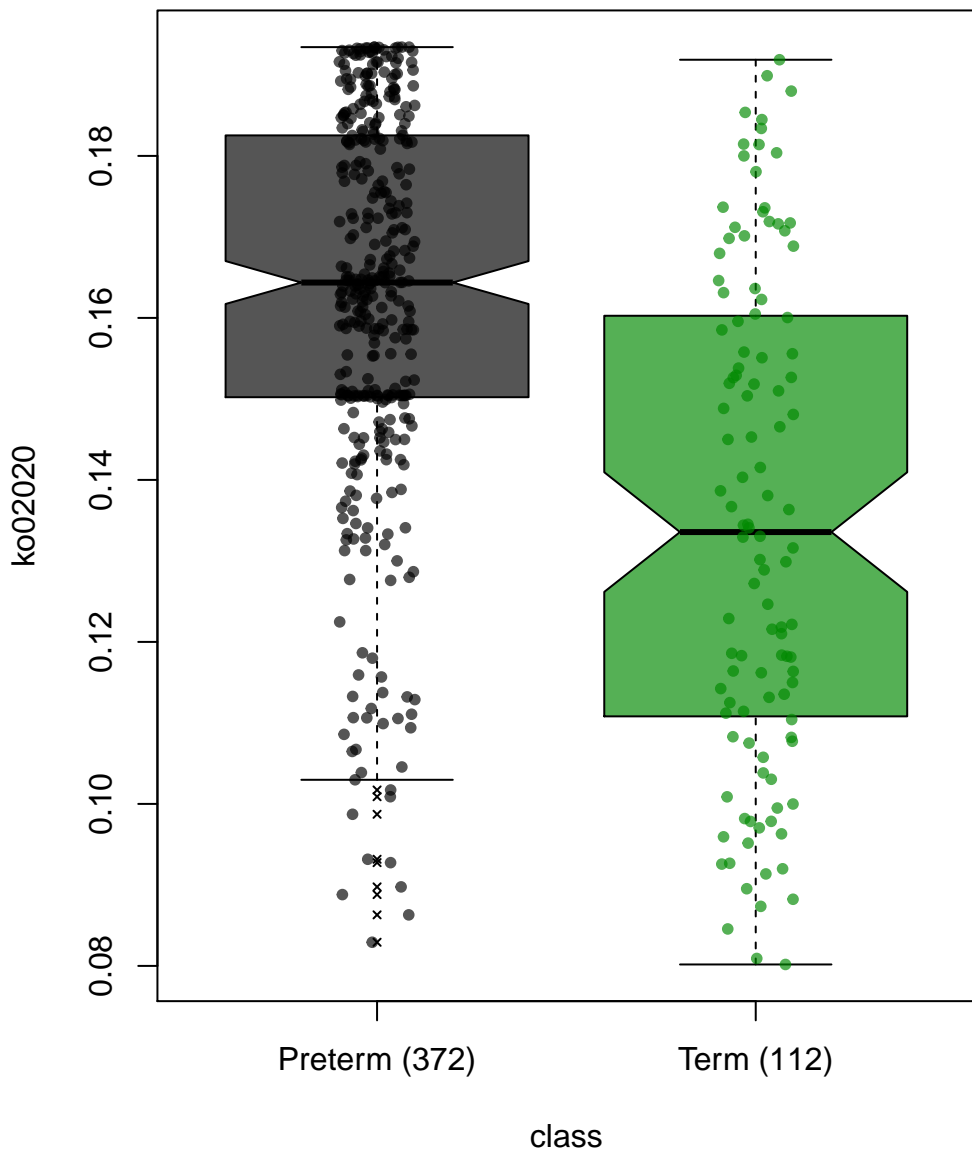
classTerm (0.00719 sd 0.000716, p=1.15e-21, q=7.62e-21)



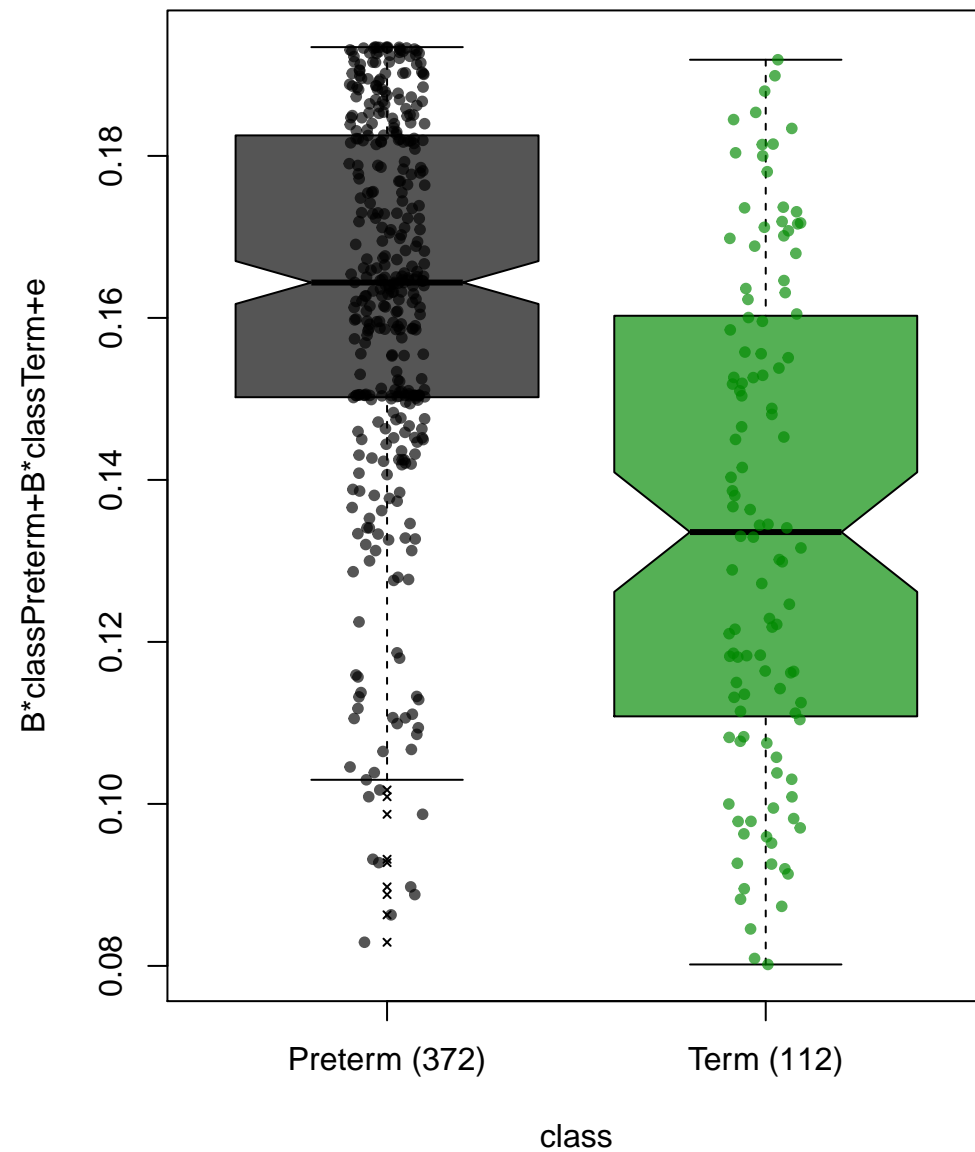
Partial Residual Plot



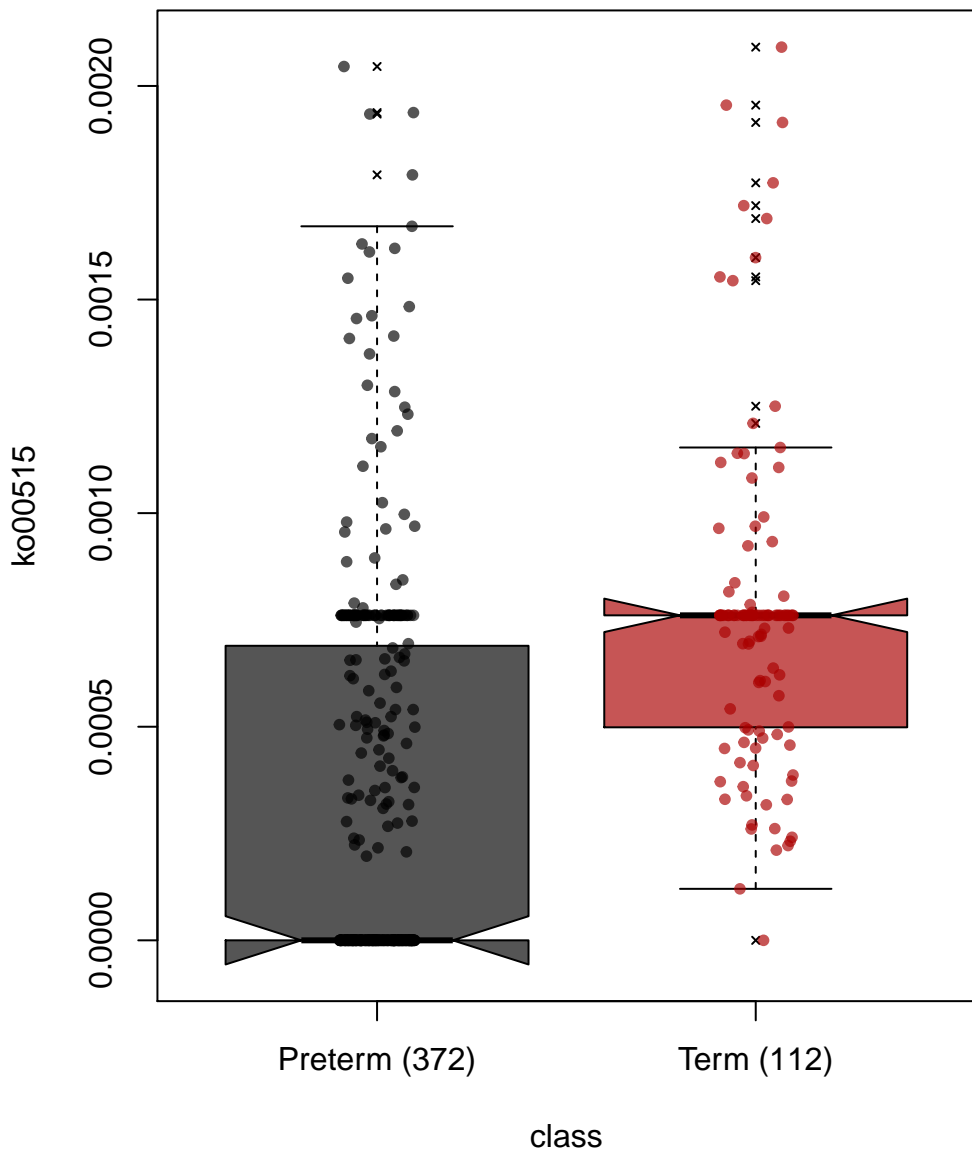
classTerm (-0.0271 sd 0.00278 , $p=1.53e-20$, $q=9.94e-20$)



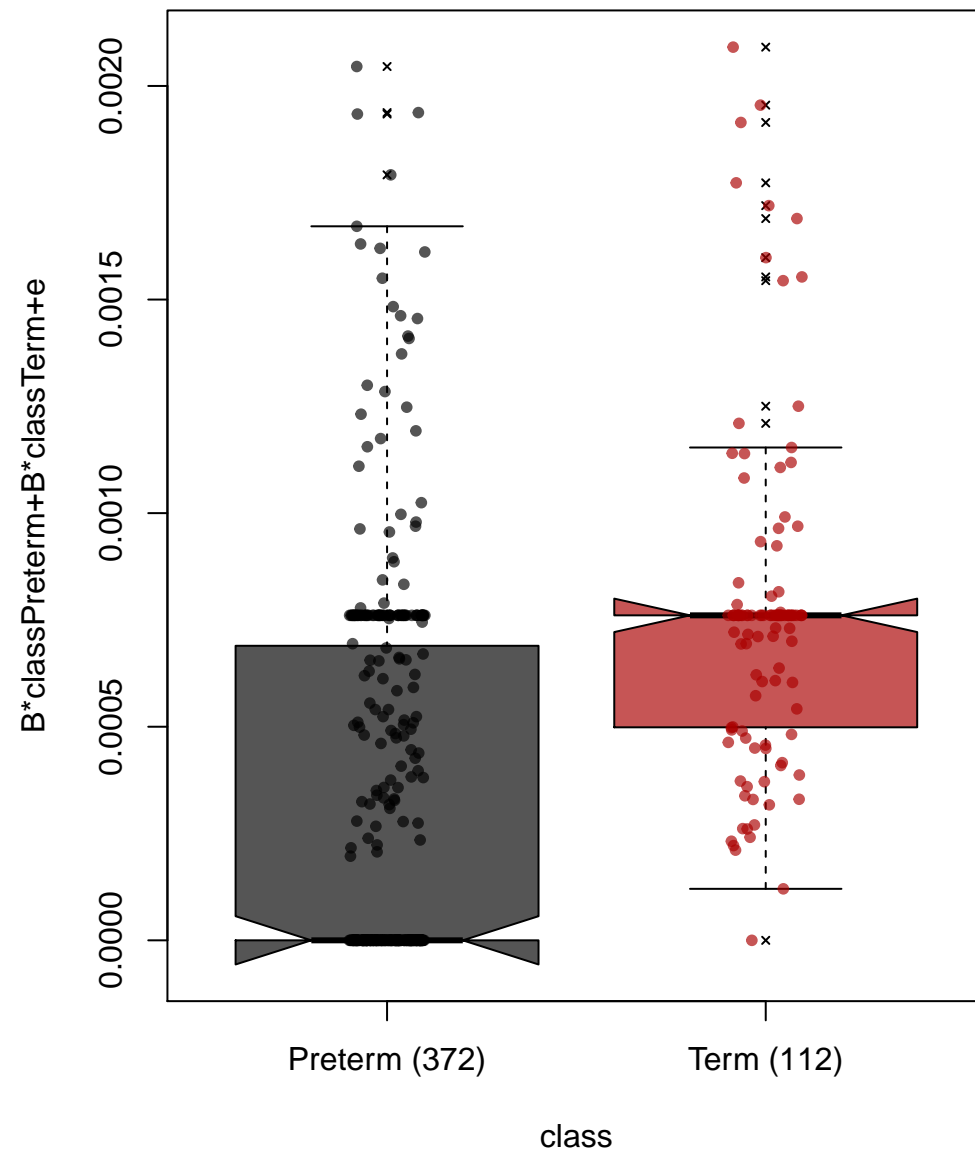
Partial Residual Plot



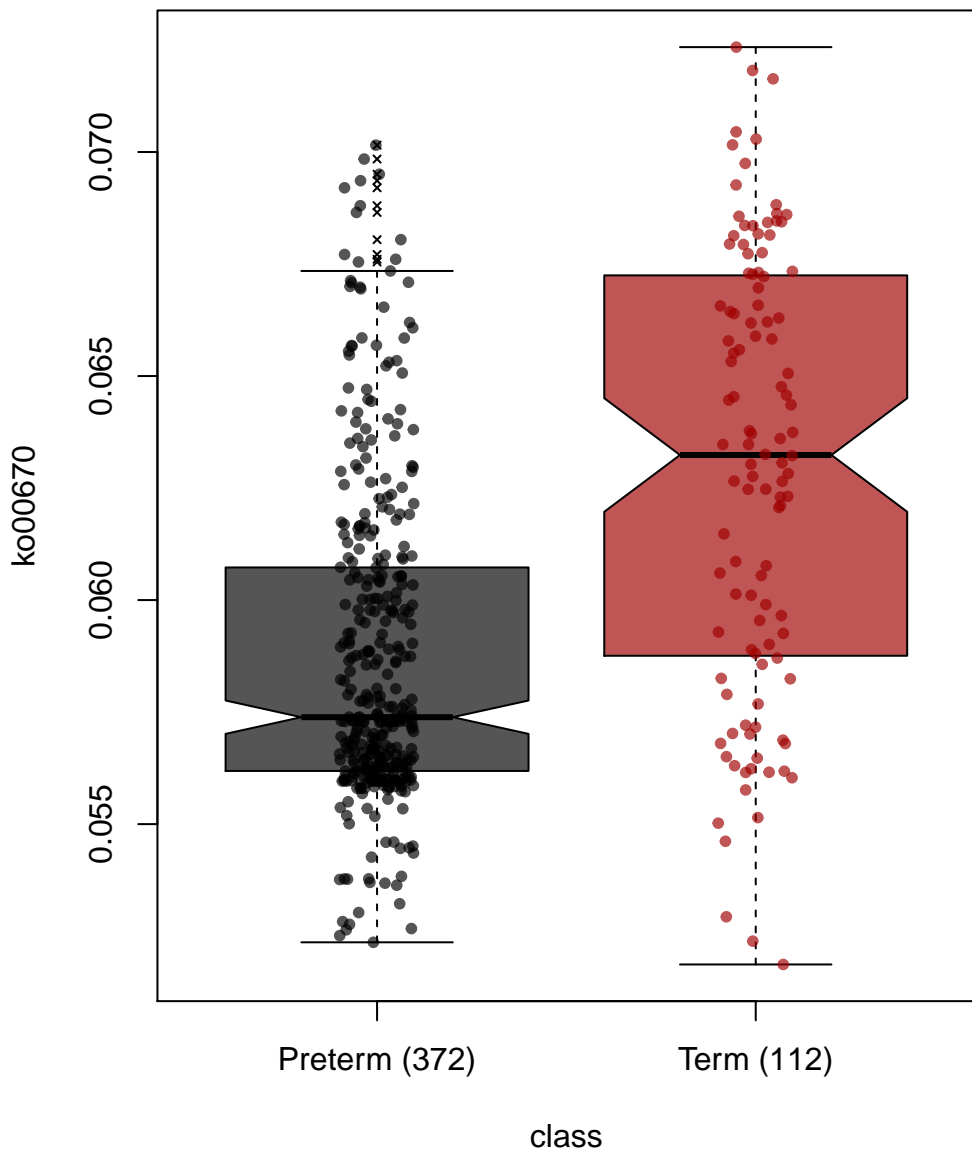
classTerm (0.000448 sd 4.63e-05, p=2.03e-20, q=1.29e-19)



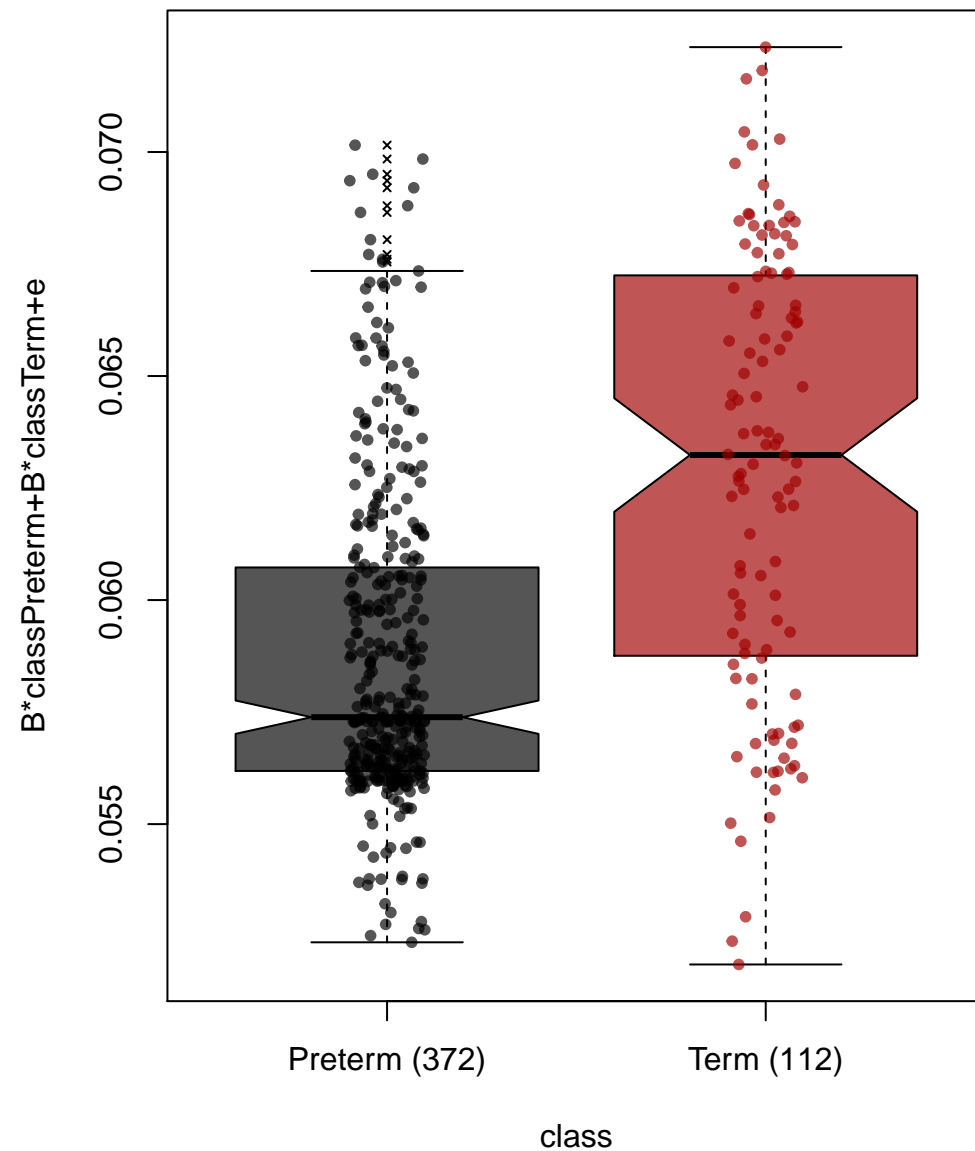
Partial Residual Plot



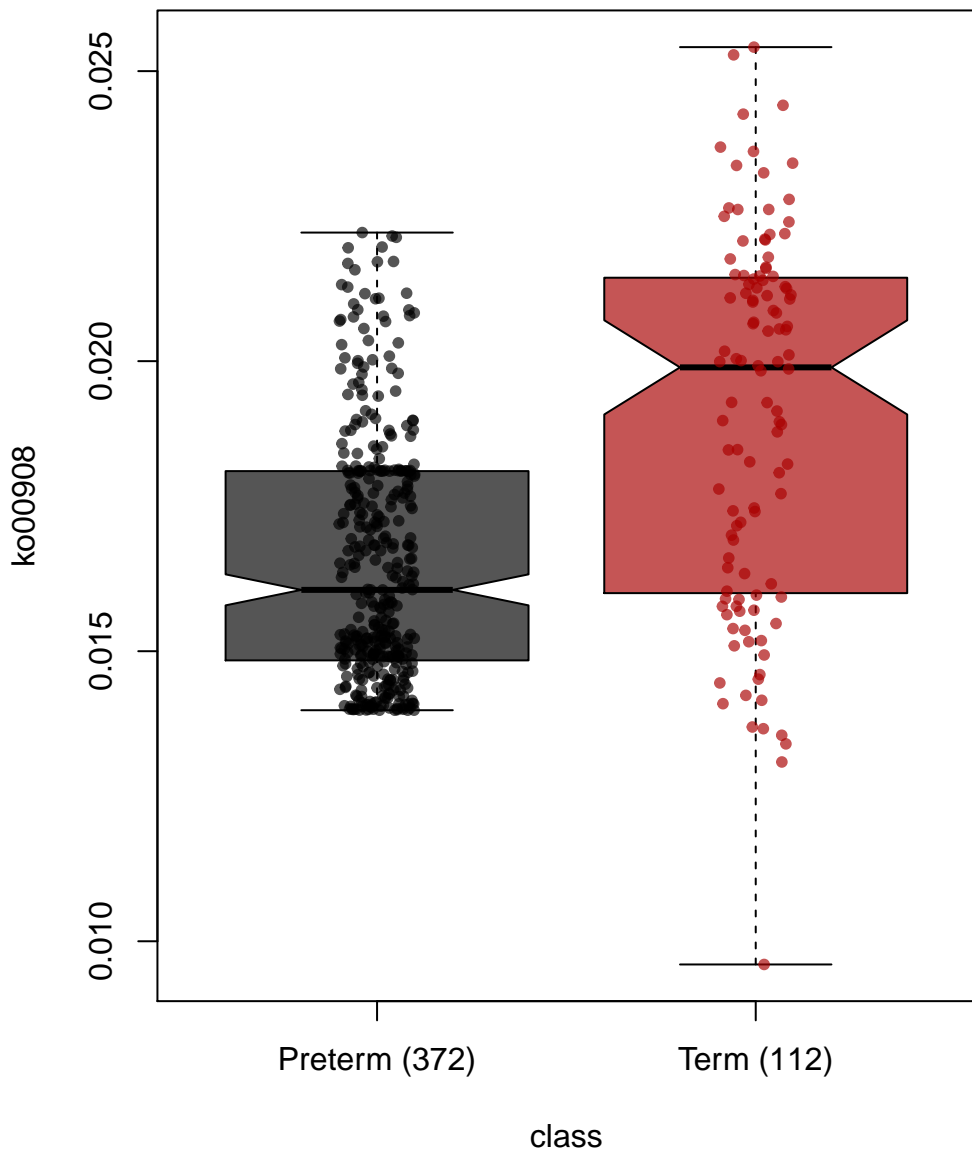
classTerm (0.00408 sd 0.000426, p=5.51e-20, q=3.42e-19)



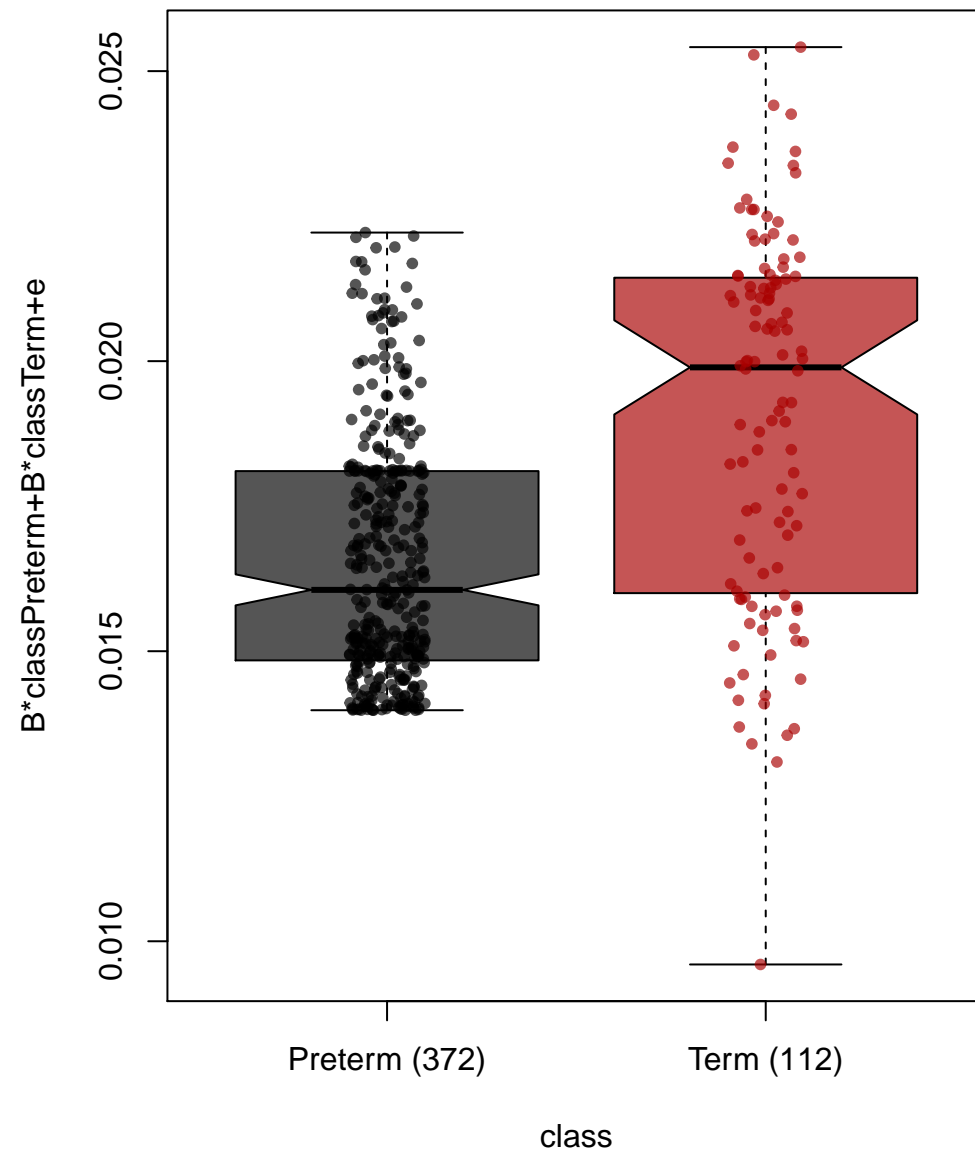
Partial Residual Plot



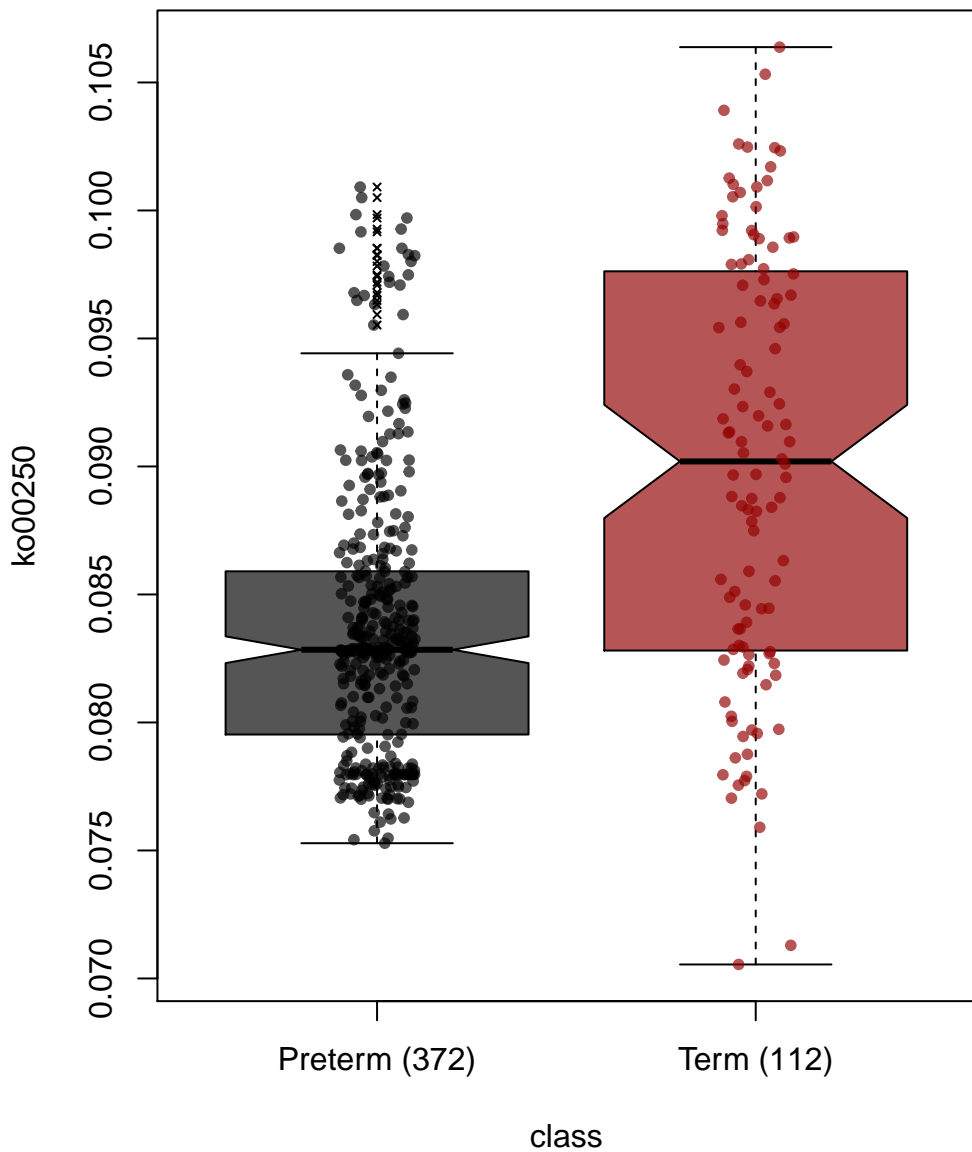
classTerm (0.00247 sd 0.000261, p=1.22e-19, q=7.4e-19)



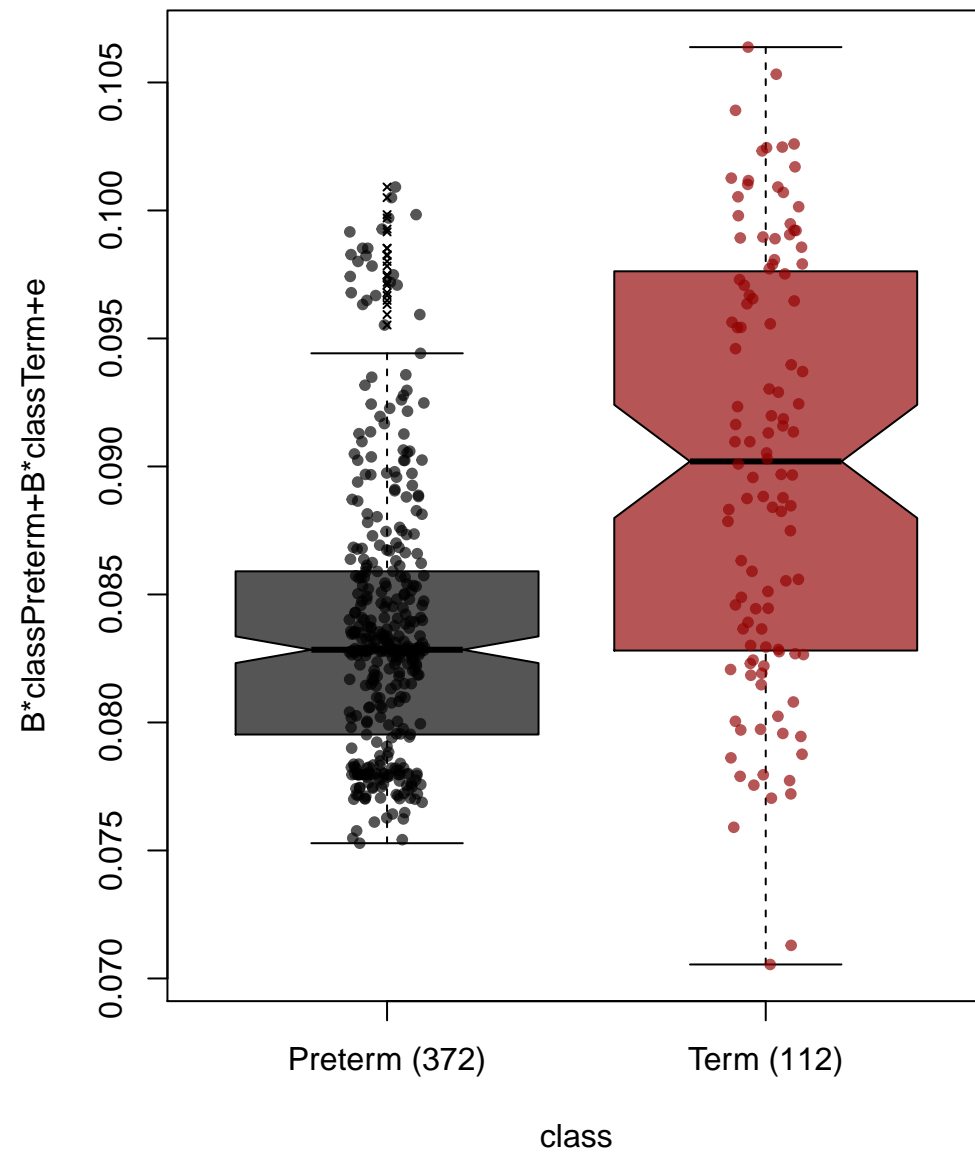
Partial Residual Plot



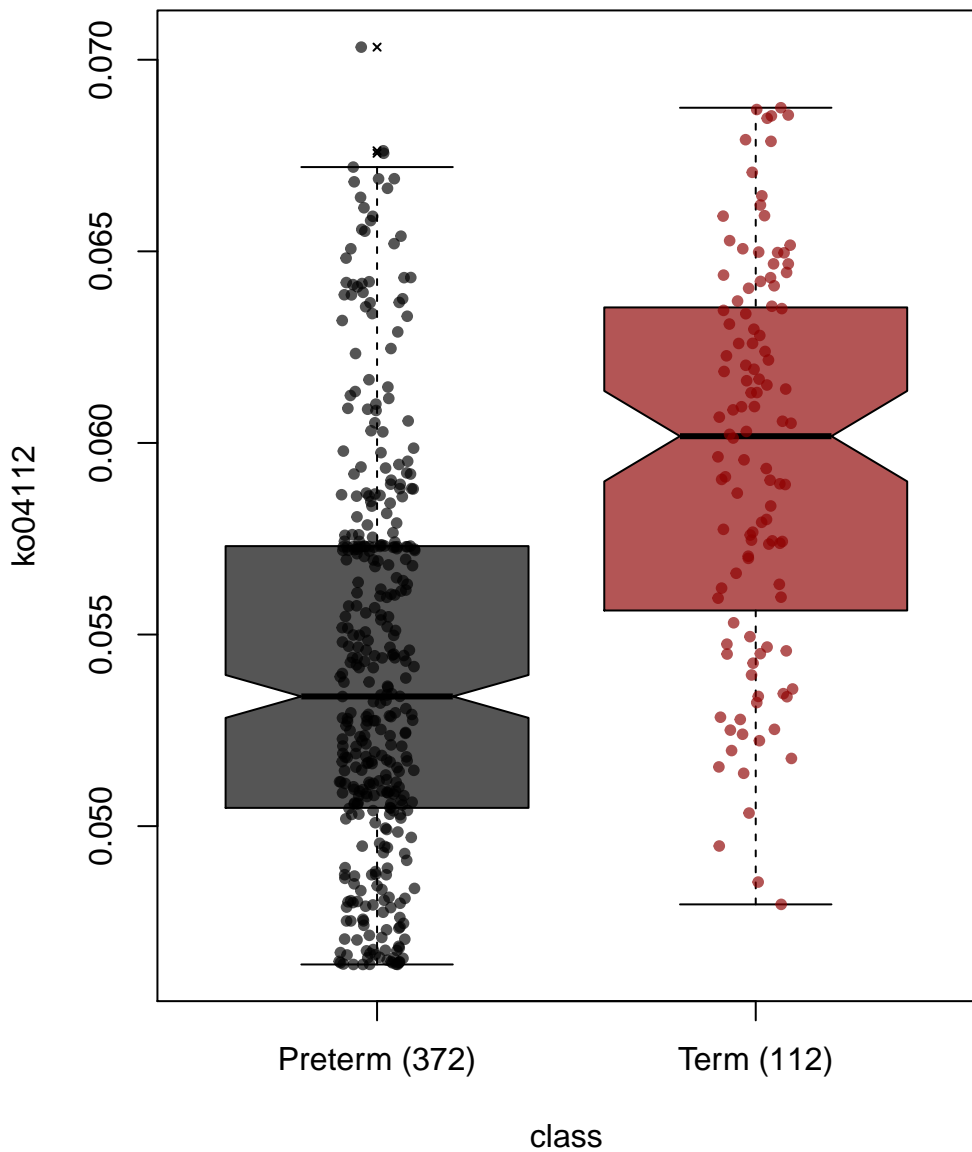
classTerm (0.00632 sd 0.000671, p=1.89e-19, q=1.12e-18)



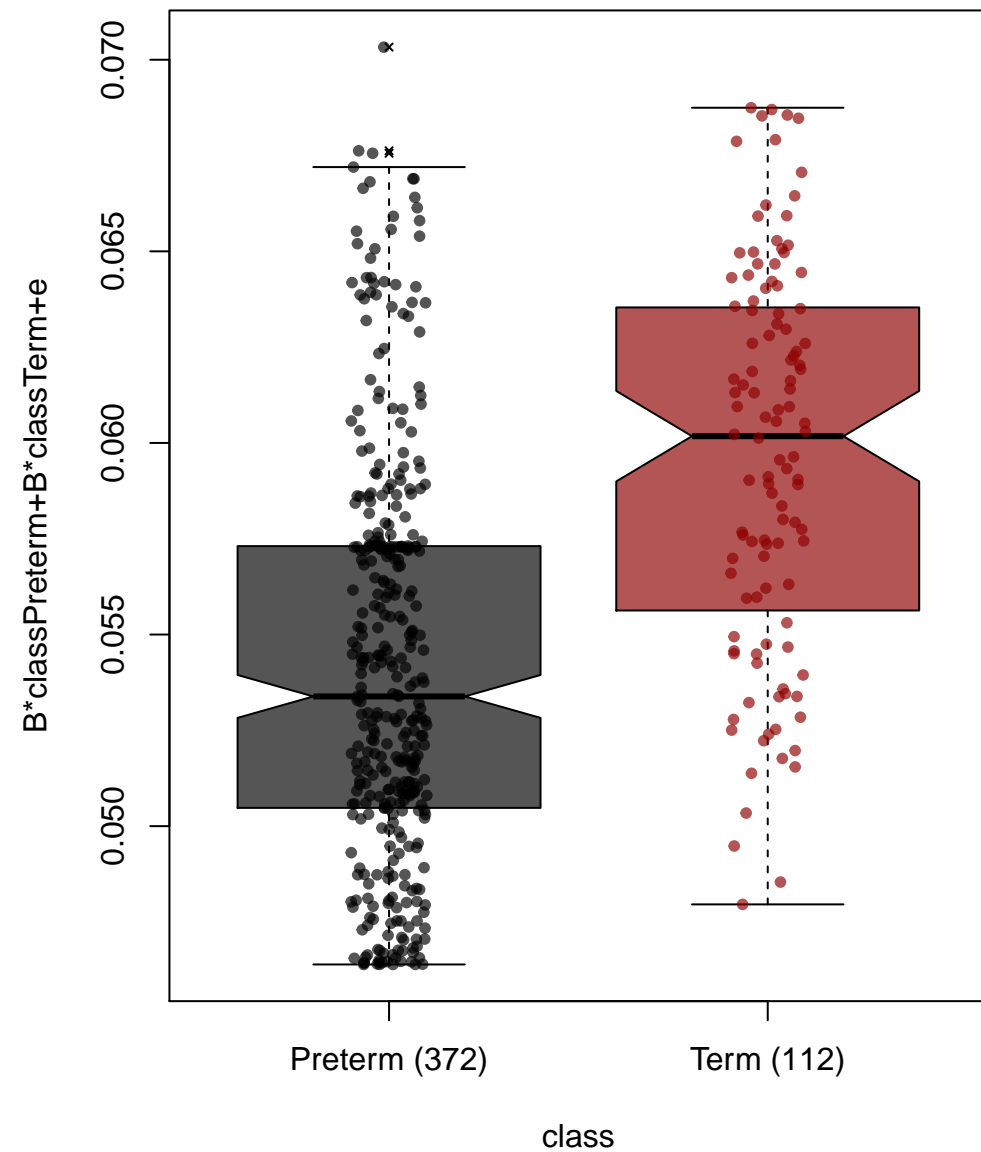
Partial Residual Plot



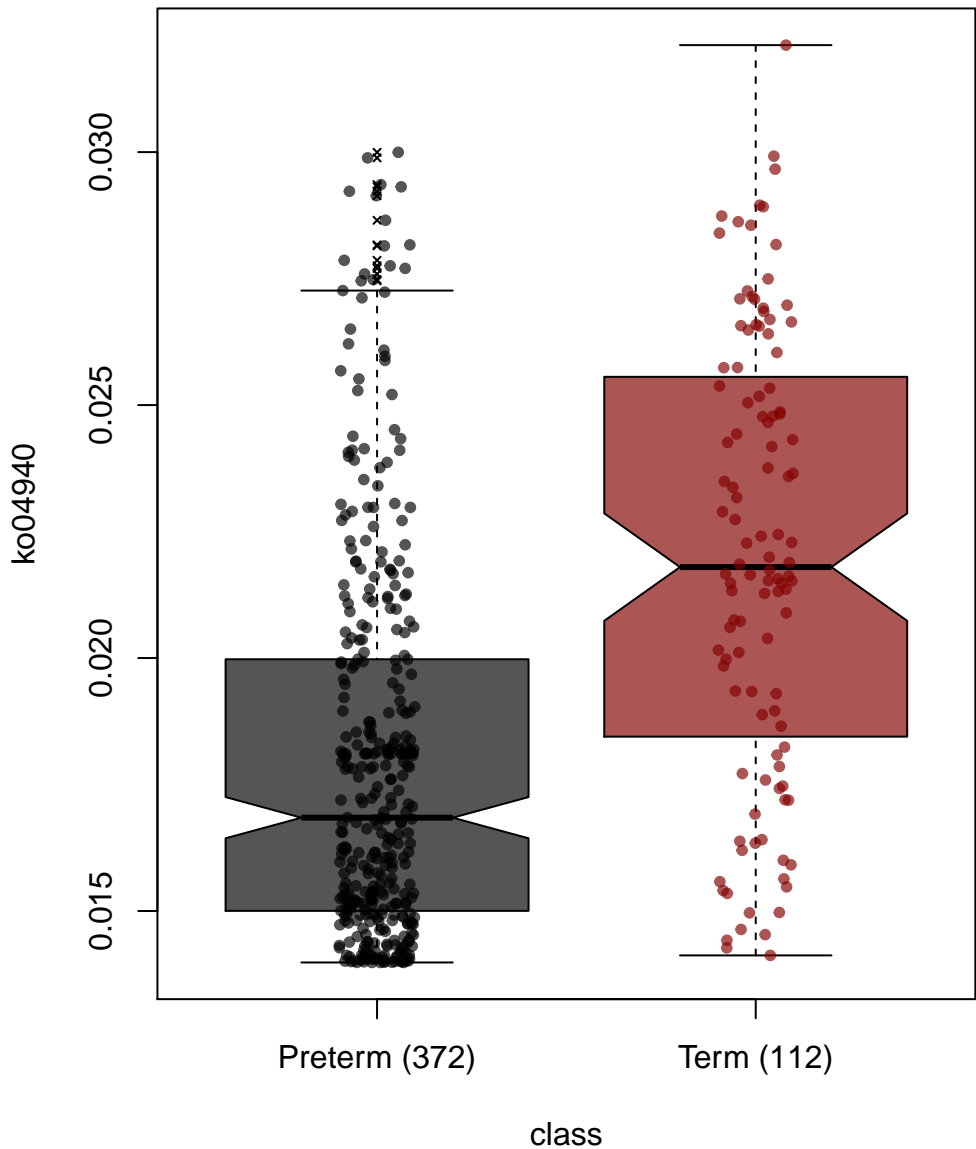
classTerm (0.00535 sd 0.000569, p=2.28e-19, q=1.3e-18)



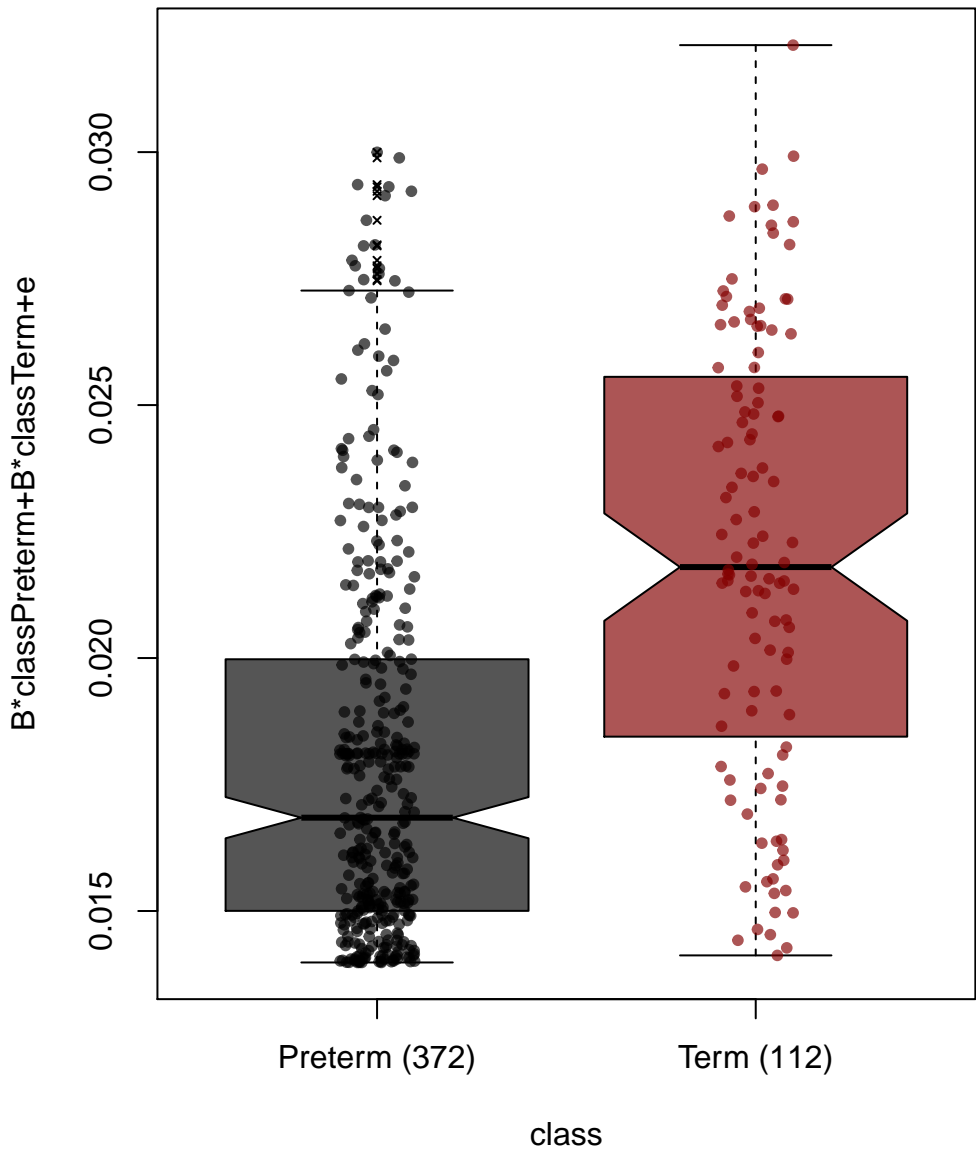
Partial Residual Plot



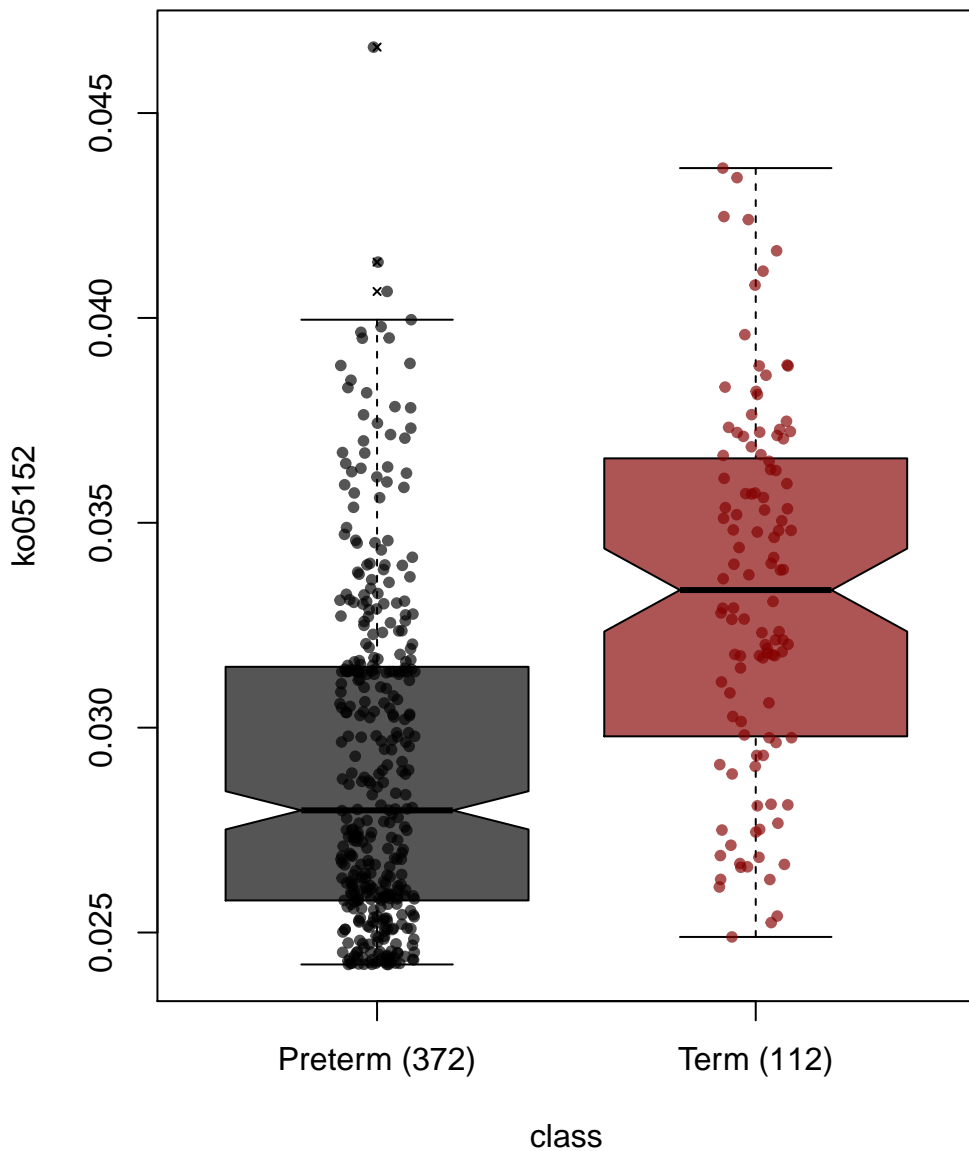
classTerm (0.00401 sd 0.000426, p=2.28e-19, q=1.3e-18)



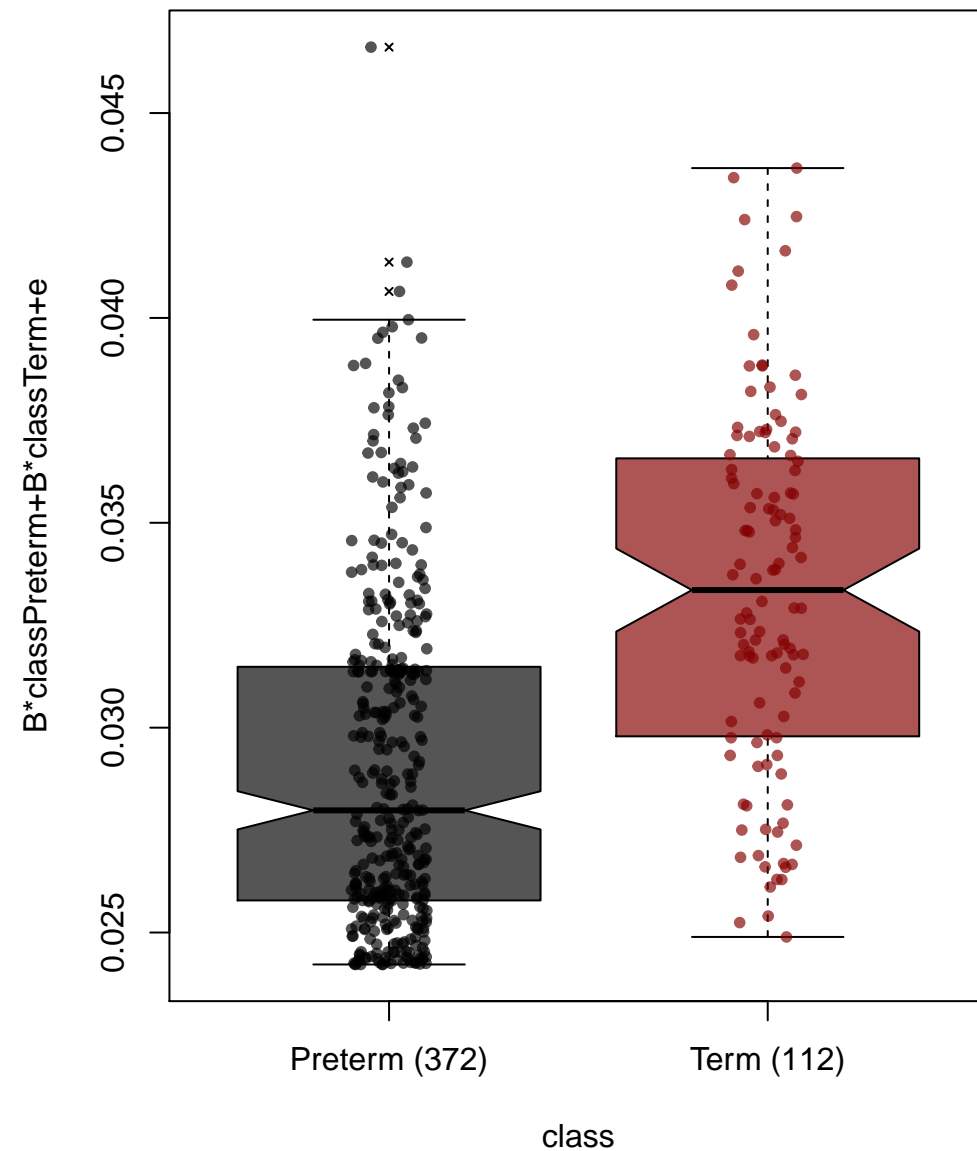
Partial Residual Plot



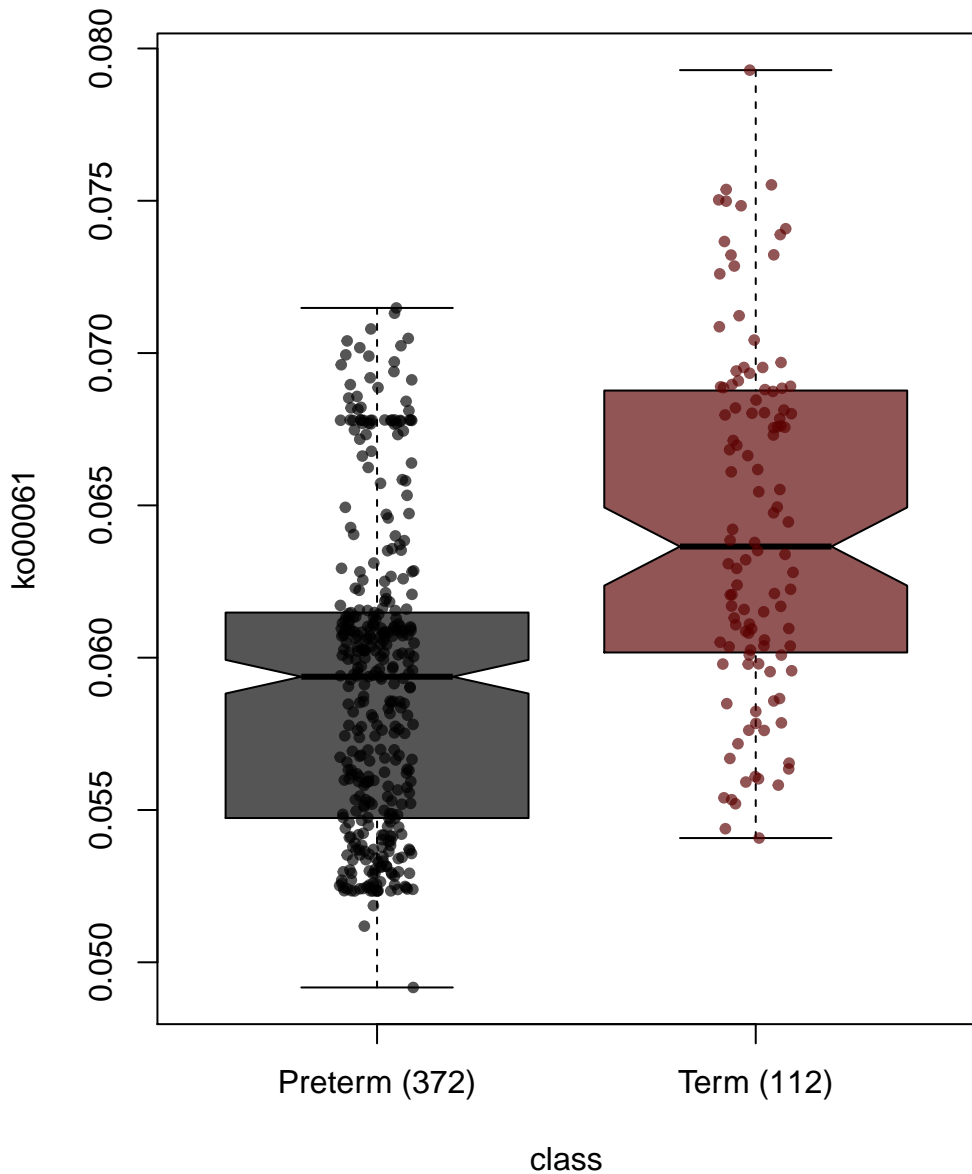
classTerm (0.0042 sd 0.000451, p=4.84e-19, q=2.7e-18)



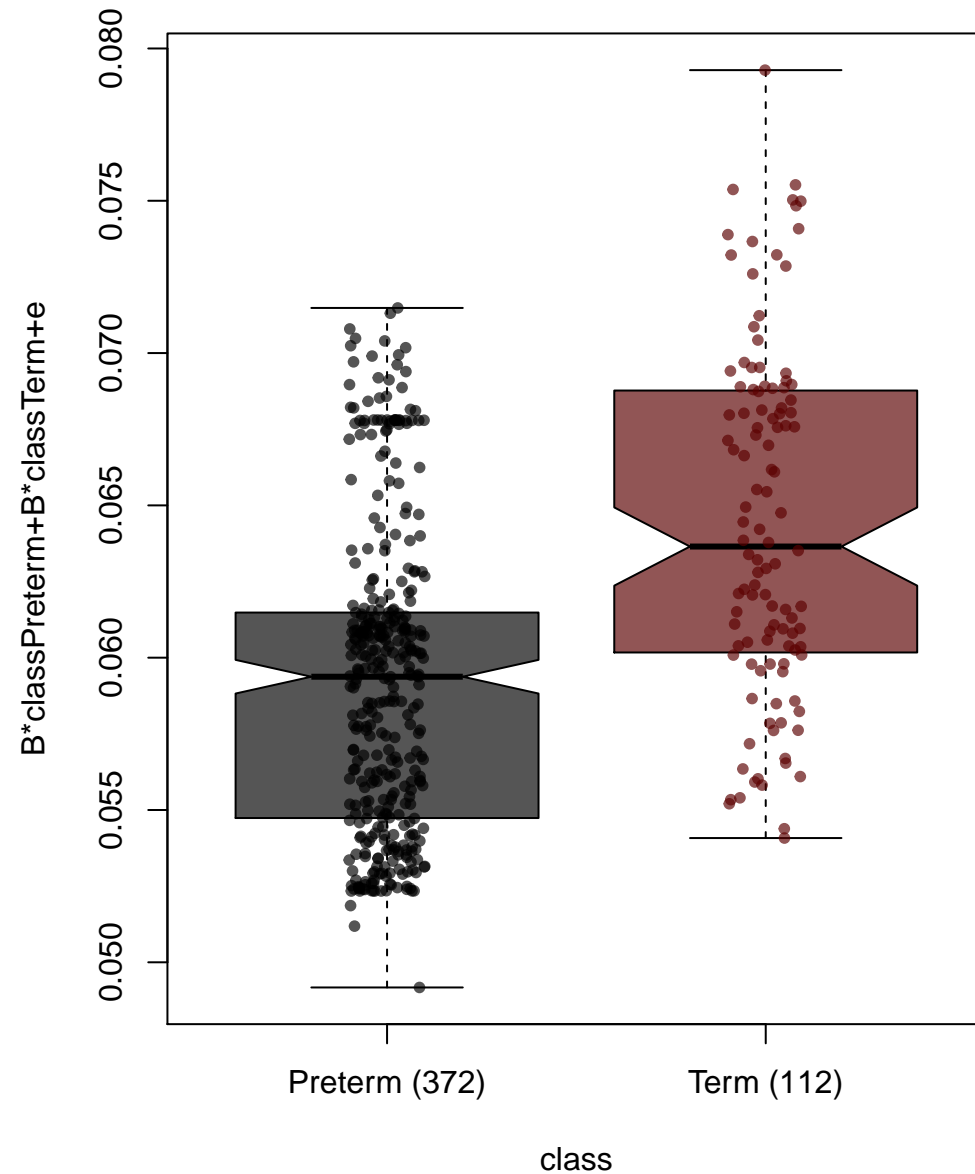
Partial Residual Plot



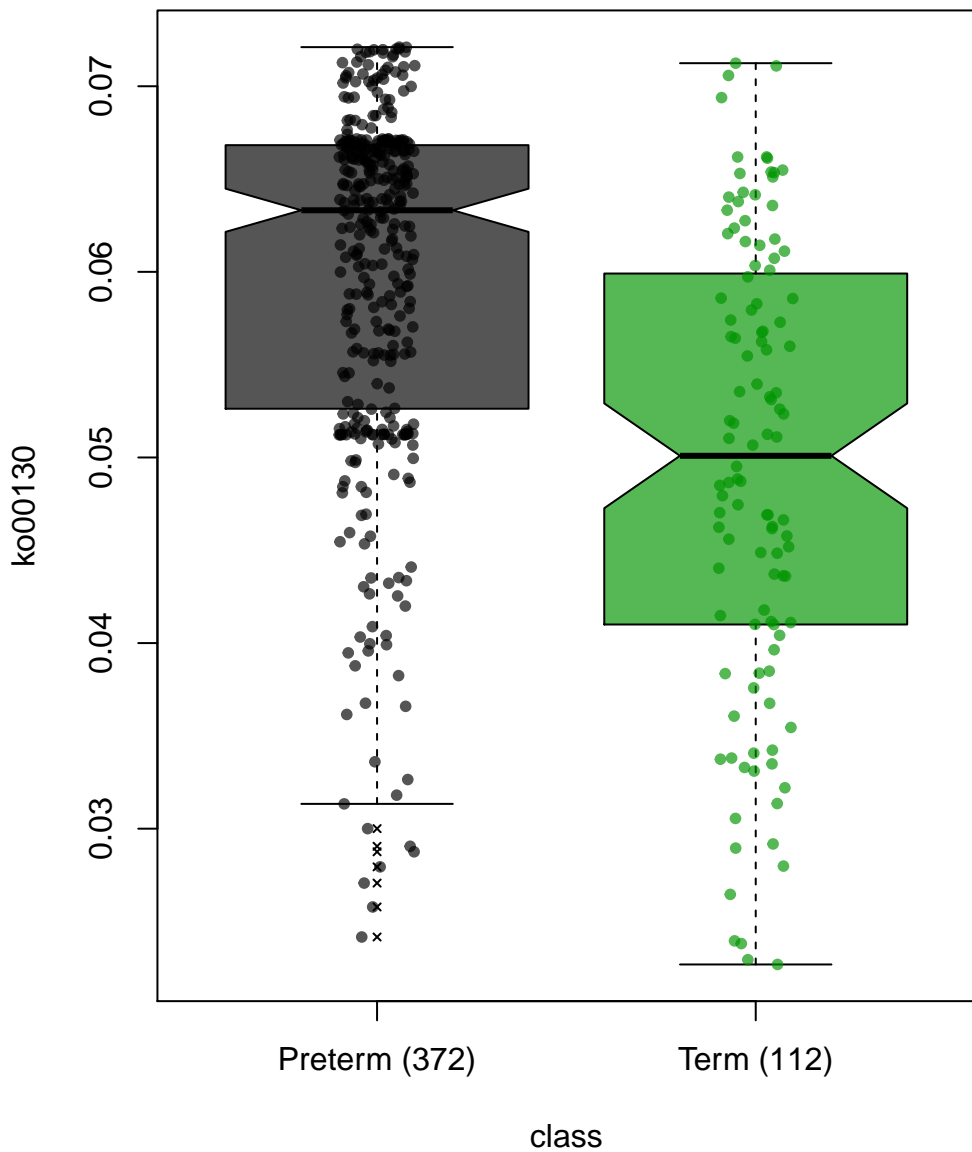
classTerm (0.00521 sd 0.000564, p=8.72e-19, q=4.77e-18)



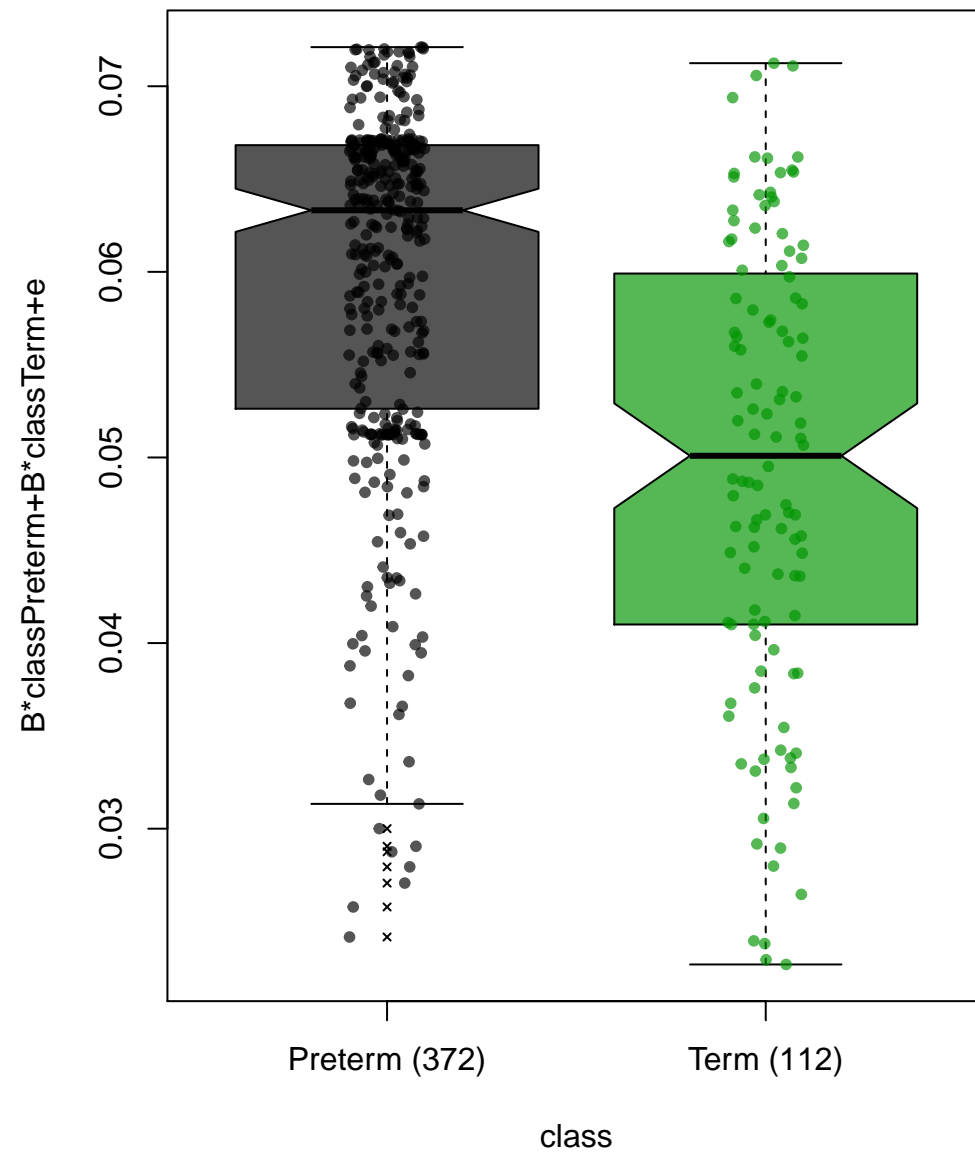
Partial Residual Plot



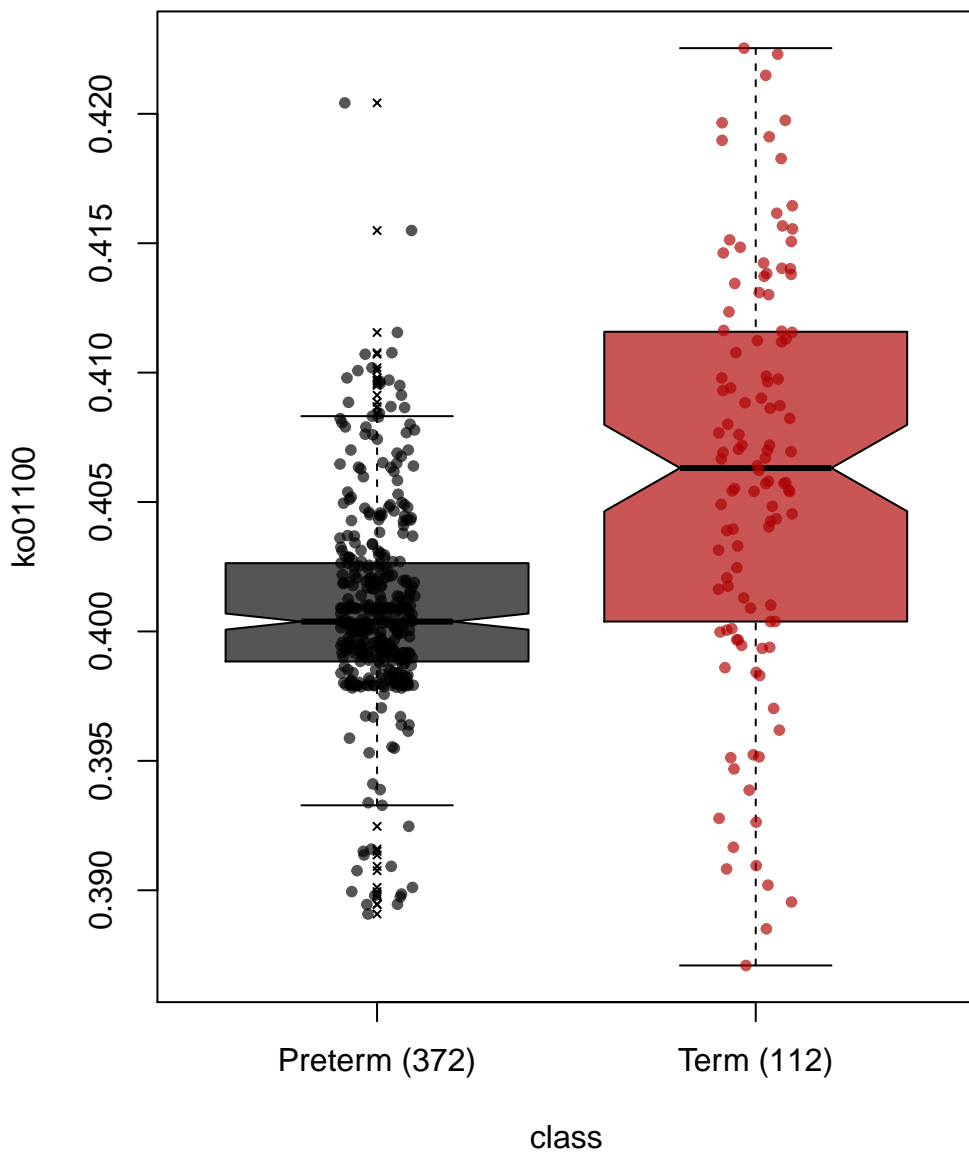
classTerm (-0.0103 sd 0.00112 , $p=1.09e-18$, $q=5.83e-18$)



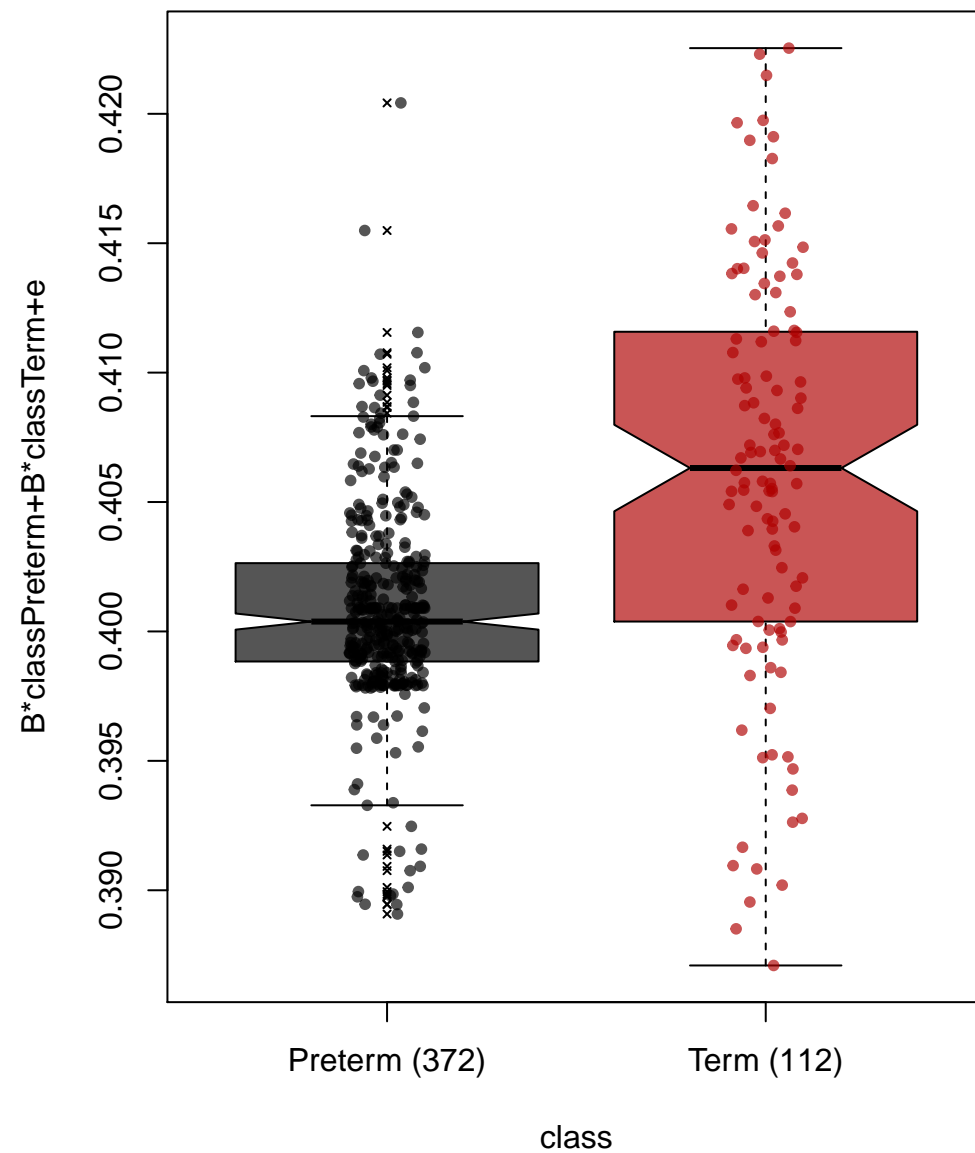
Partial Residual Plot



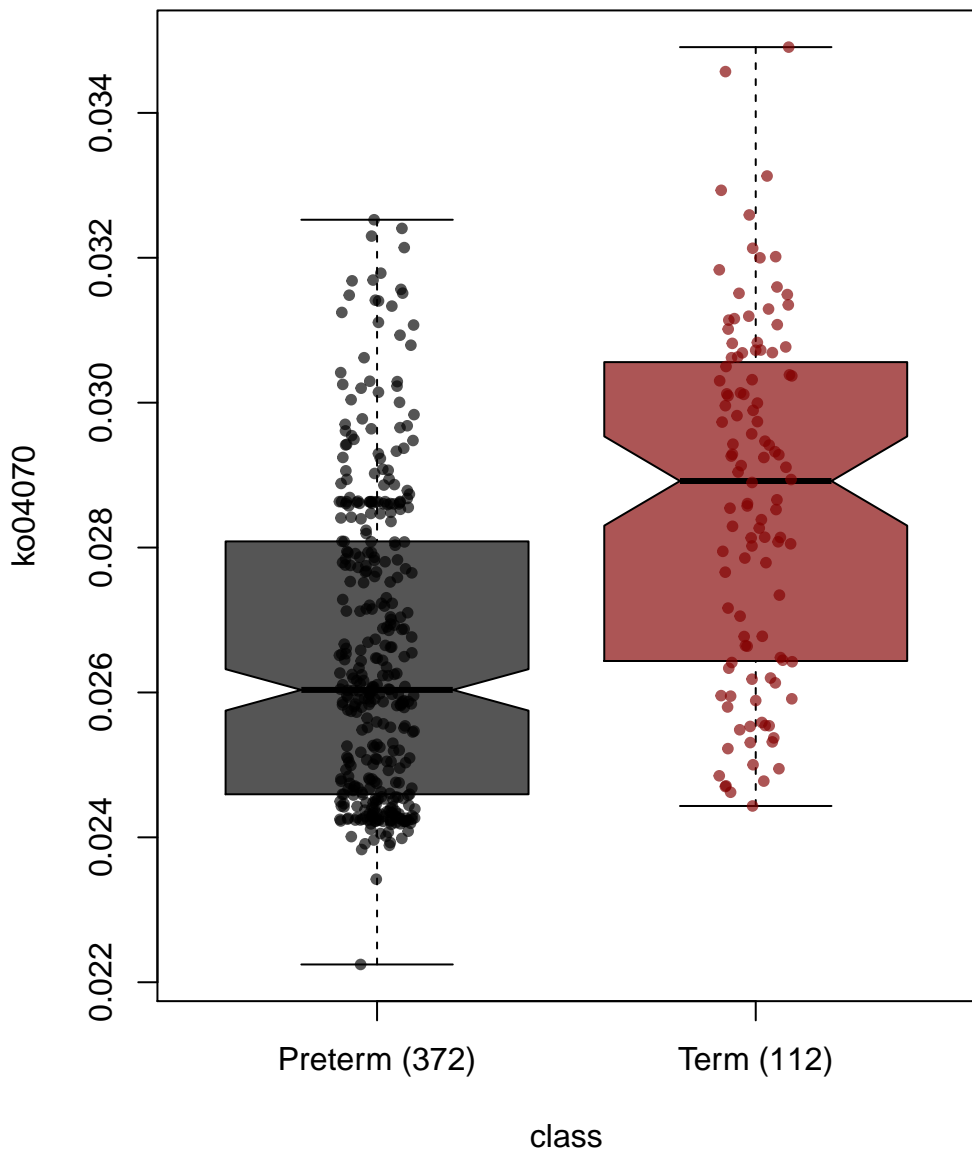
classTerm (0.0051 sd 0.00056, p=2.21e-18, q=1.16e-17)



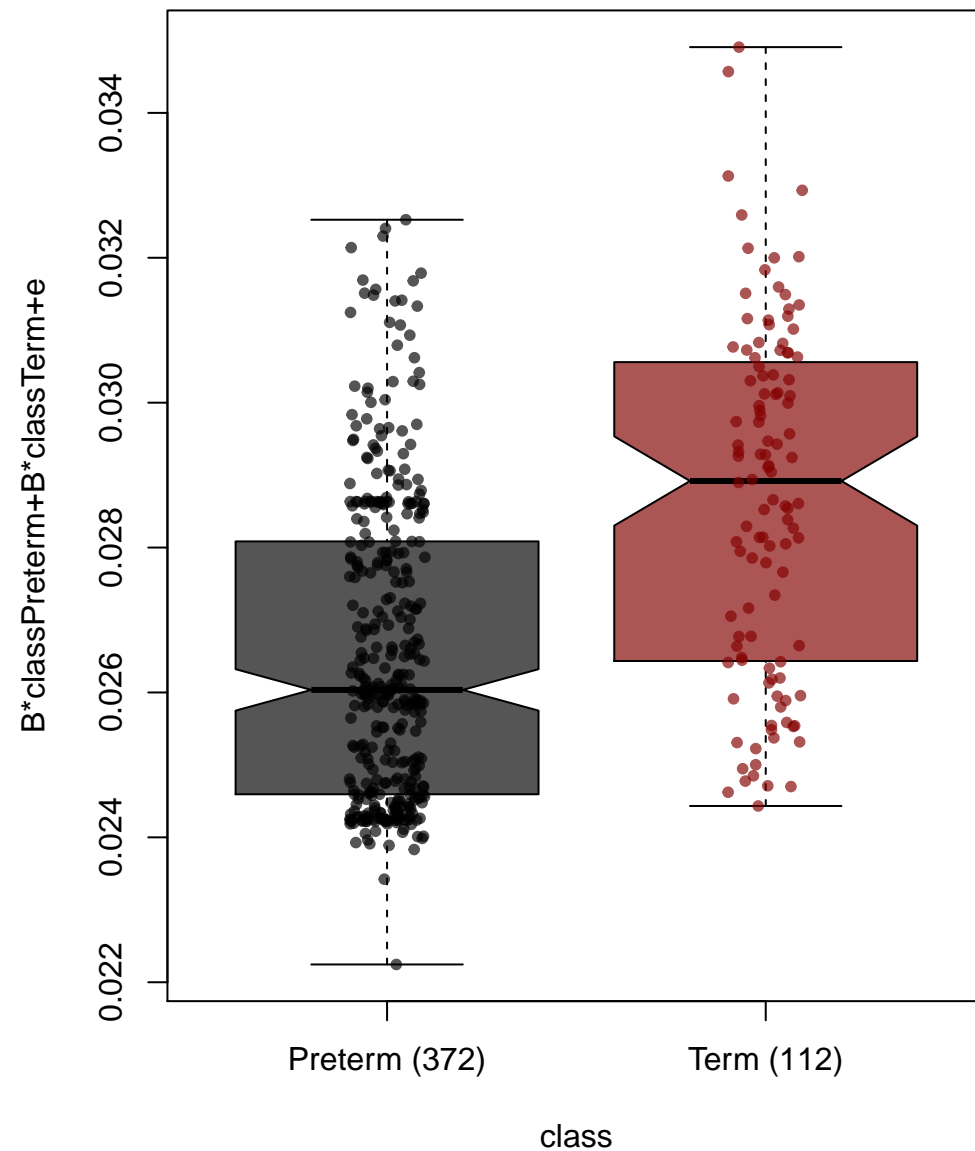
Partial Residual Plot



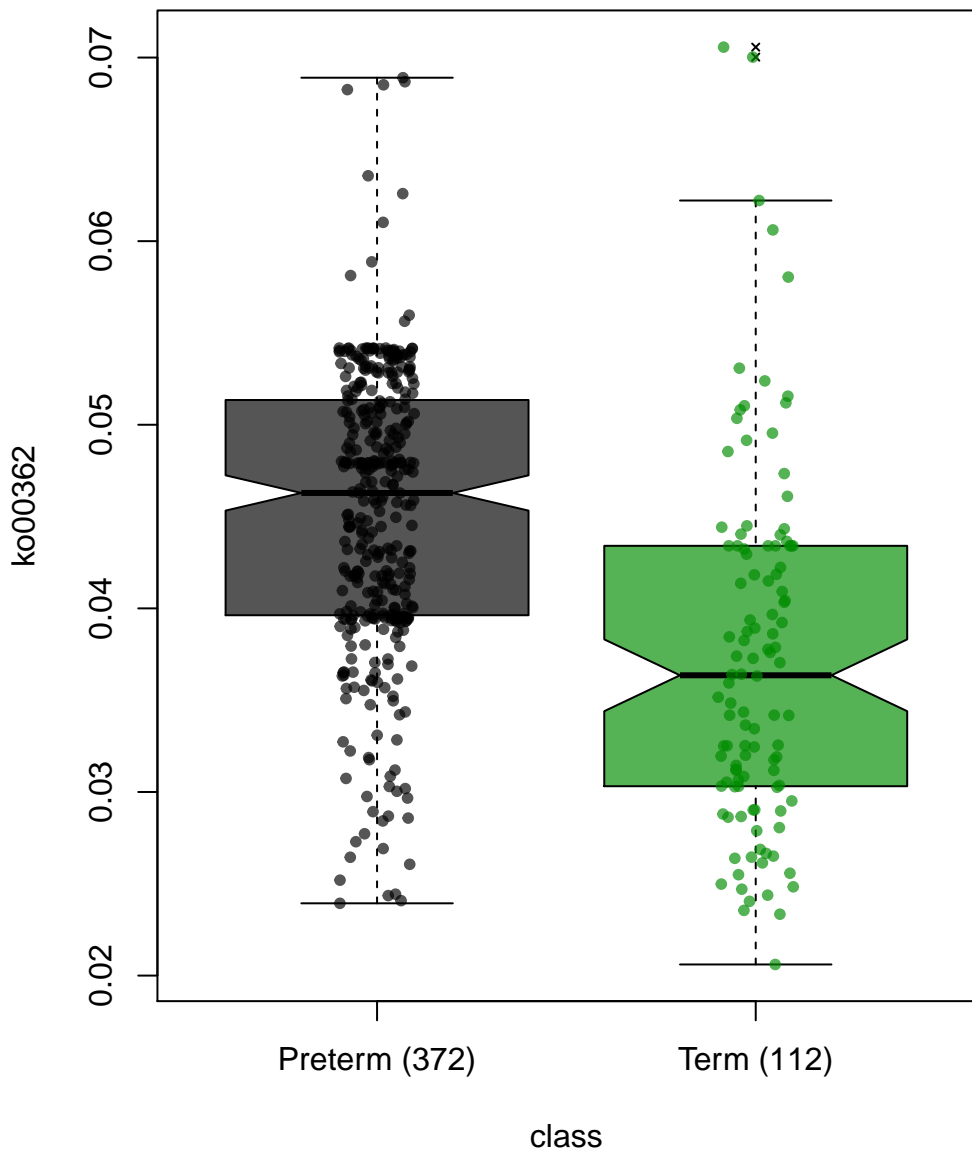
classTerm (0.00211 sd 0.000235, p=6.91e-18, q=3.57e-17)



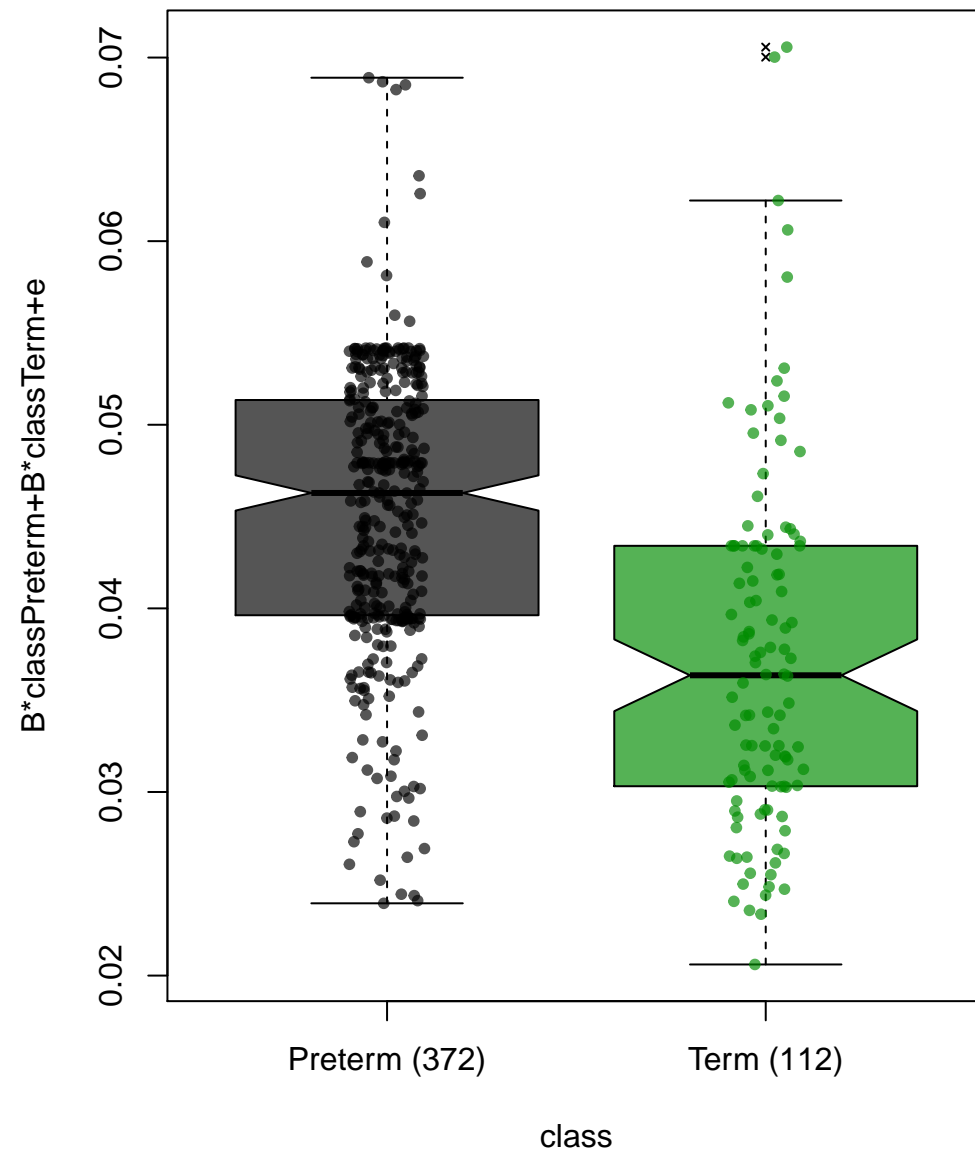
Partial Residual Plot



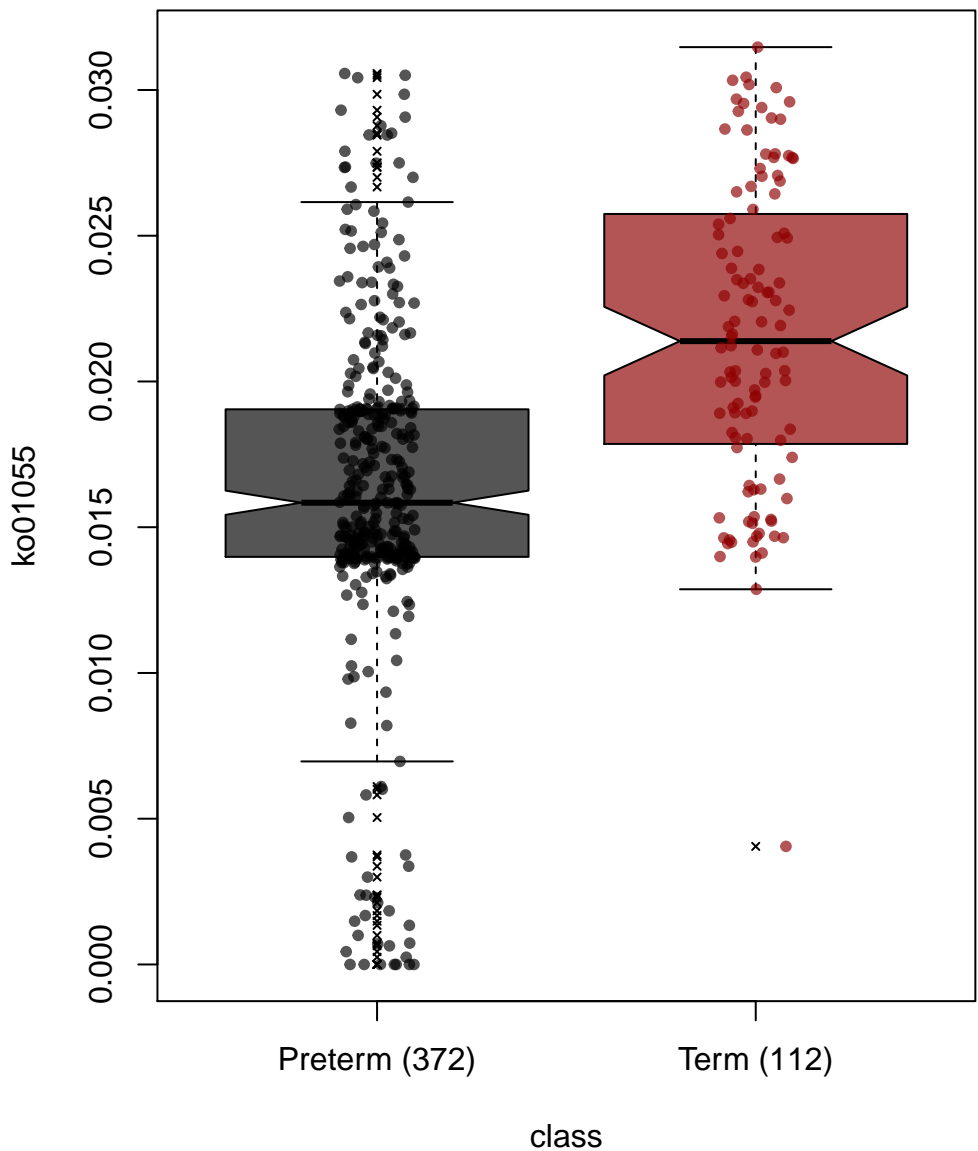
classTerm (-0.00791 sd 0.000894 , $p=1.8e-17$, $q=9.16e-17$)



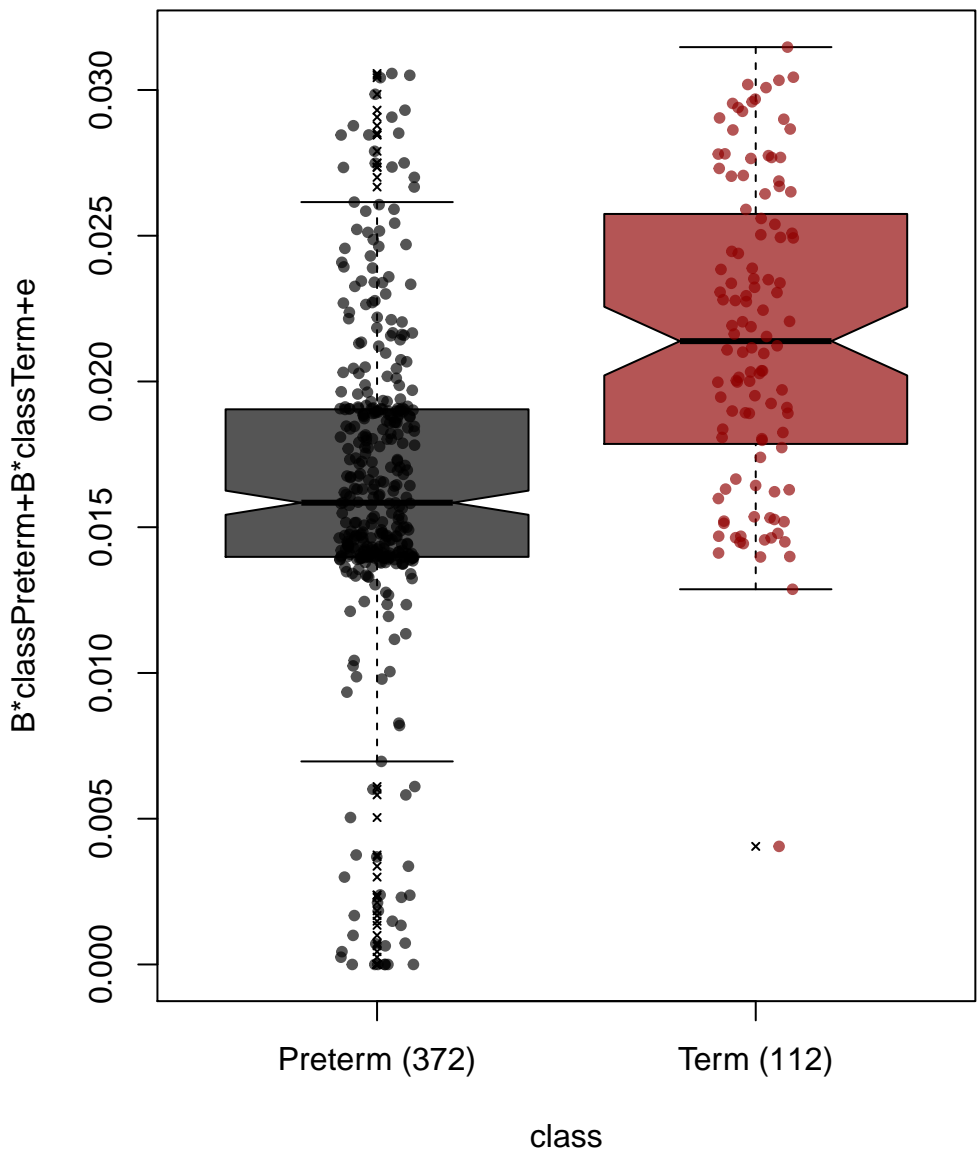
Partial Residual Plot



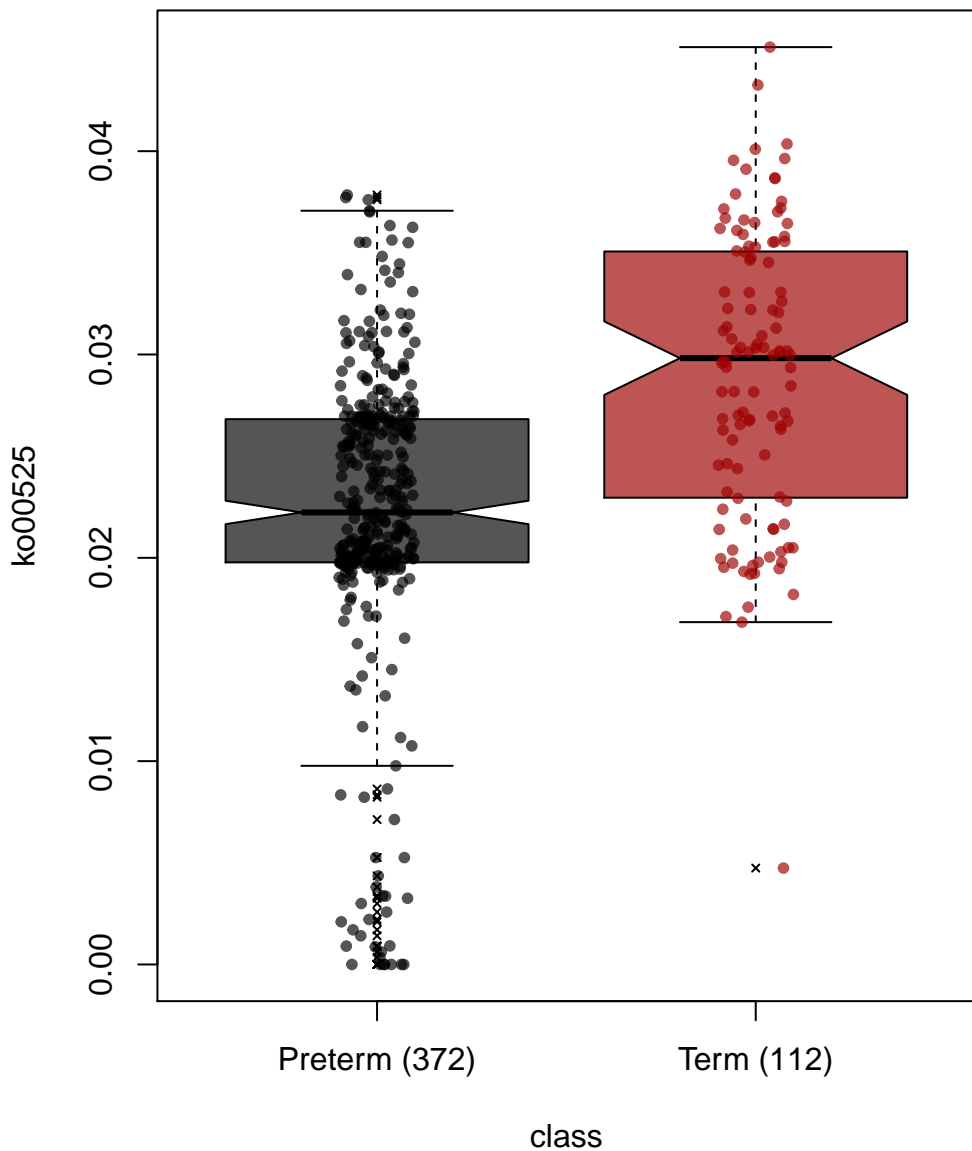
classTerm (0.00539 sd 0.000616, p=3.81e-17, q=1.9e-16)



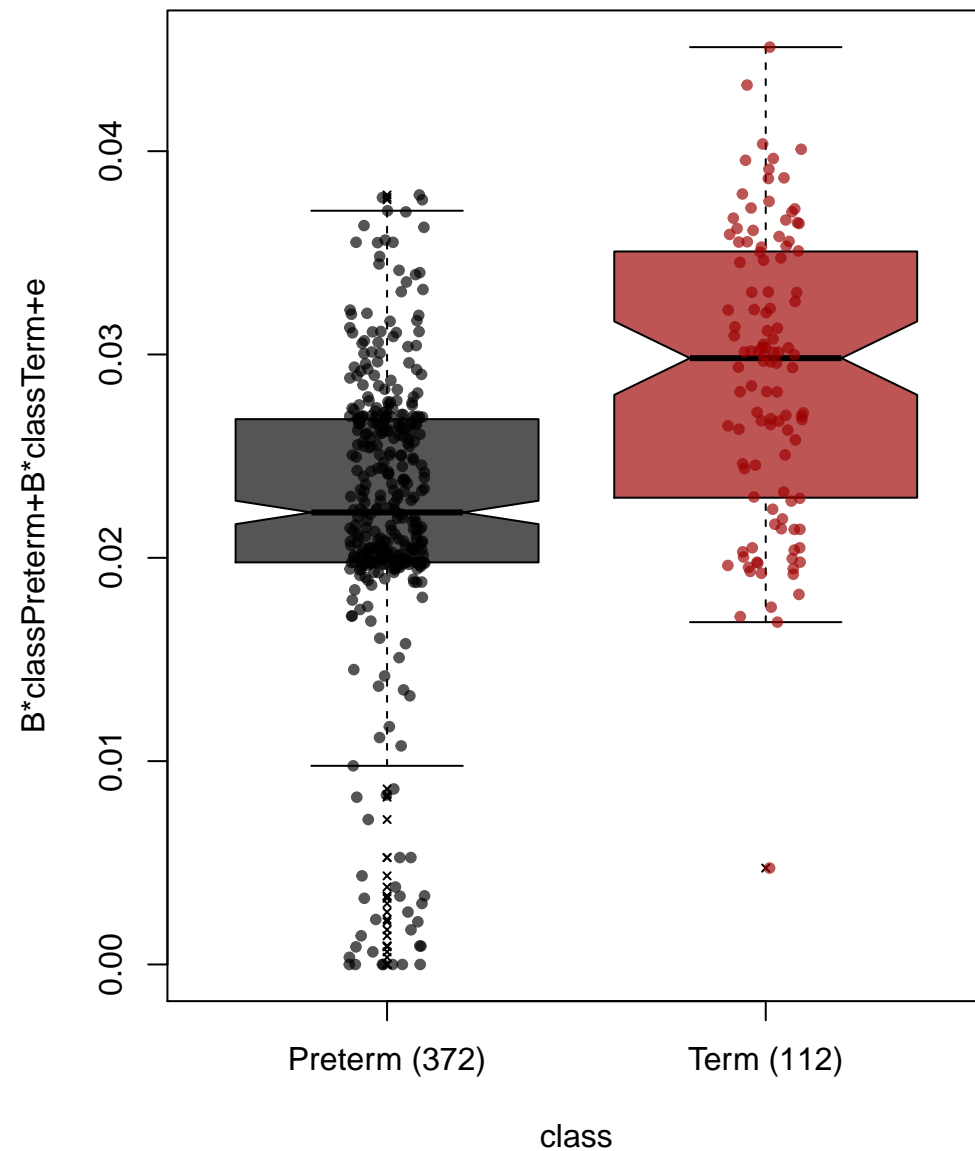
Partial Residual Plot



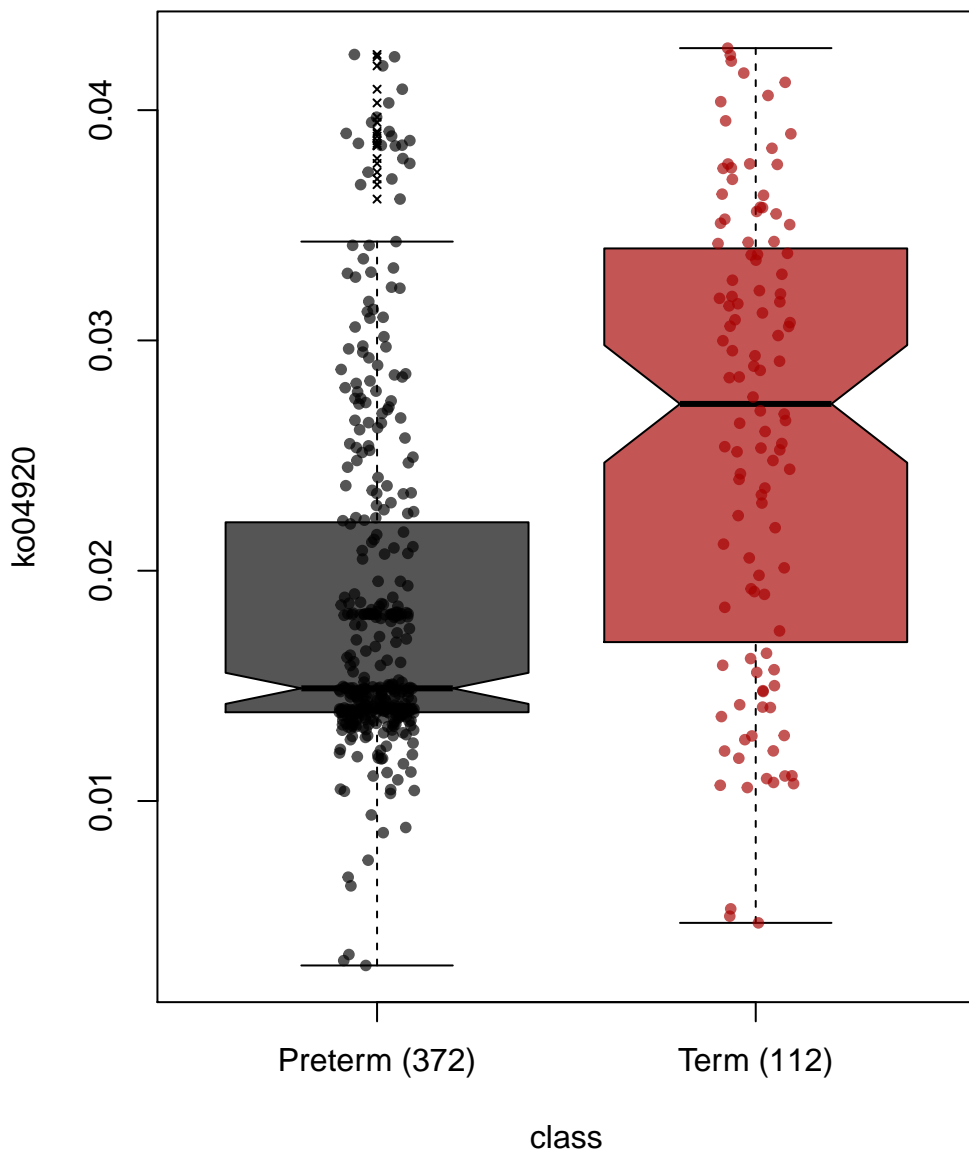
classTerm (0.00674 sd 0.000793, p=2.51e-16, q=1.23e-15)



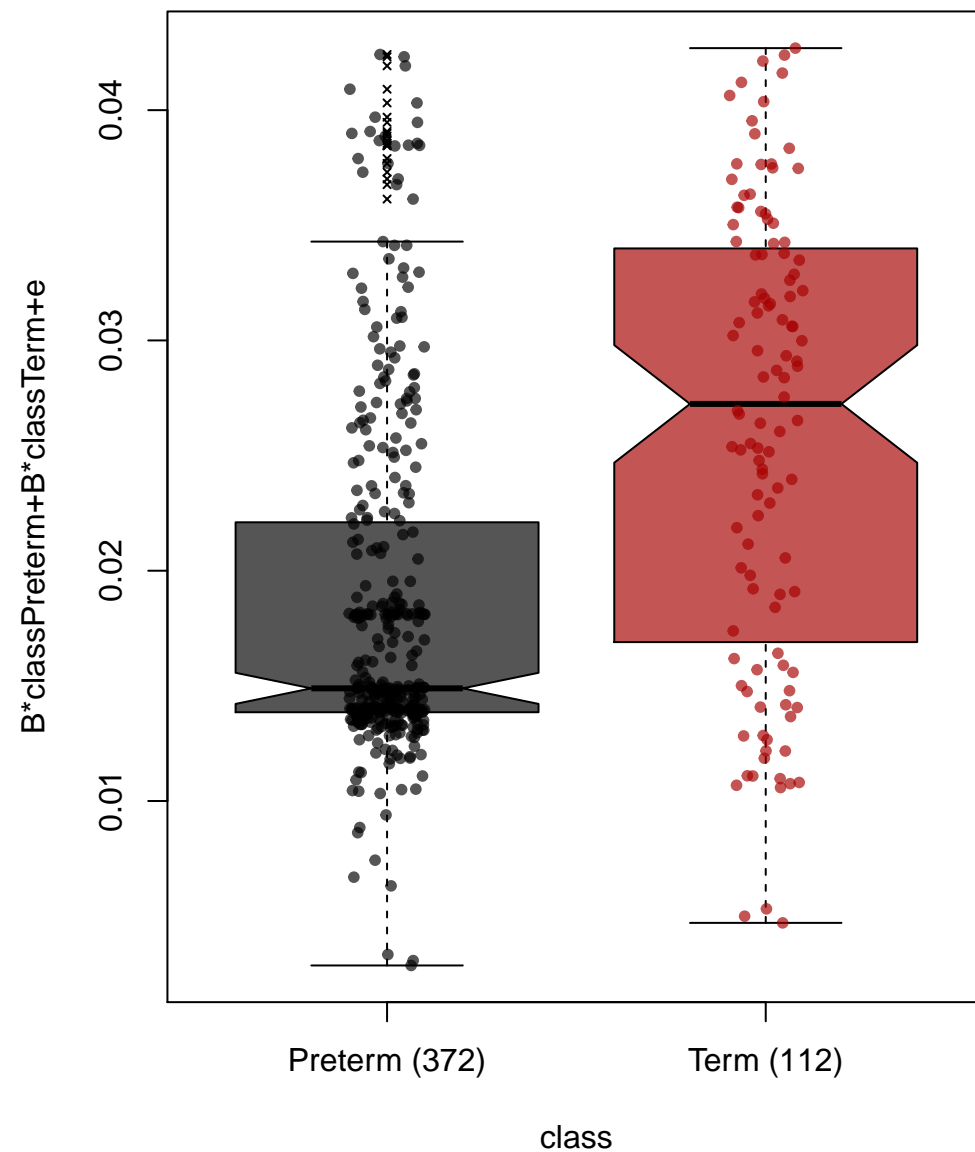
Partial Residual Plot



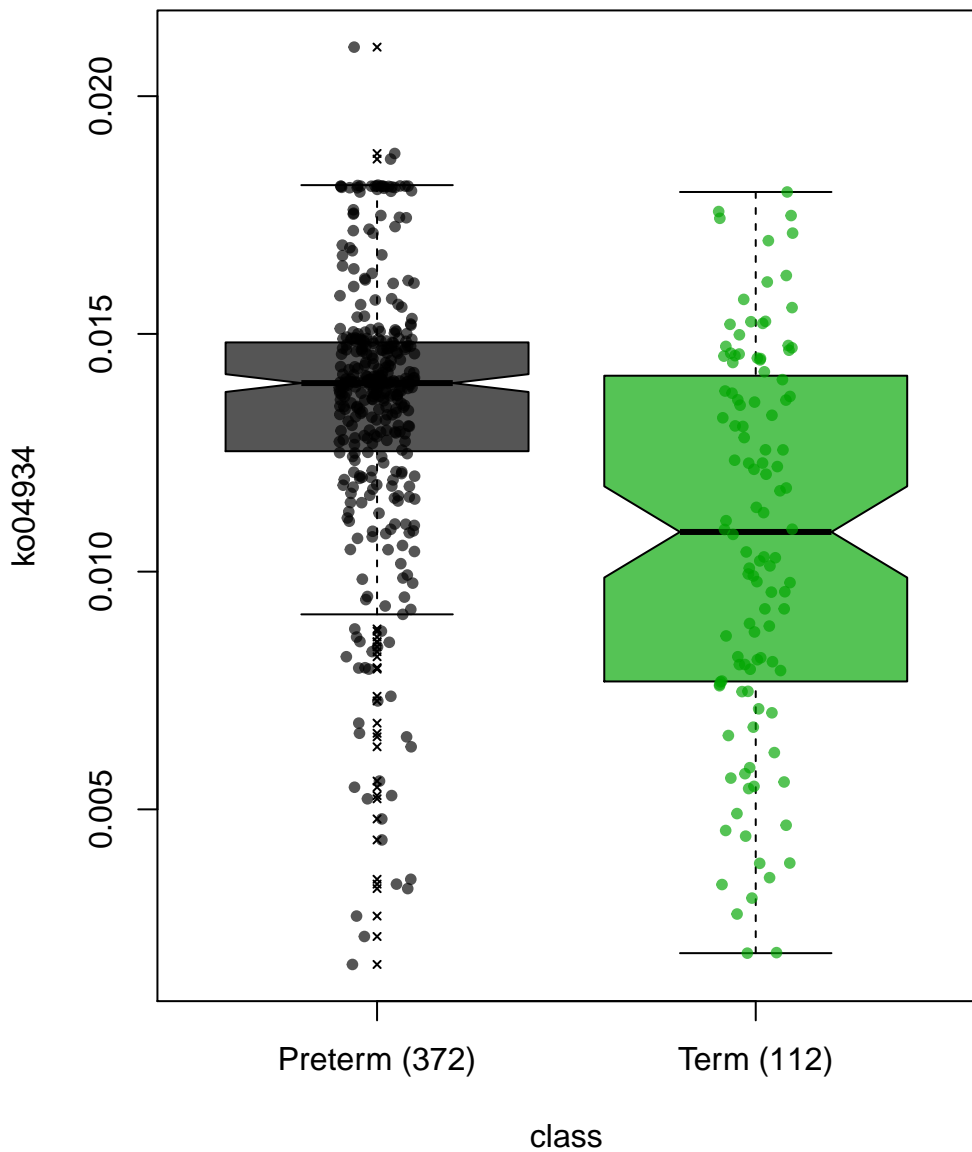
classTerm (0.00746 sd 0.000884, p=3.72e-16, q=1.79e-15)



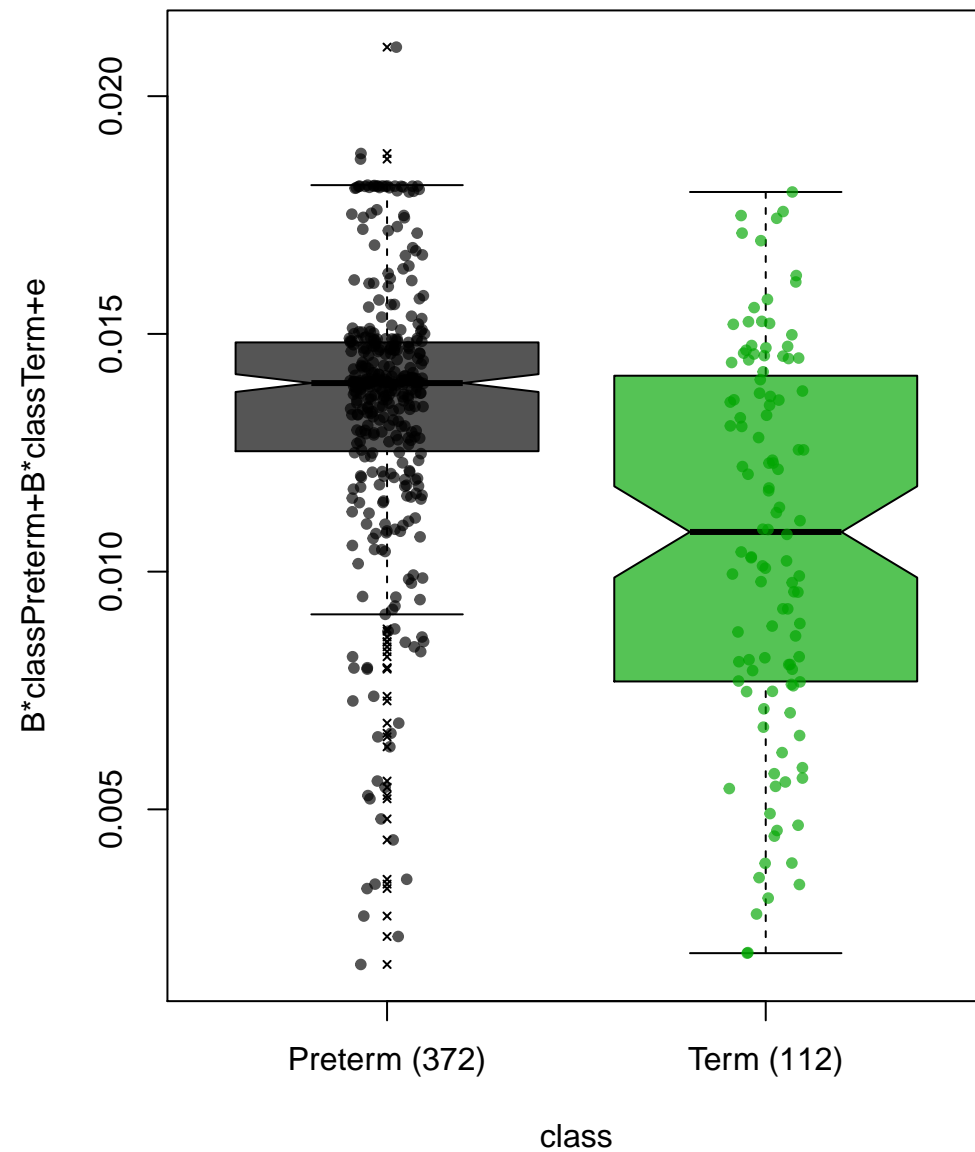
Partial Residual Plot



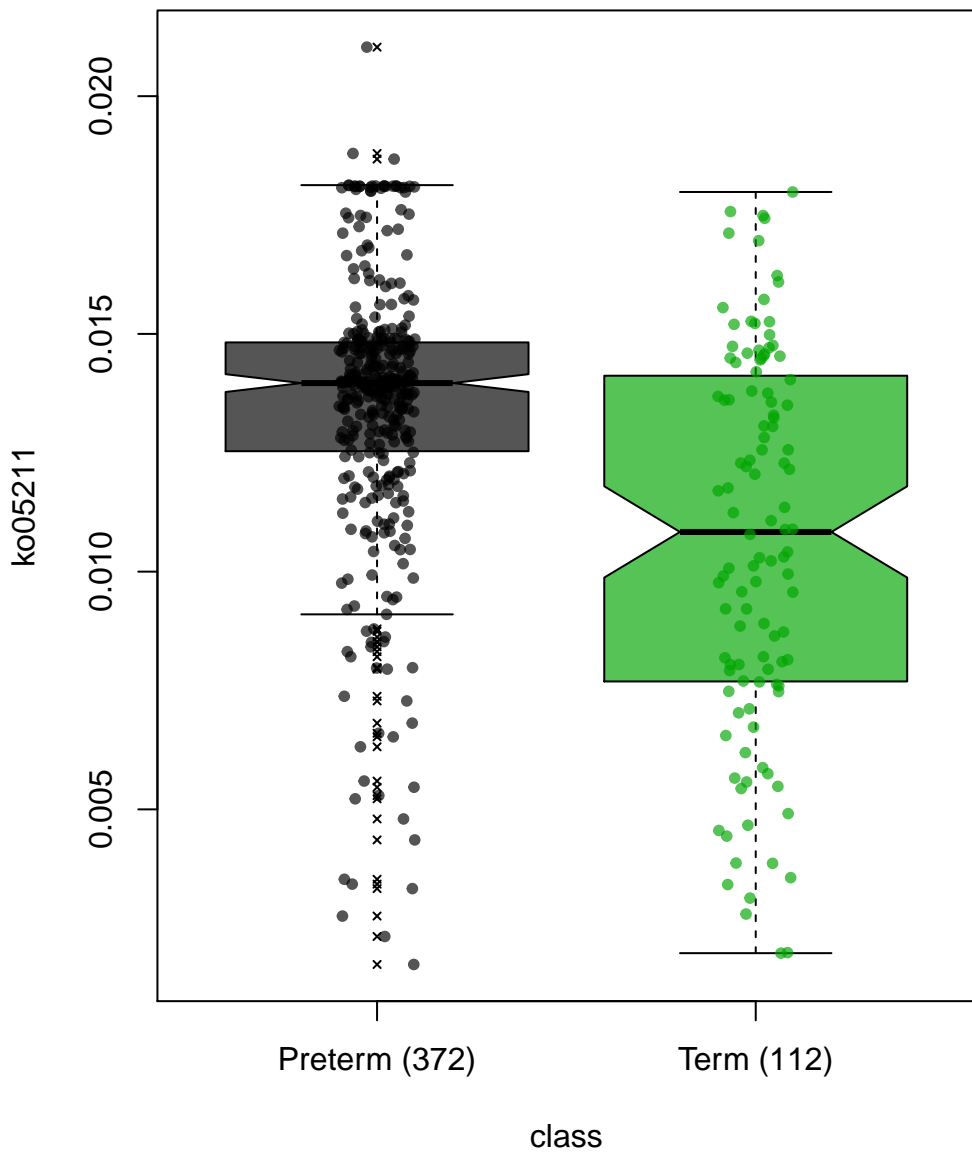
classTerm (−0.00284 sd 0.000345, p=1.65e−15, q=7.69e−15)



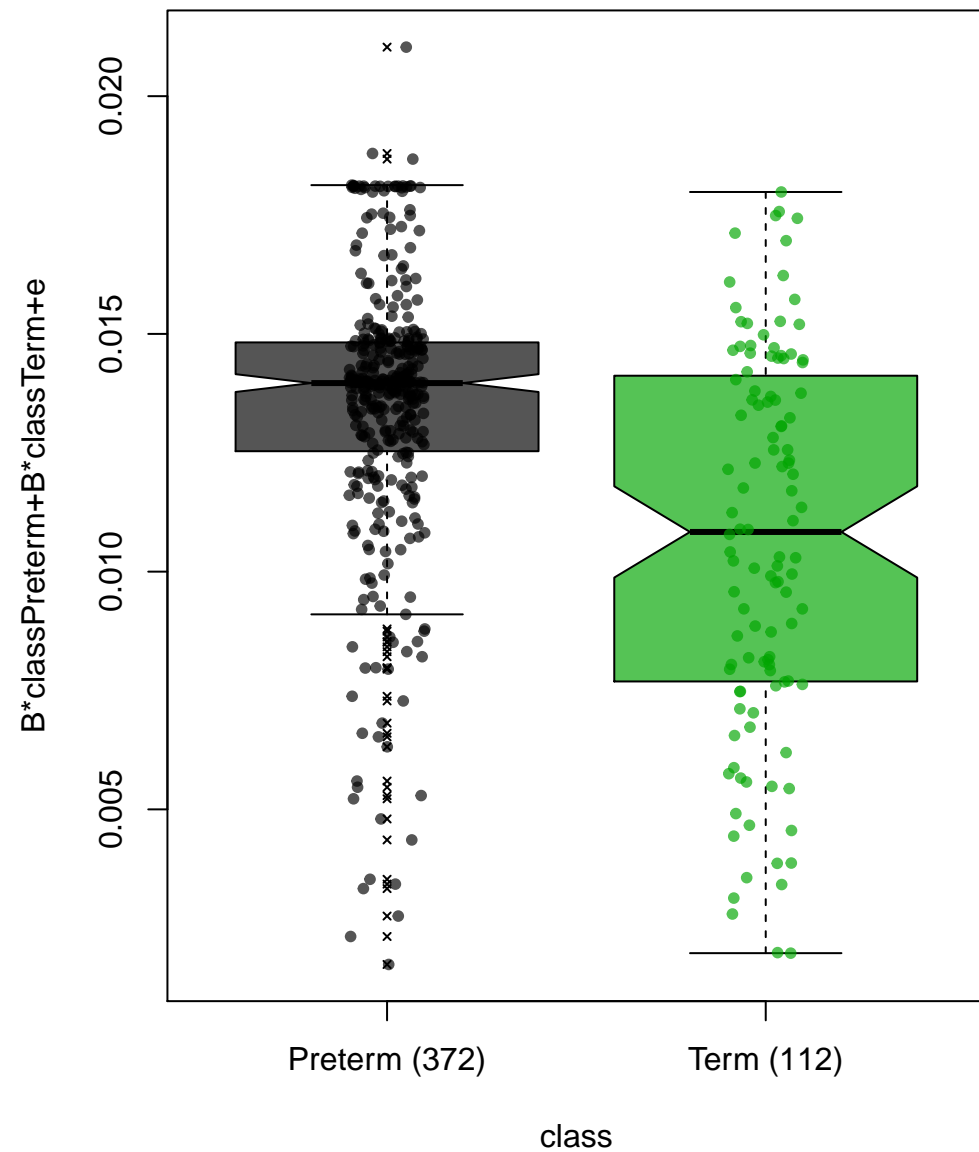
Partial Residual Plot



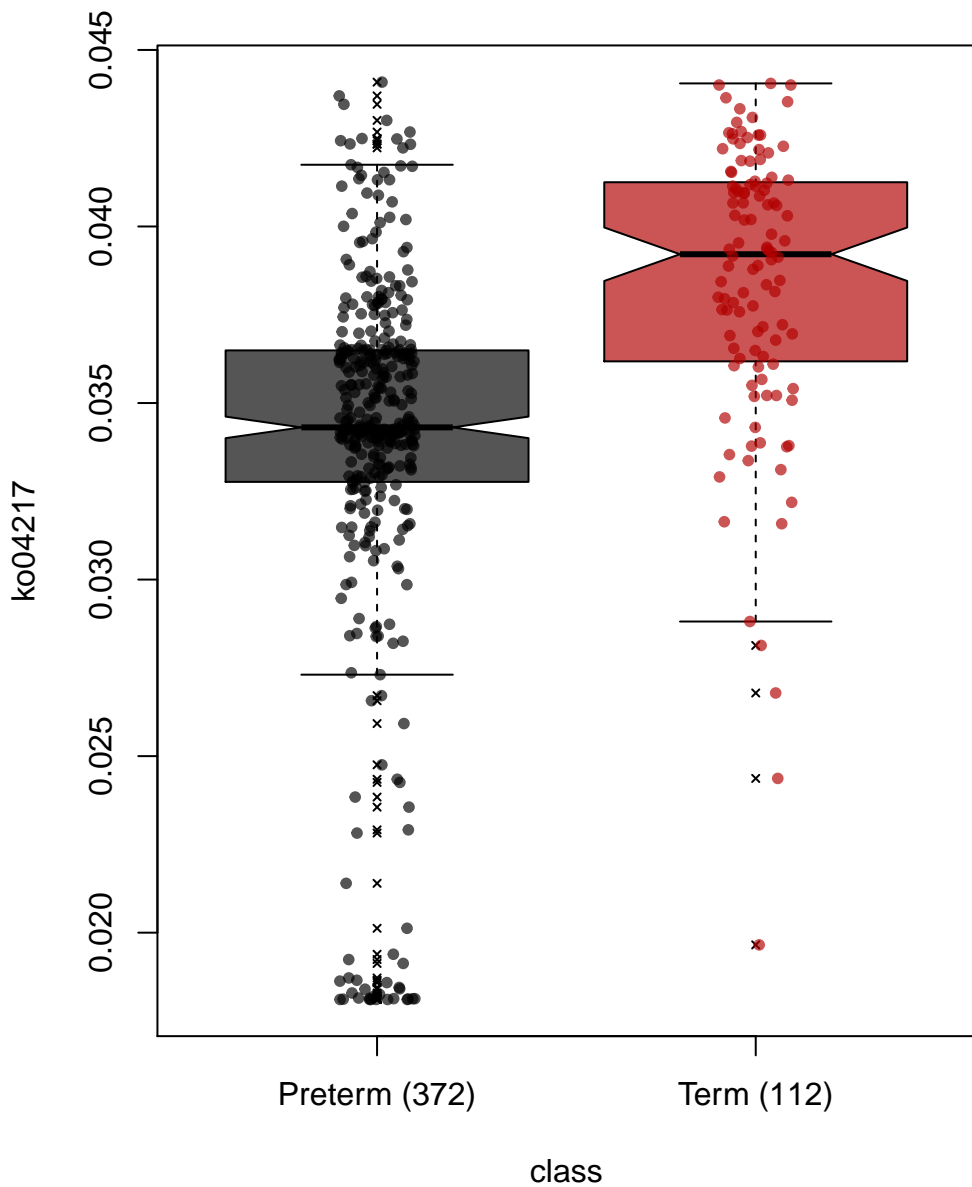
classTerm (−0.00284 sd 0.000345, p=1.65e−15, q=7.69e−15)



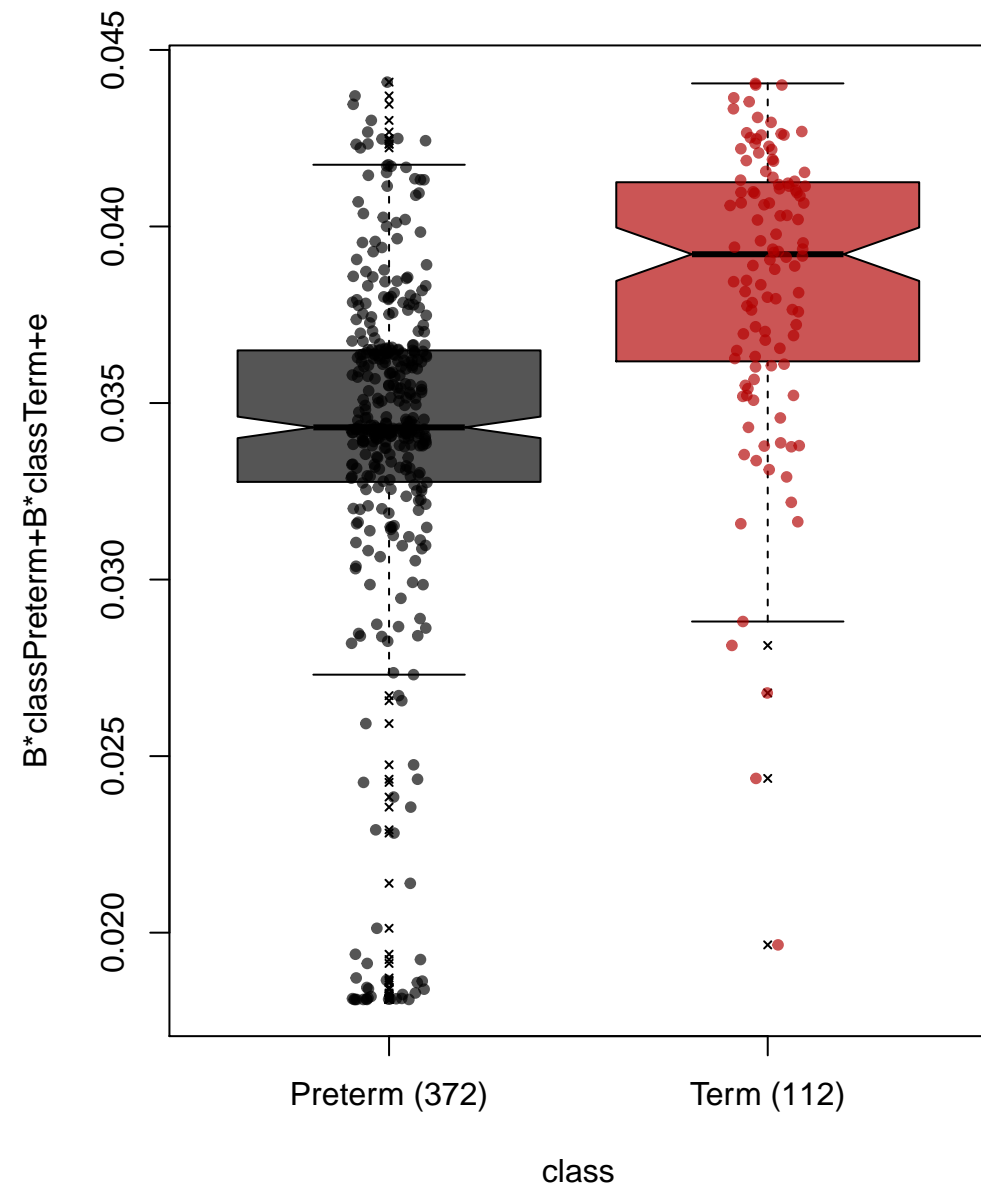
Partial Residual Plot



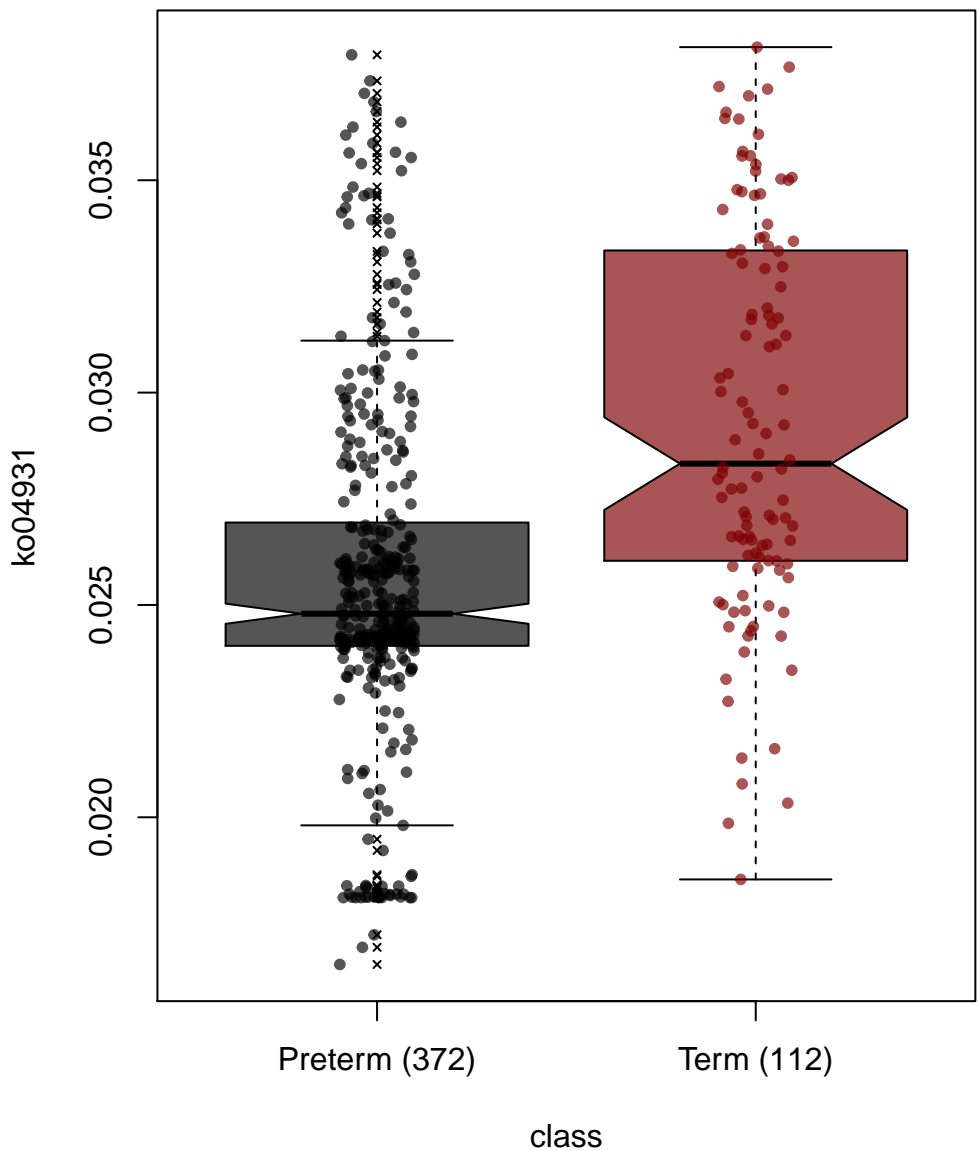
classTerm (0.00464 sd 0.000565, p=2.01e-15, q=9.18e-15)



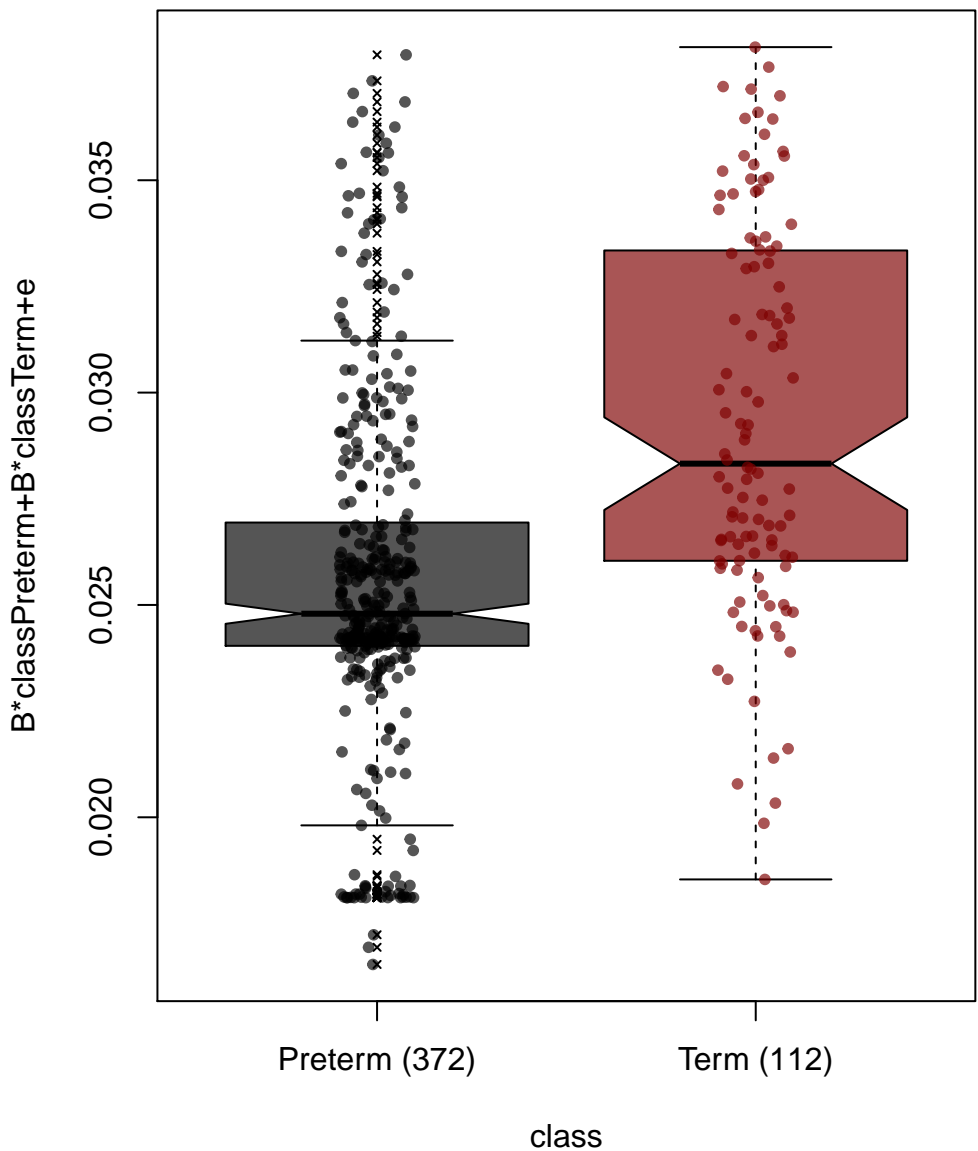
Partial Residual Plot



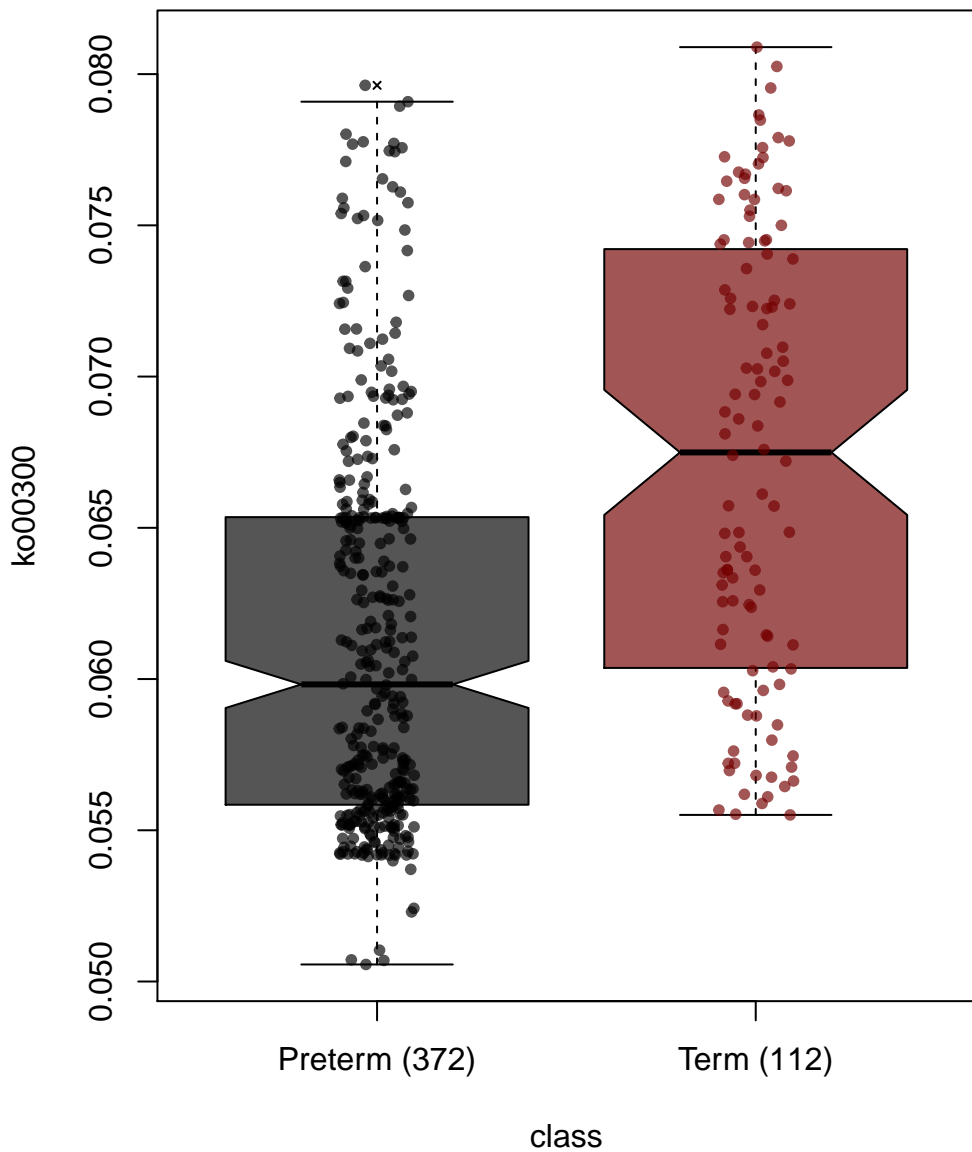
classTerm (0.00369 sd 0.000457, p=5.2e-15, q=2.34e-14)



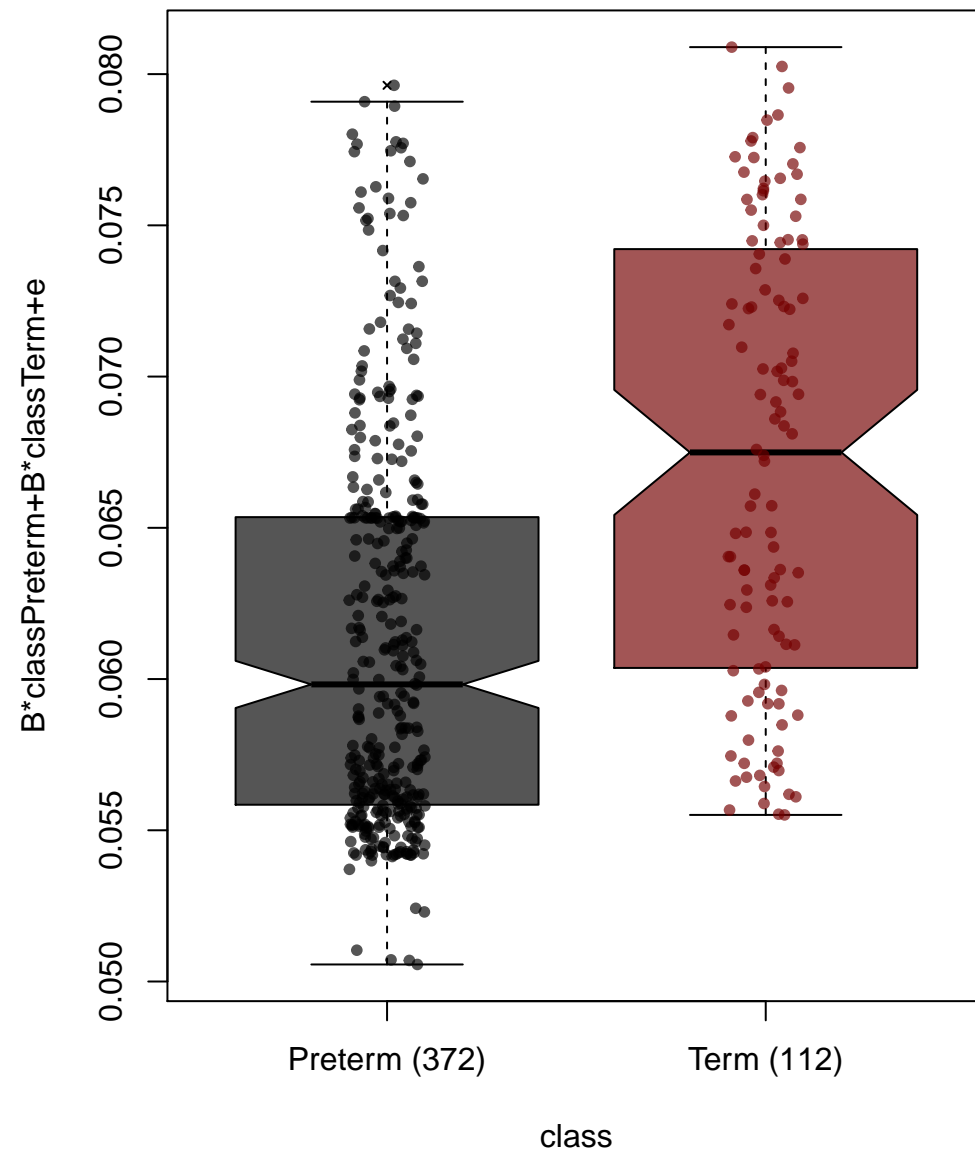
Partial Residual Plot



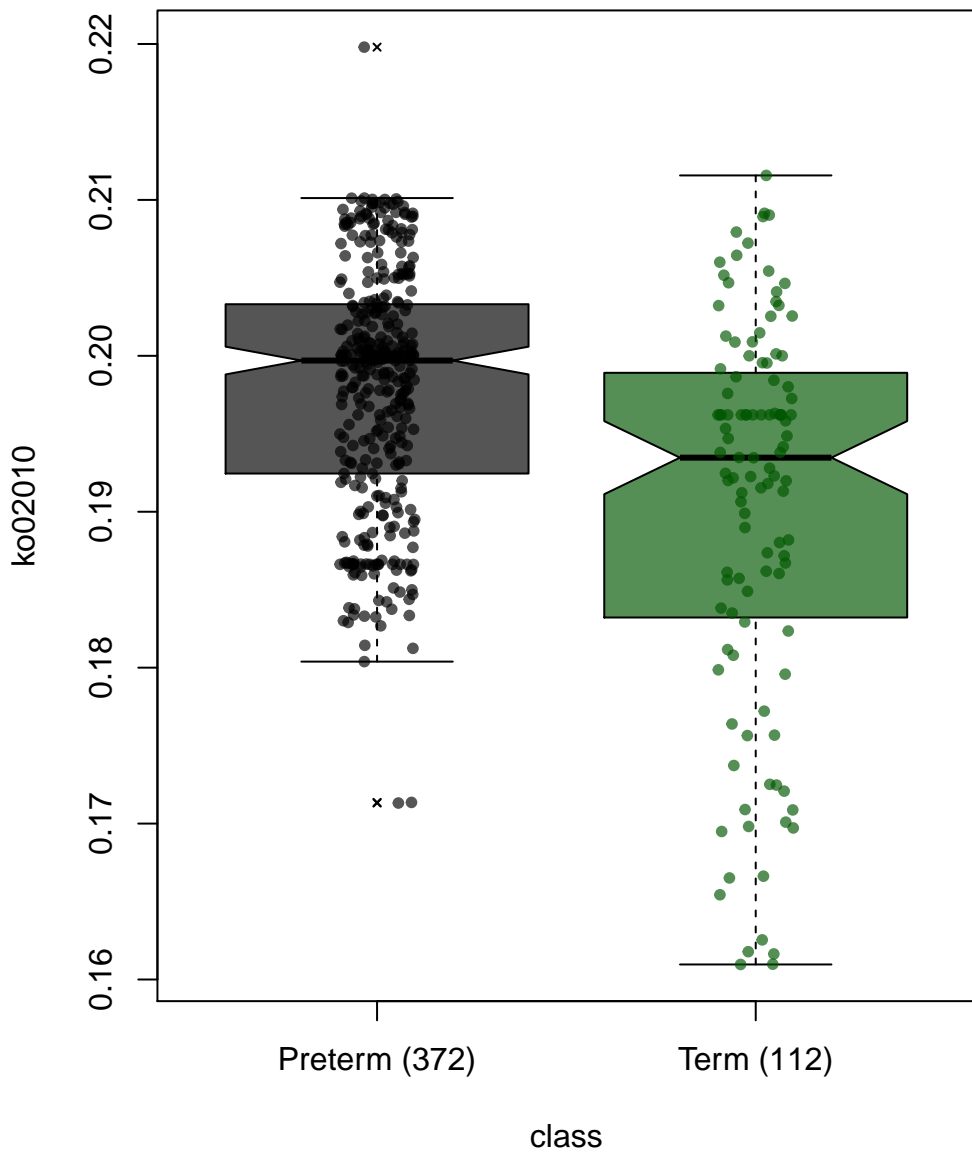
classTerm (0.0058 sd 0.000729, p=1.28e-14, q=5.67e-14)



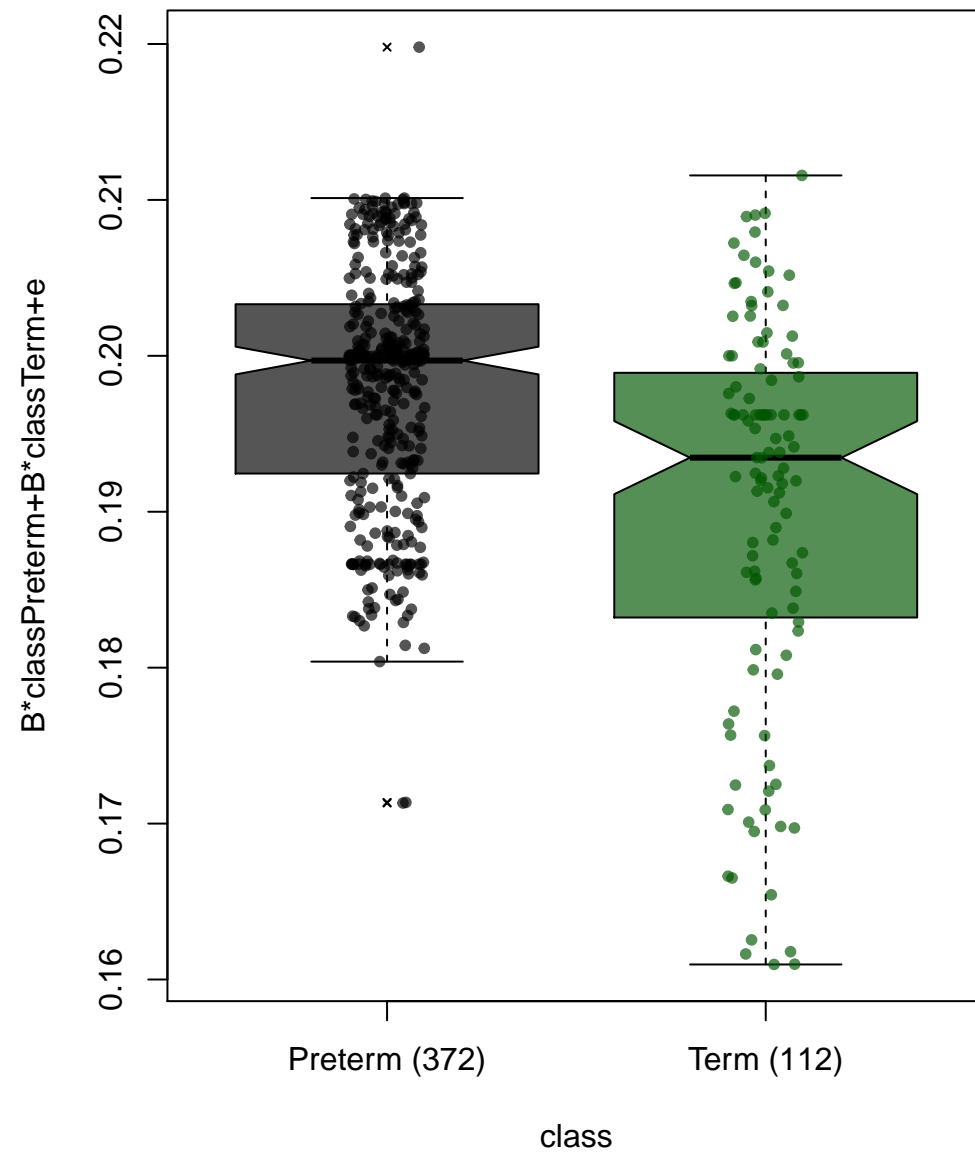
Partial Residual Plot



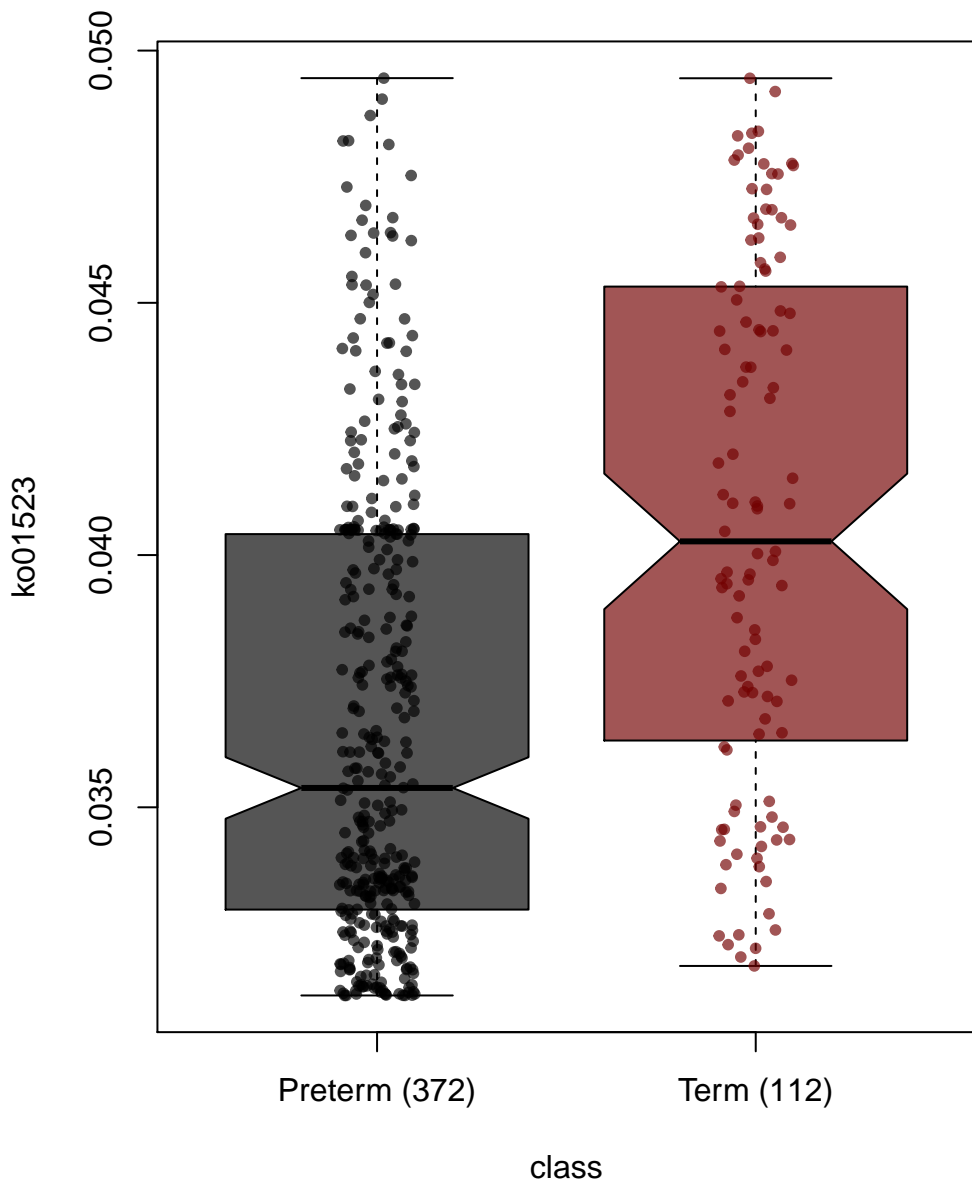
classTerm (-0.00783 sd 0.000987 , $p=1.48e-14$, $q=6.44e-14$)



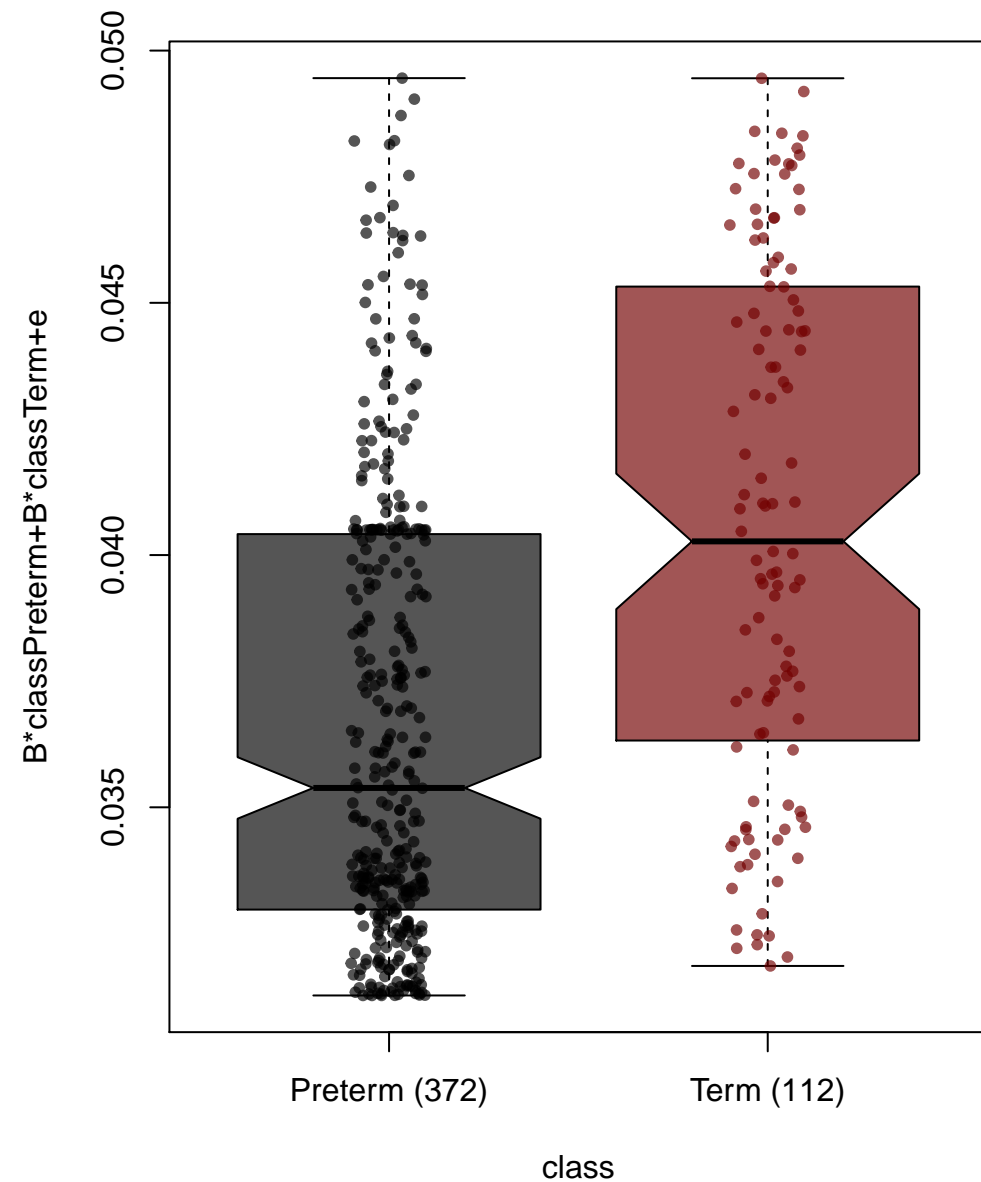
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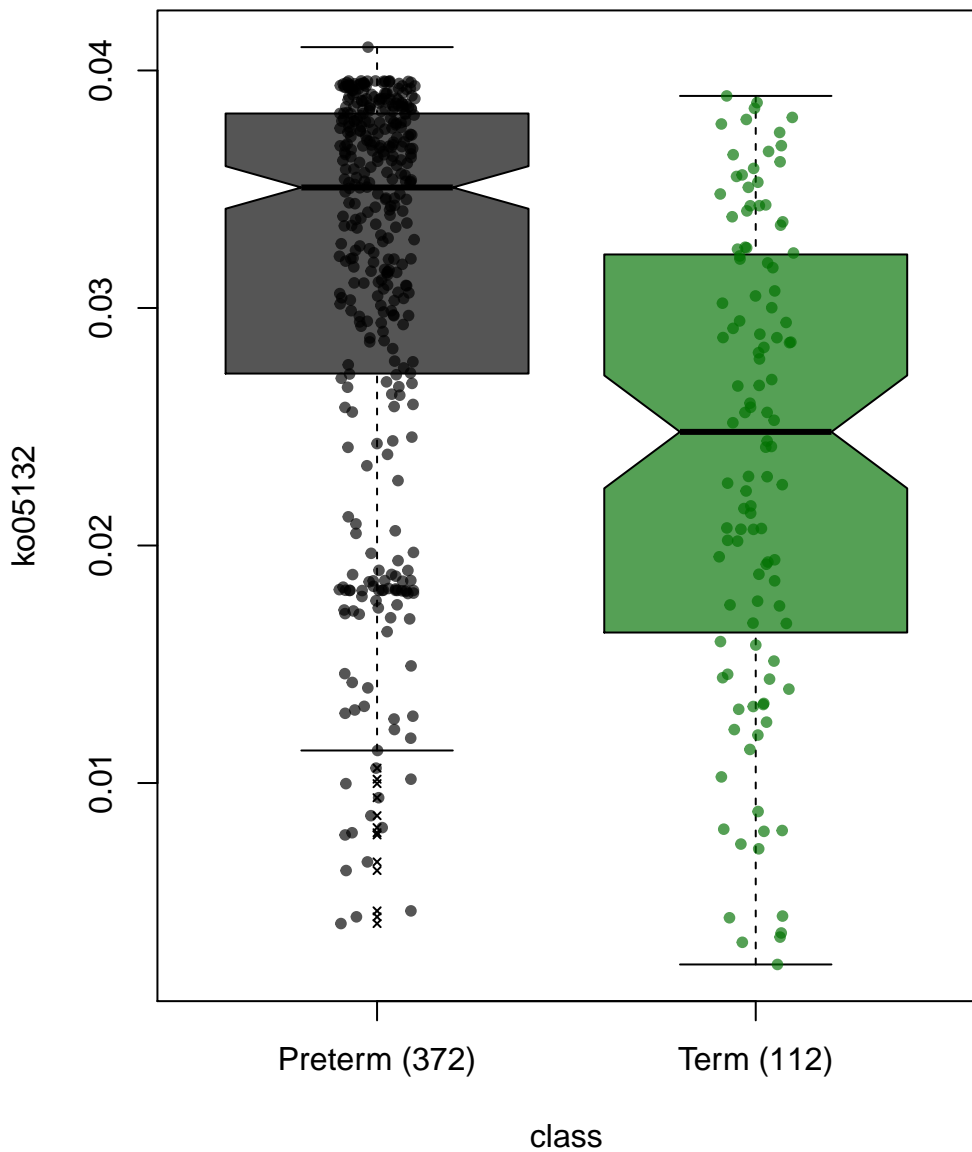
classTerm (0.00396 sd 0.000502, p=2.01e-14, q=8.63e-14)



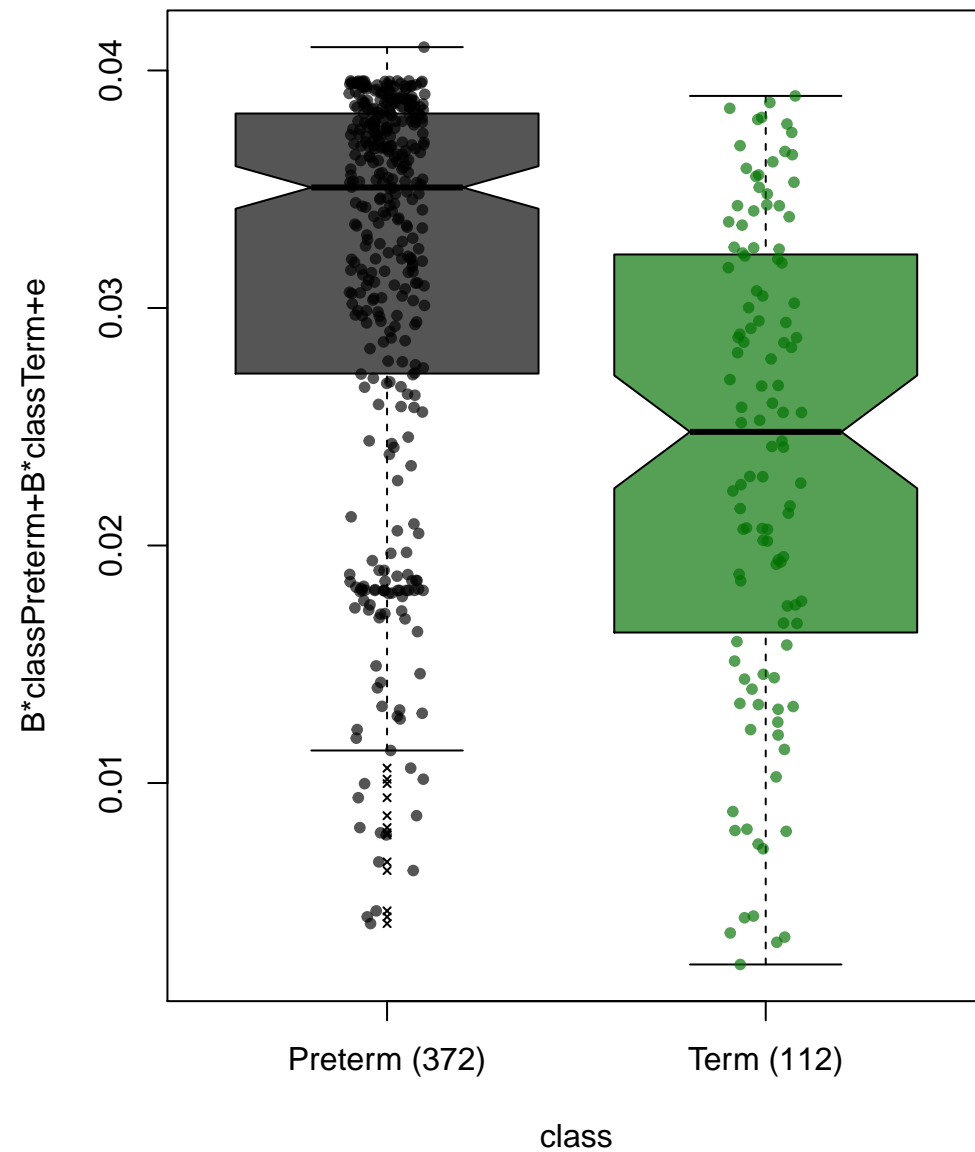
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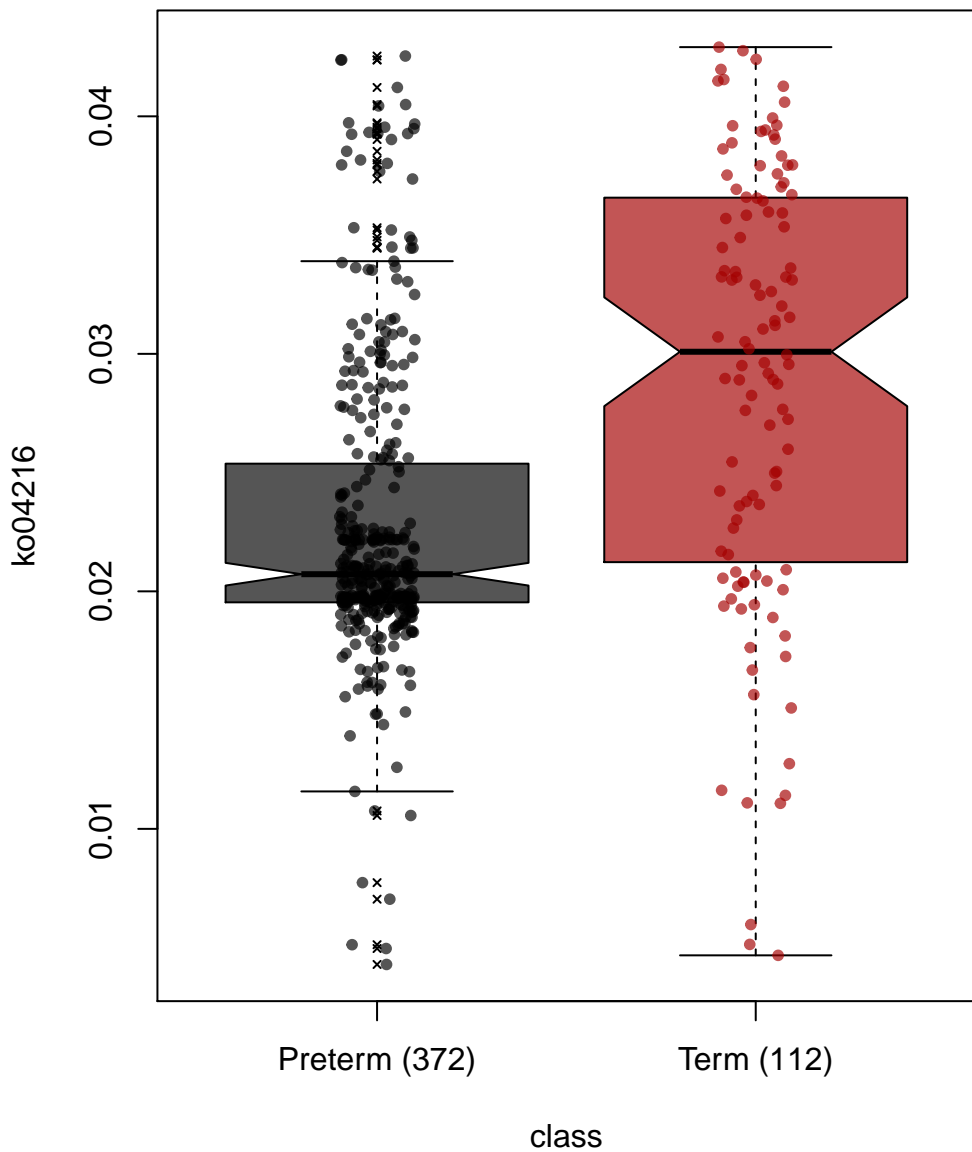
classTerm (−0.00763 sd 0.000979, p=4.07e−14, q=1.71e−13)



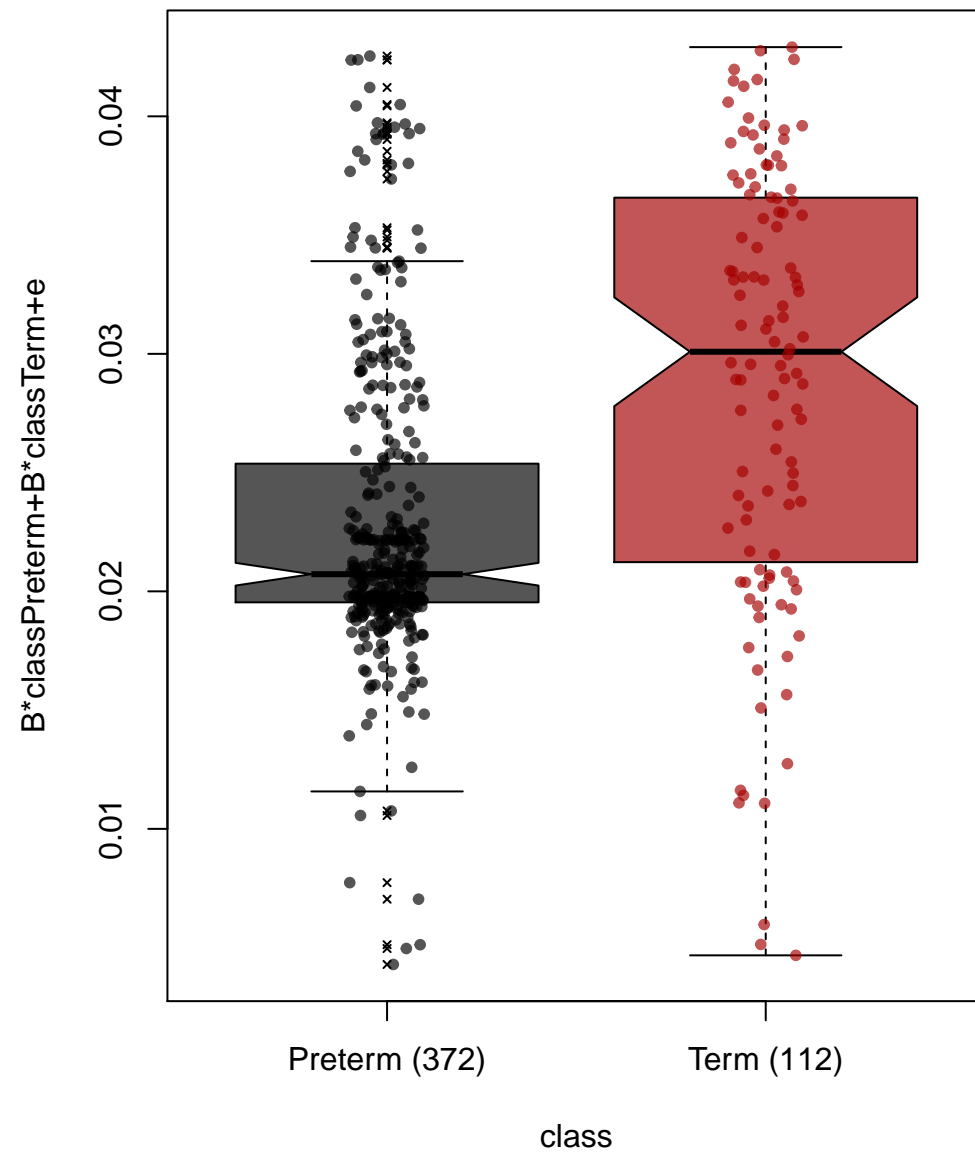
Partial Residual Plot



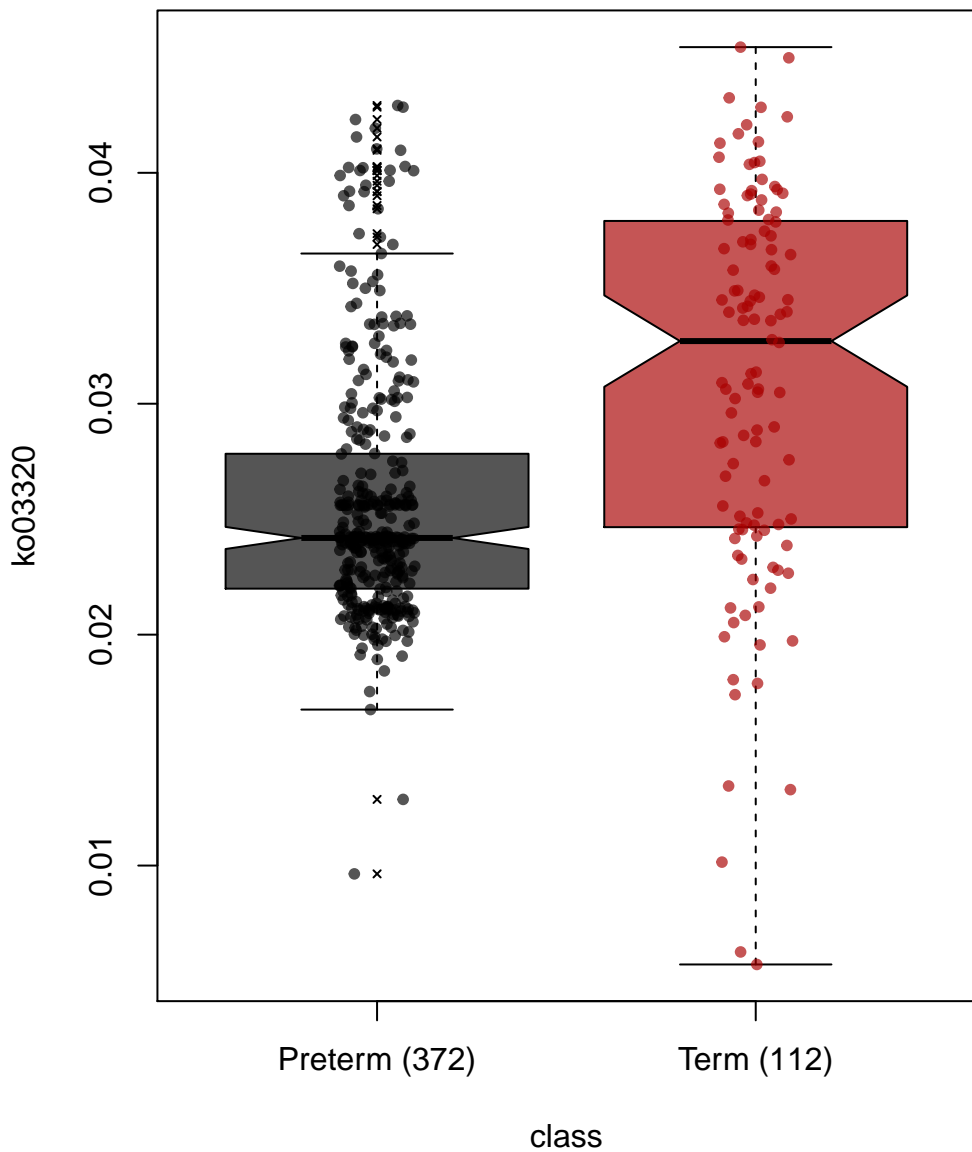
classTerm (0.00597 sd 0.000766, p=4.1e-14, q=1.71e-13)



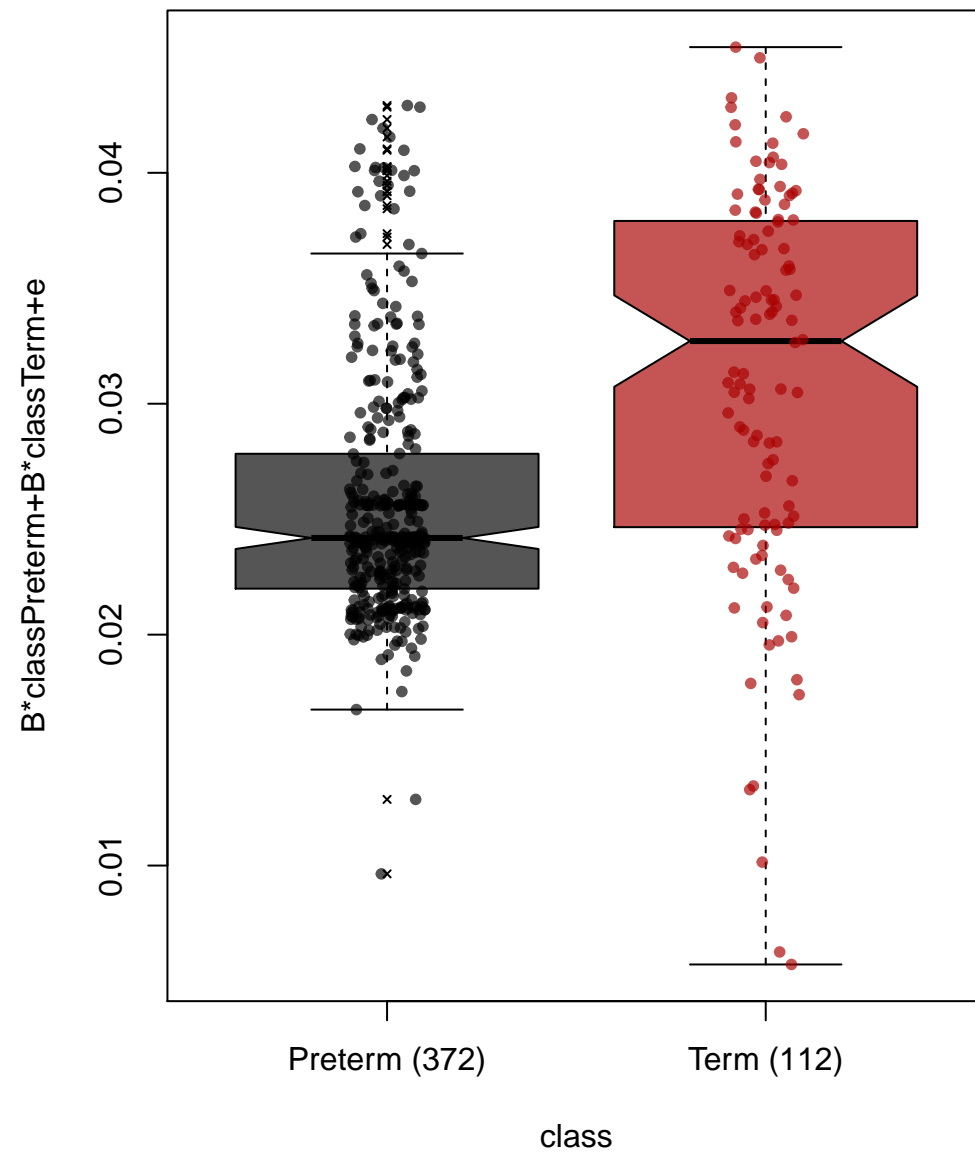
Partial Residual Plot



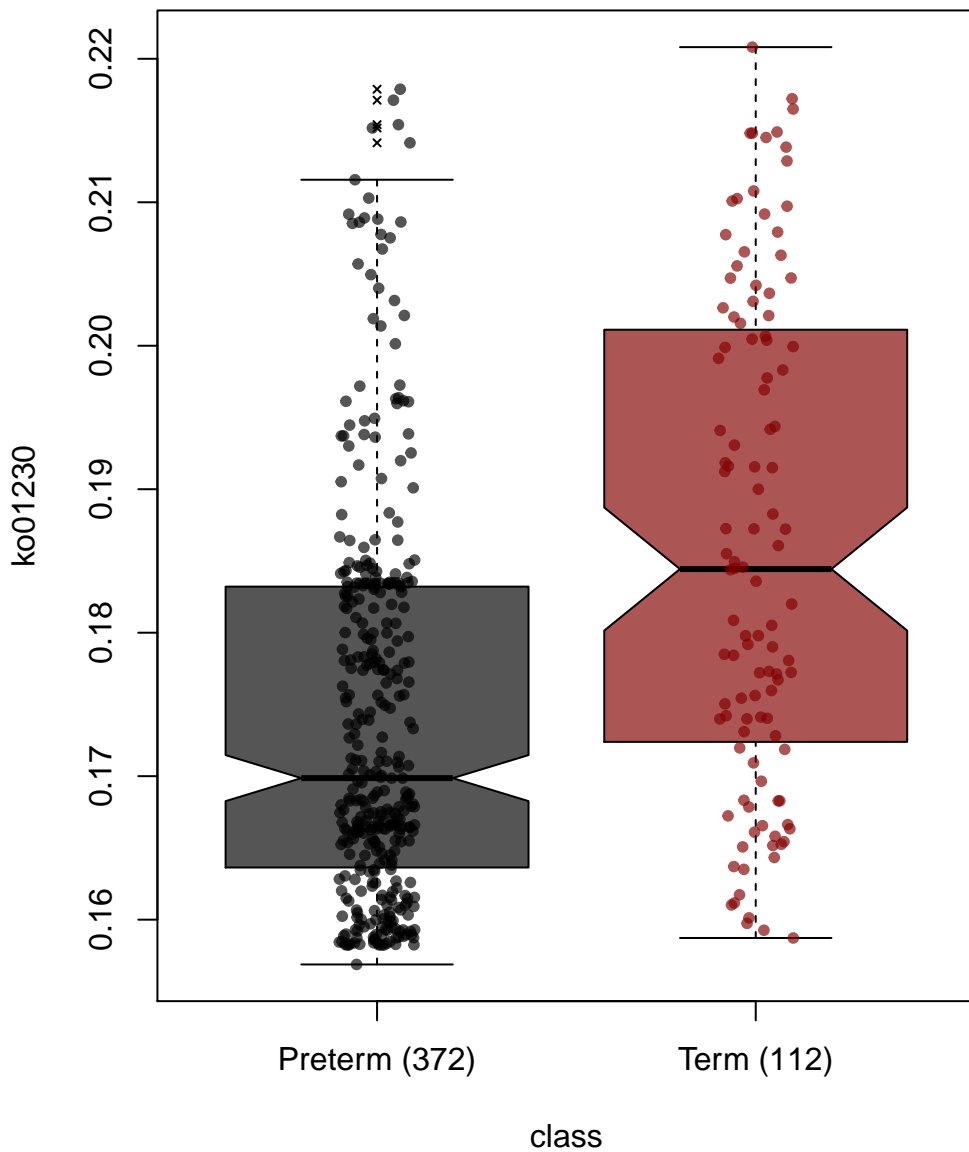
classTerm (0.00518 sd 0.000674, p=8.35e-14, q=3.43e-13)



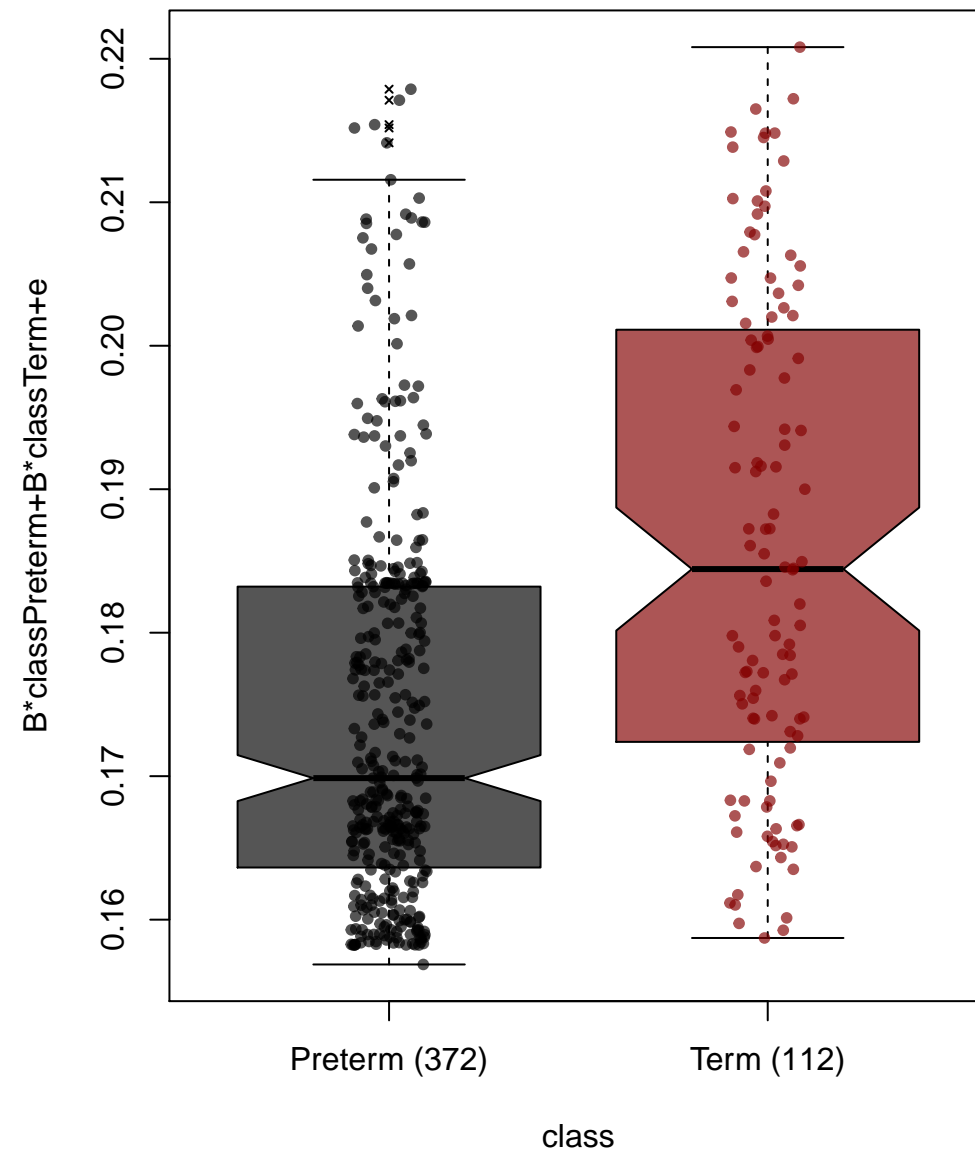
Partial Residual Plot



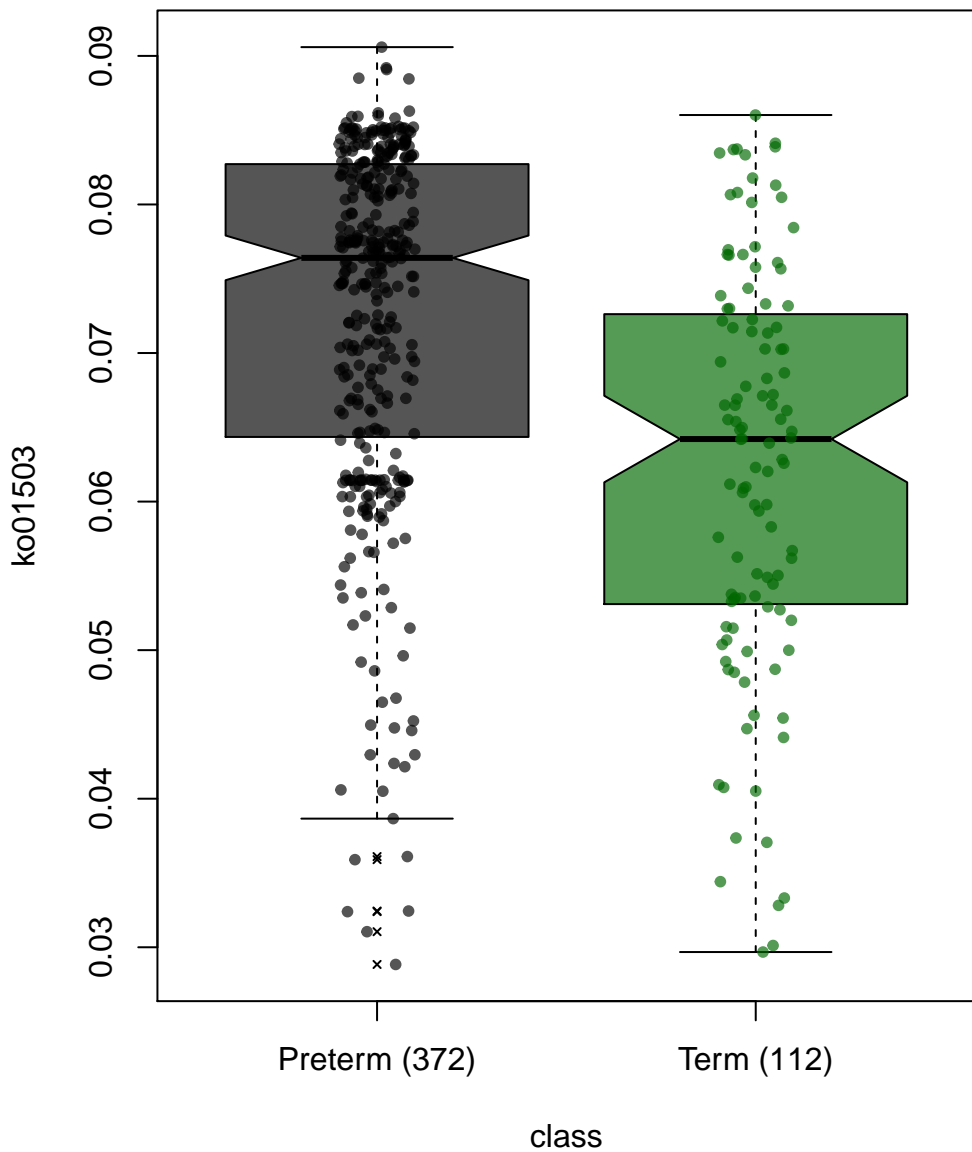
classTerm (0.012 sd 0.00156, p=9.98e-14, q=4.04e-13)



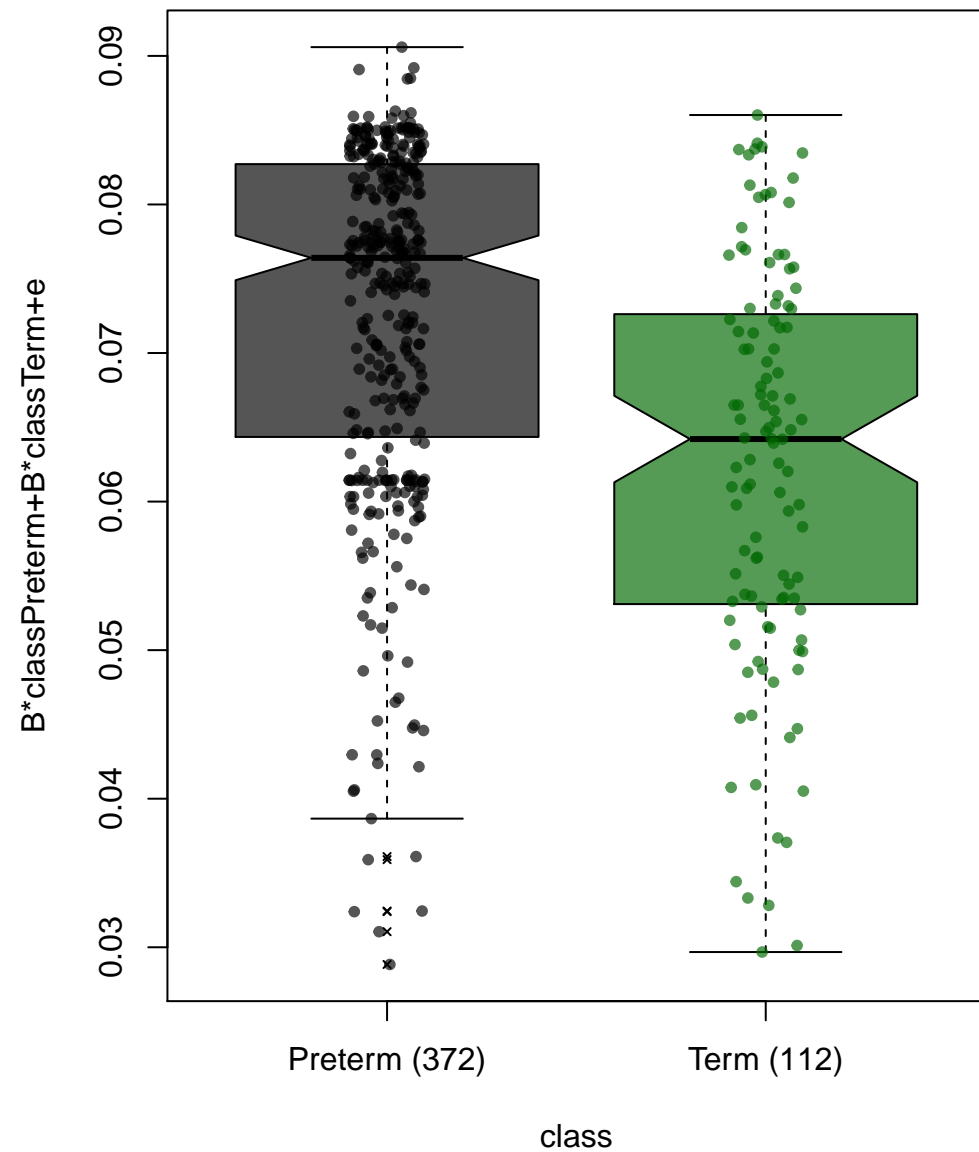
Partial Residual Plot



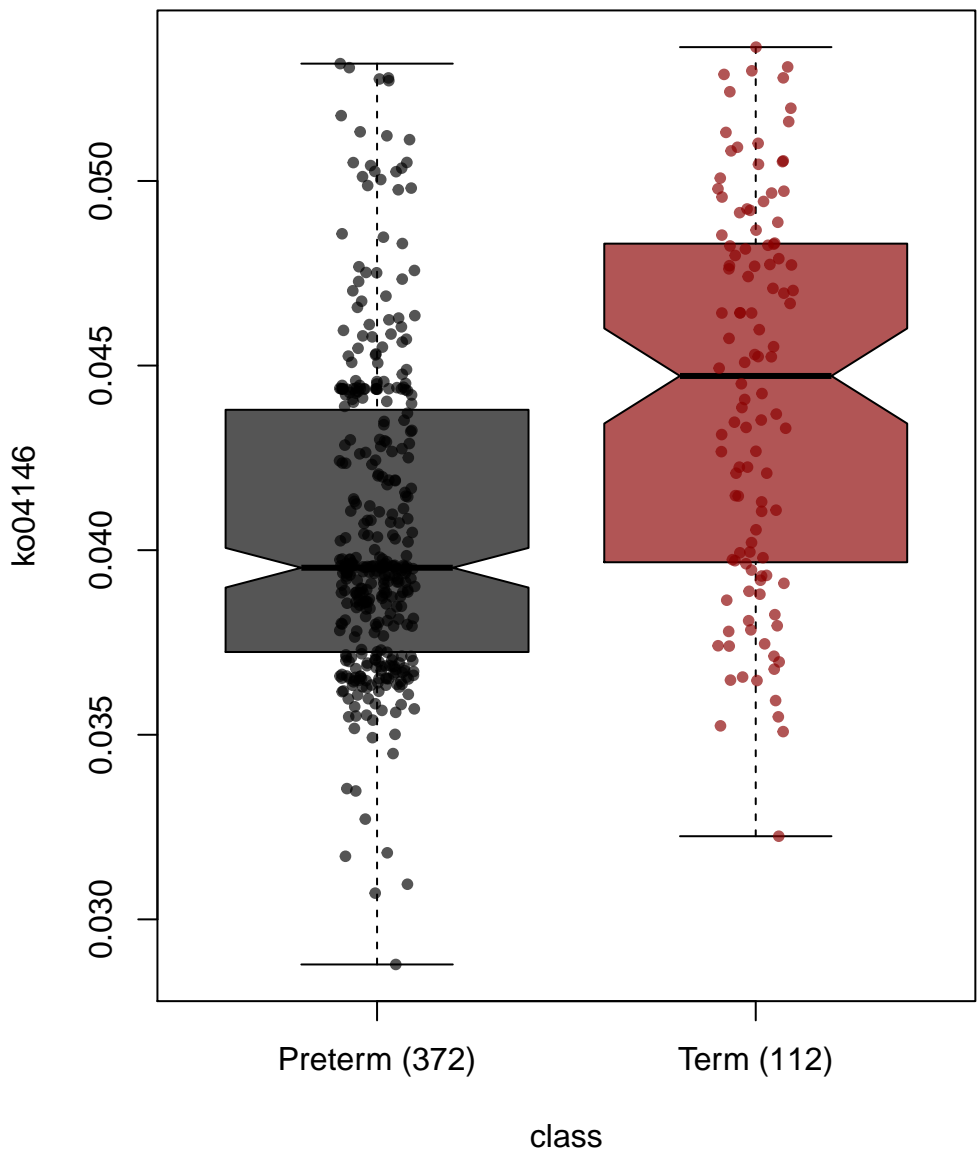
classTerm (-0.0103 sd 0.00134 , $p=1.06e-13$, $q=4.23e-13$)



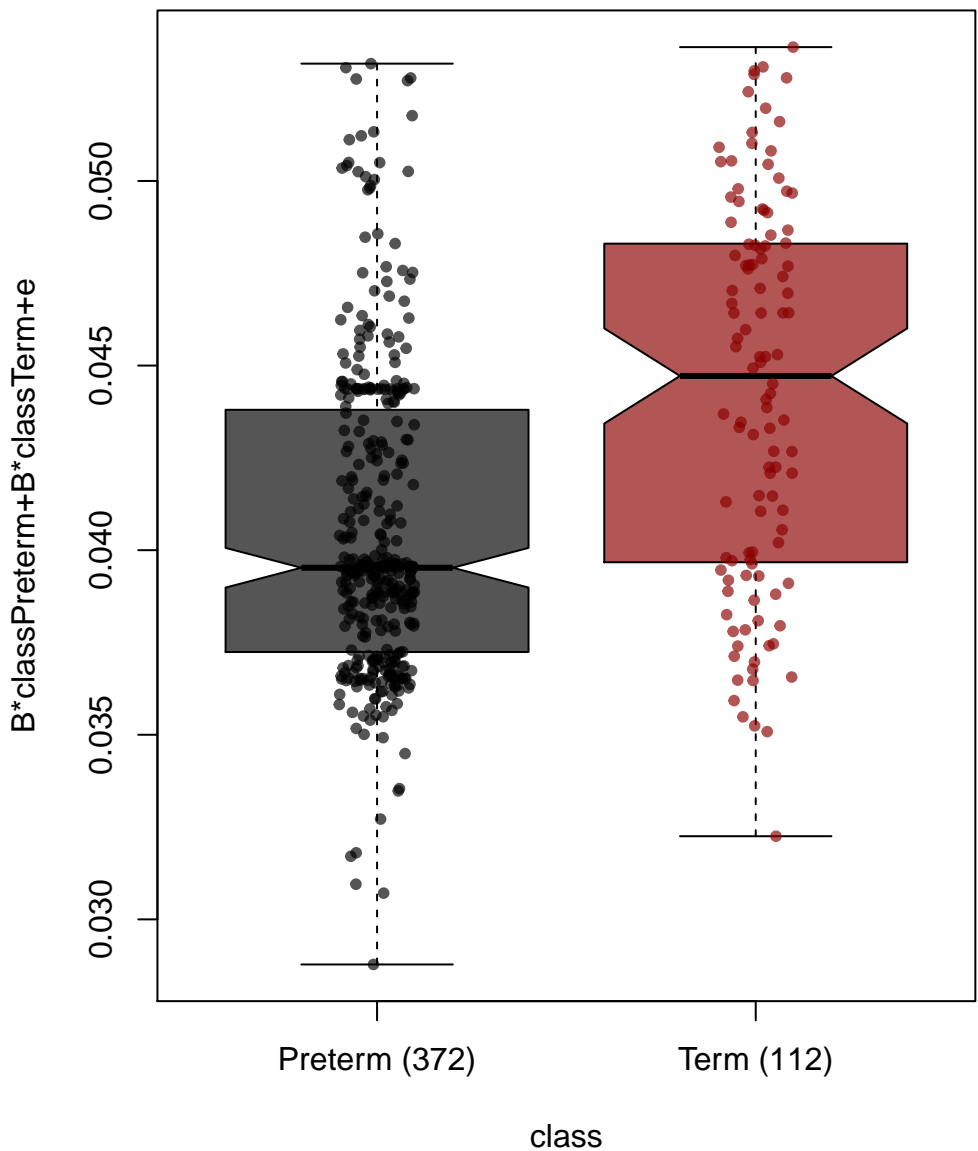
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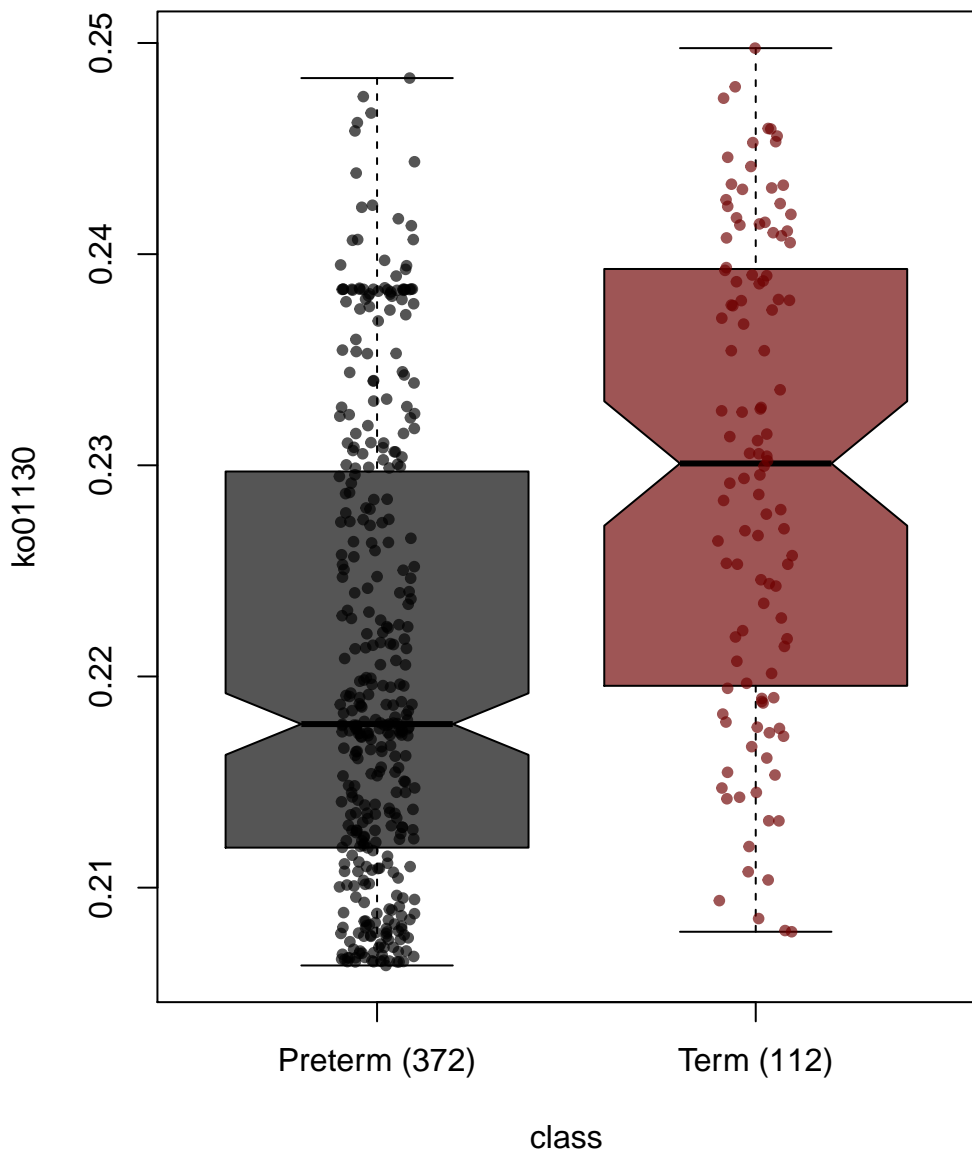
classTerm (0.00367 sd 0.00048, p=1.12e-13, q=4.39e-13)



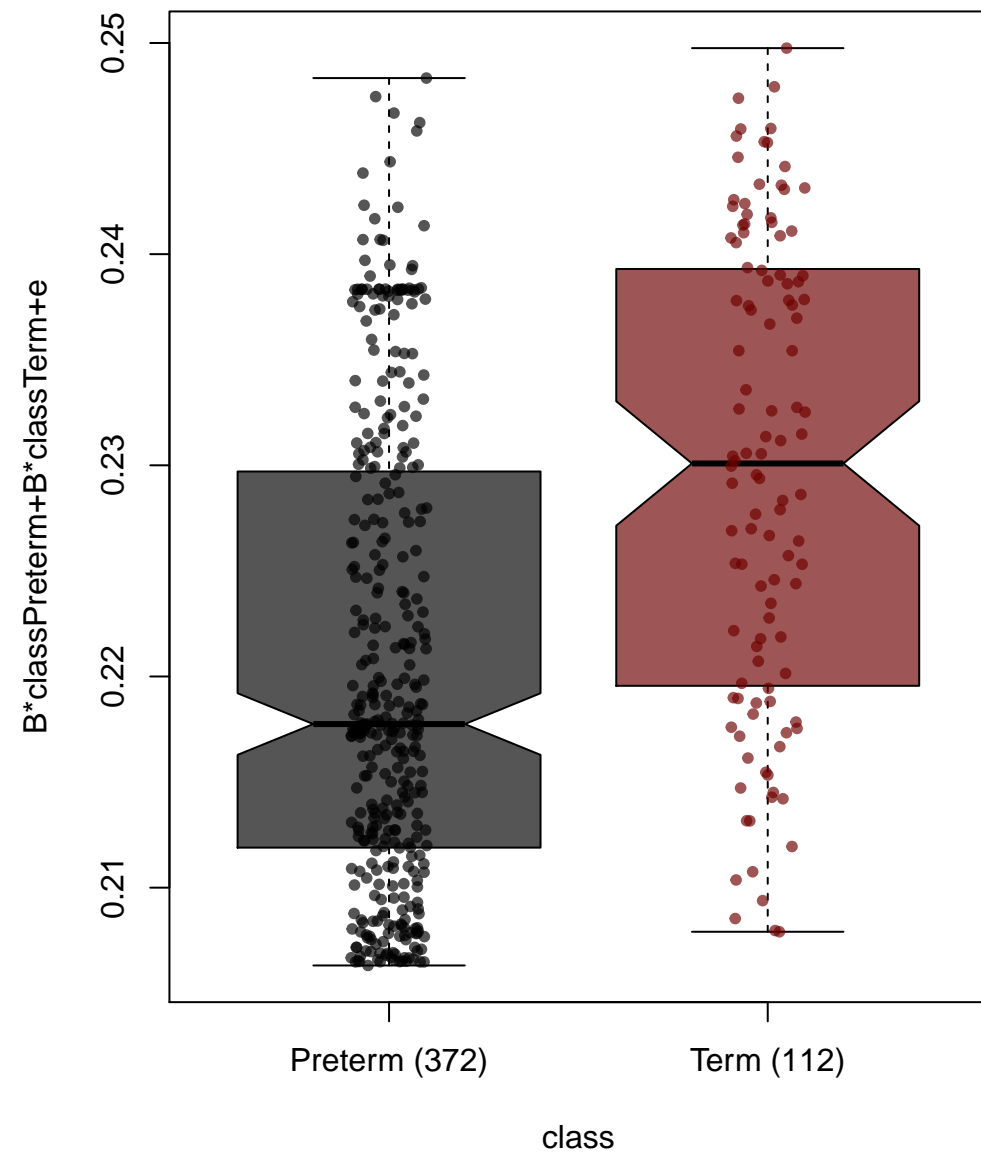
Partial Residual Plot



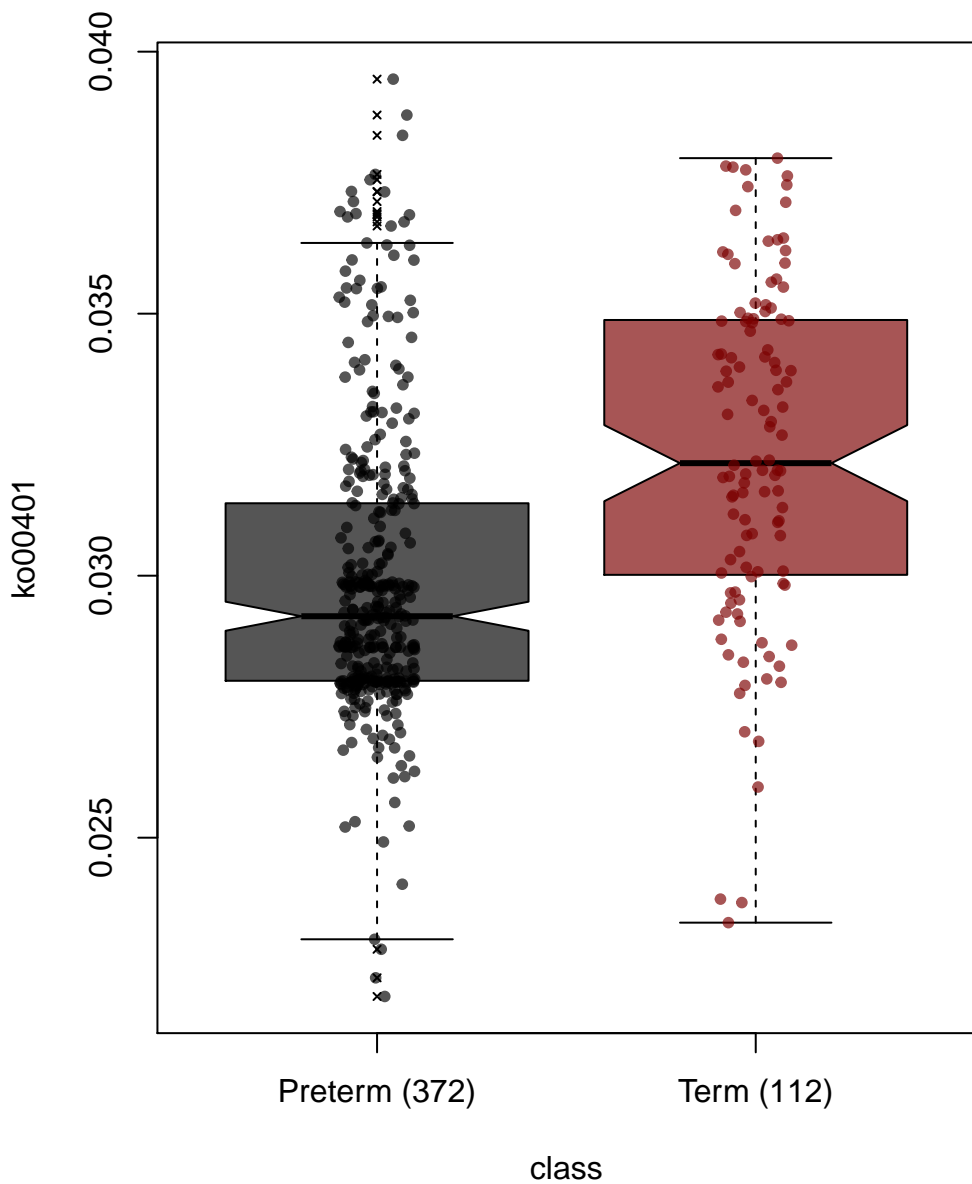
classTerm (0.00902 sd 0.00118, p=1.23e-13, q=4.78e-13)



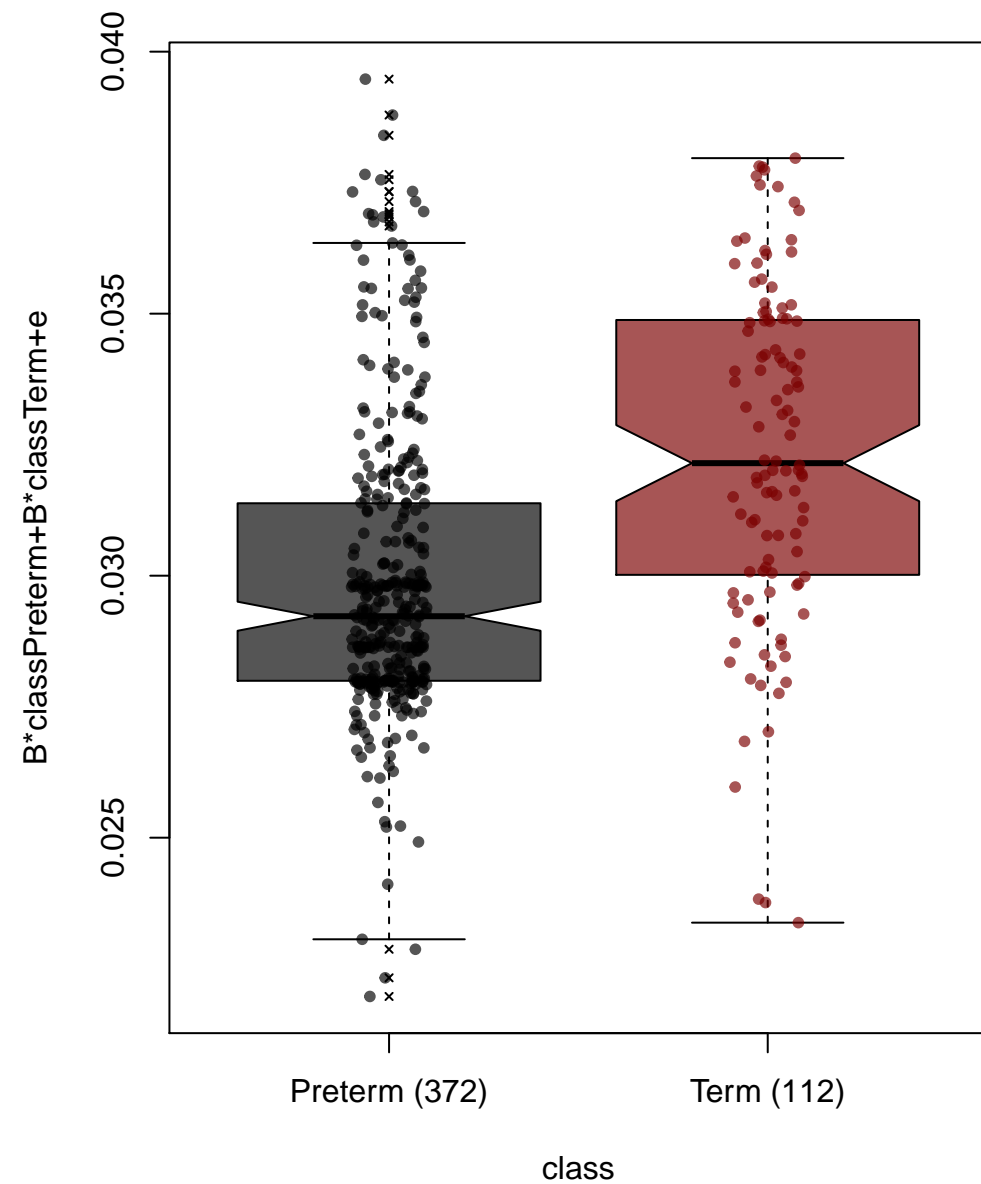
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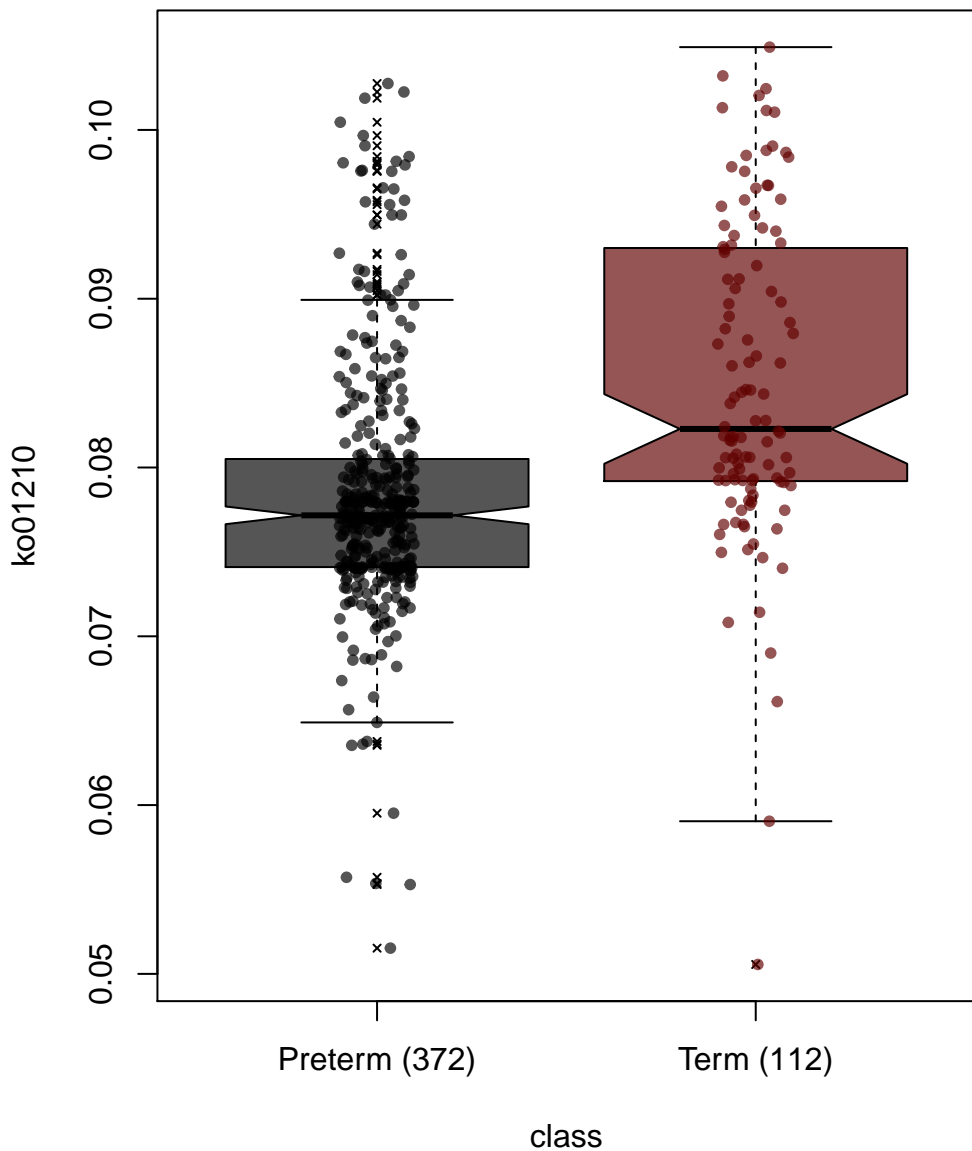
classTerm (0.0024 sd 0.000316, p=1.41e-13, q=5.38e-13)



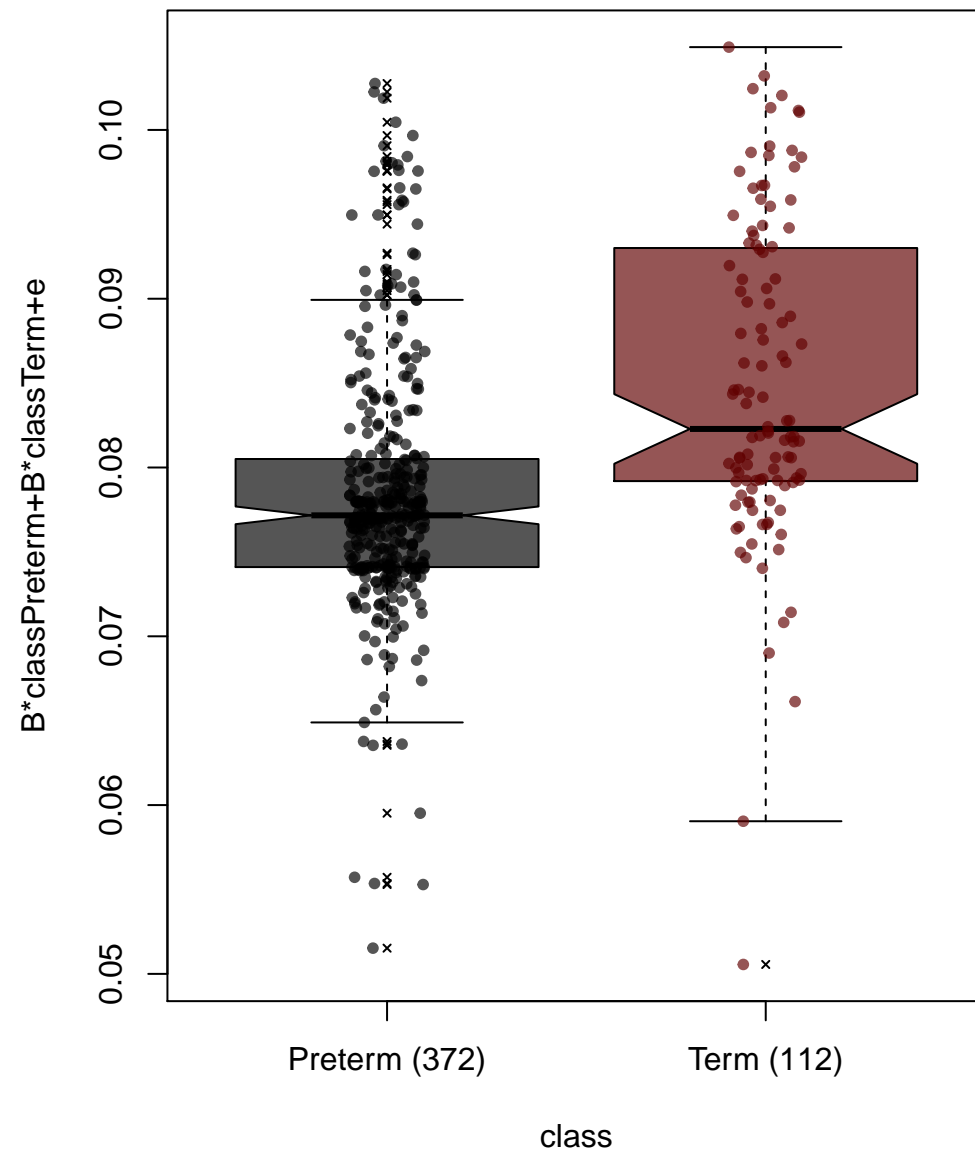
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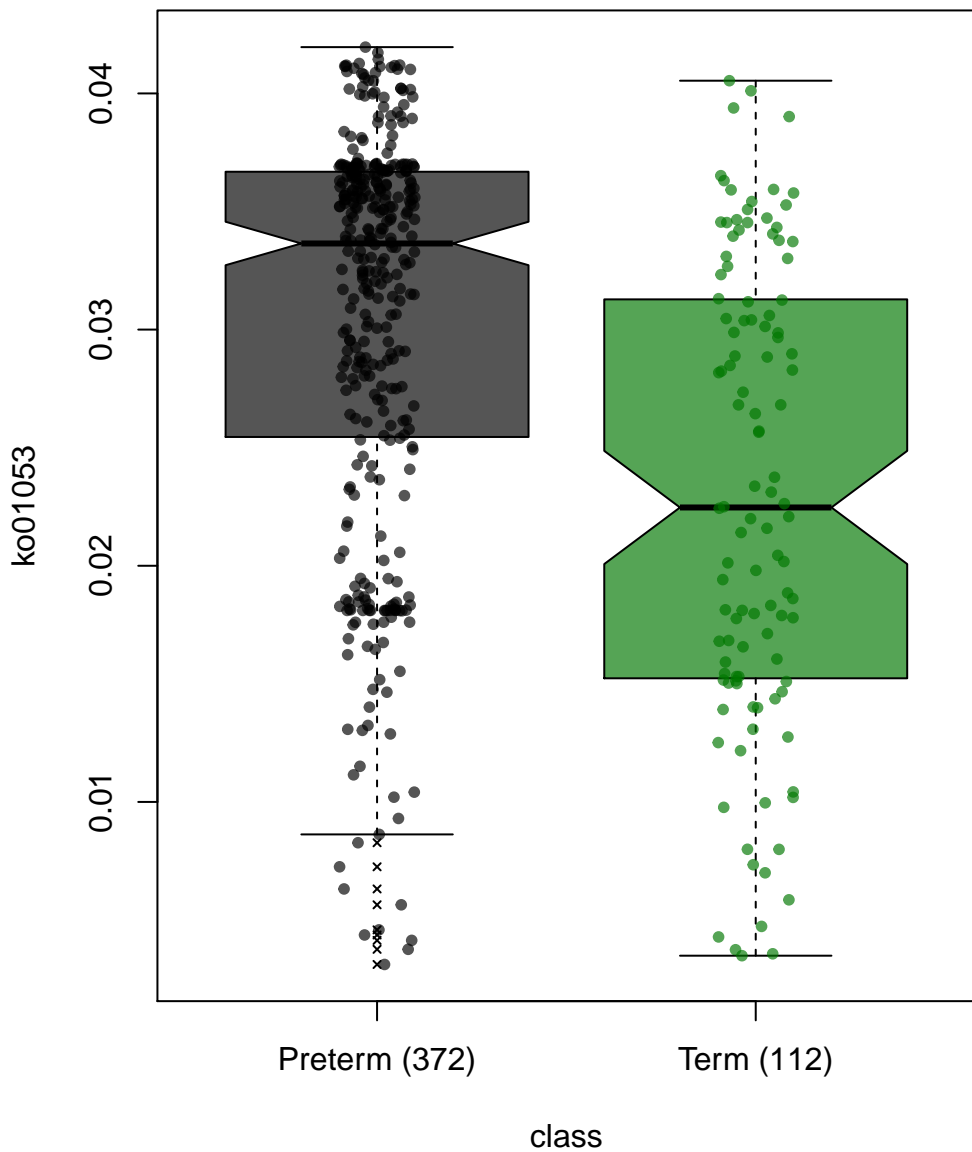
classTerm (0.00648 sd 0.000857, p=1.98e-13, q=7.45e-13)



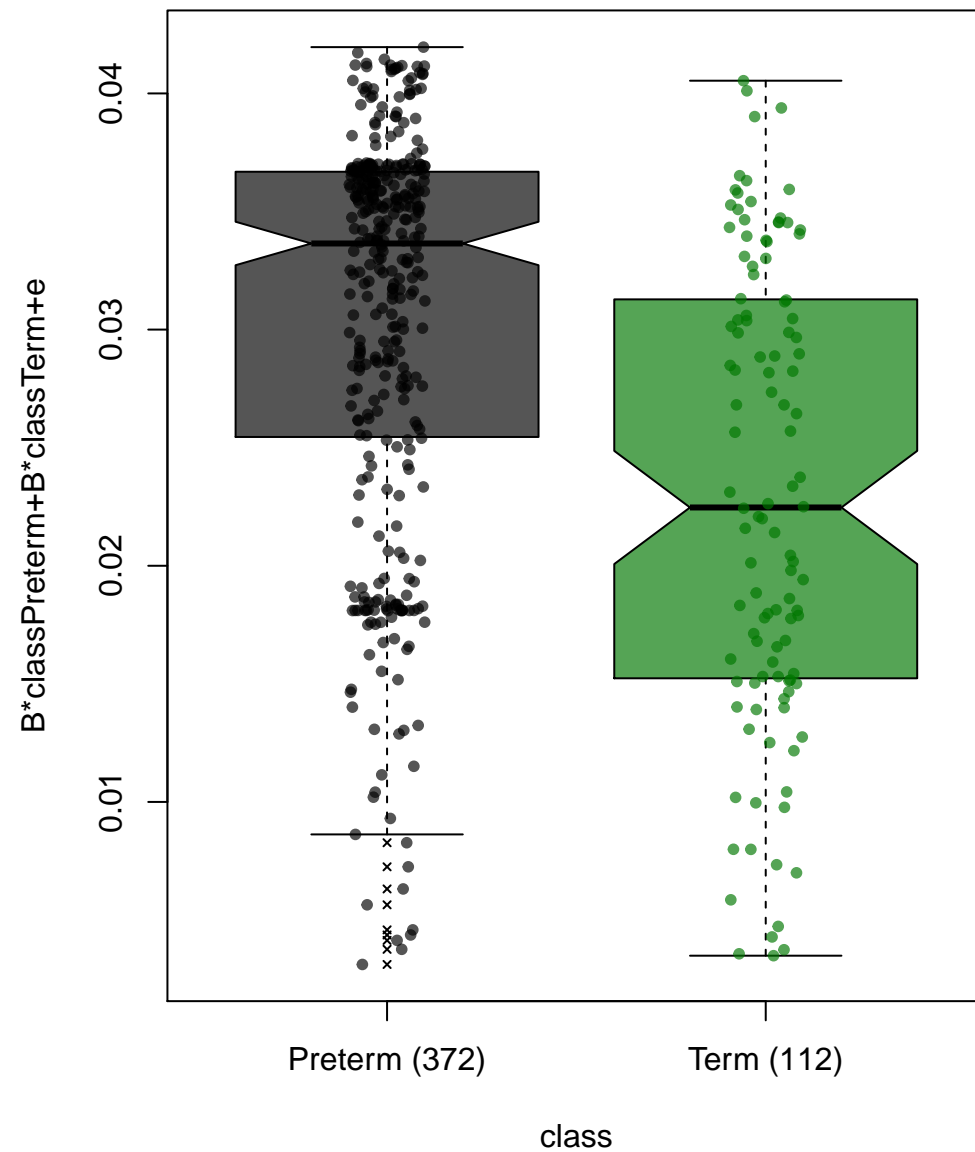
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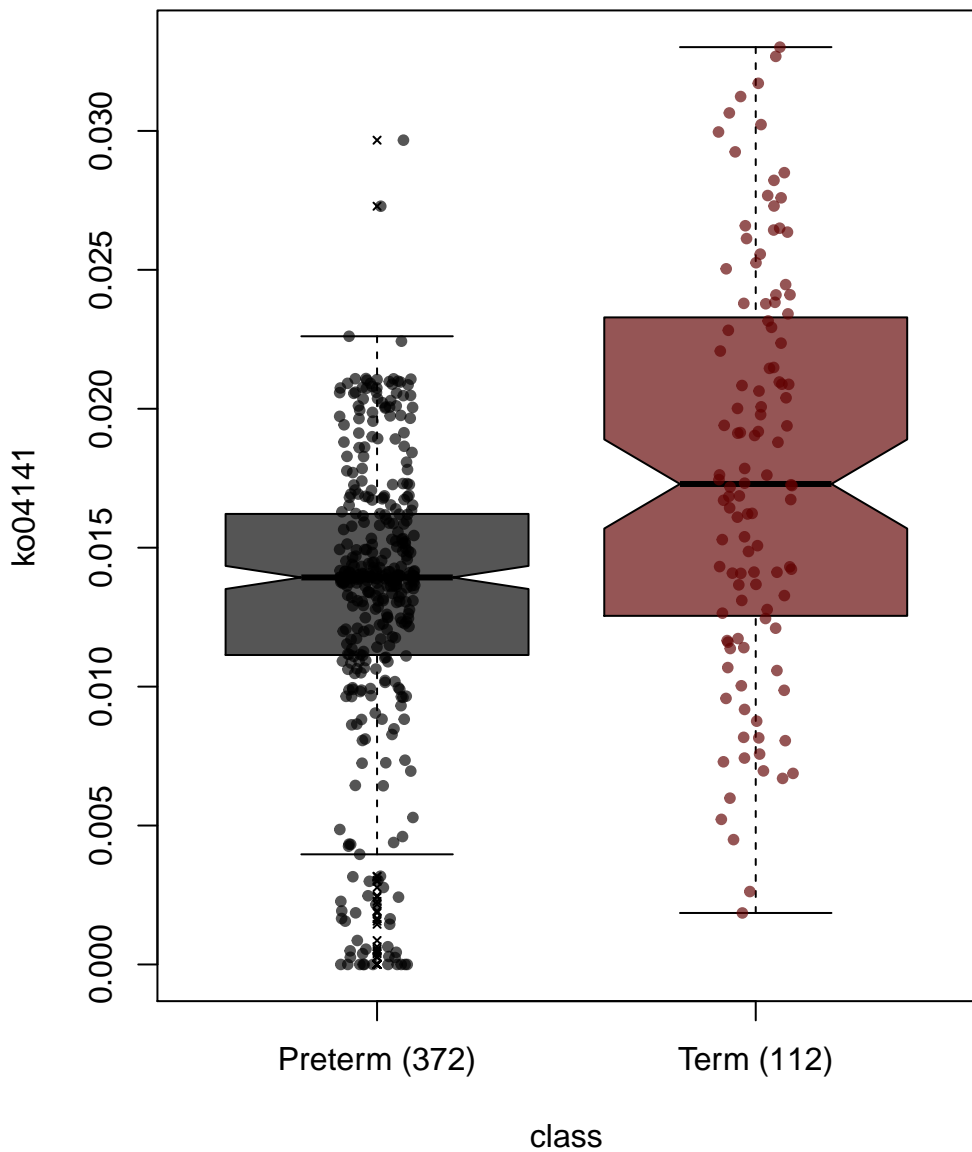
classTerm (−0.00729 sd 0.000969, p=2.63e−13, q=9.78e−13)



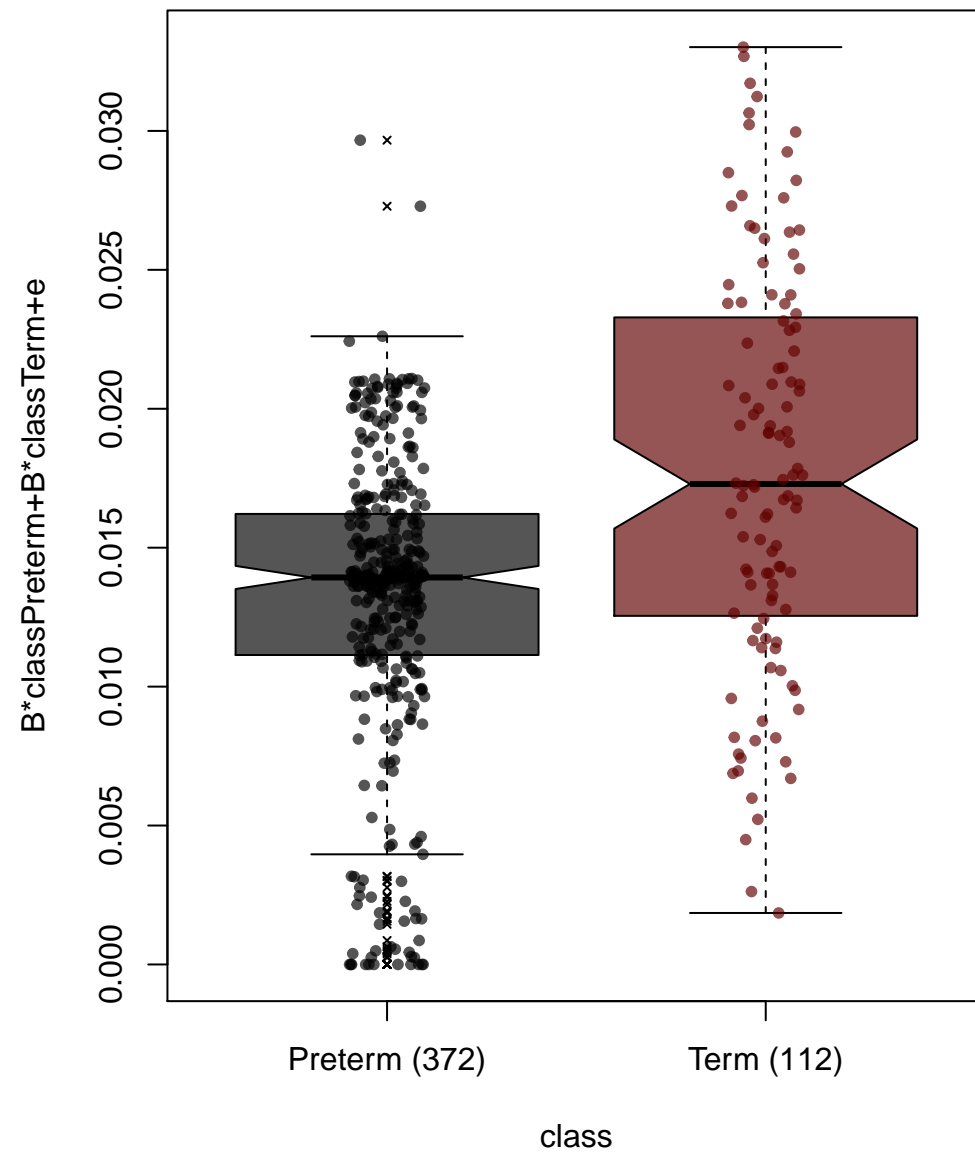
Partial Residual Plot



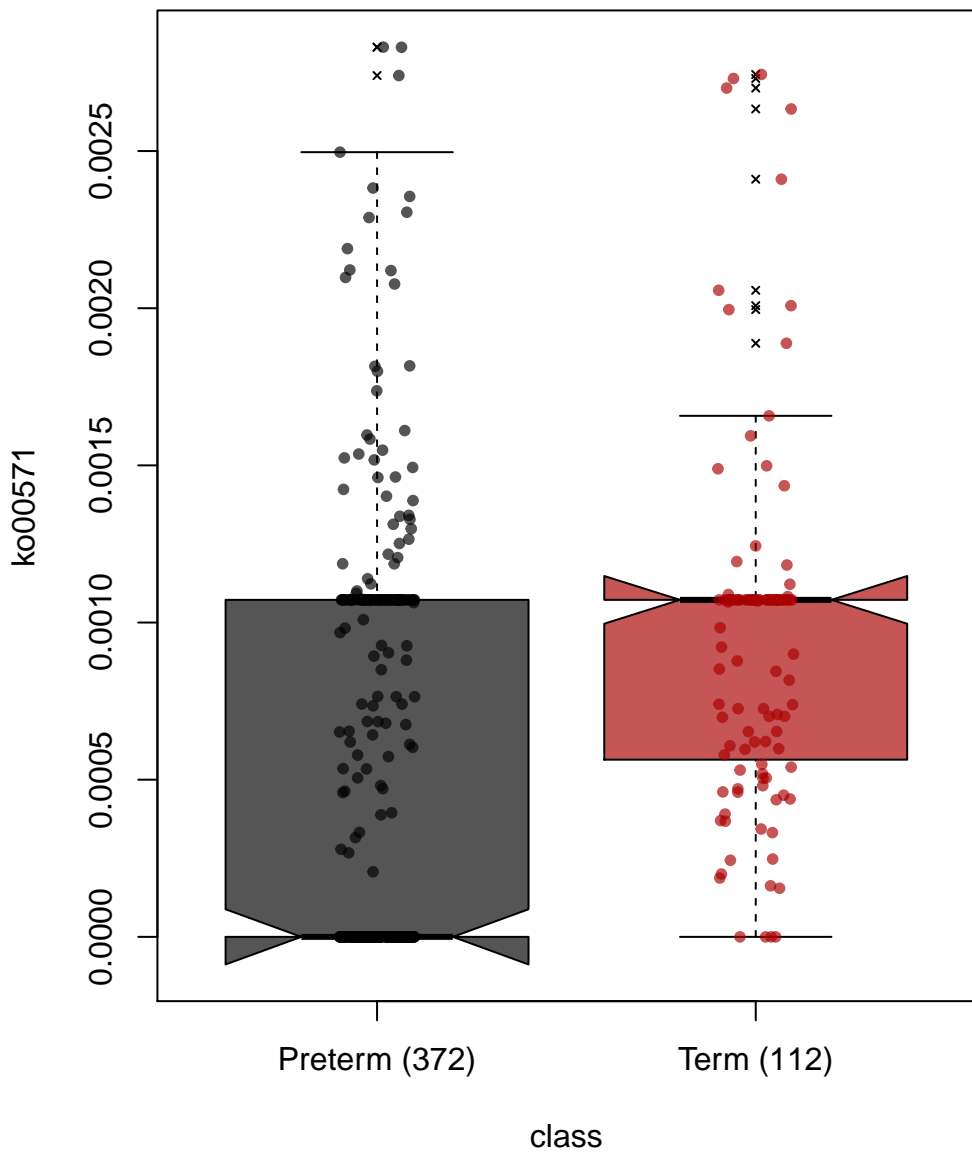
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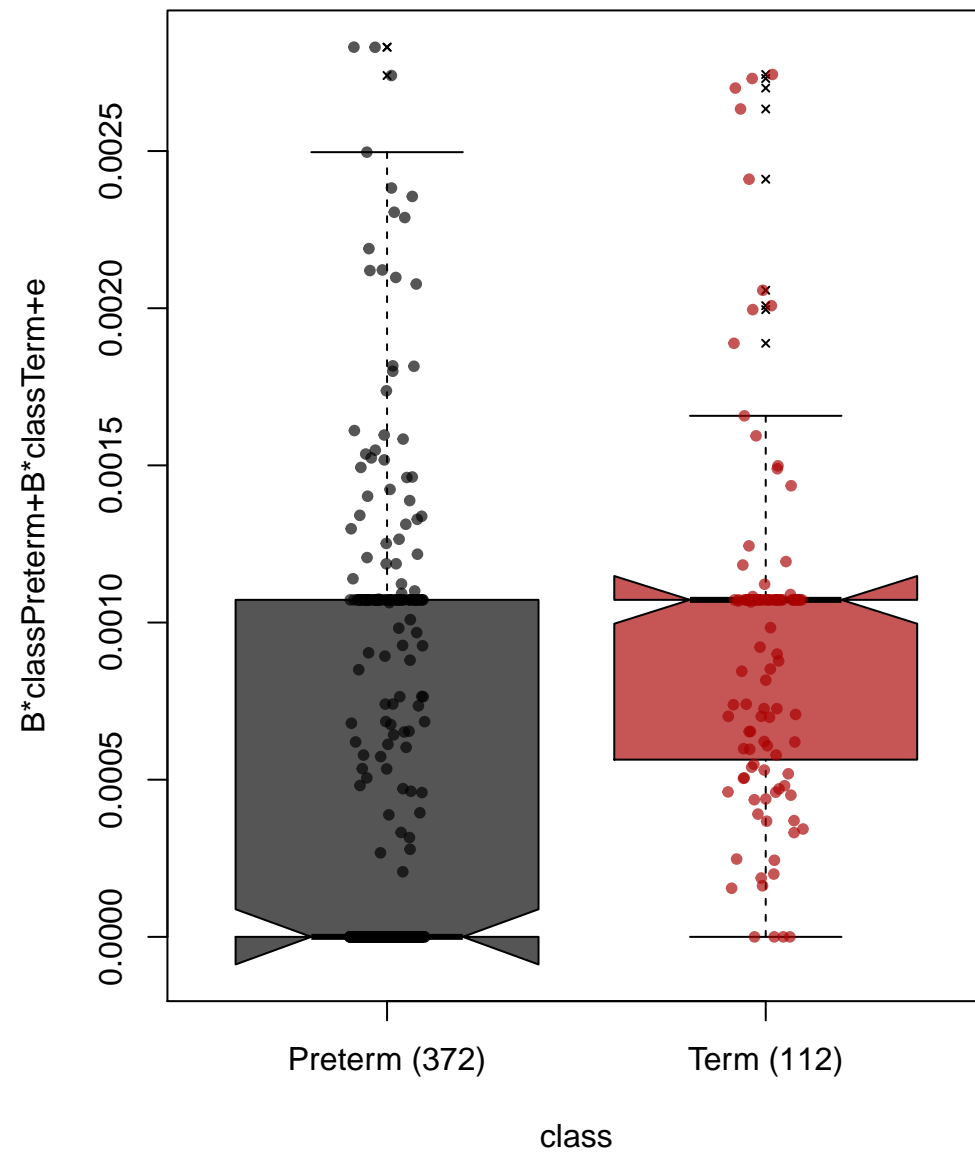
Partial Residual Plot



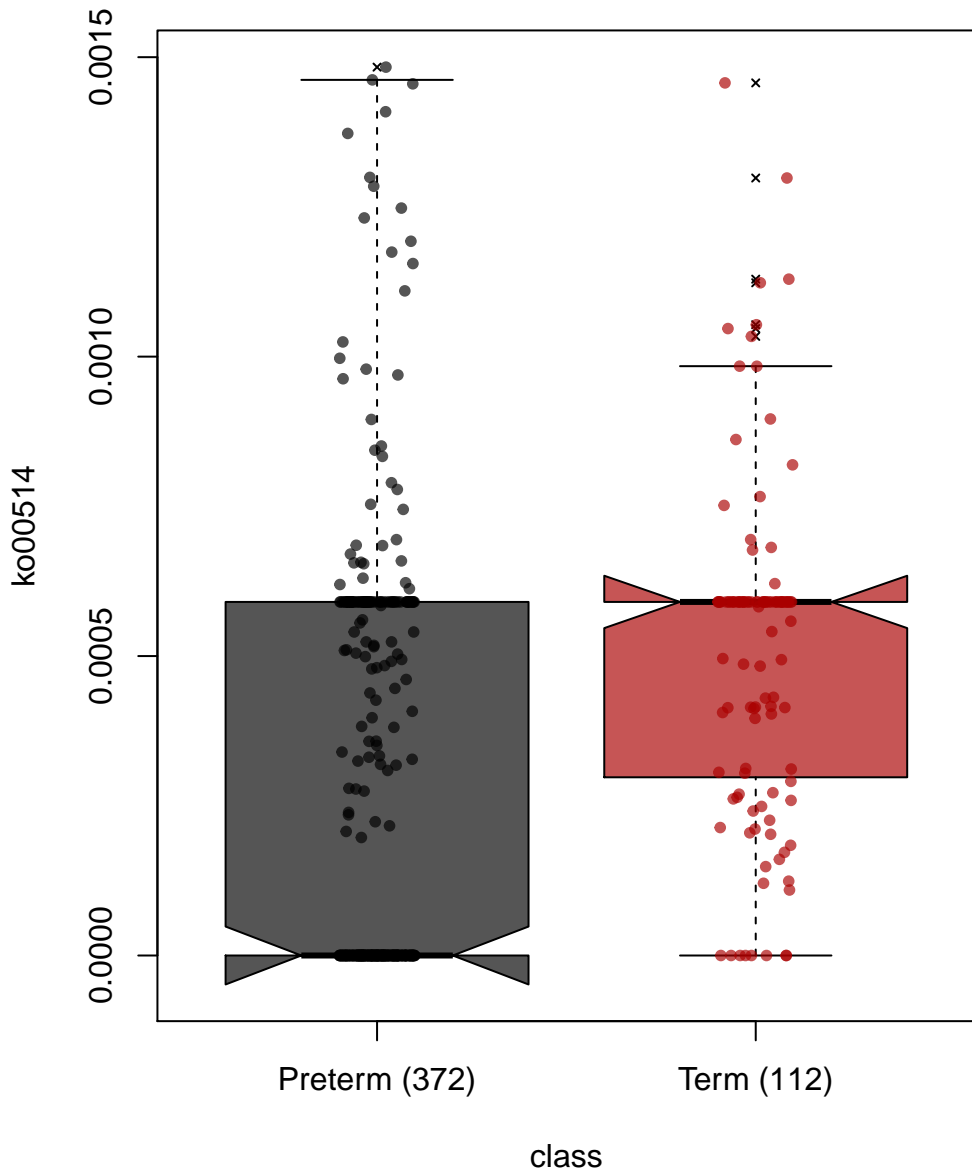
classTerm (0.000484 sd 6.72e-05, p=2.23e-12, q=8.08e-12)



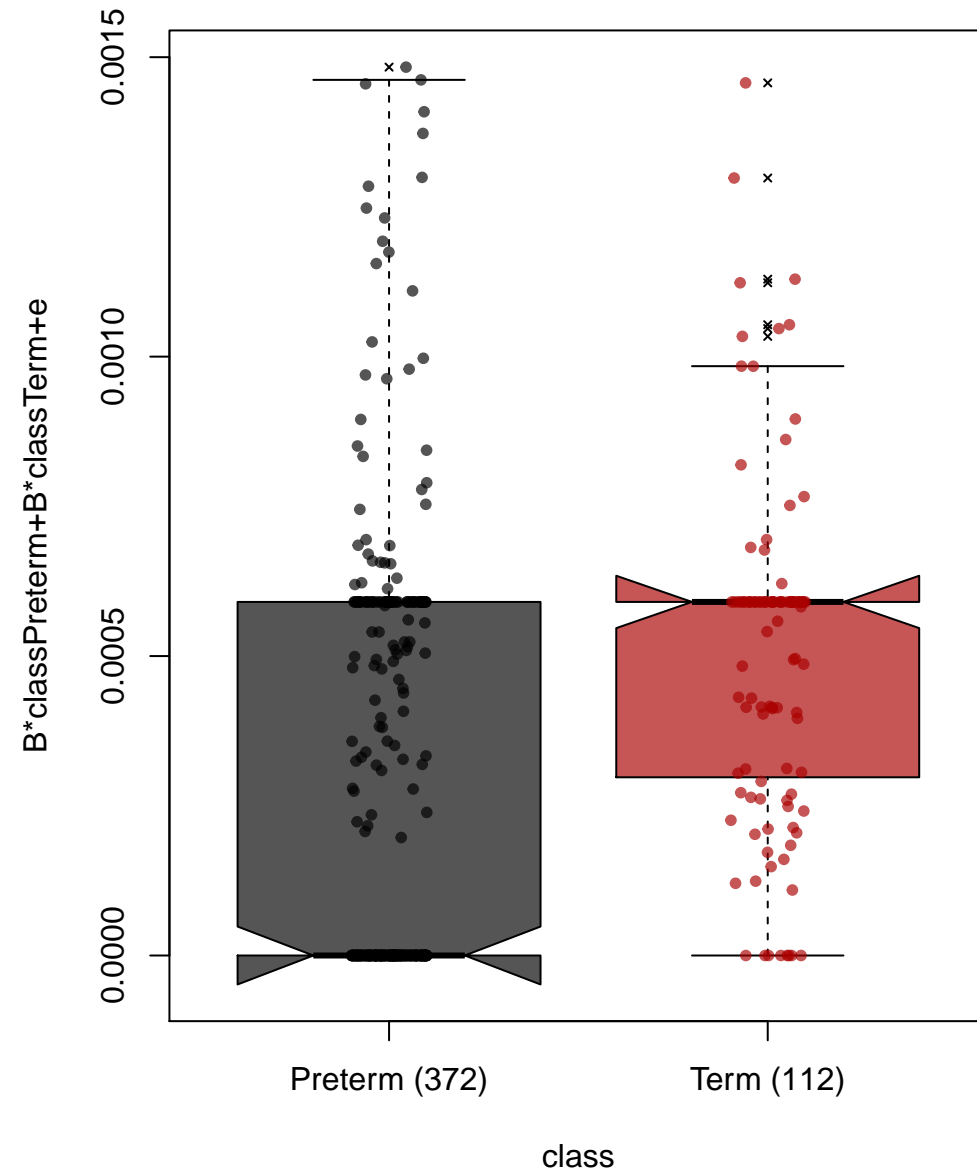
Partial Residual Plot



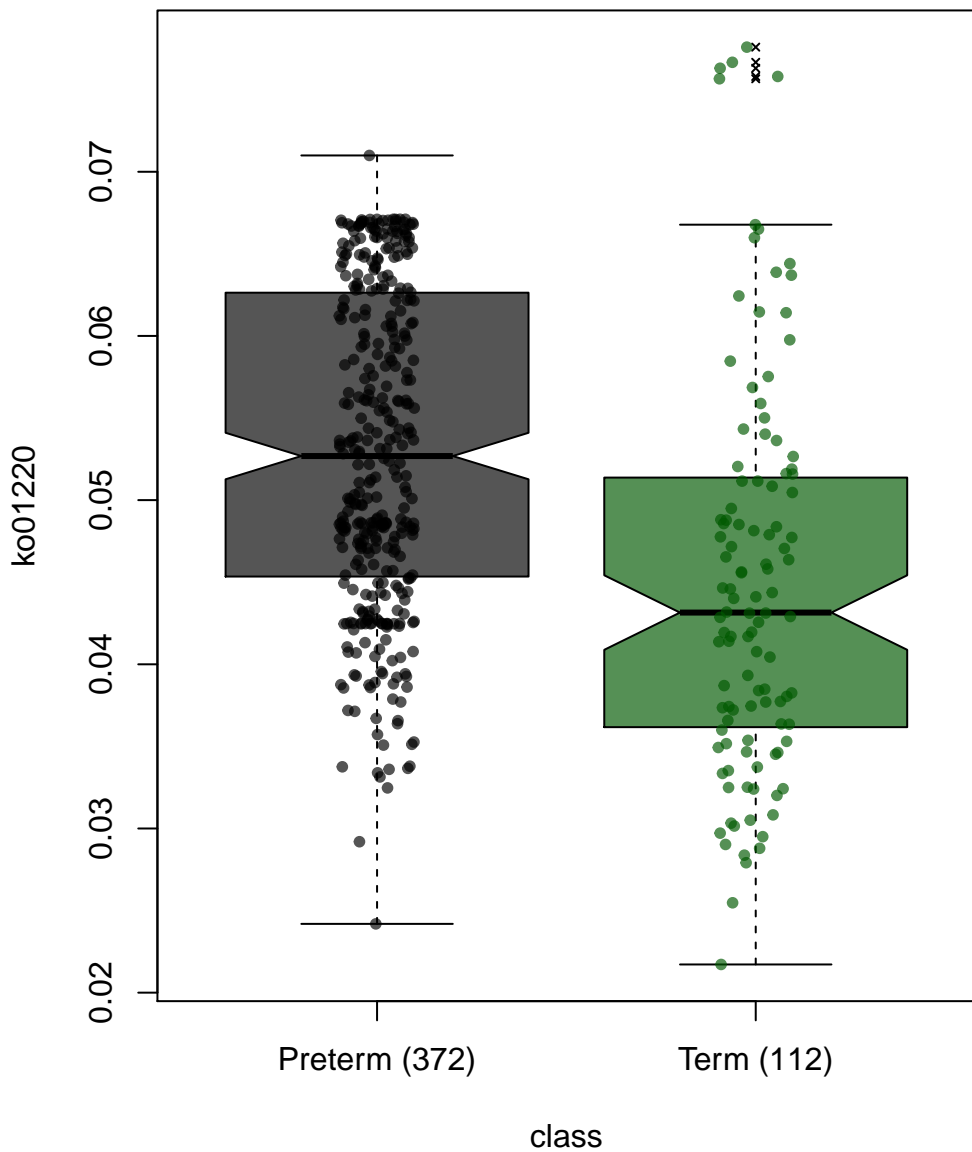
classTerm (0.000258 sd 3.58e-05, p=2.55e-12, q=9.12e-12)



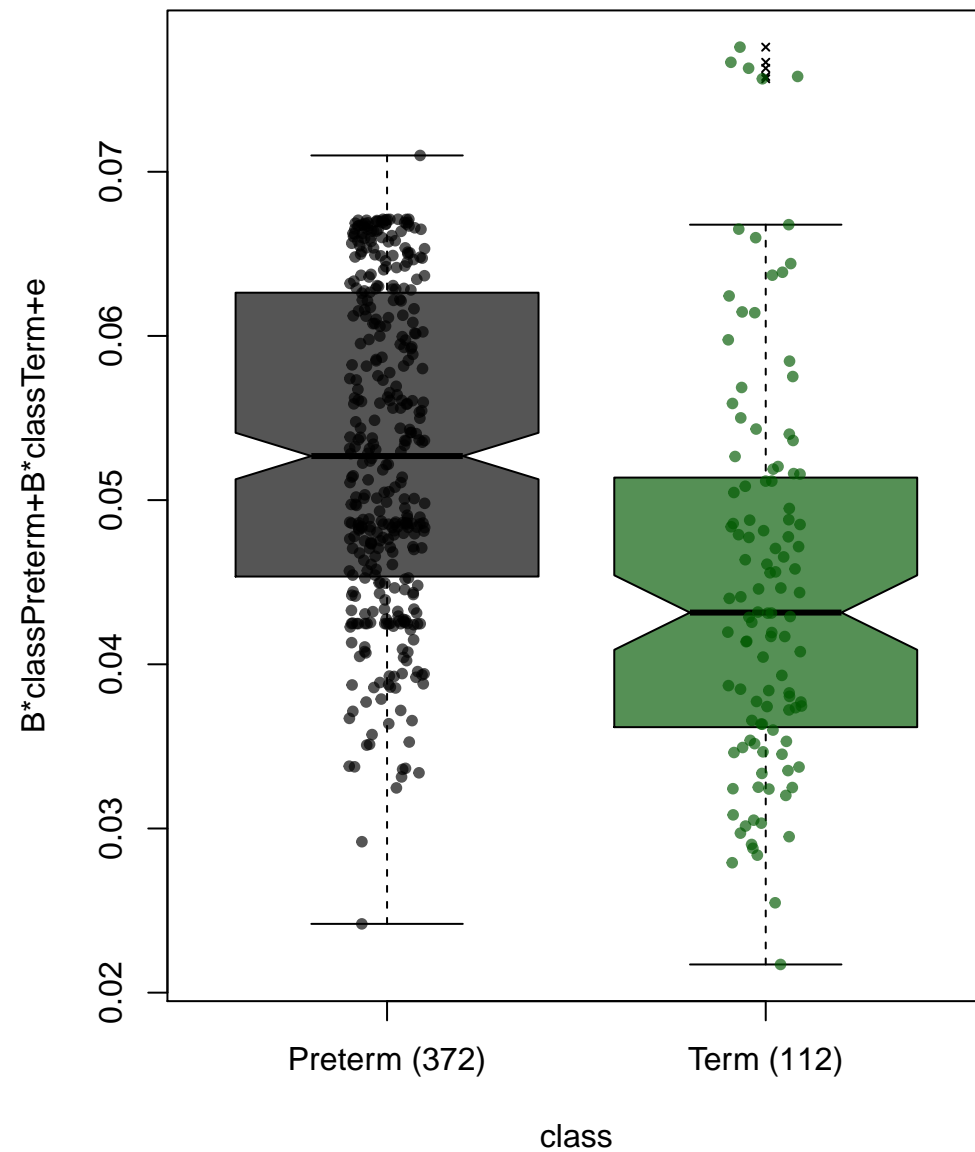
Partial Residual Plot



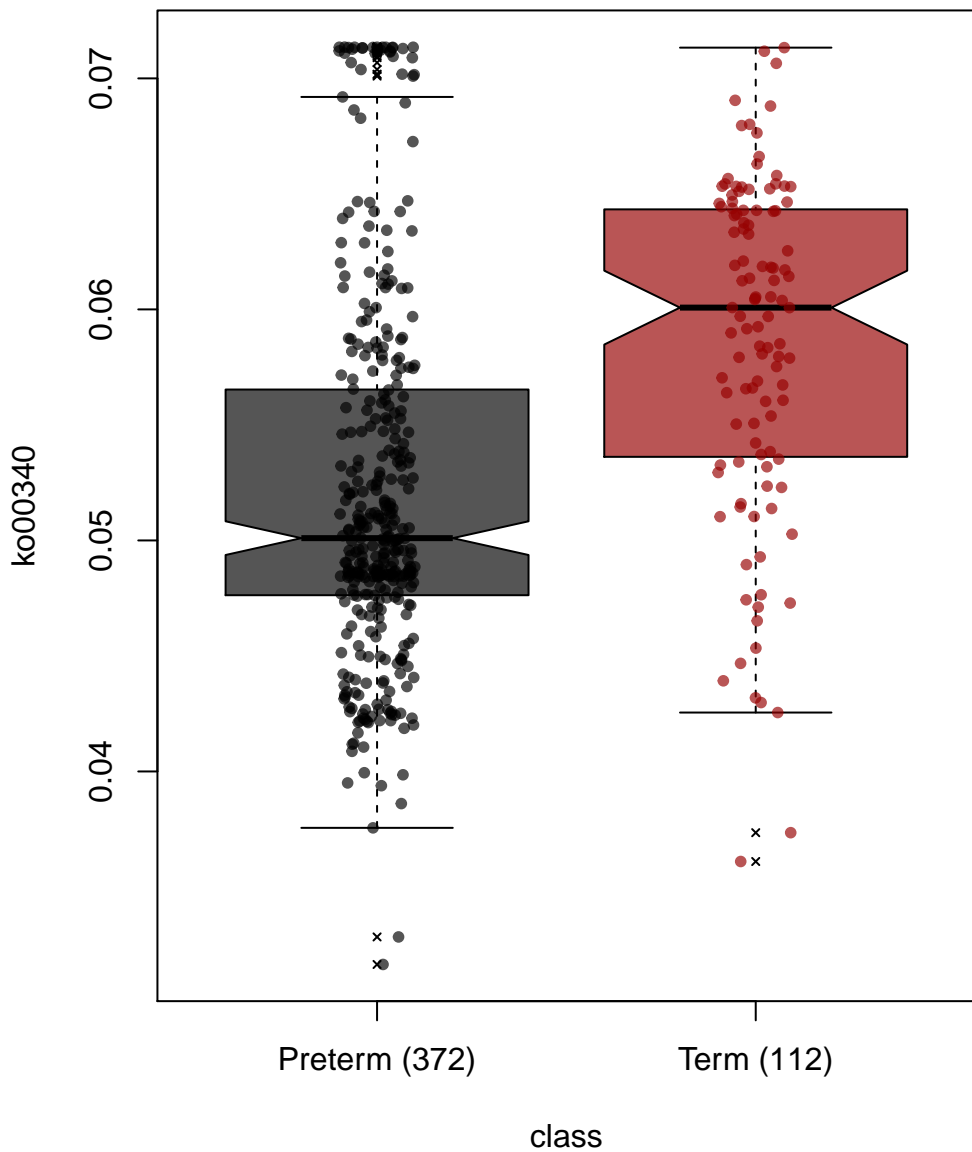
classTerm (-0.00797 sd 0.00111 , $p=3.13e-12$, $q=1.1e-11$)



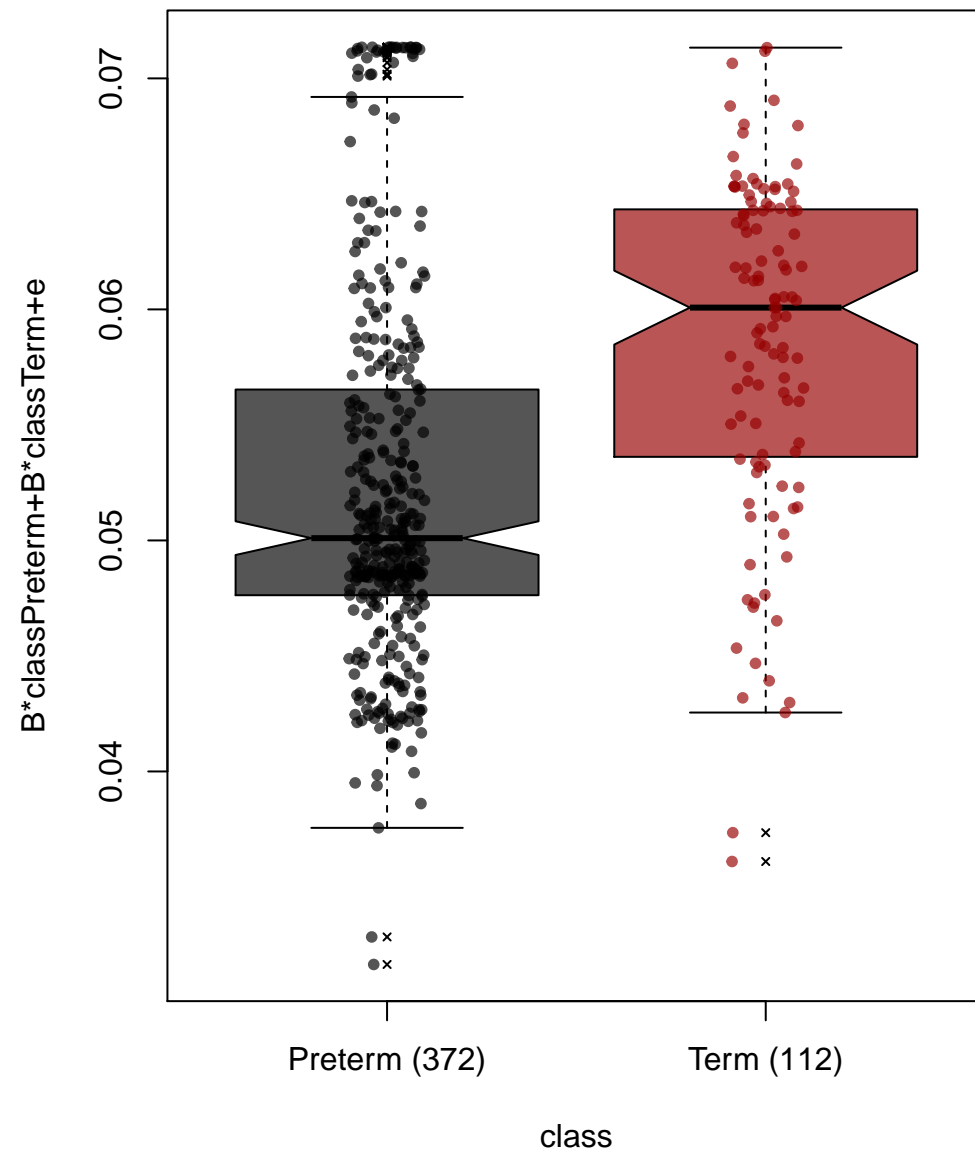
Partial Residual Plot



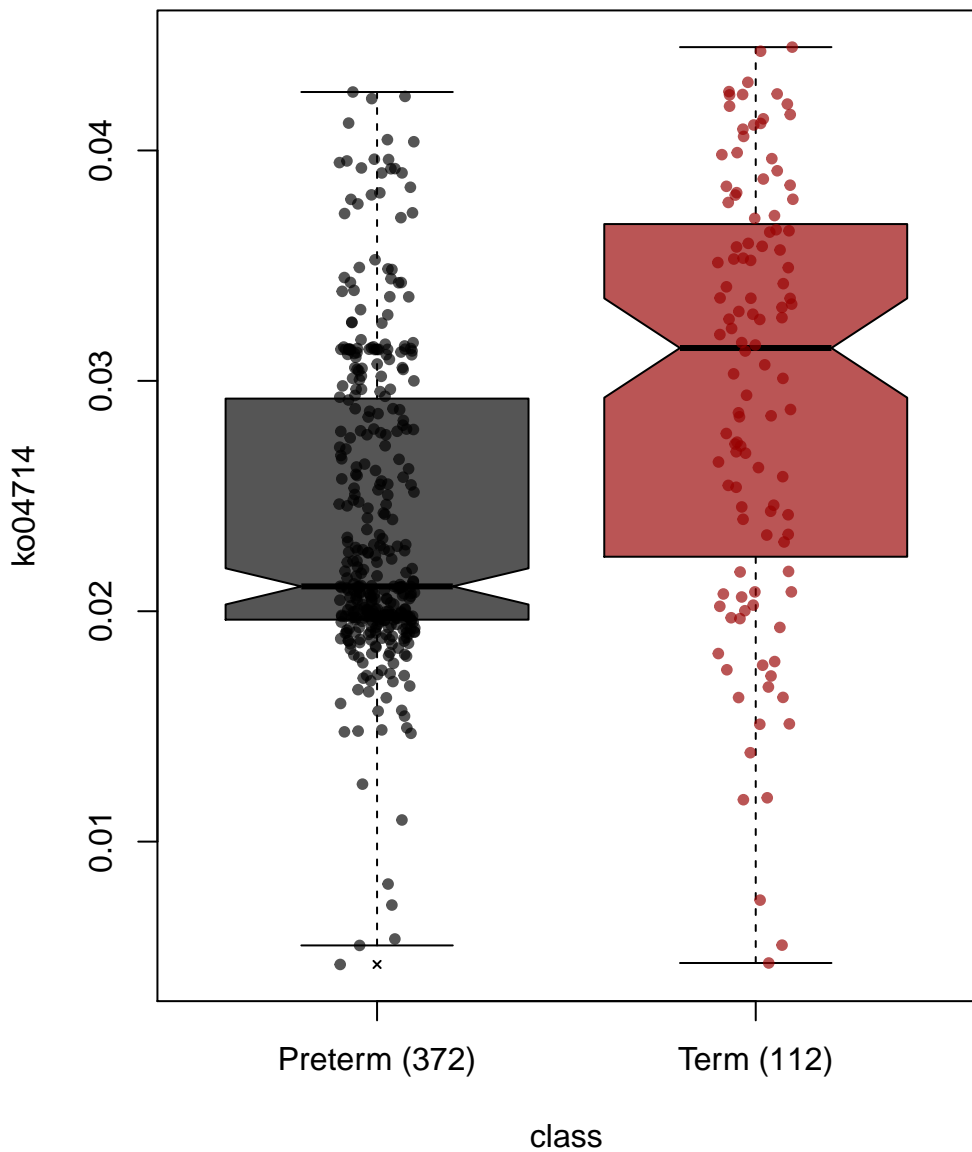
classTerm (0.00618 sd 0.000865, p=3.44e-12, q=1.2e-11)



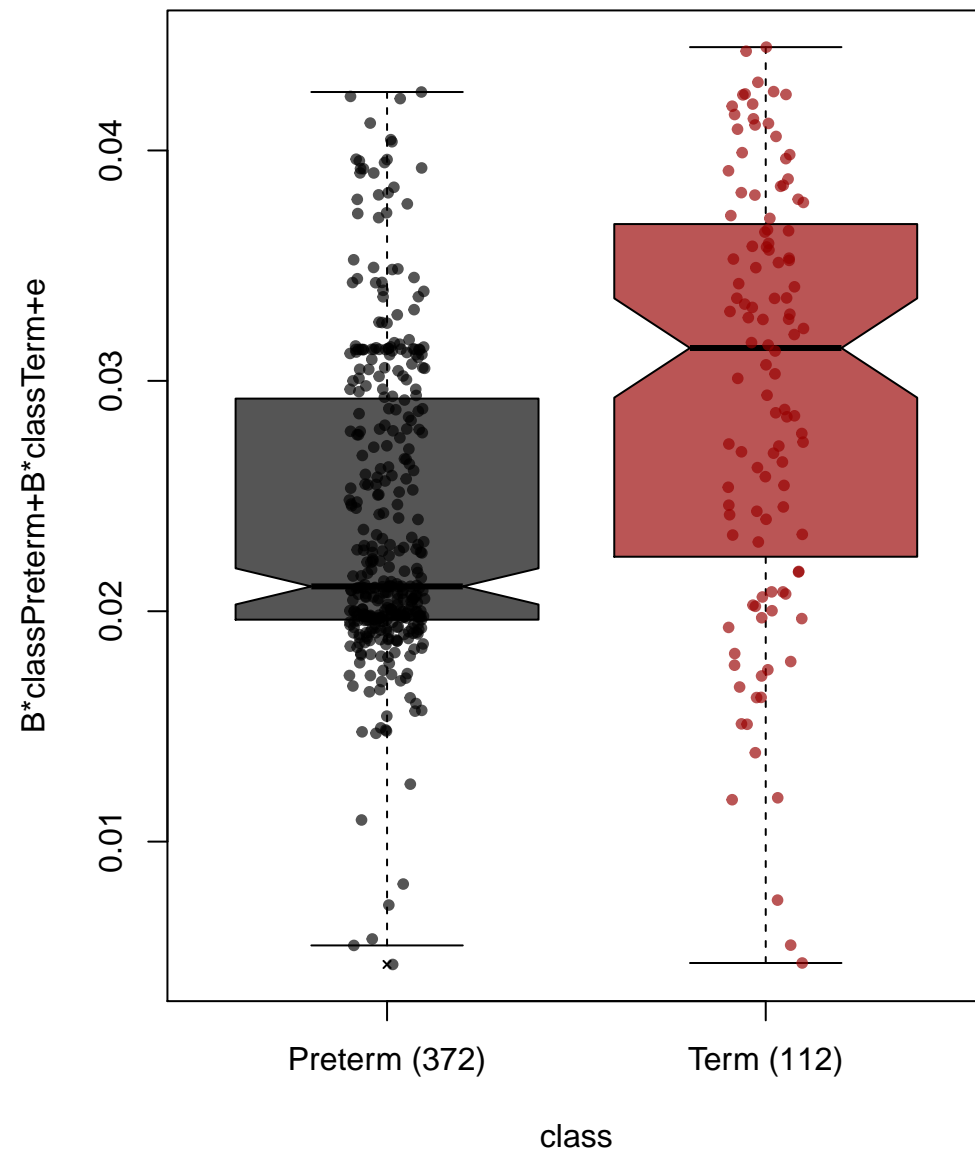
Partial Residual Plot



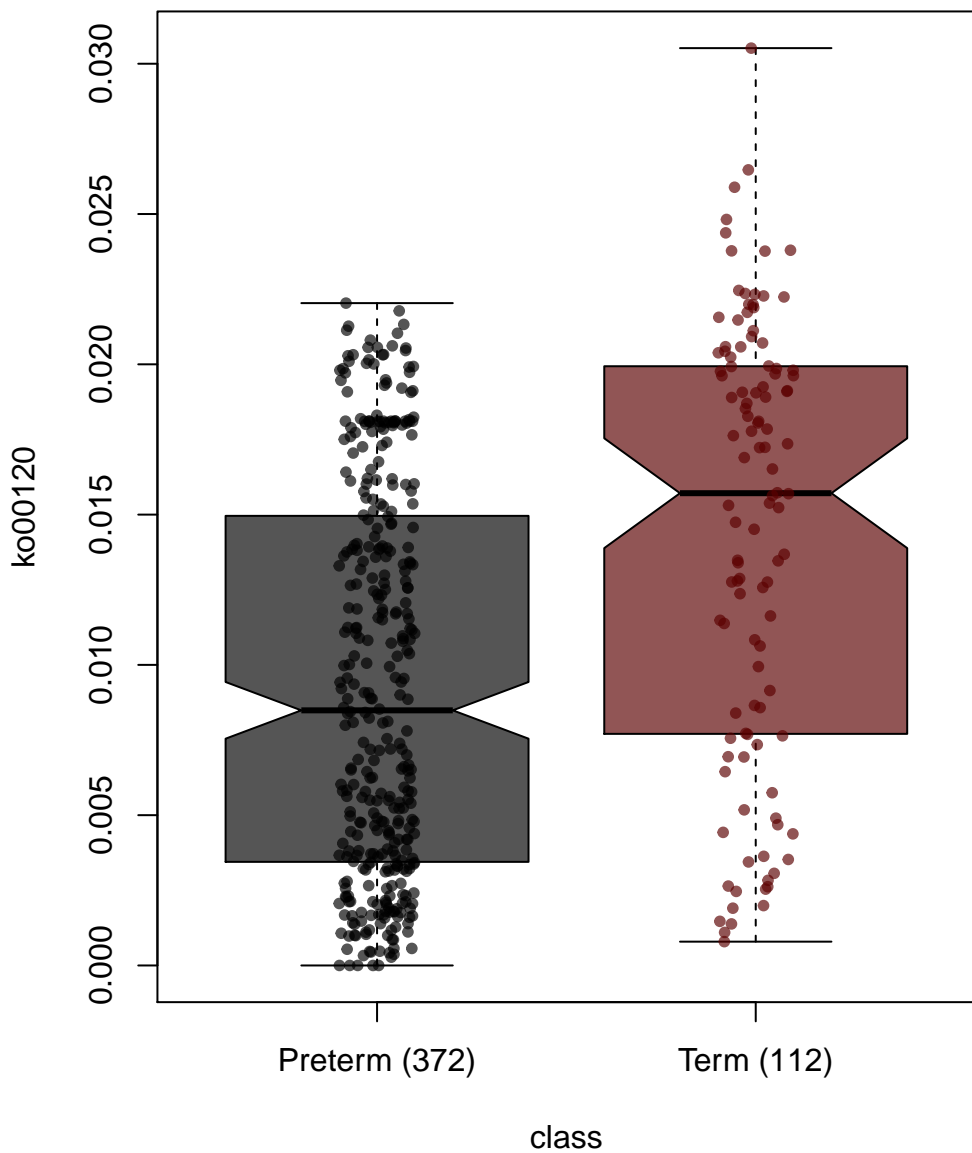
classTerm (0.00556 sd 0.000794, p=8.54e-12, q=2.94e-11)



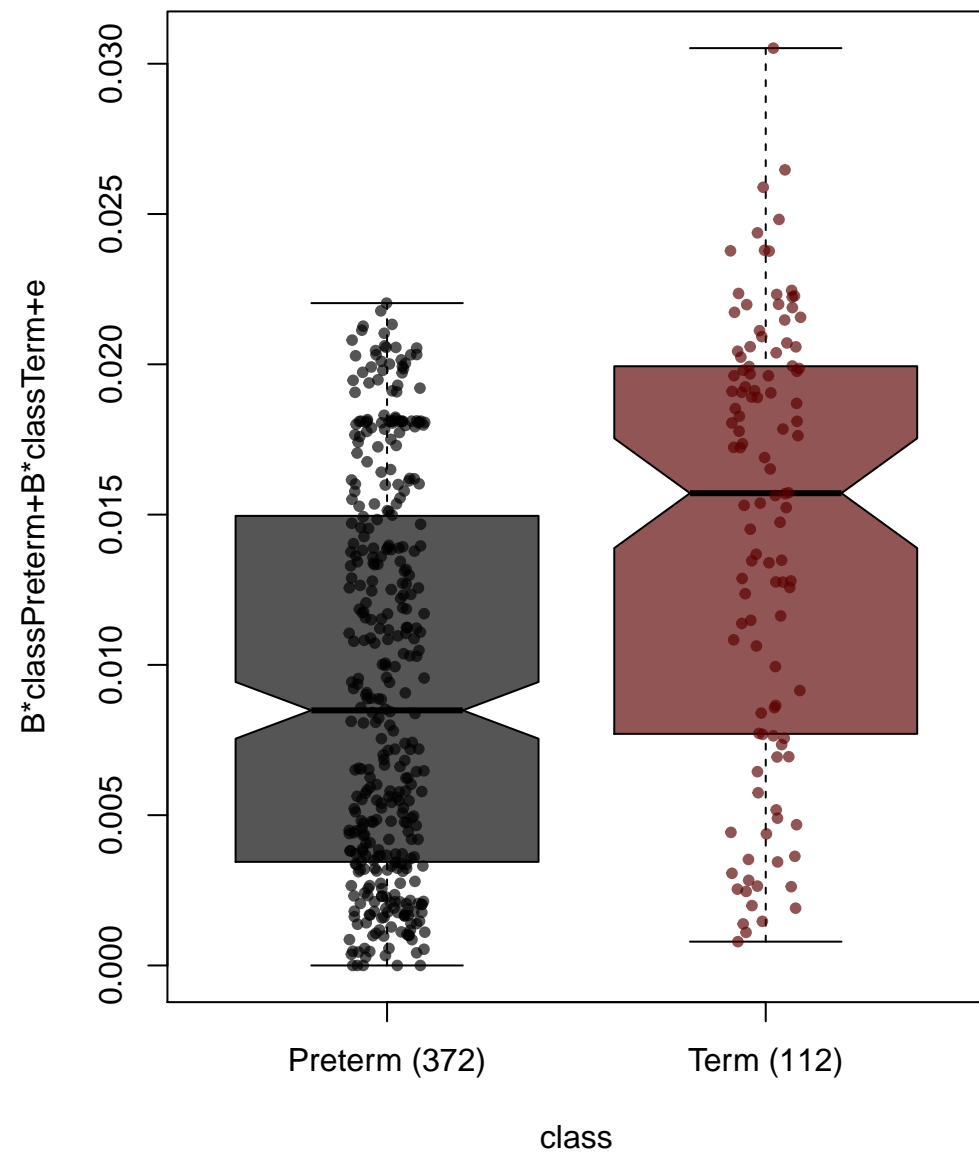
Partial Residual Plot



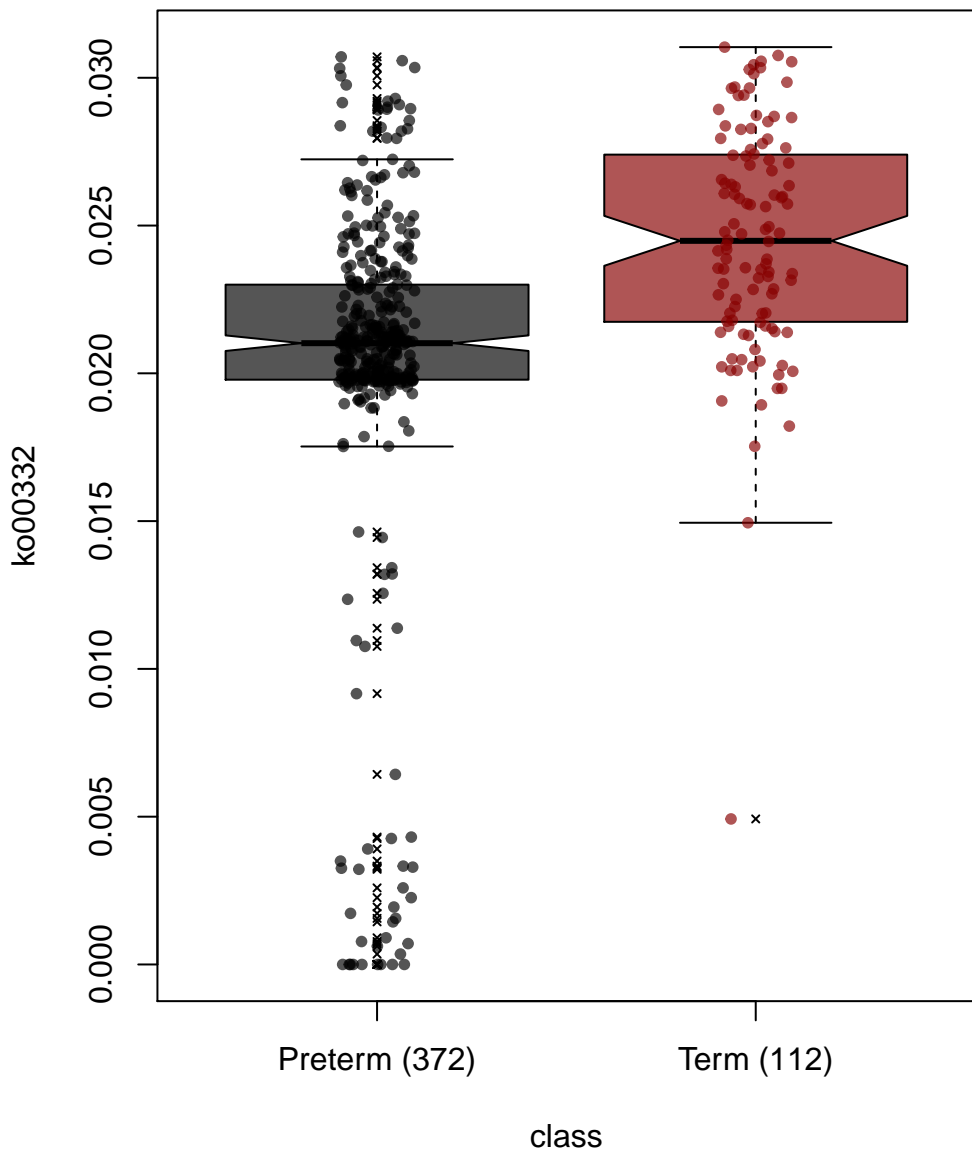
classTerm (0.00499 sd 0.000717, p=1.1e-11, q=3.74e-11)



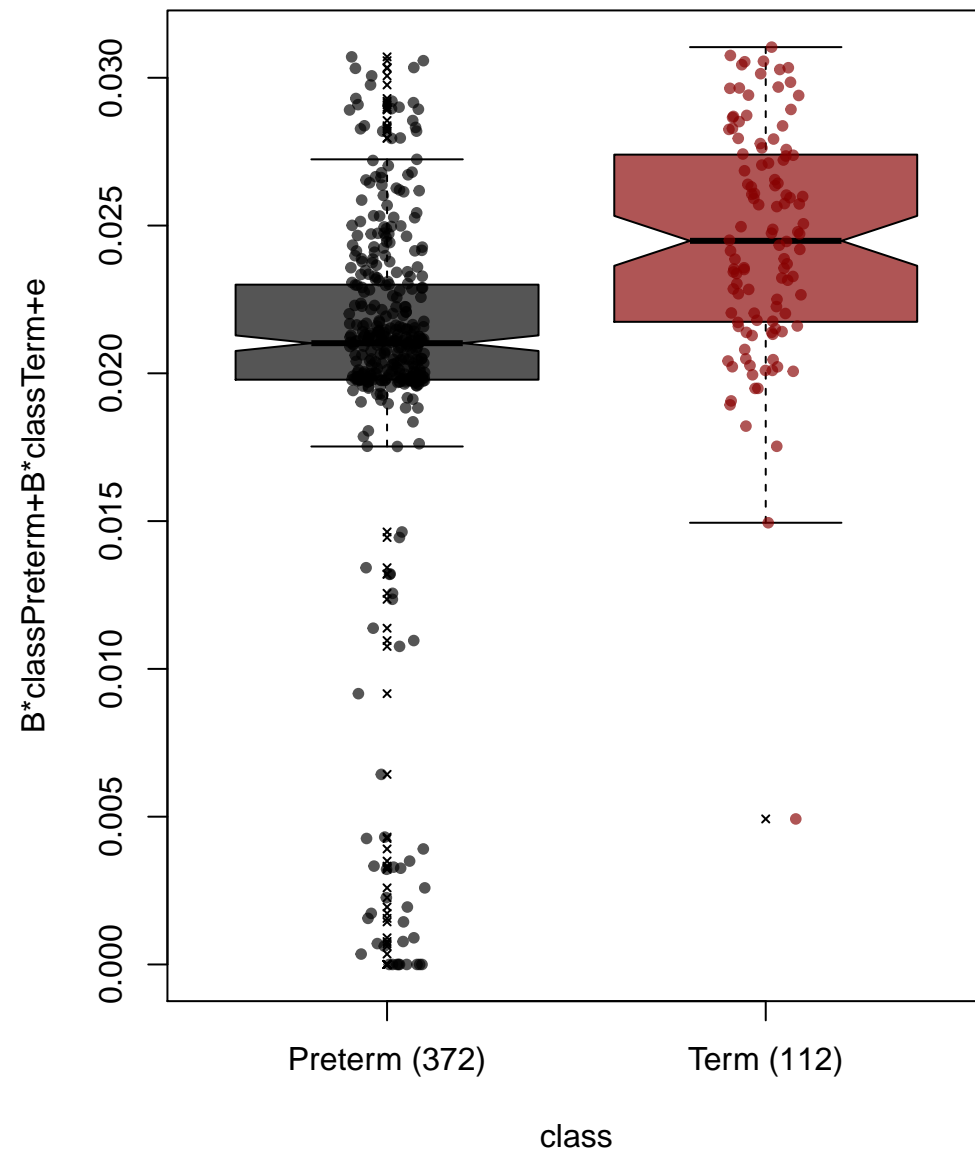
Partial Residual Plot



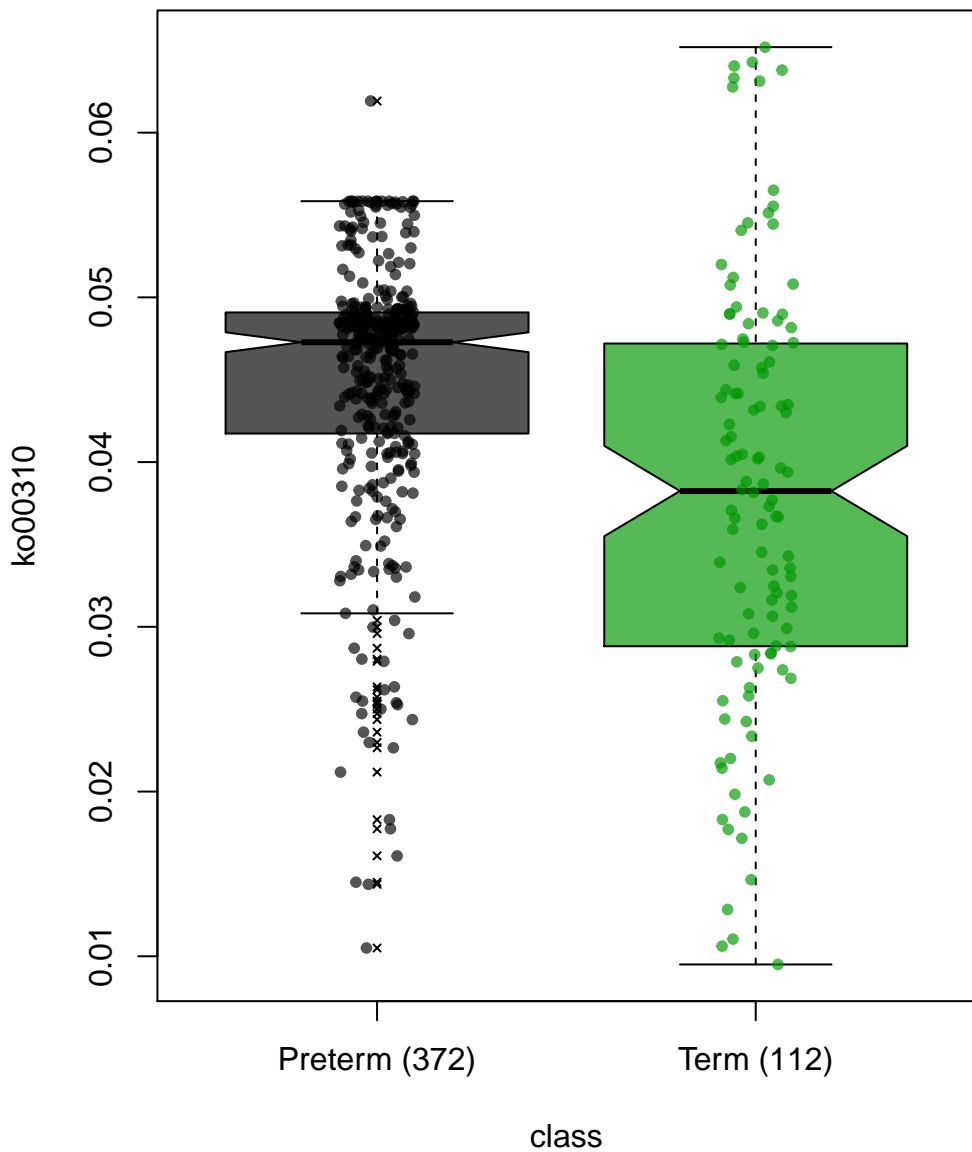
classTerm (0.00429 sd 0.000622, p=1.66e-11, q=5.57e-11)



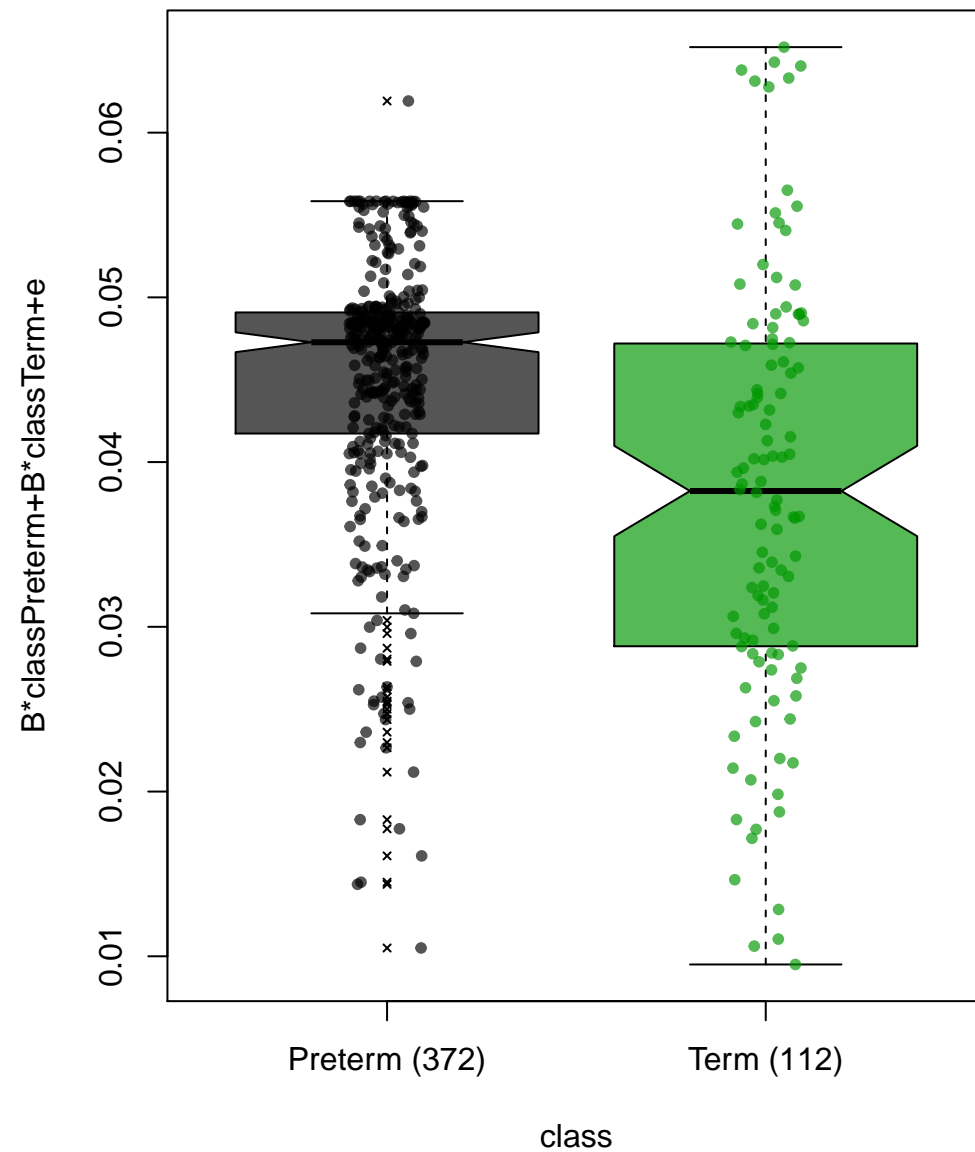
Partial Residual Plot



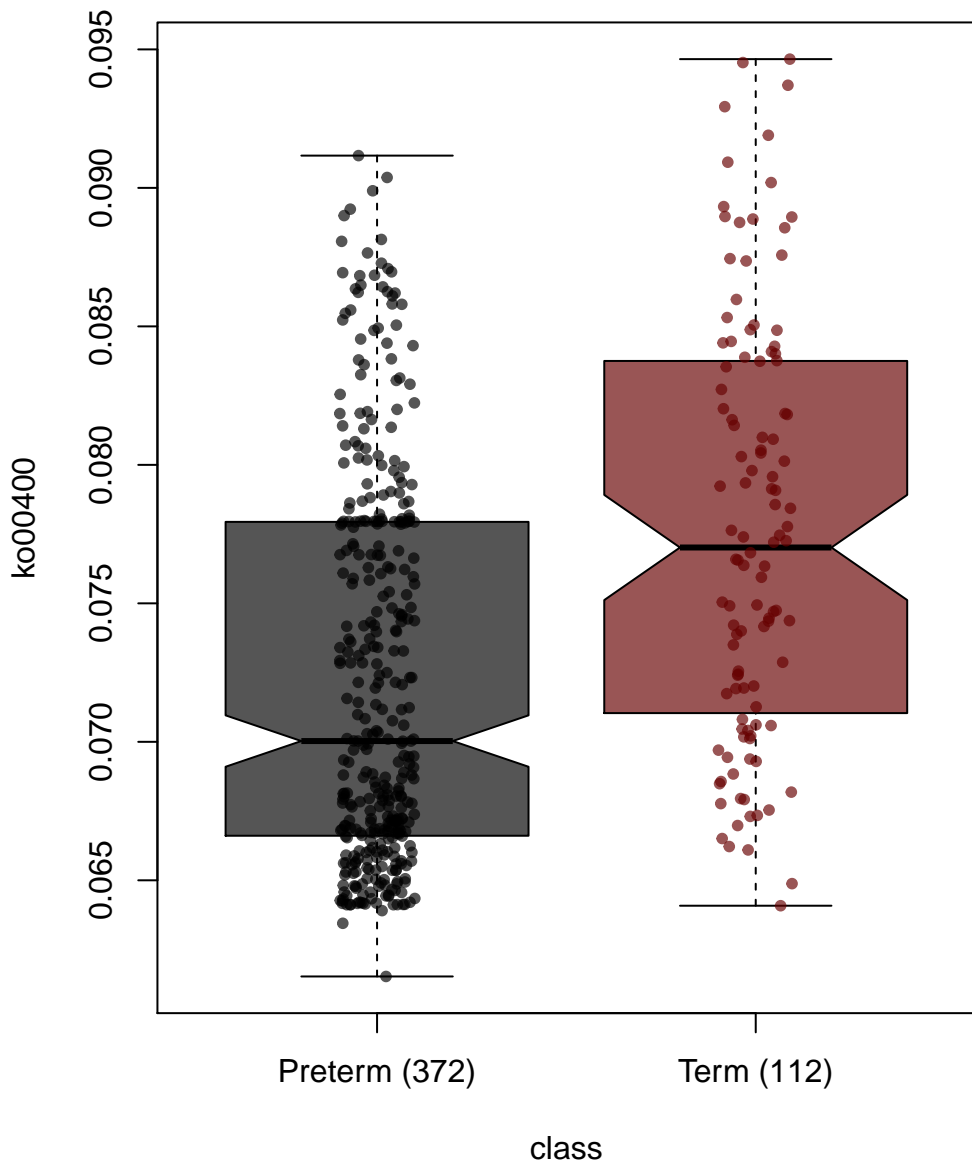
classTerm (−0.00699 sd 0.00101, p=1.73e−11, q=5.76e−11)



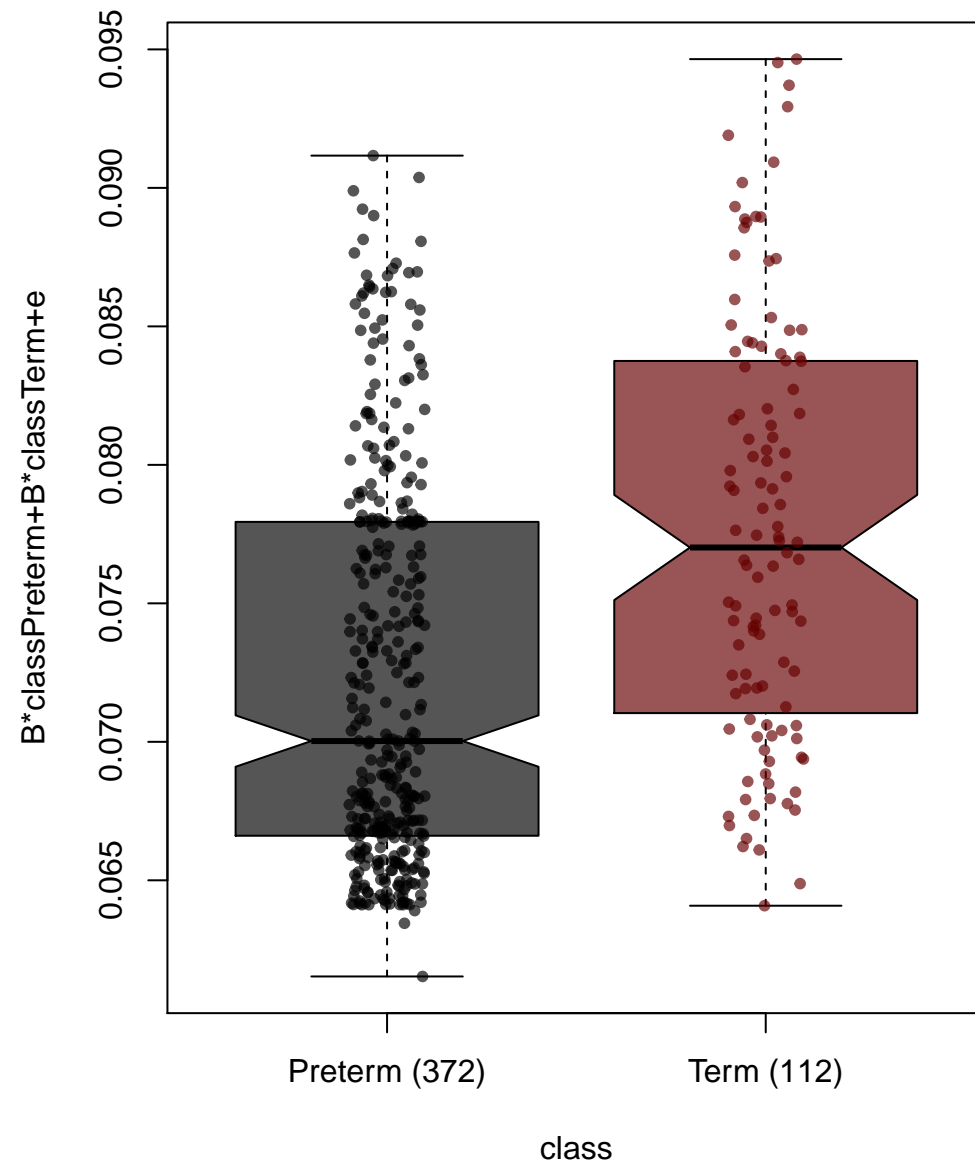
Partial Residual Plot



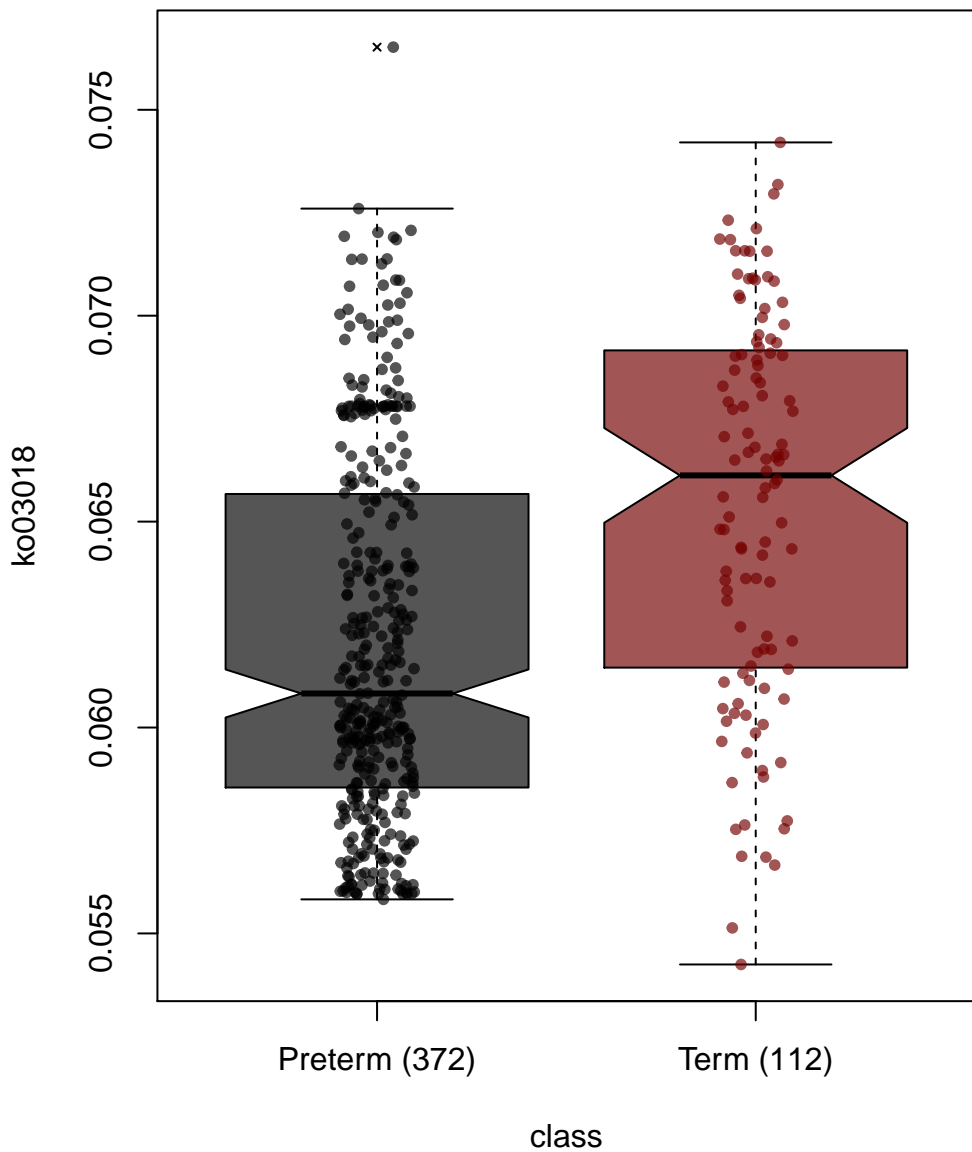
classTerm (0.00528 sd 0.000768, p=1.98e-11, q=6.49e-11)



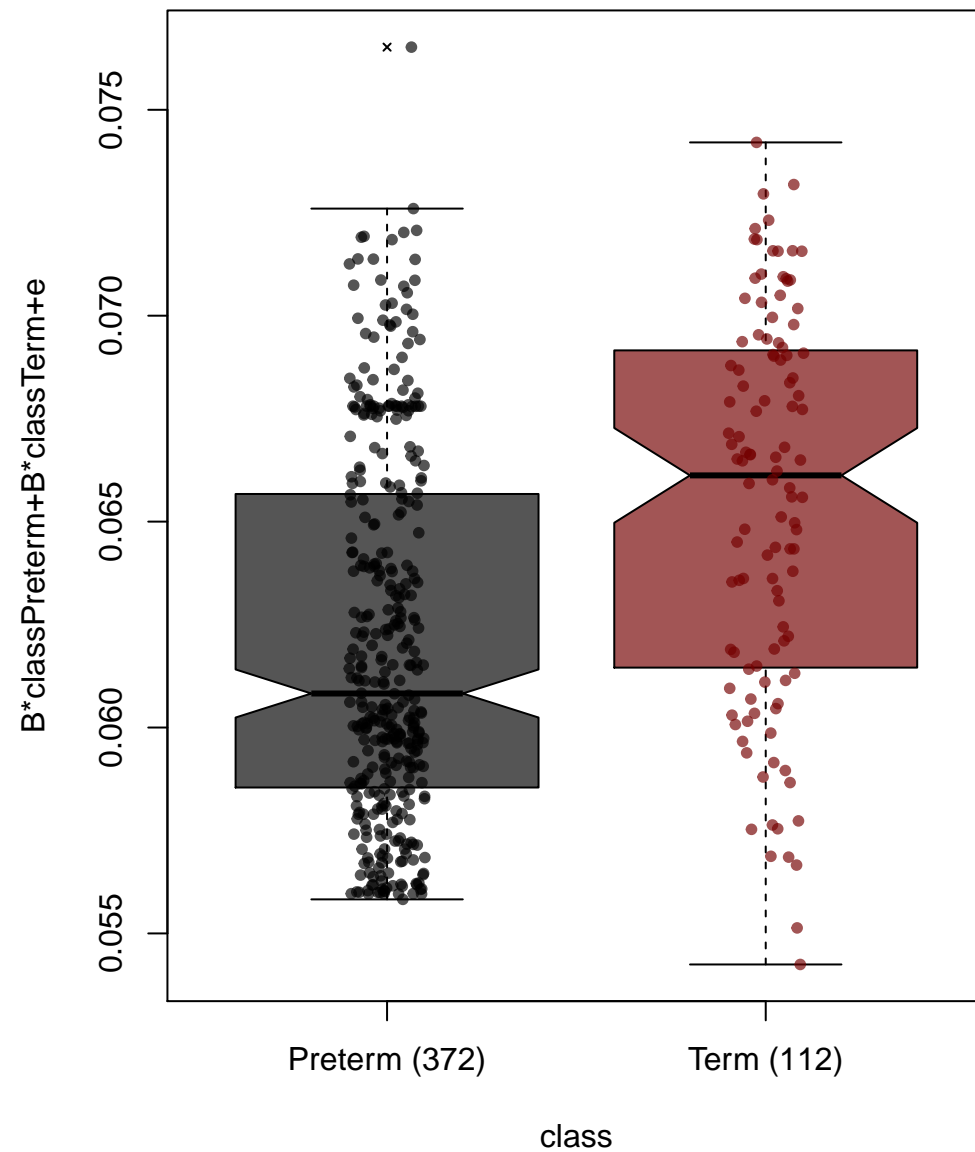
Partial Residual Plot



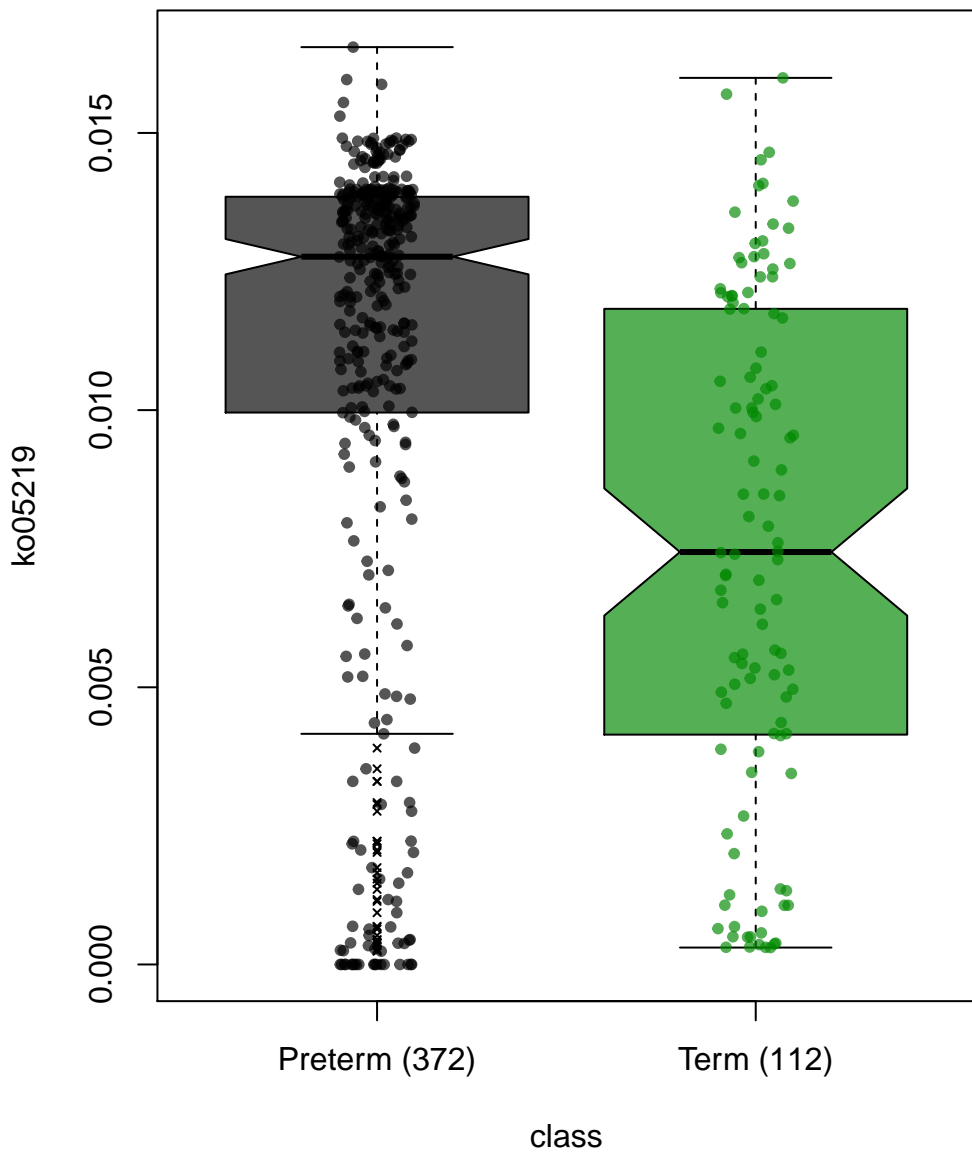
classTerm (0.00333 sd 0.000486, p=2.17e-11, q=7.06e-11)



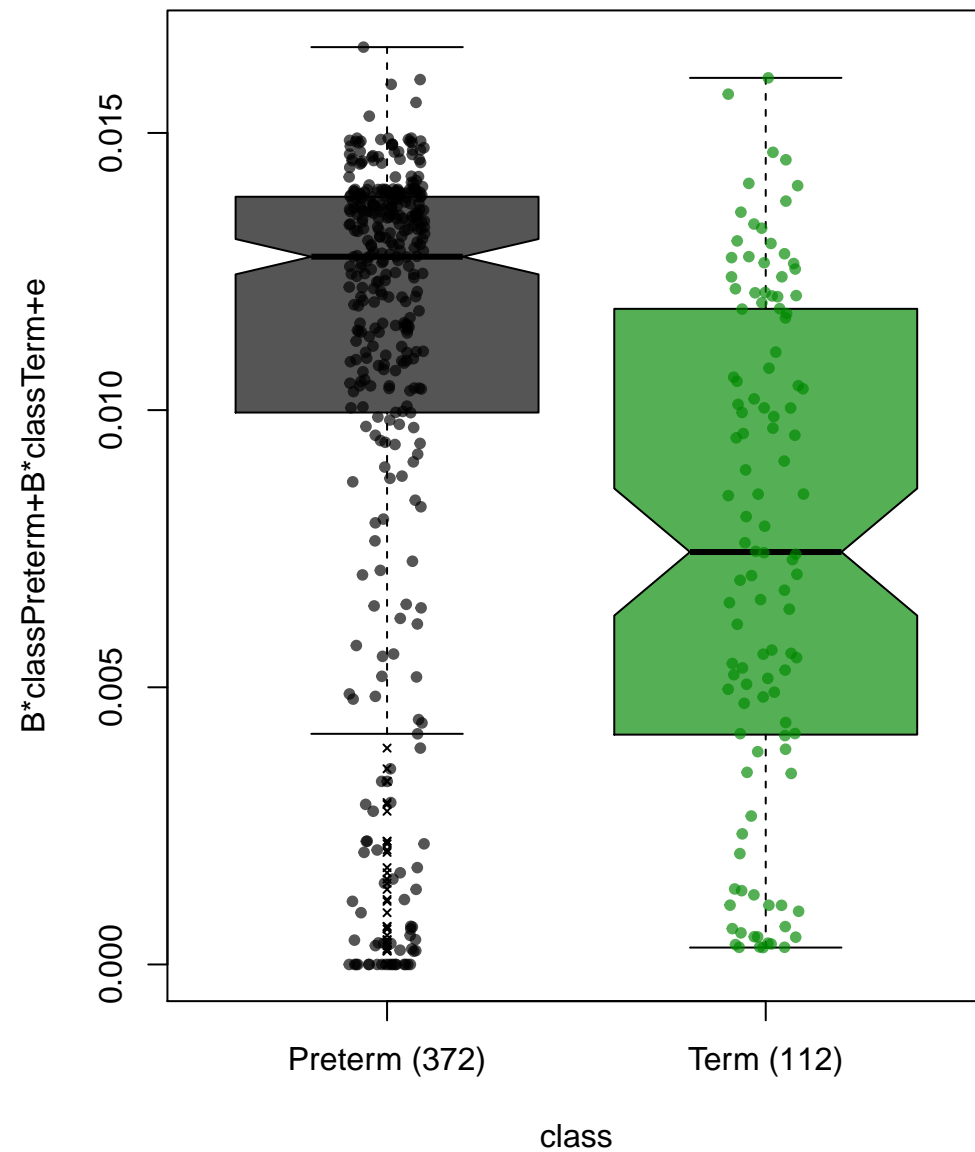
Partial Residual Plot



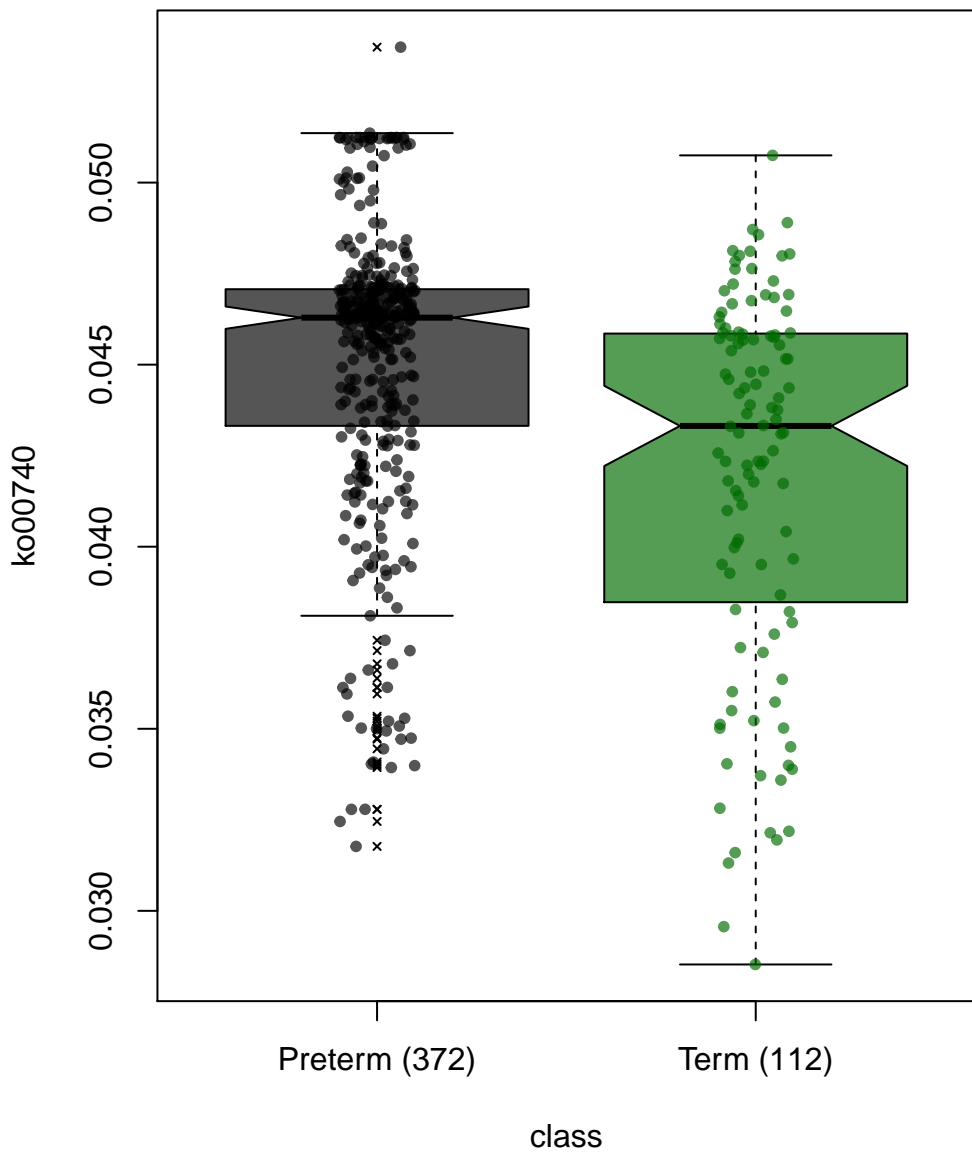
classTerm (-0.00328 sd 0.000489 , $p=5.25e-11$, $q=1.68e-10$)



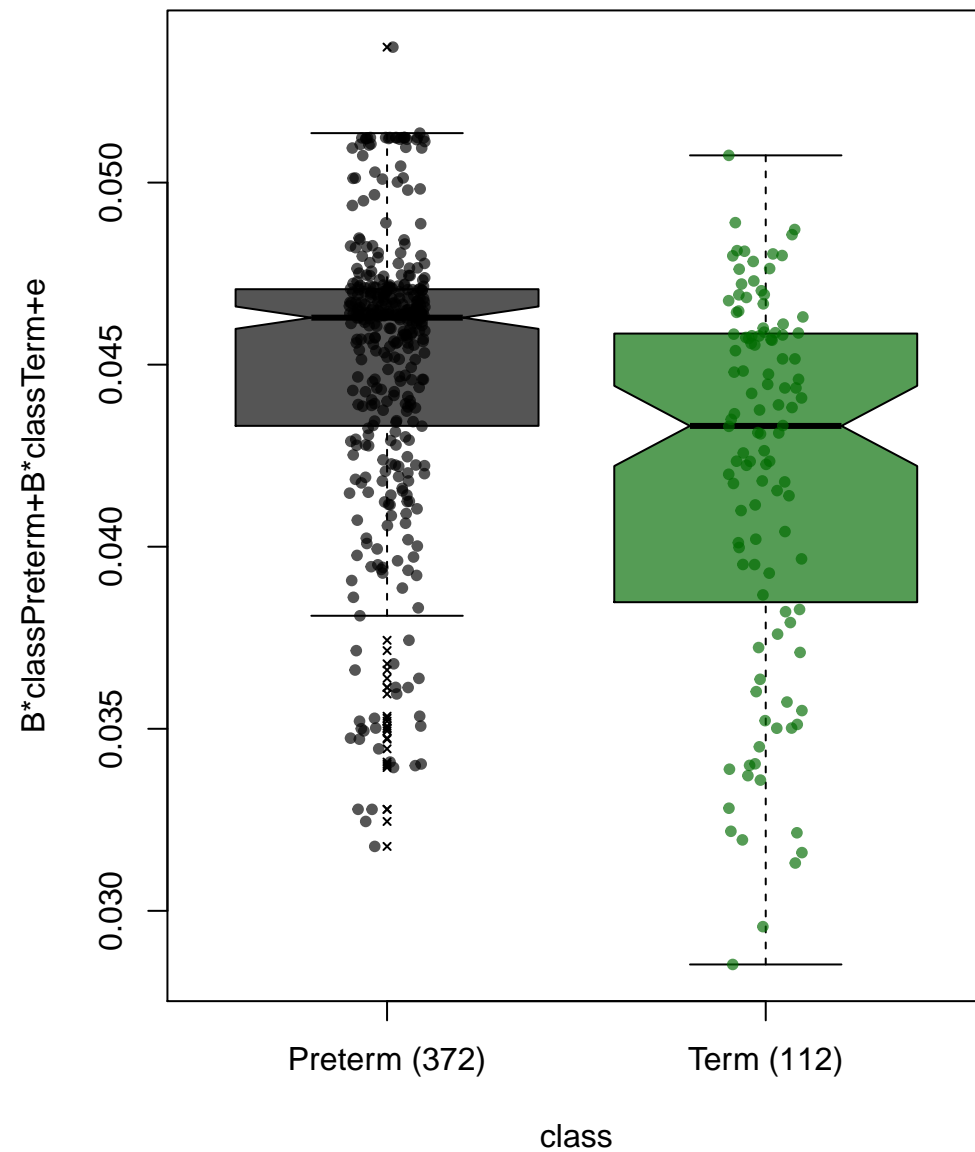
Partial Residual Plot



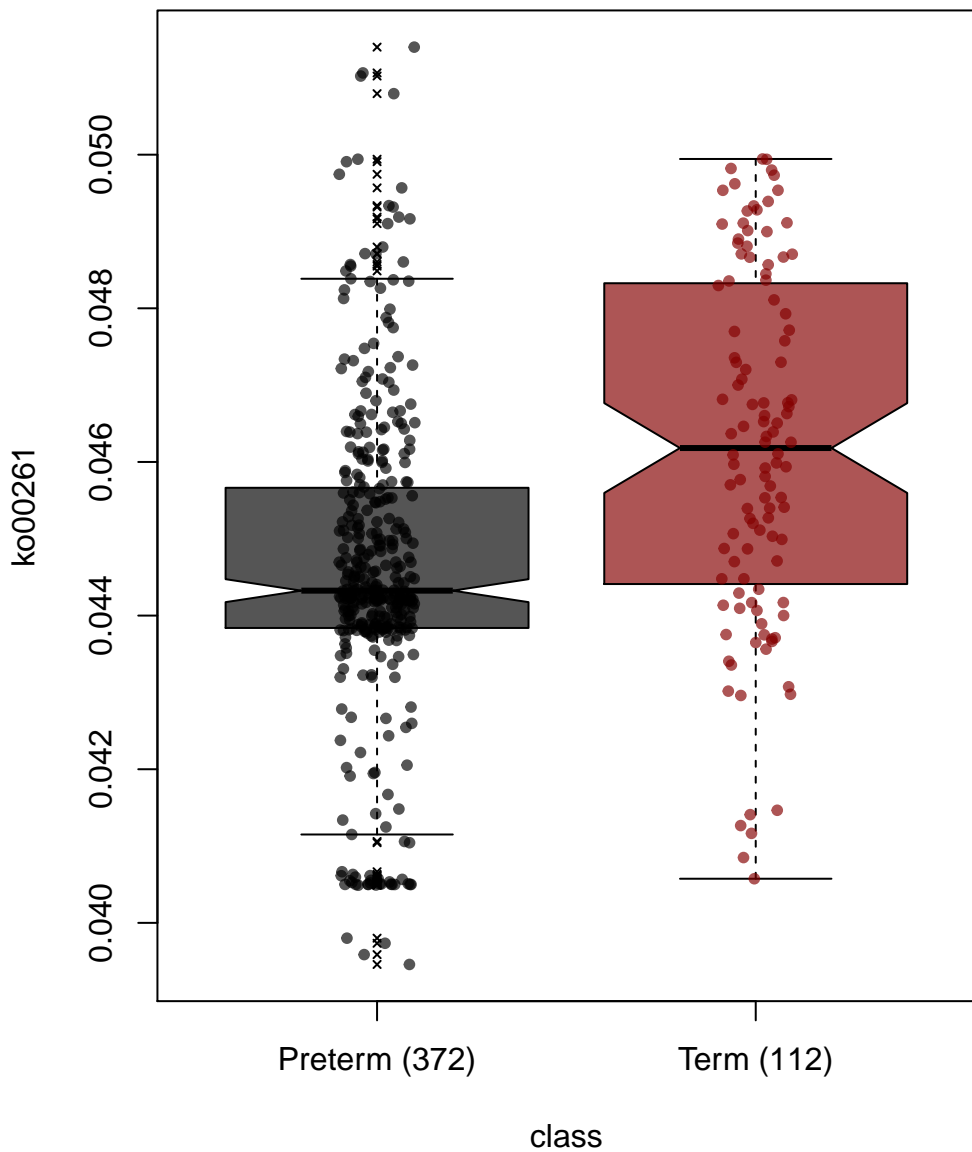
classTerm (−0.00308 sd 0.000461, p=6.66e−11, q=2.11e−10)



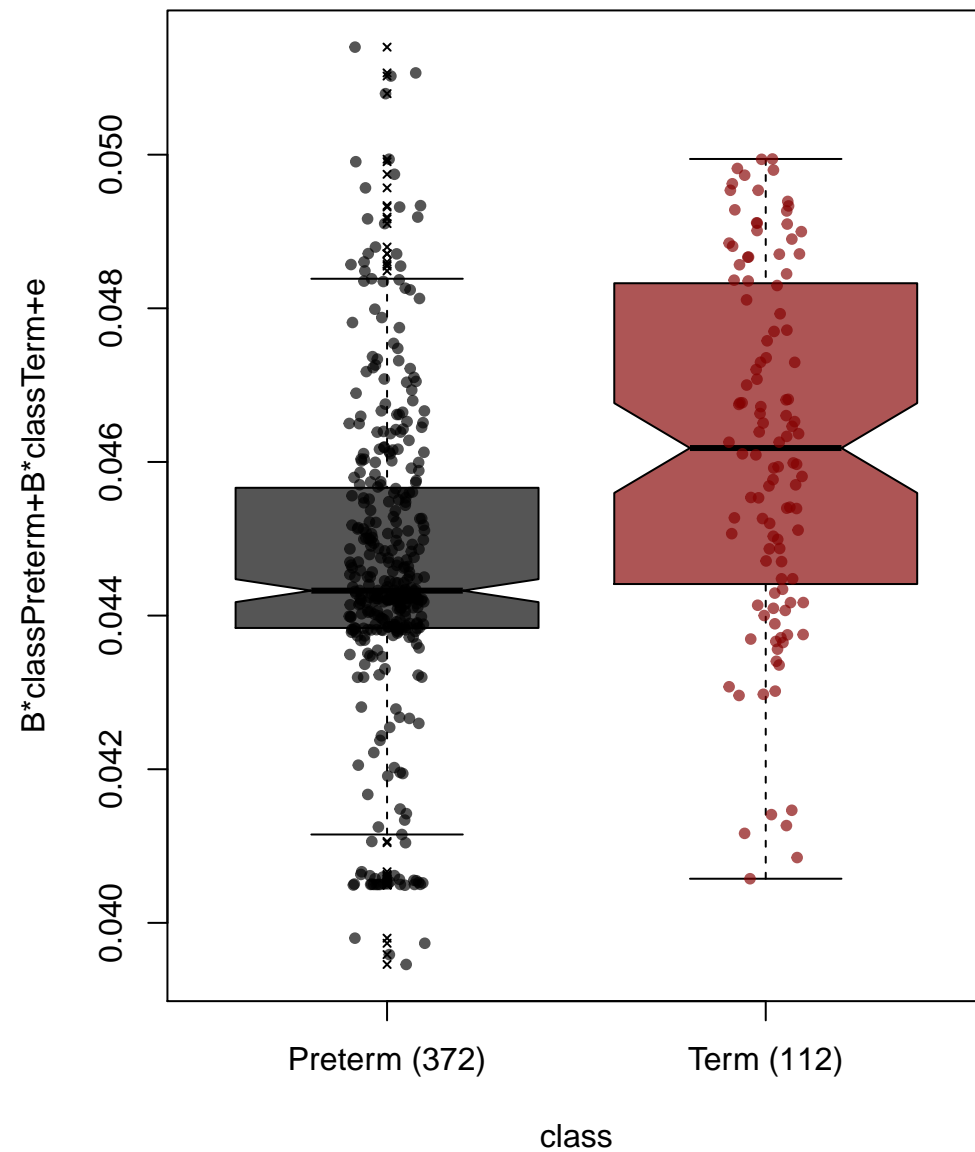
Partial Residual Plot



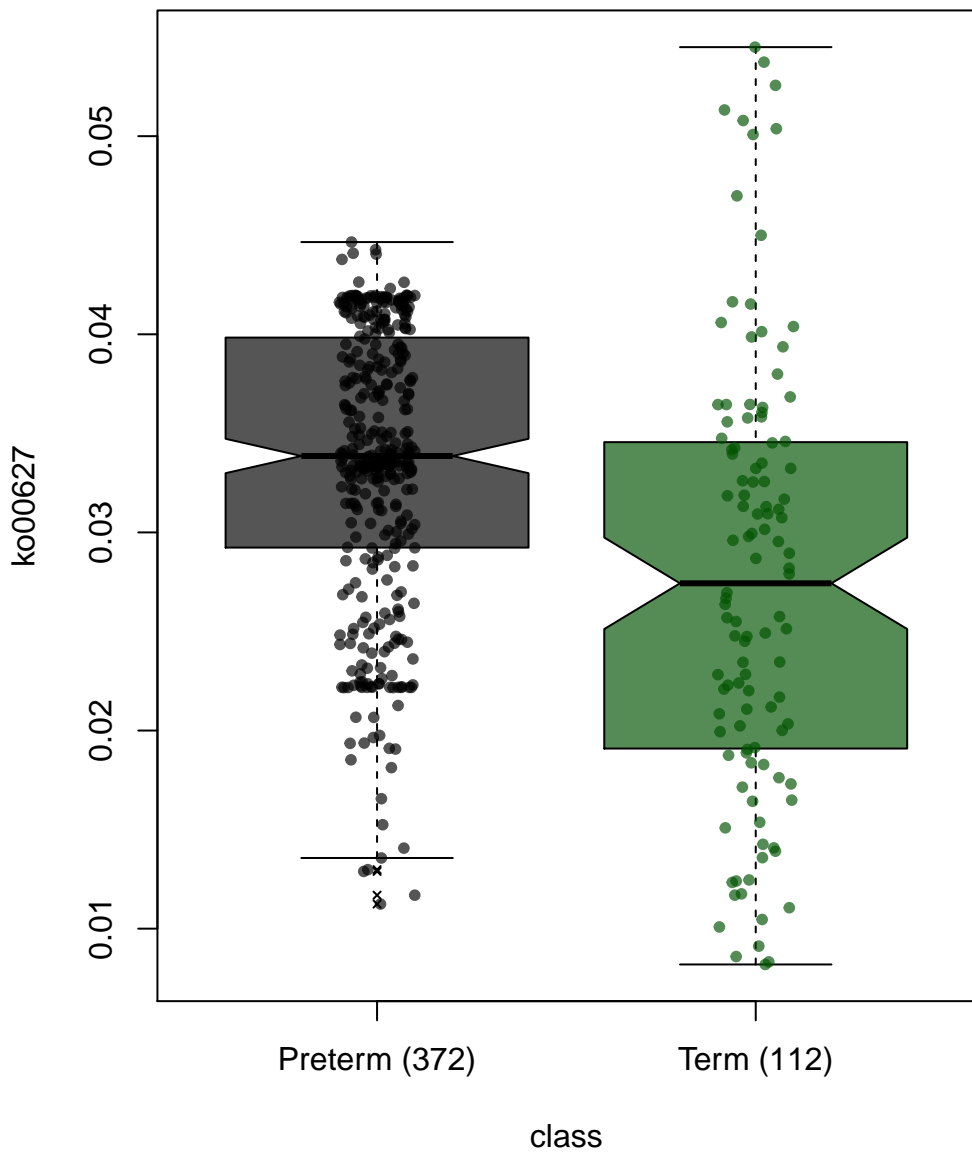
classTerm (0.00154 sd 0.000232, p=9.32e-11, q=2.92e-10)



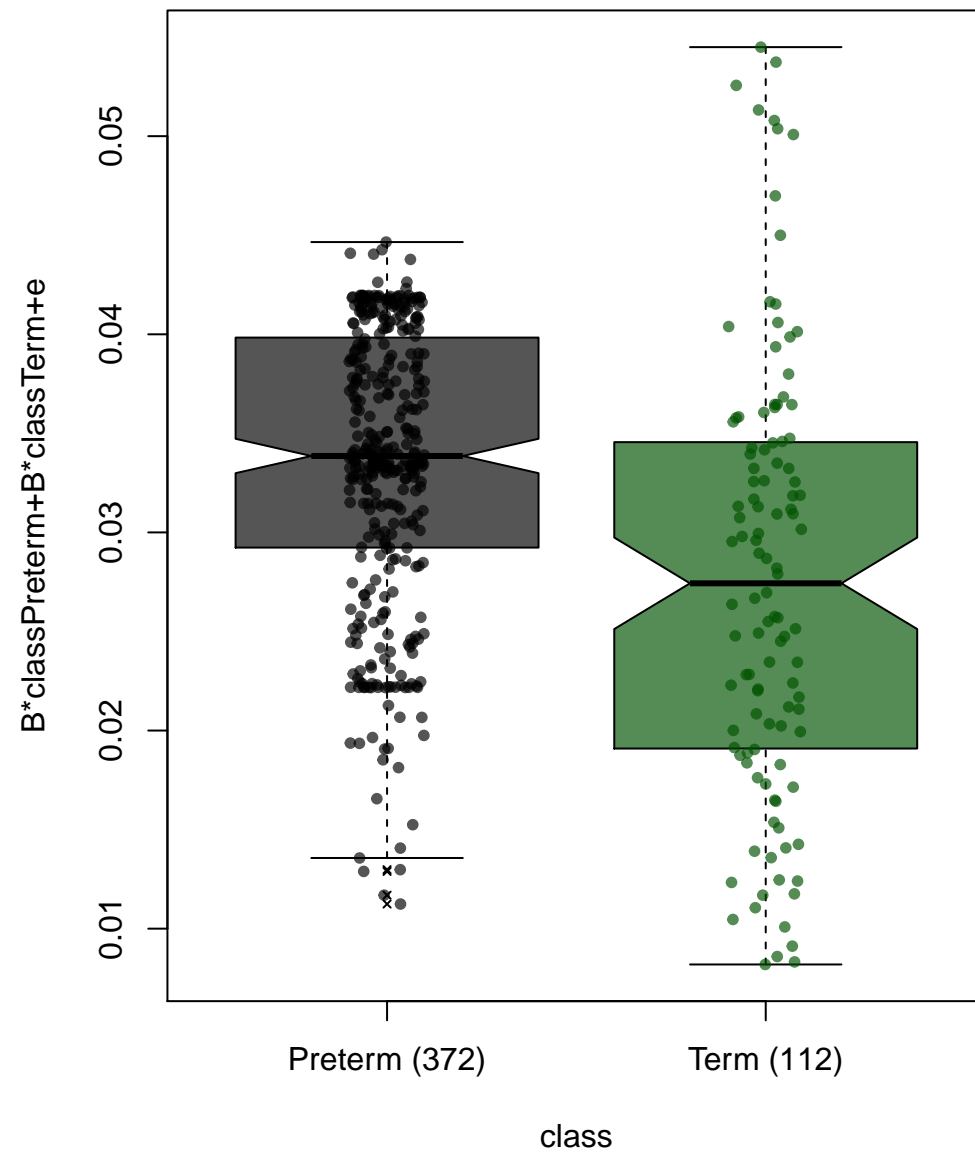
Partial Residual Plot



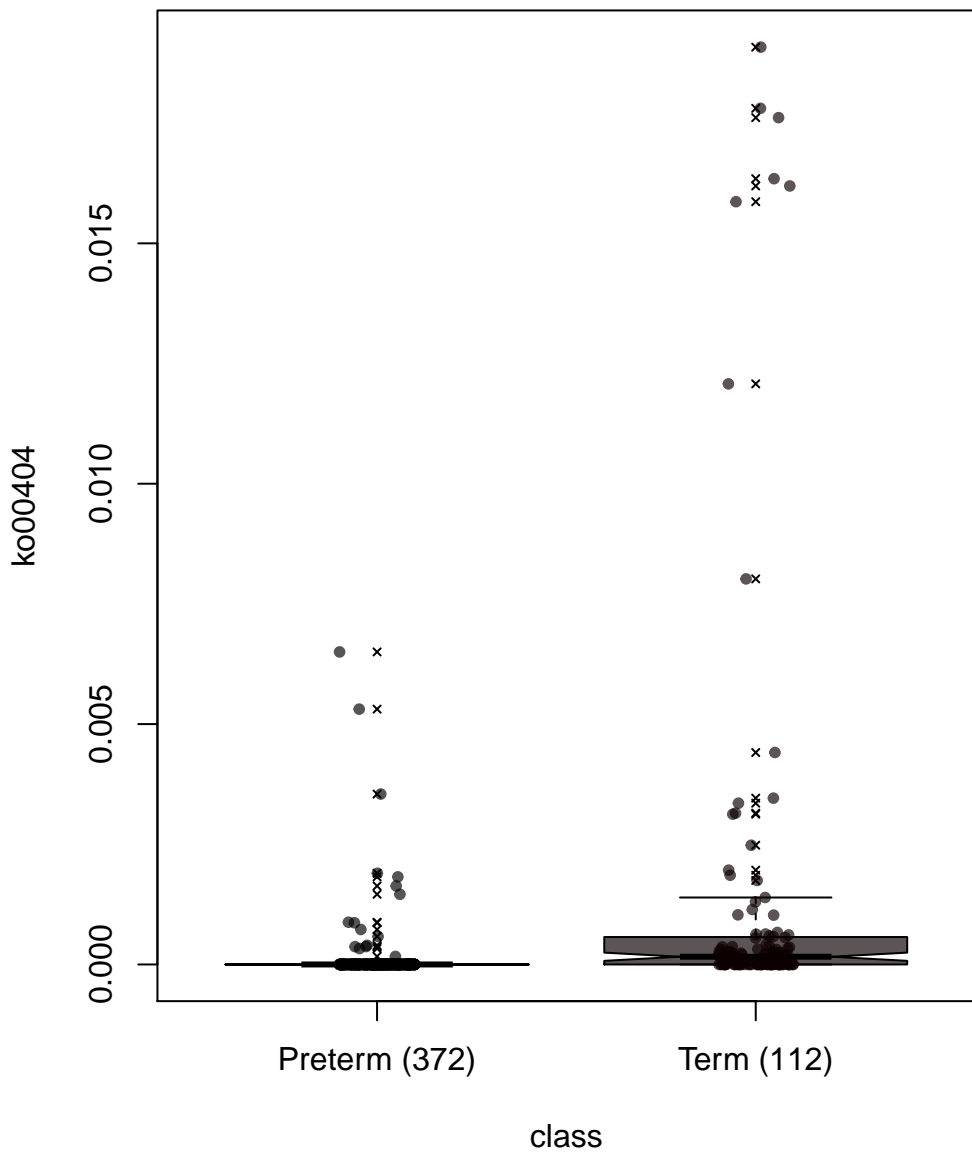
classTerm (-0.00585 sd 0.000885 , $p=9.97e-11$, $q=3.09e-10$)



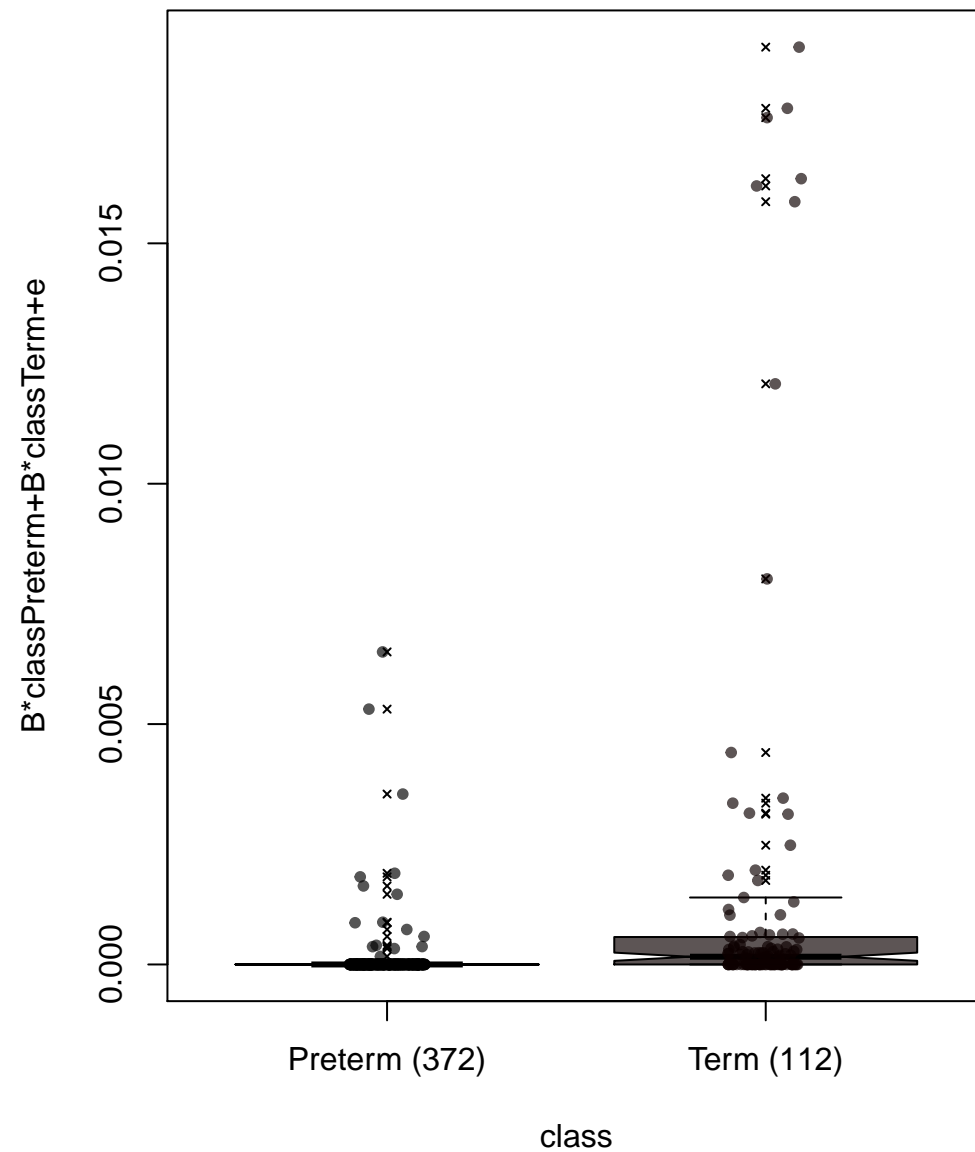
Partial Residual Plot



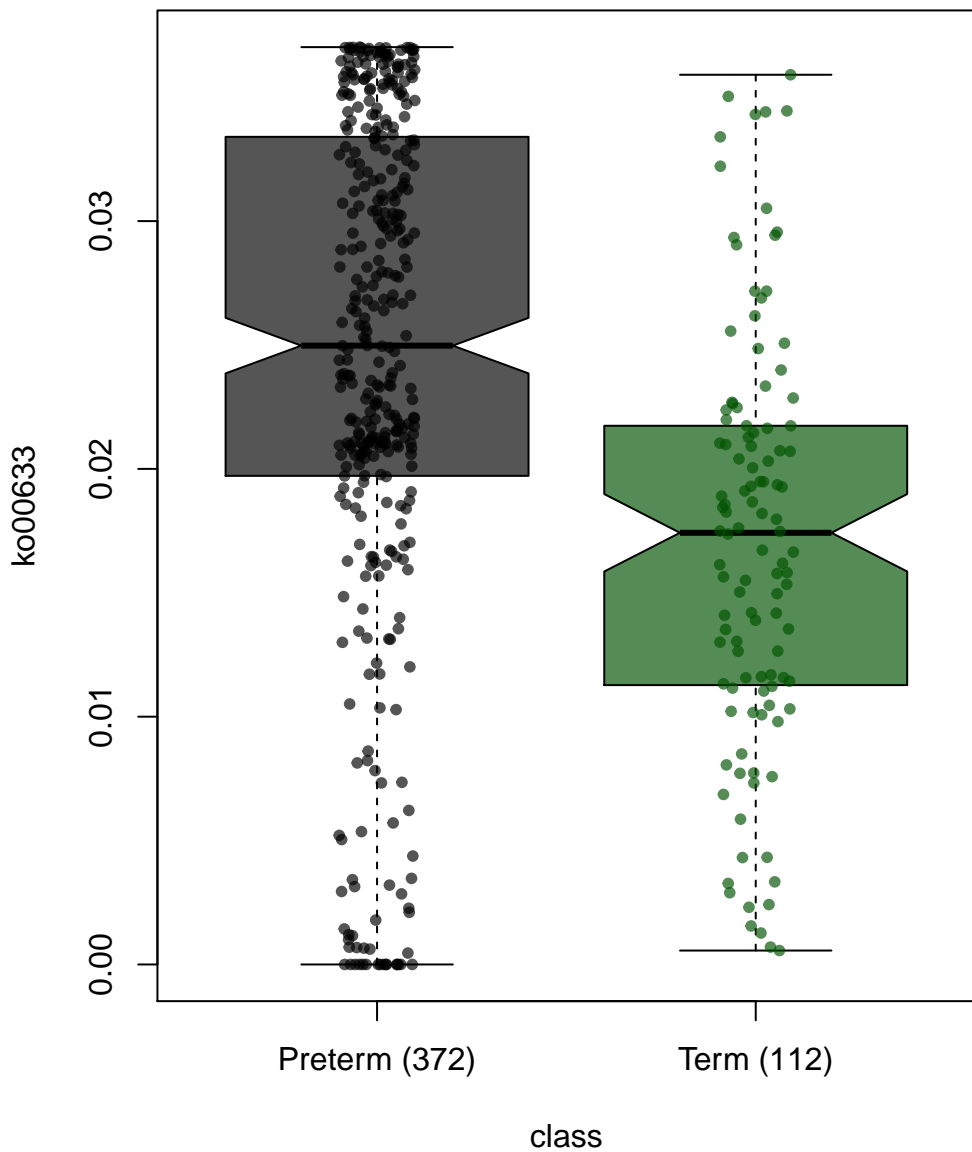
classTerm (0.00142 sd 0.000215, p=1.19e-10, q=3.66e-10)



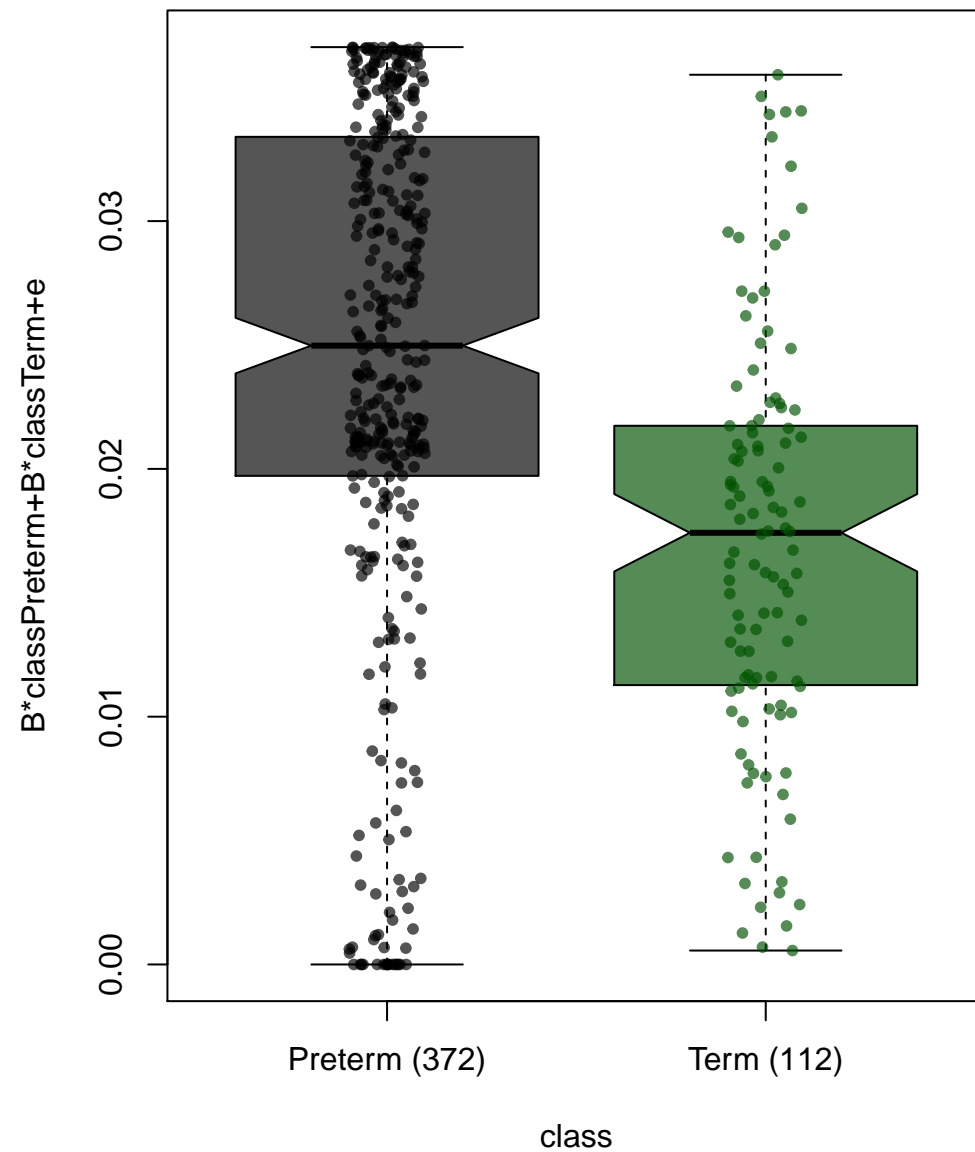
Partial Residual Plot



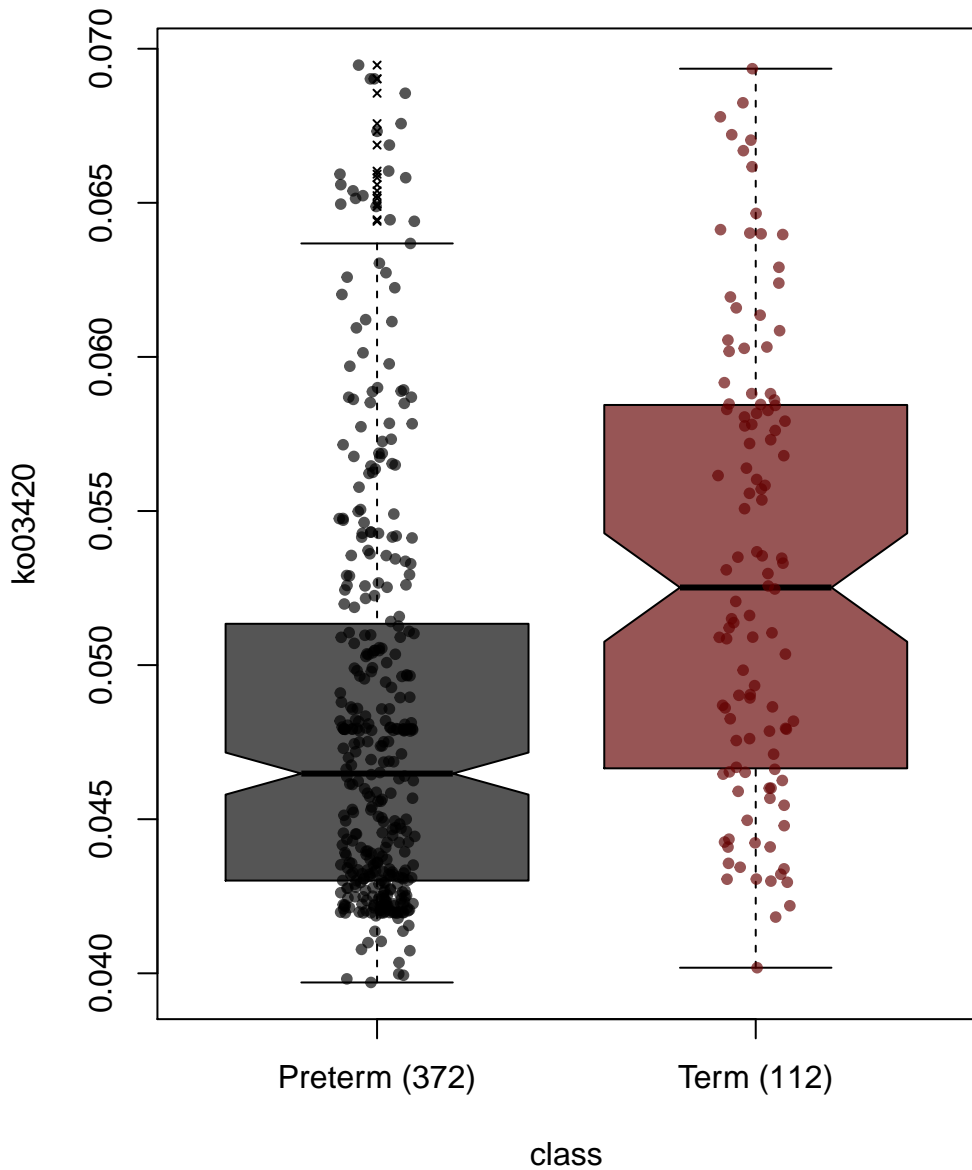
classTerm (-0.00718 sd 0.0011 , $p=1.51e-10$, $q=4.58e-10$)



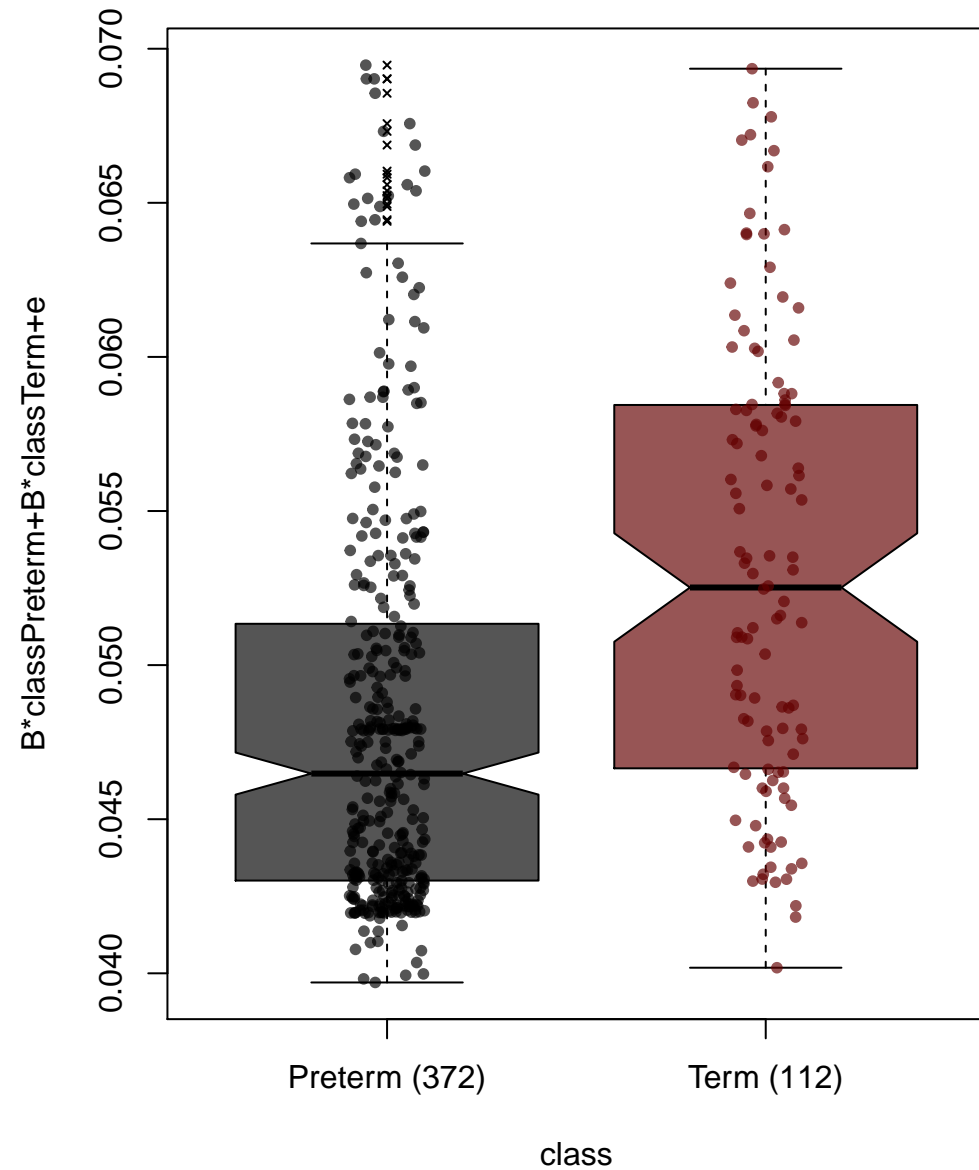
Partial Residual Plot



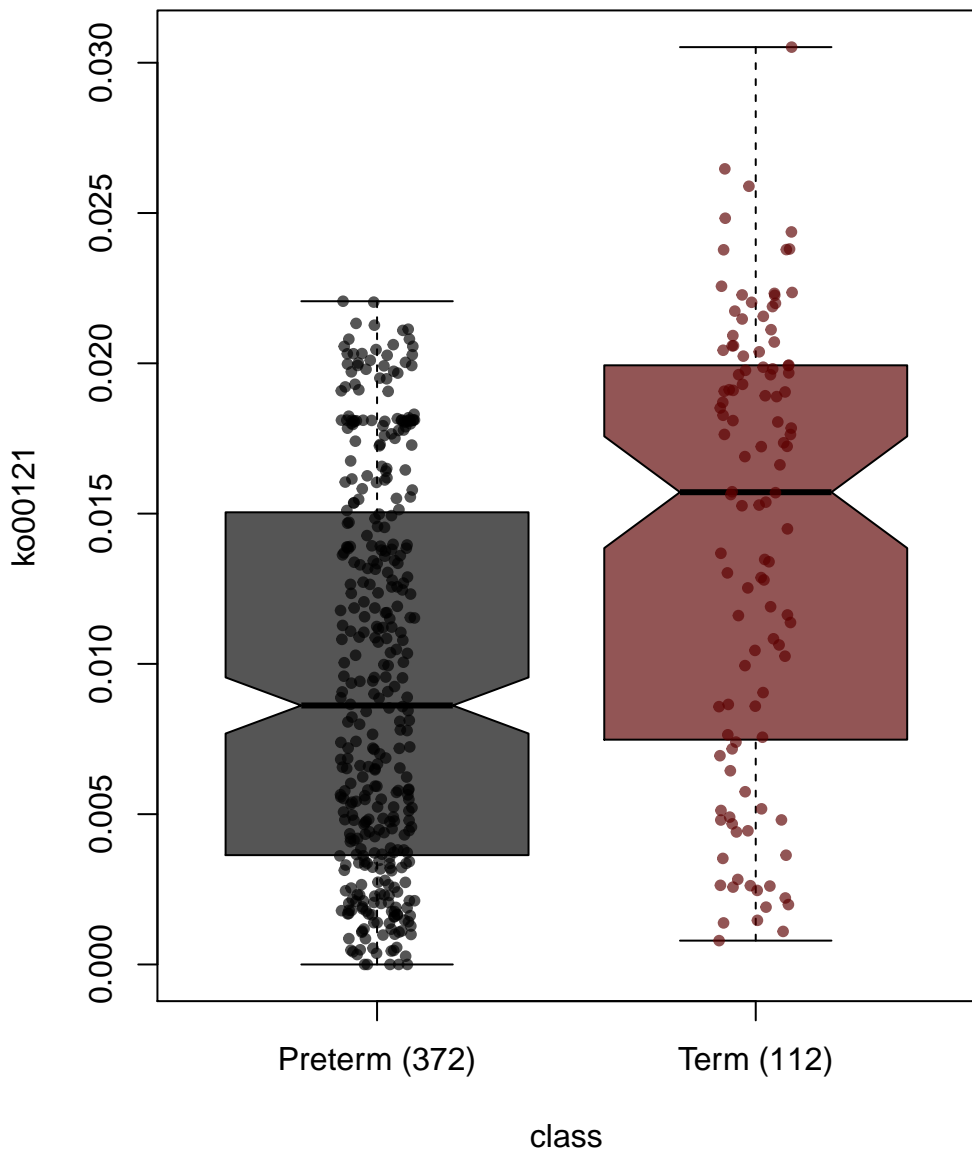
classTerm (0.00483 sd 0.000739, p=1.59e-10, q=4.78e-10)



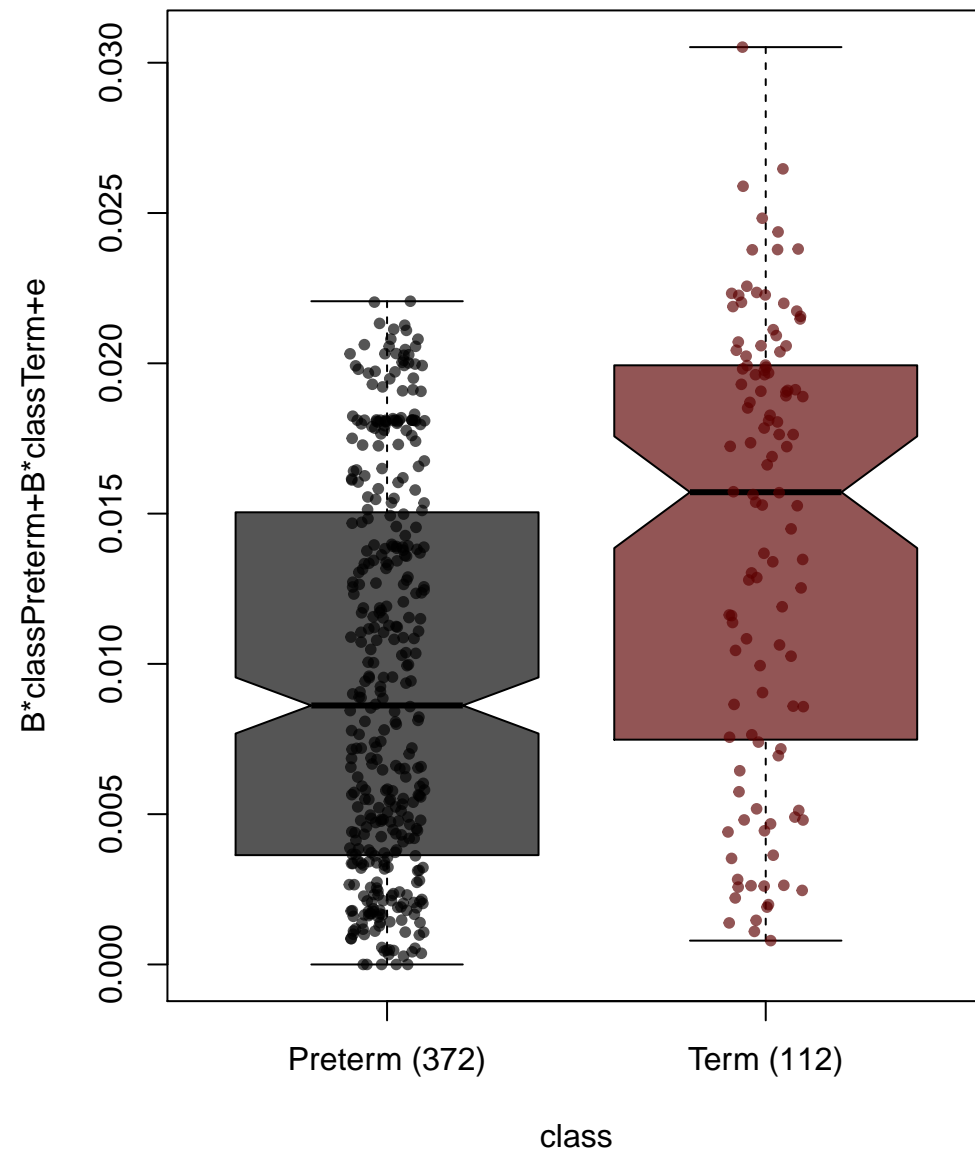
Partial Residual Plot



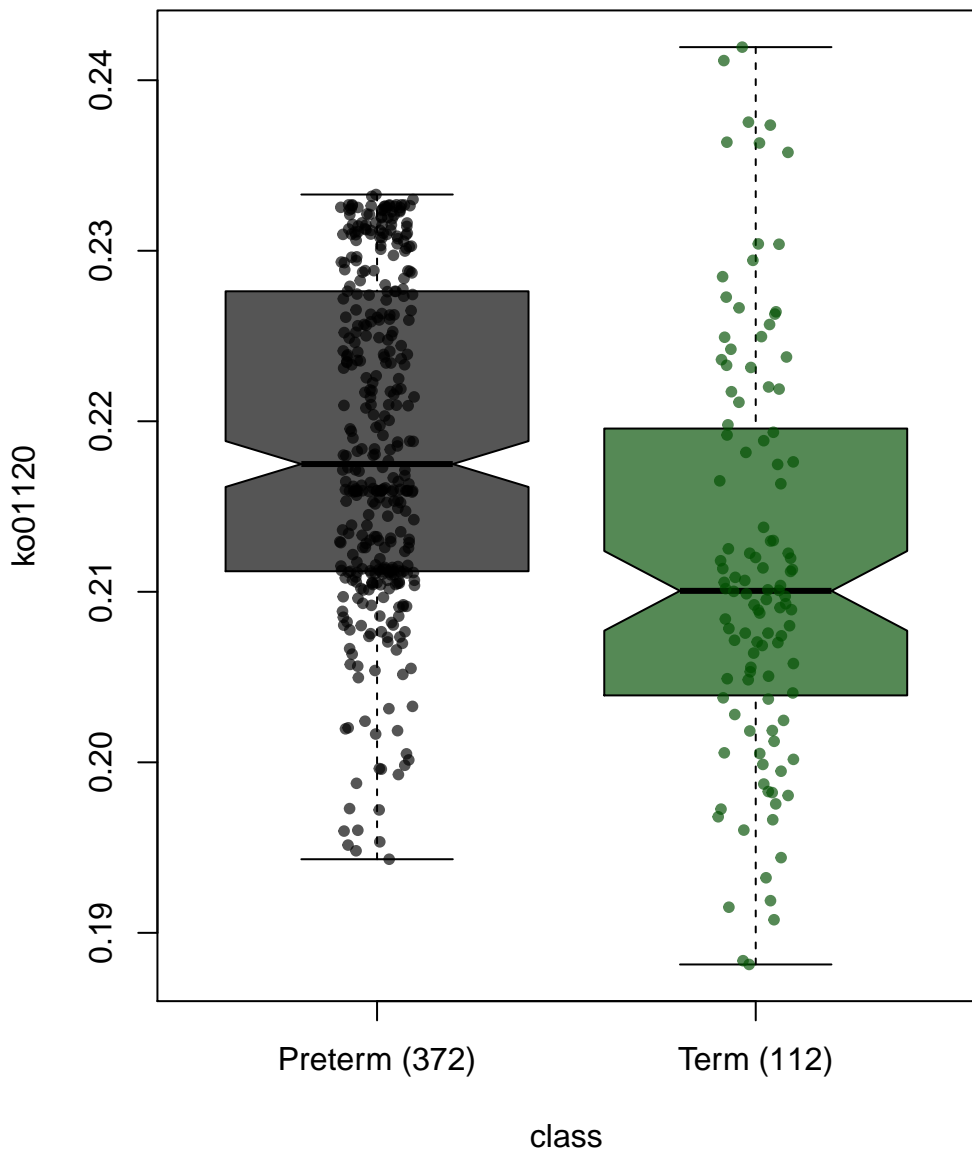
classTerm (0.00469 sd 0.000721, p=1.99e-10, q=5.92e-10)



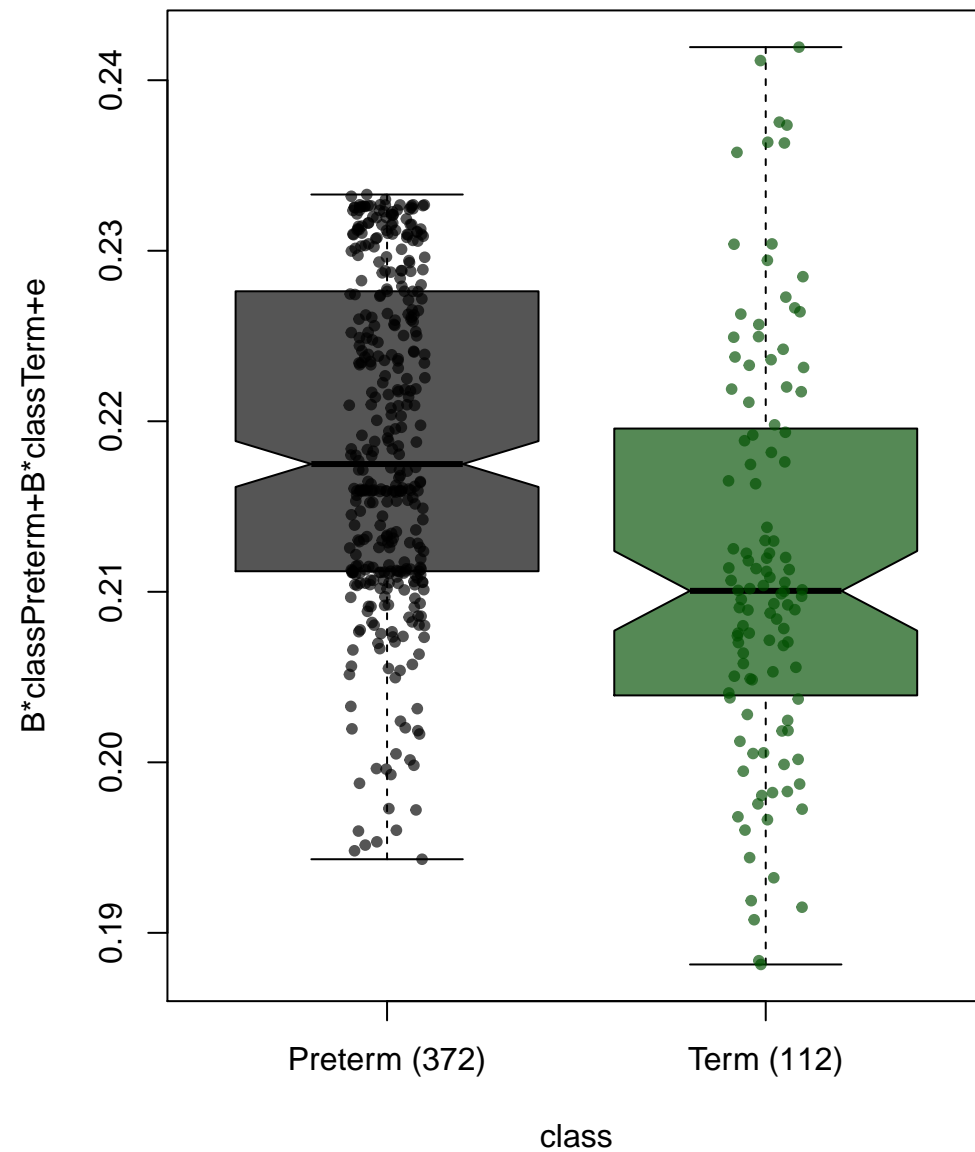
Partial Residual Plot



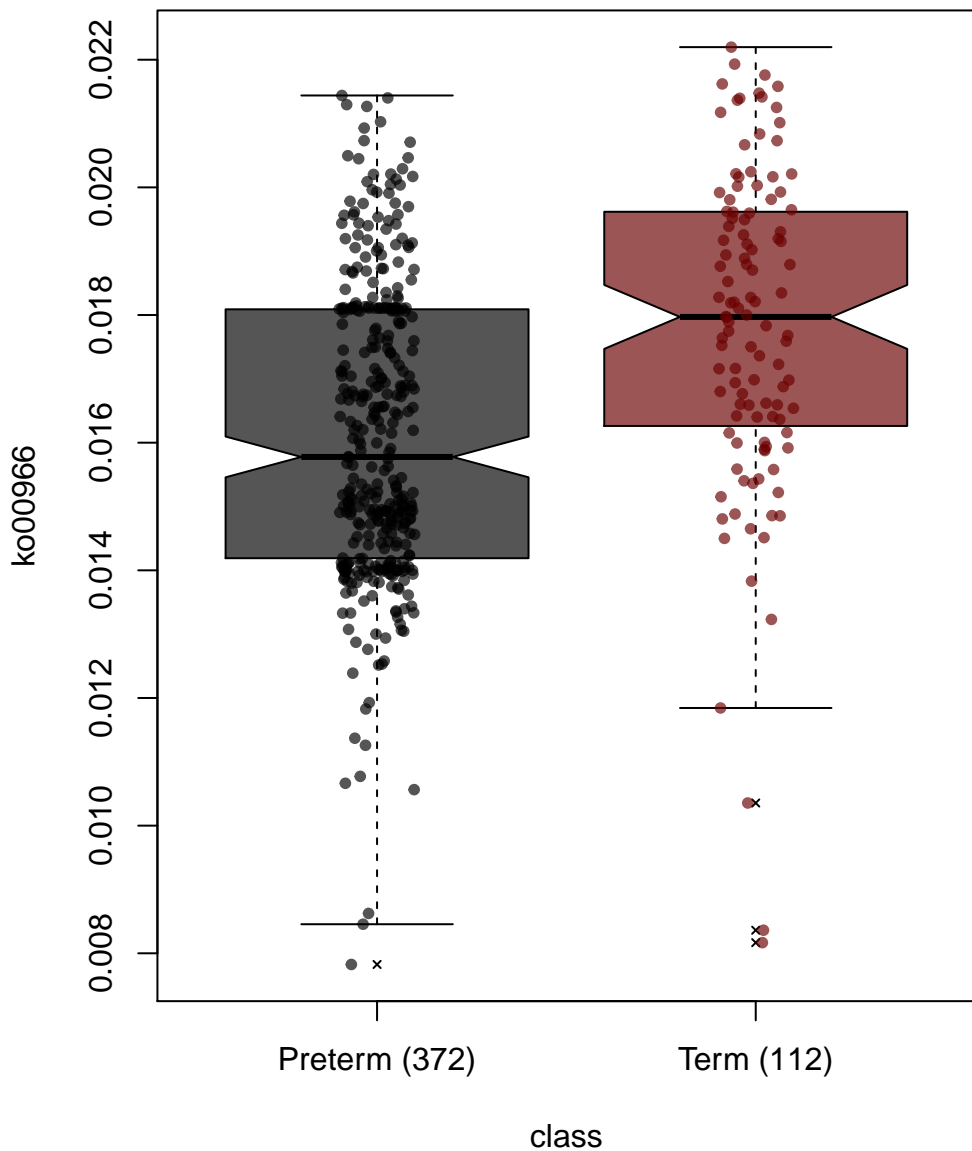
classTerm (-0.00713 sd 0.0011 , $p=2.21e-10$, $q=6.5e-10$)



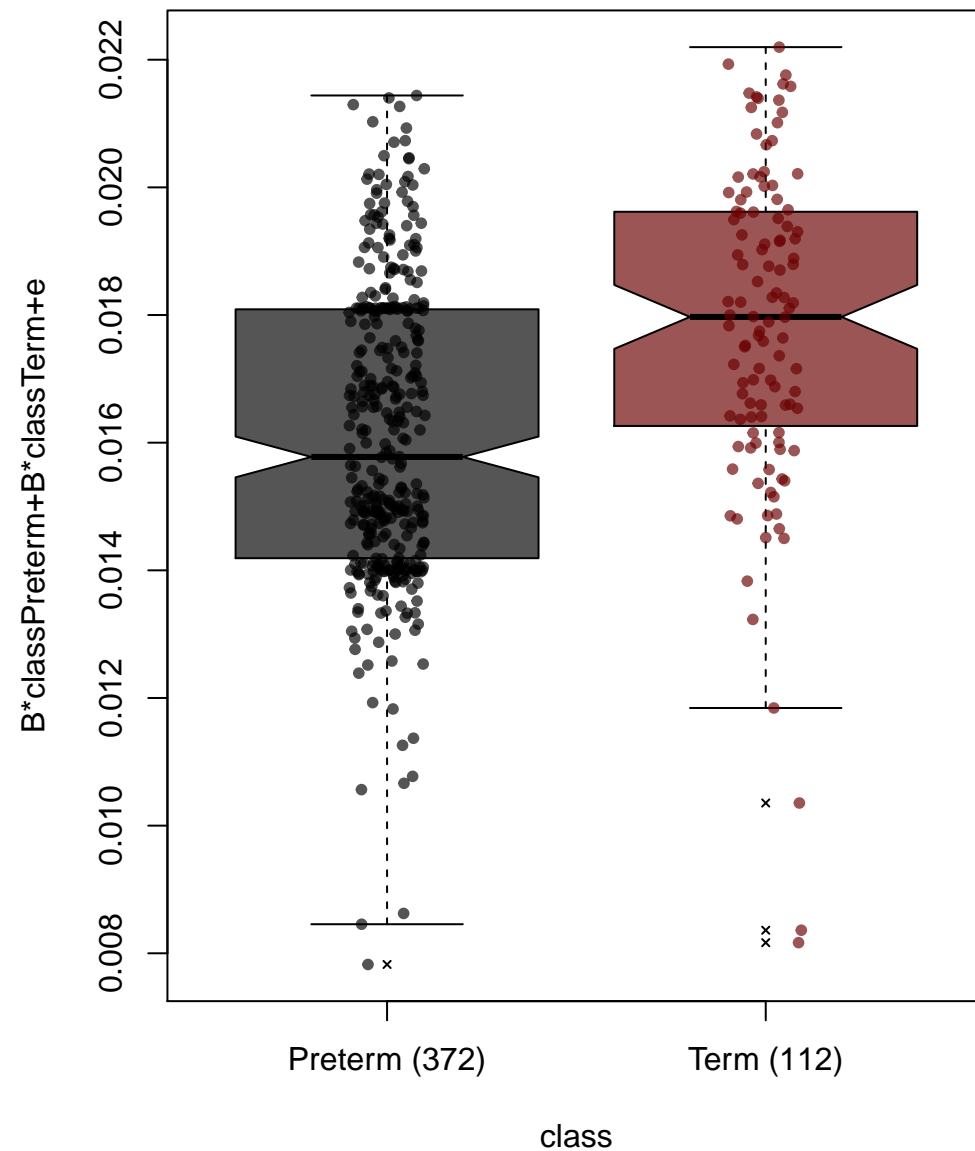
Partial Residual Plot



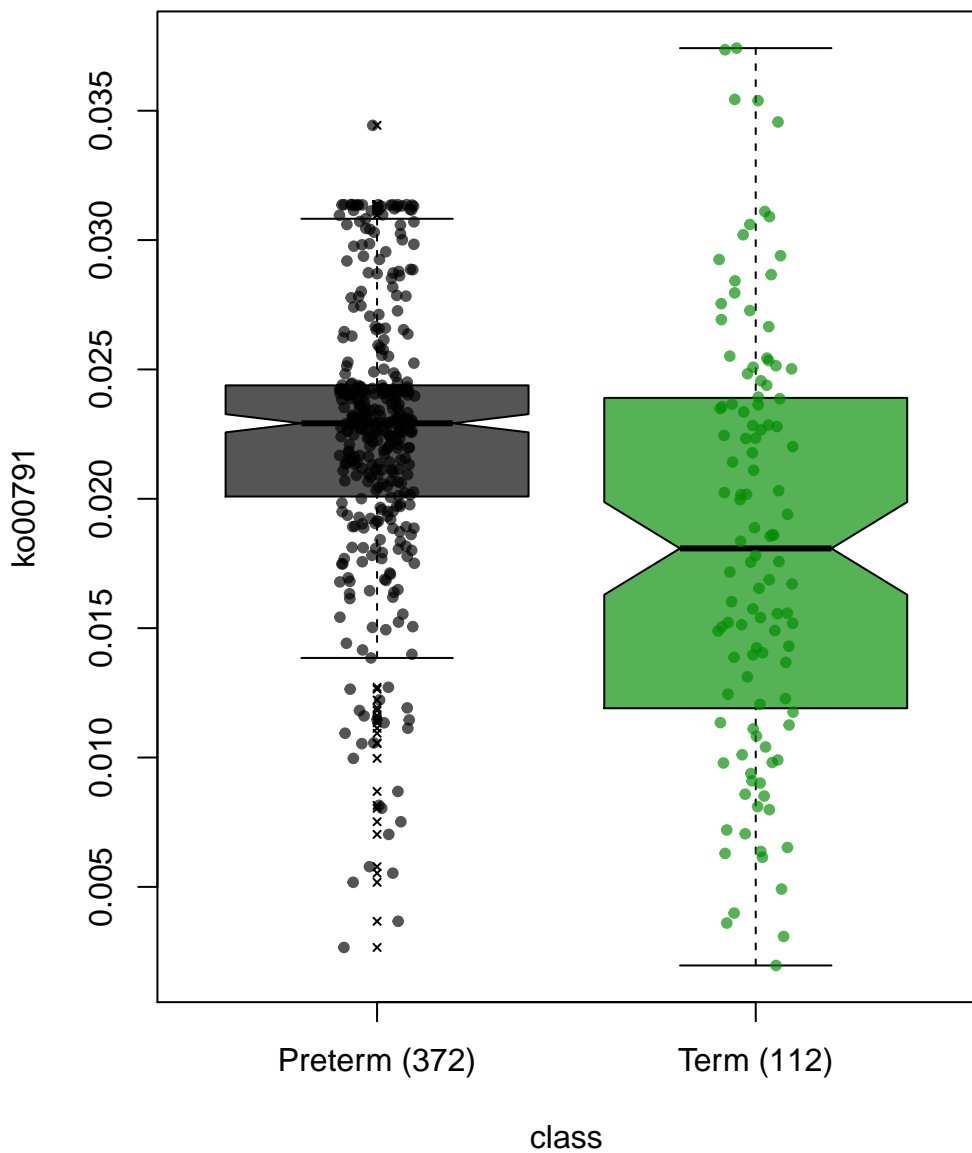
classTerm (0.00166 sd 0.000258, p=3.06e-10, q=8.89e-10)



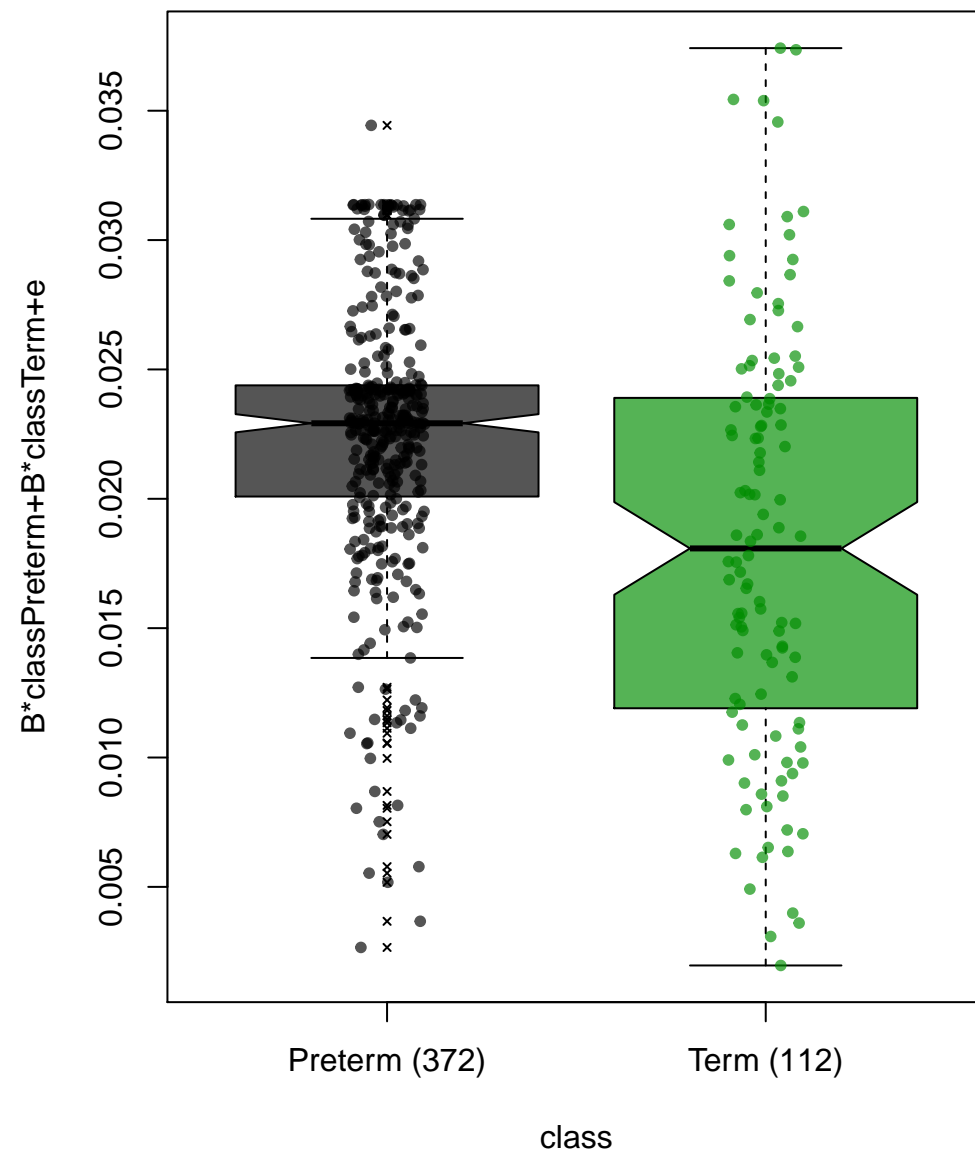
Partial Residual Plot



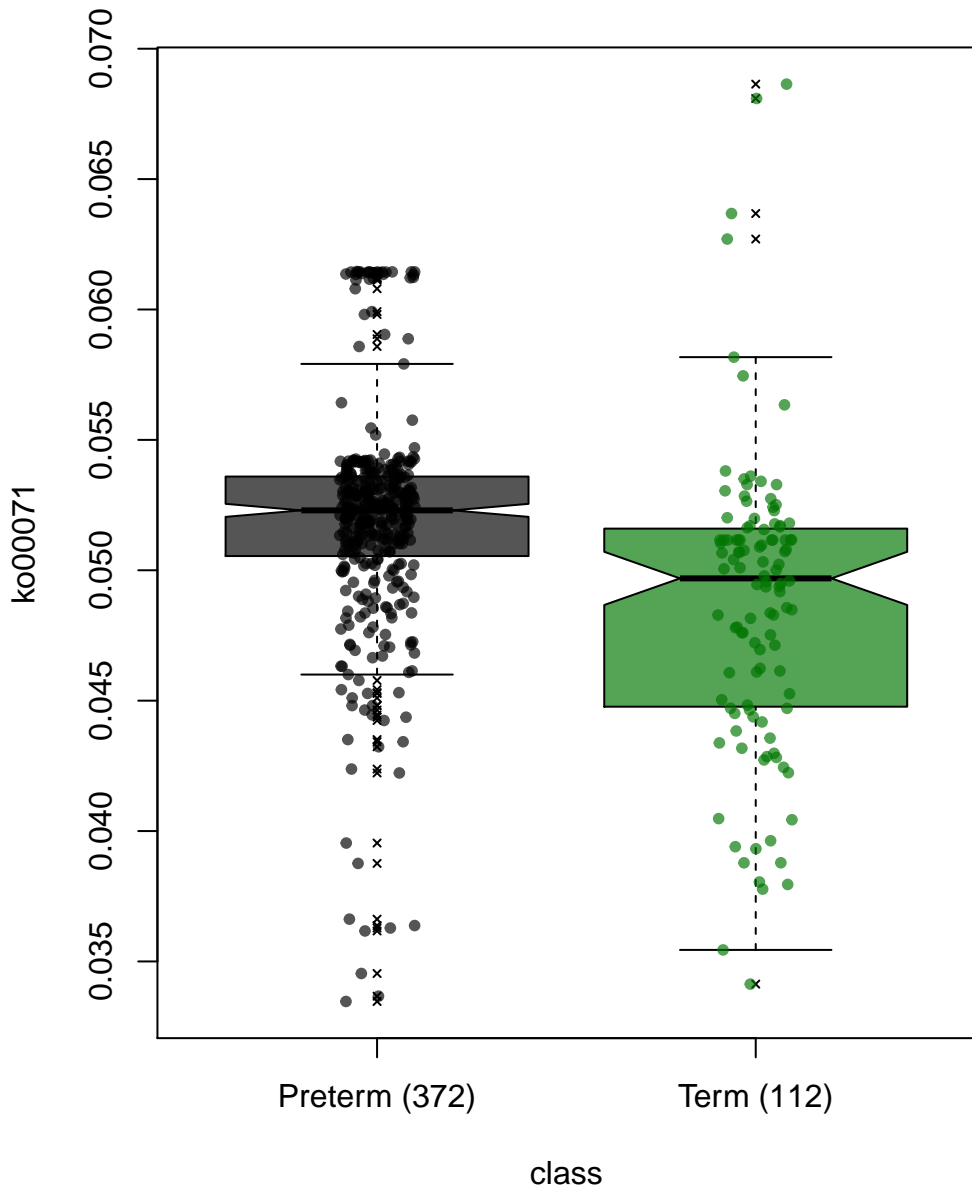
classTerm (-0.00413 sd 0.000655, p=6.71e-10, q=1.93e-09)



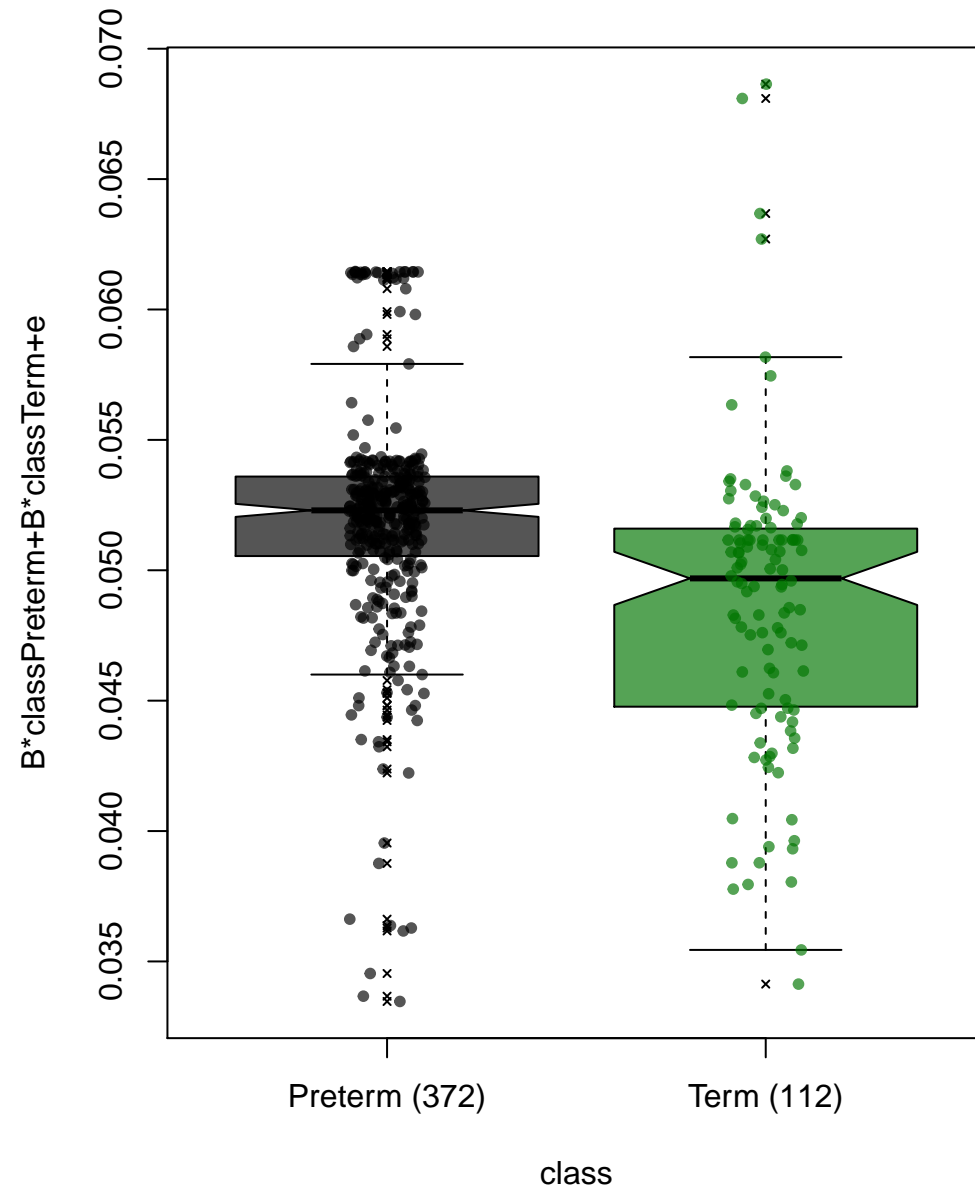
Partial Residual Plot



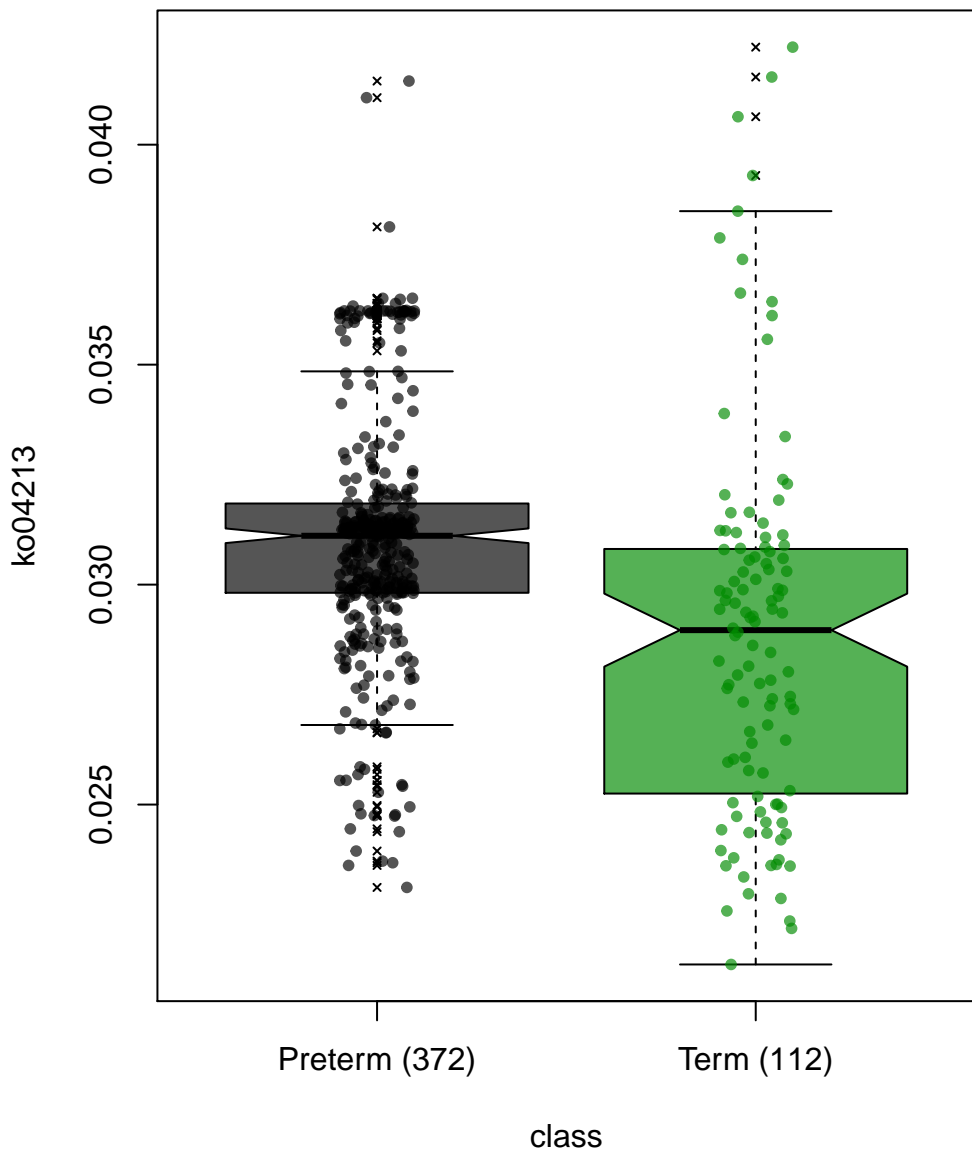
classTerm (-0.0032 sd 0.000511, p=7.98e-10, q=2.27e-09)



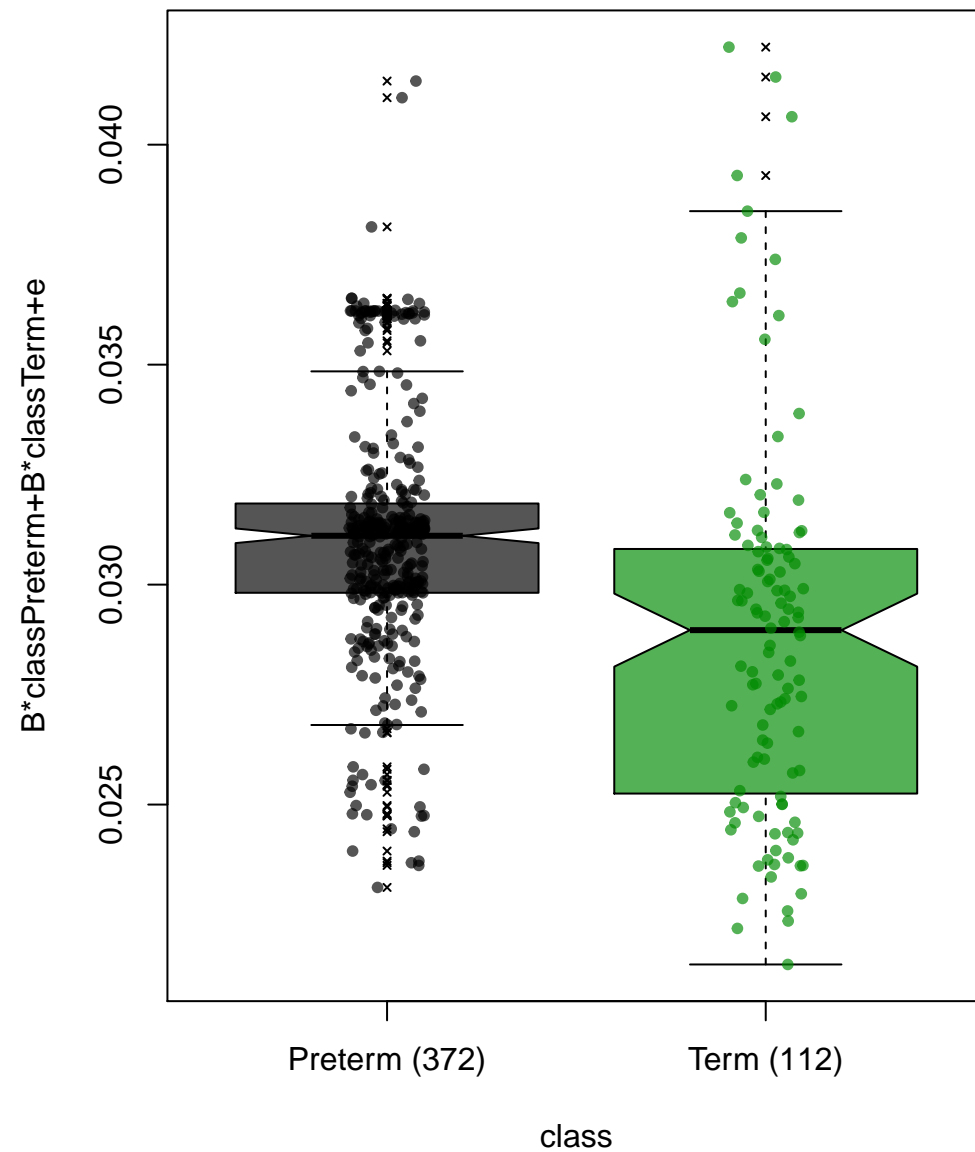
Partial Residual Plot



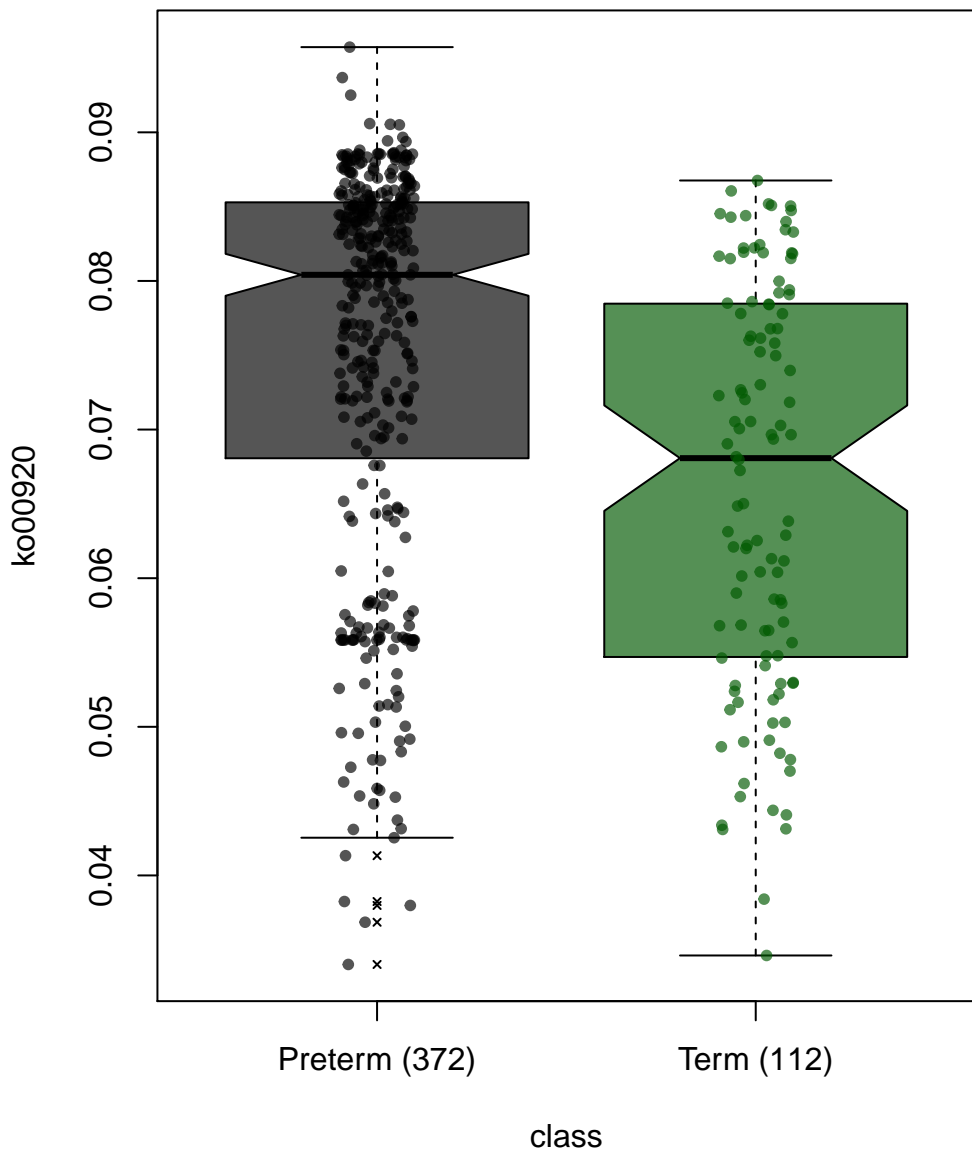
classTerm (−0.00217 sd 0.000349, p=1.08e−09, q=3.05e−09)



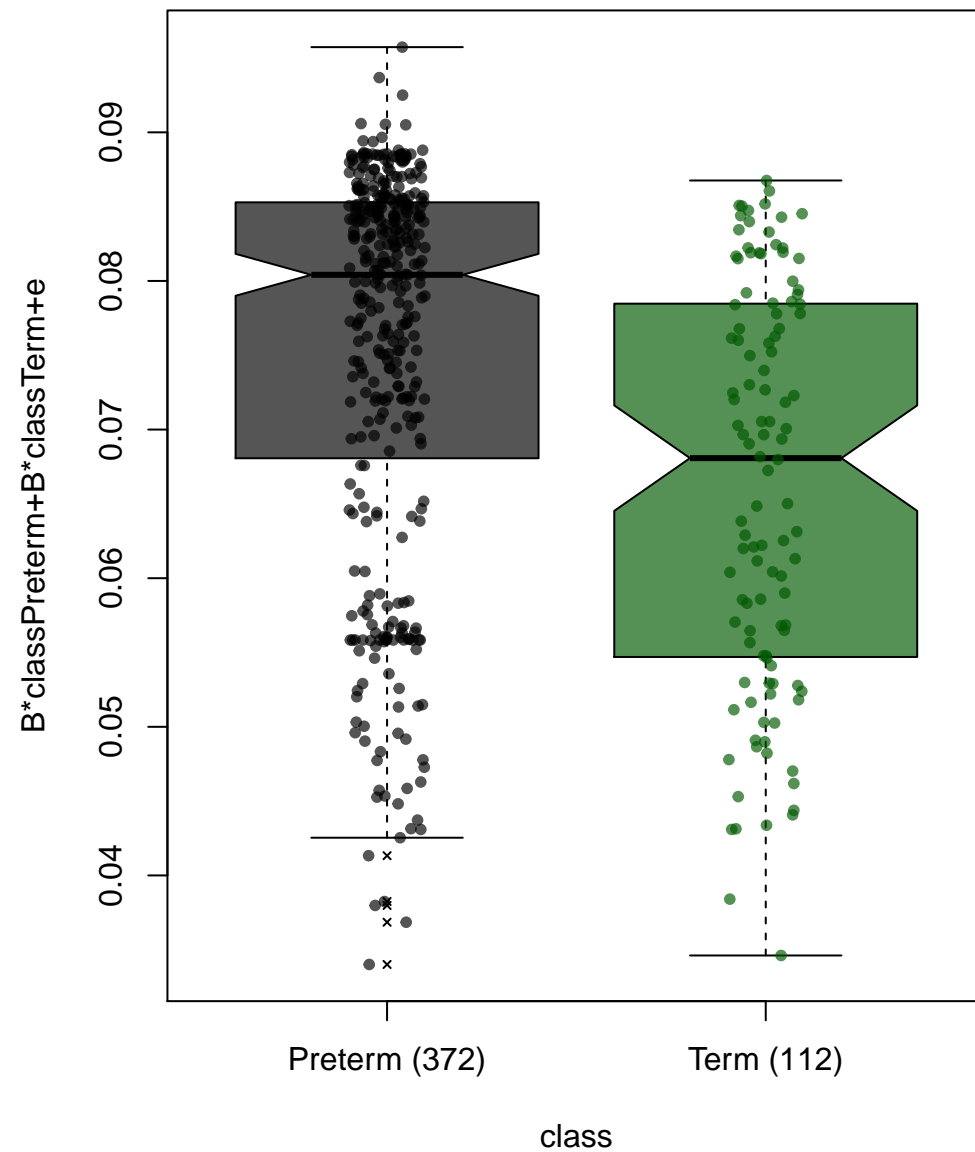
Partial Residual Plot



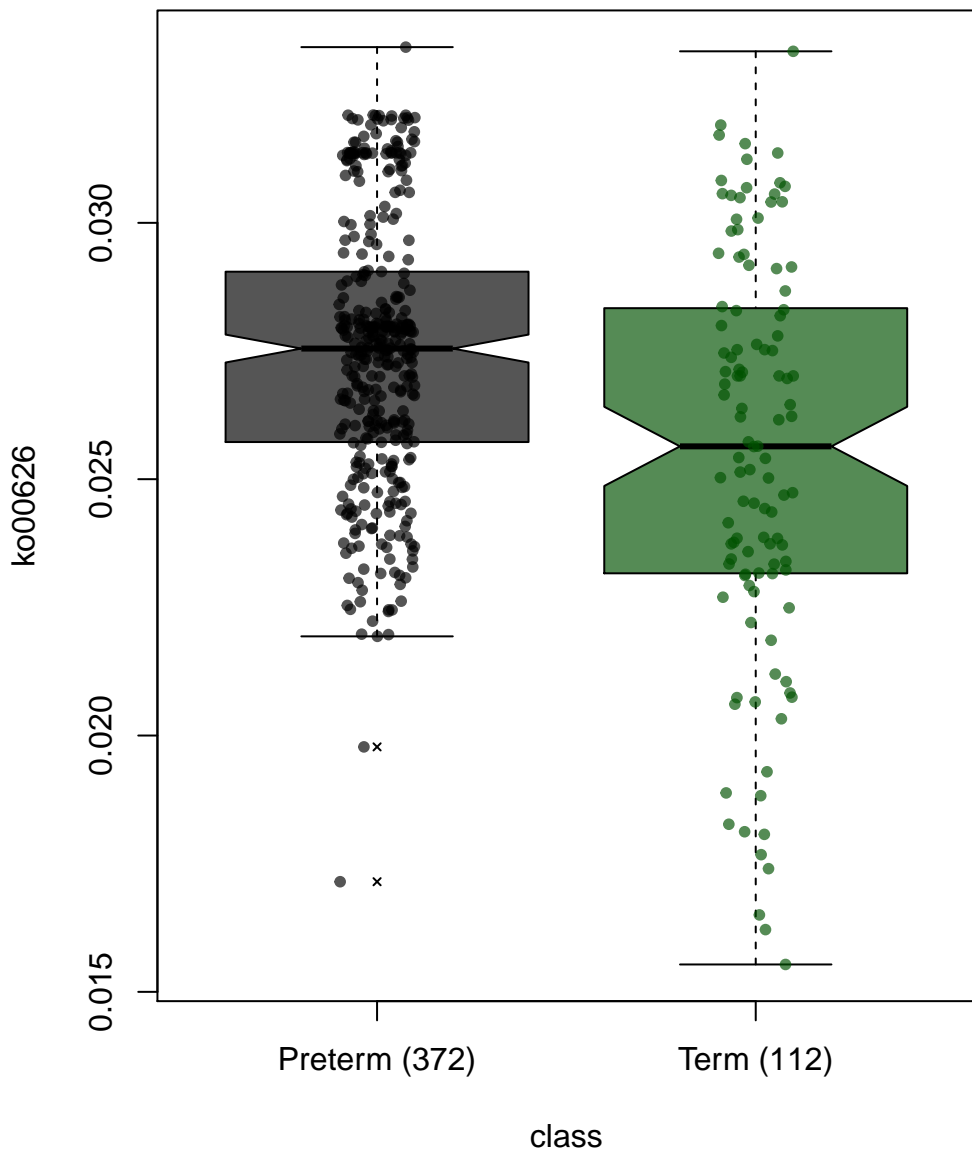
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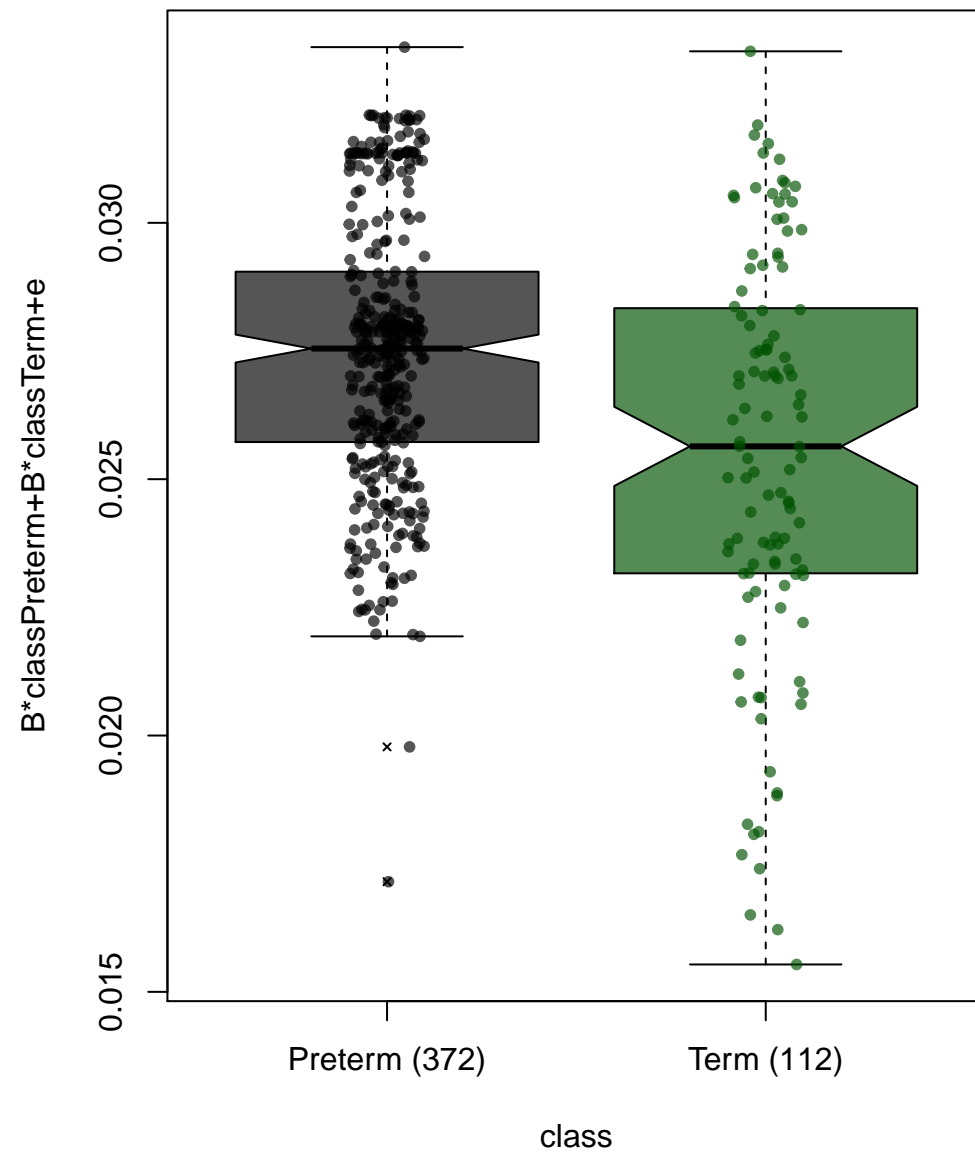
Partial Residual Plot



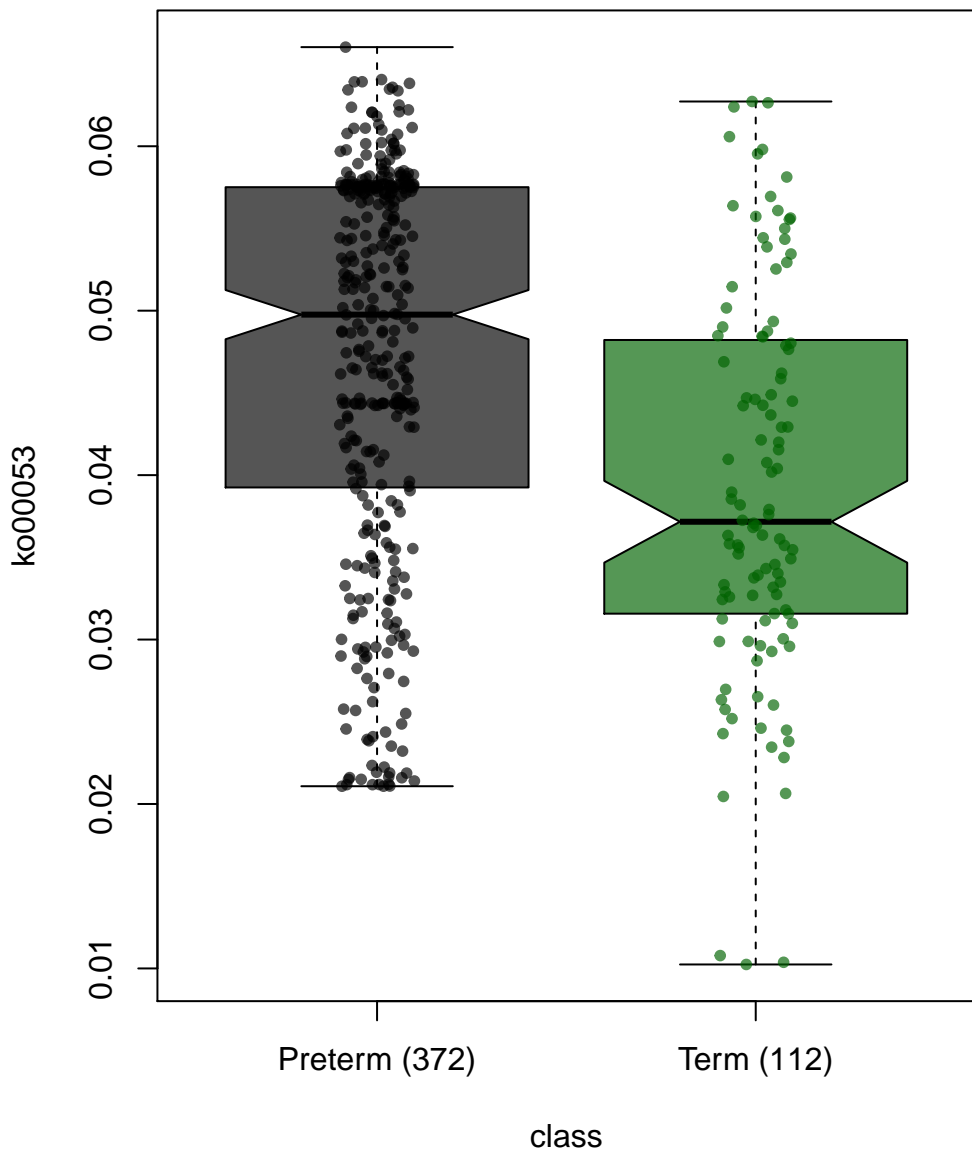
classTerm (-0.00202 sd 0.000327, p=1.39e-09, q=3.85e-09)



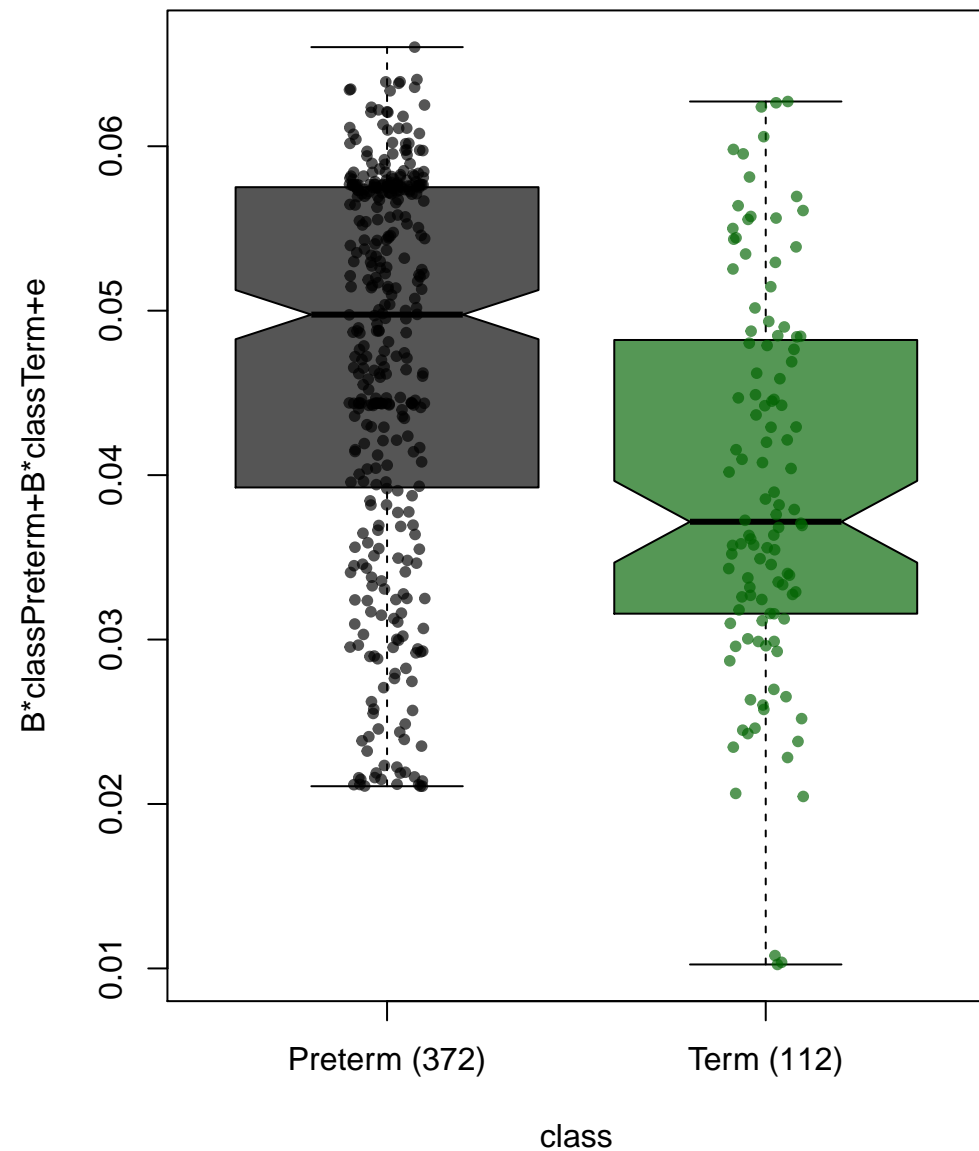
Partial Residual Plot



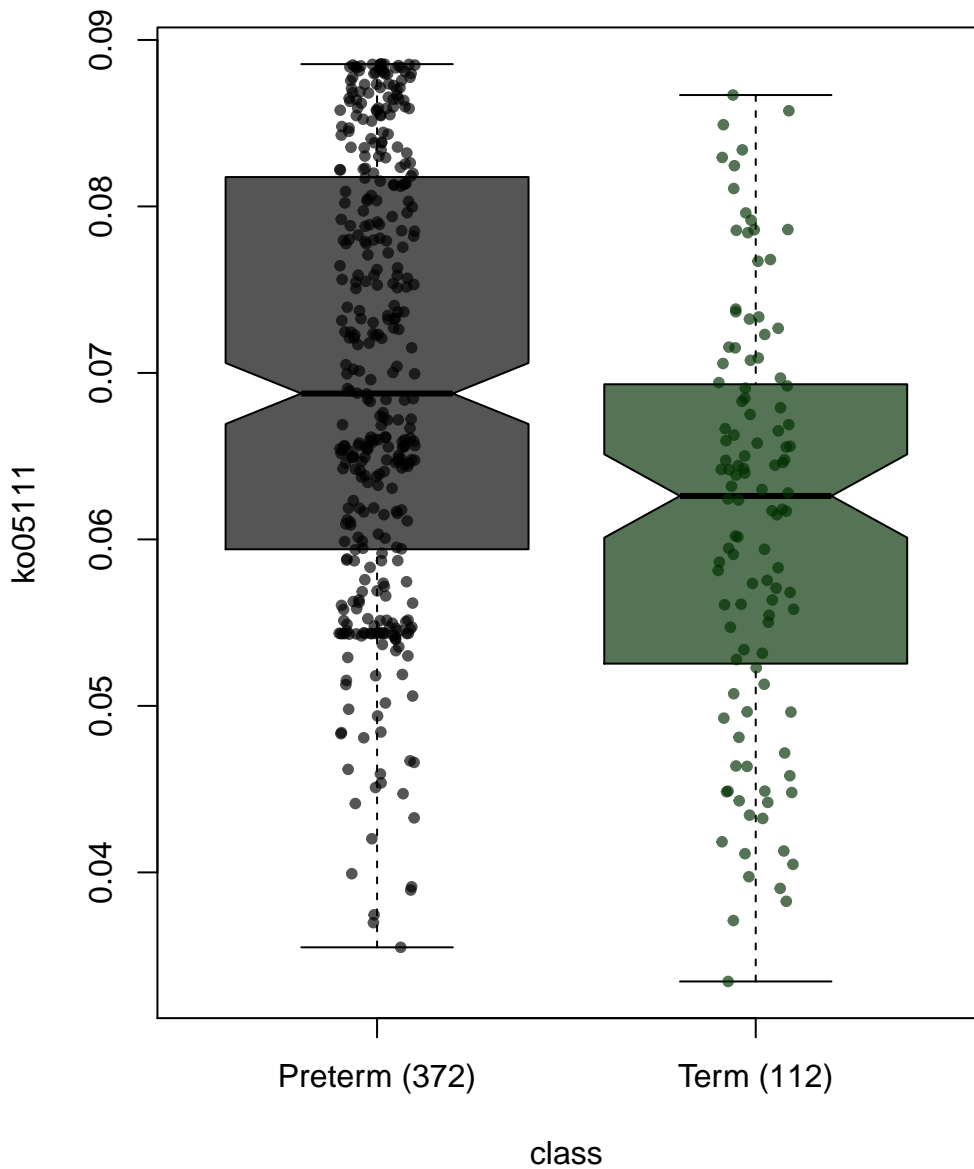
classTerm (-0.00783 sd 0.00127 , $p=1.7e-09$, $q=4.65e-09$)



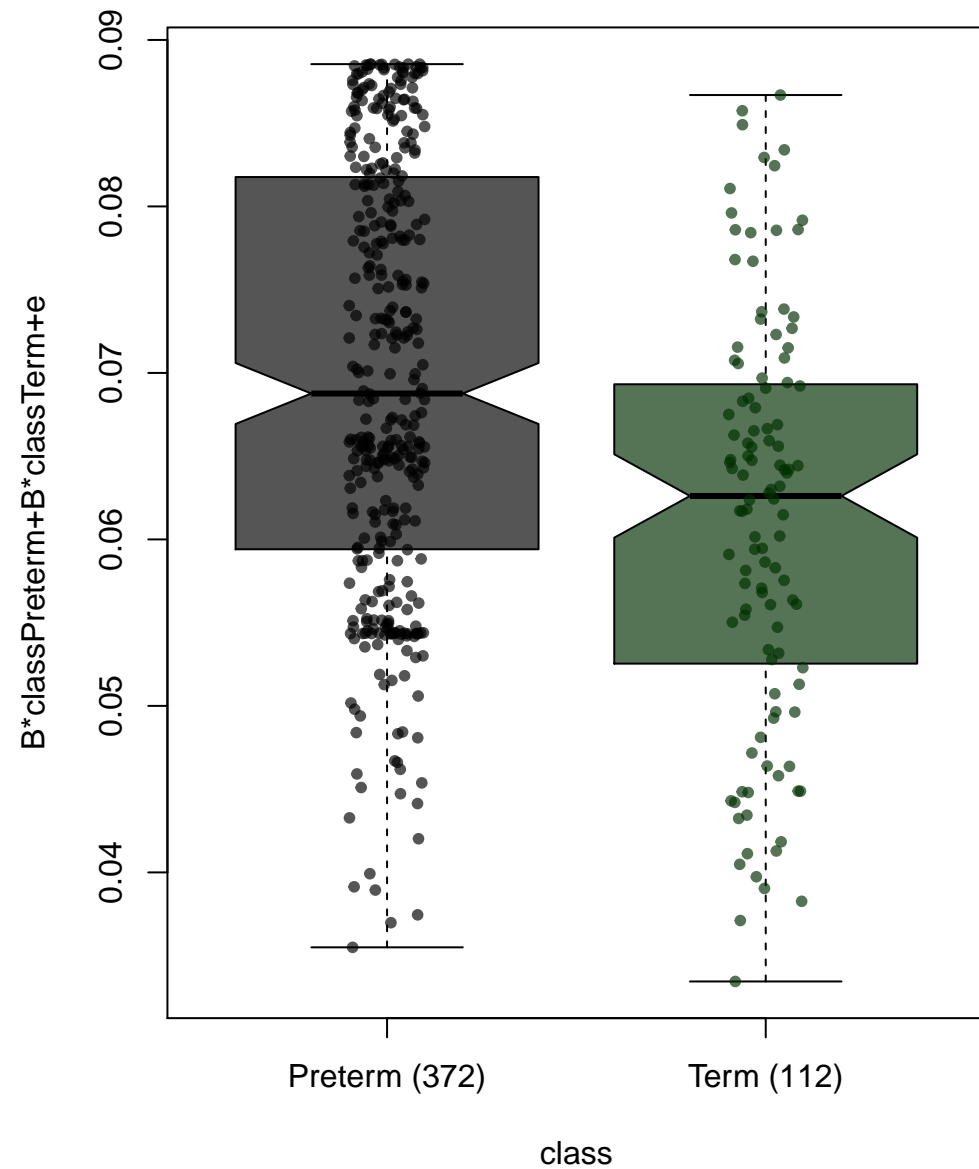
Partial Residual Plot



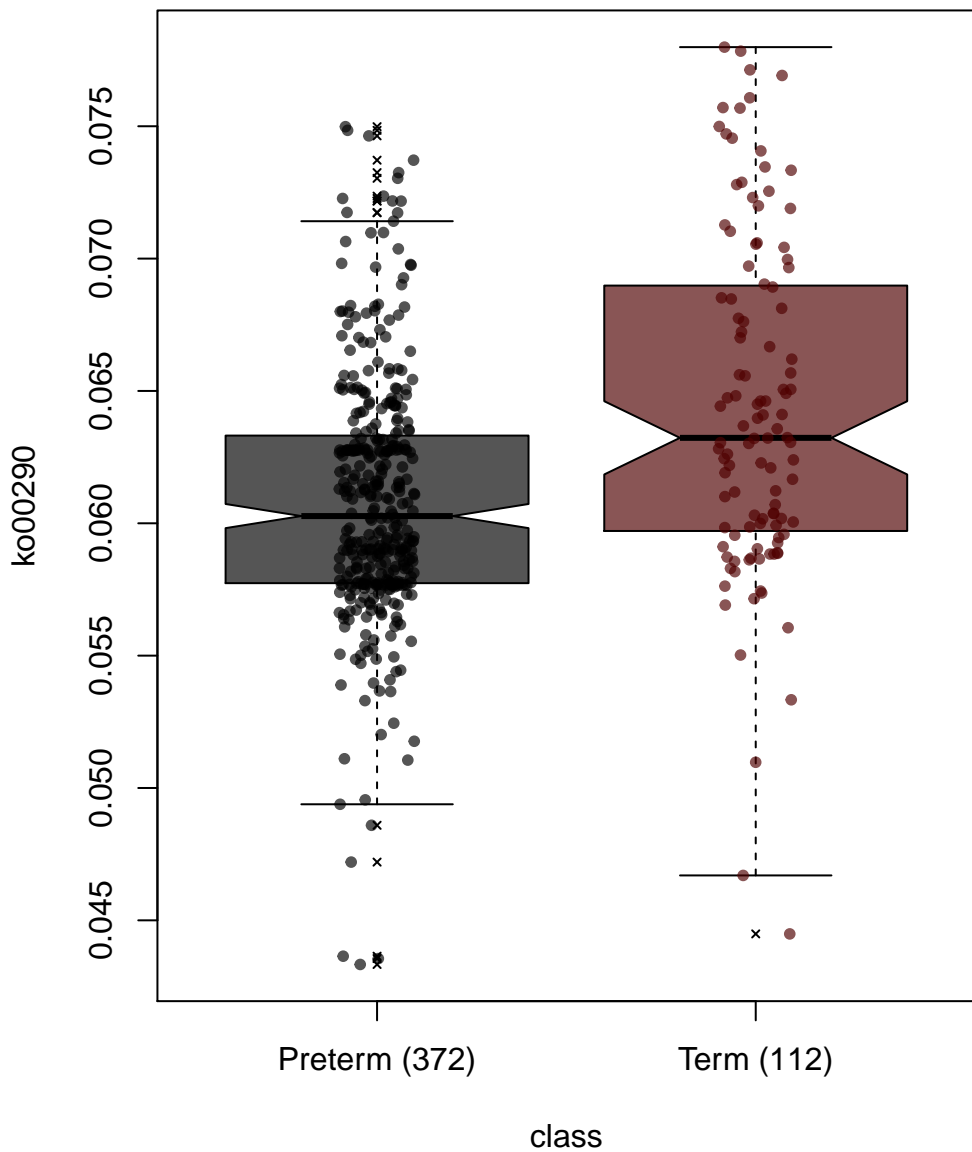
classTerm (-0.00851 sd 0.00139 , $p=1.92e-09$, $q=5.2e-09$)



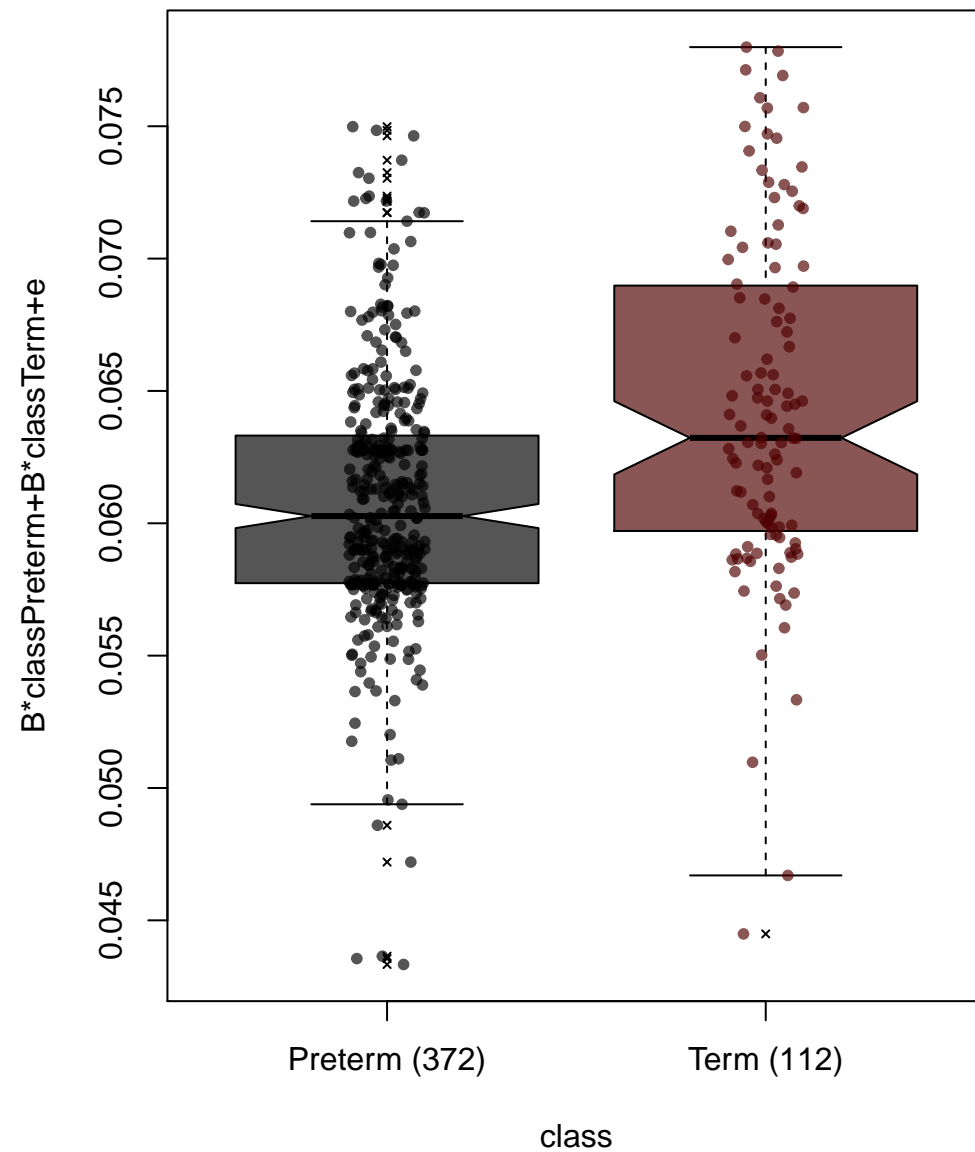
Partial Residual Plot



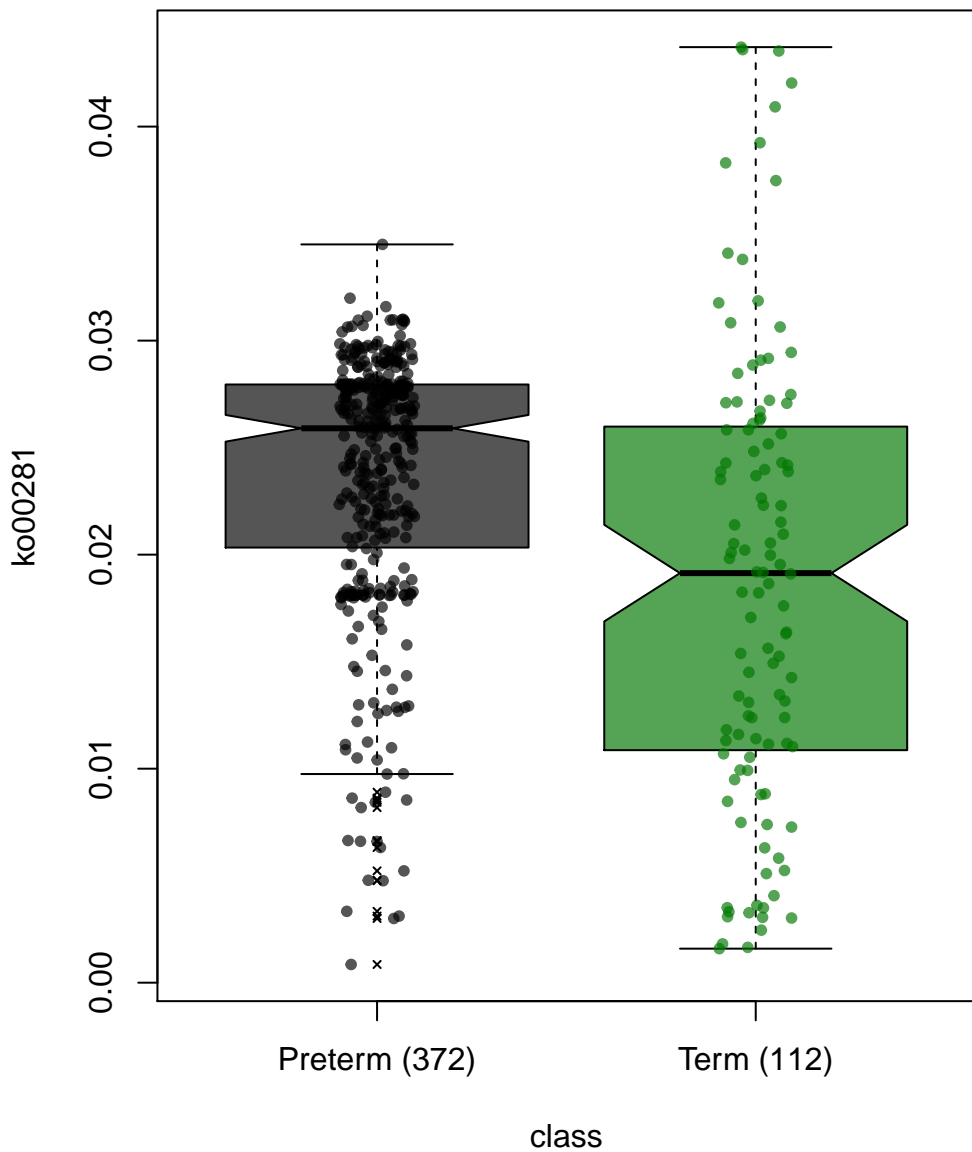
classTerm (0.00345 sd 0.000566, p=2.24e-09, q=6.01e-09)



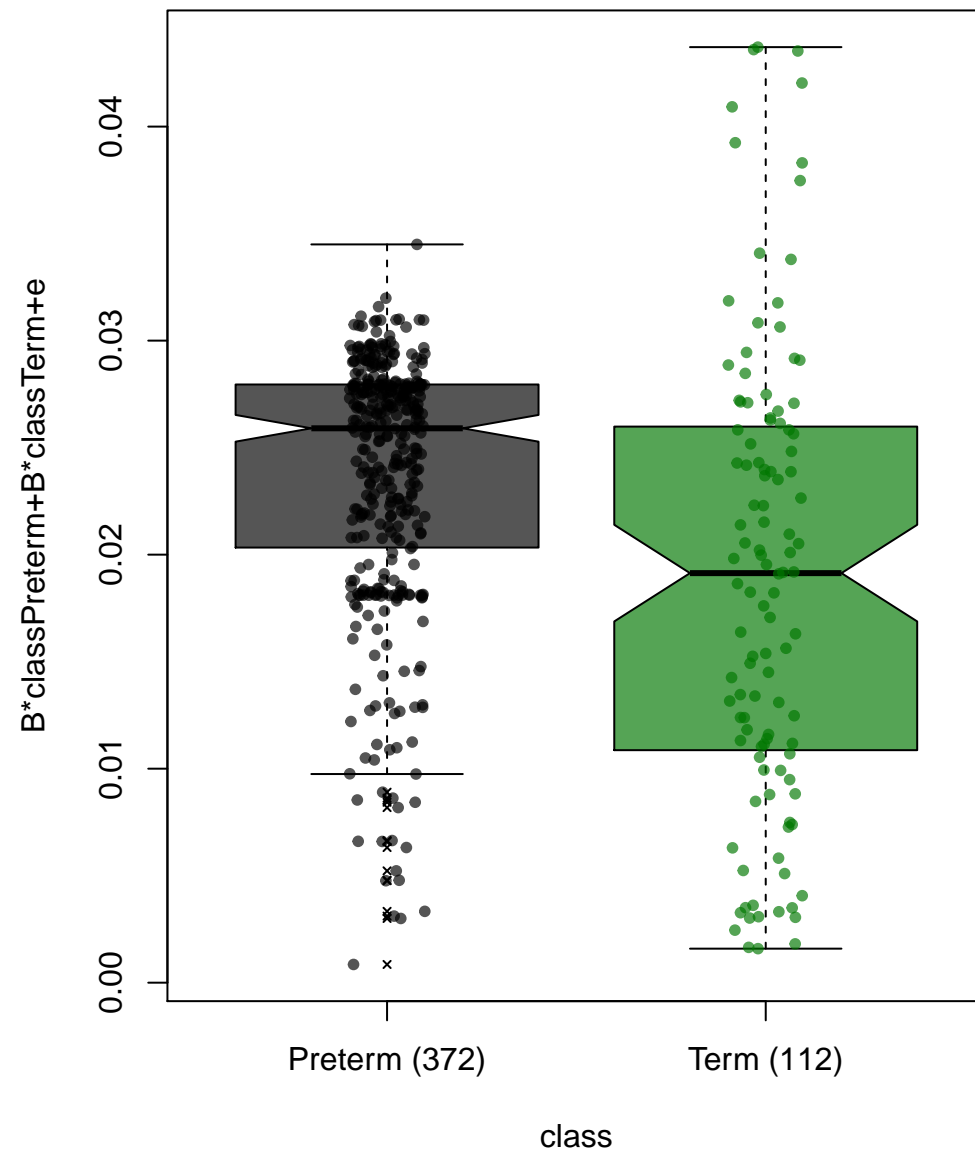
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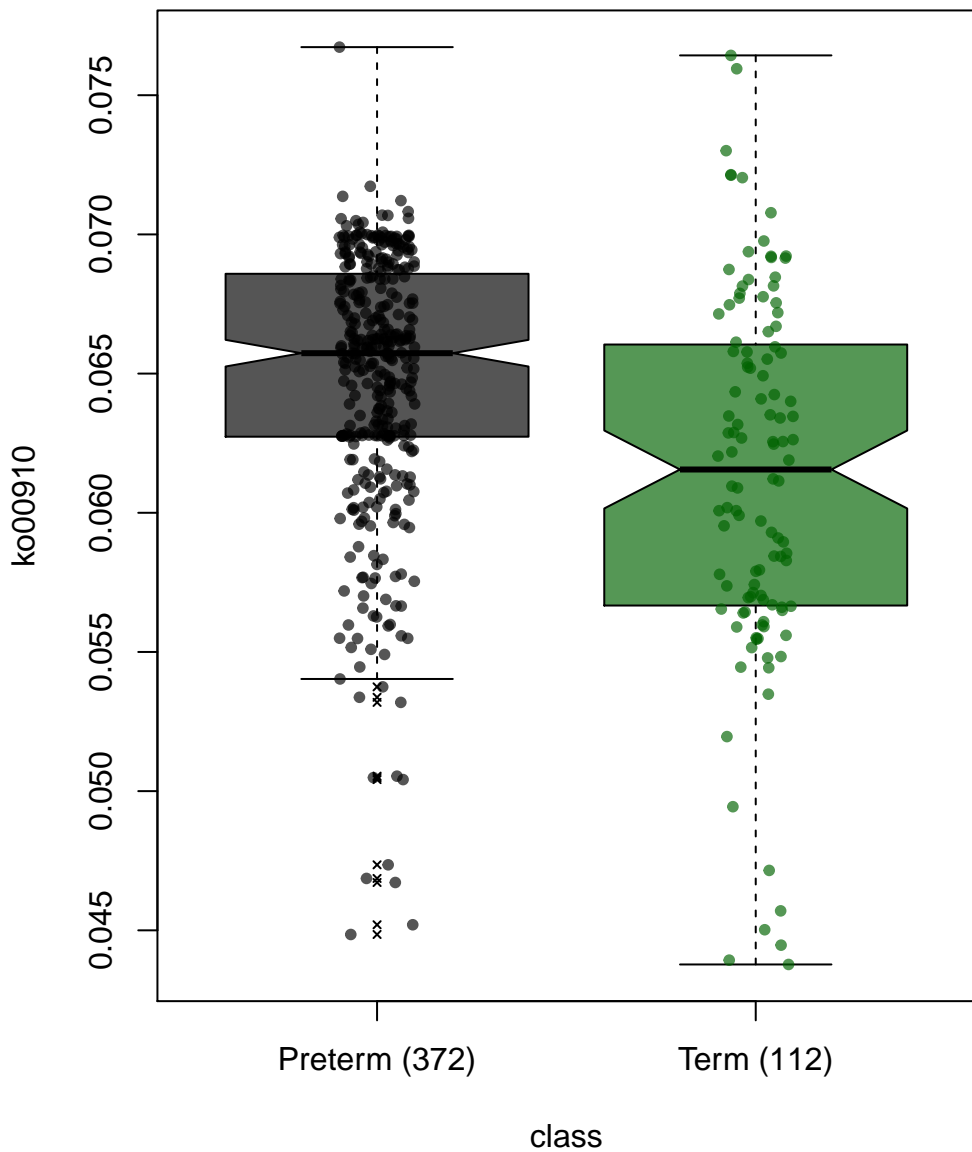
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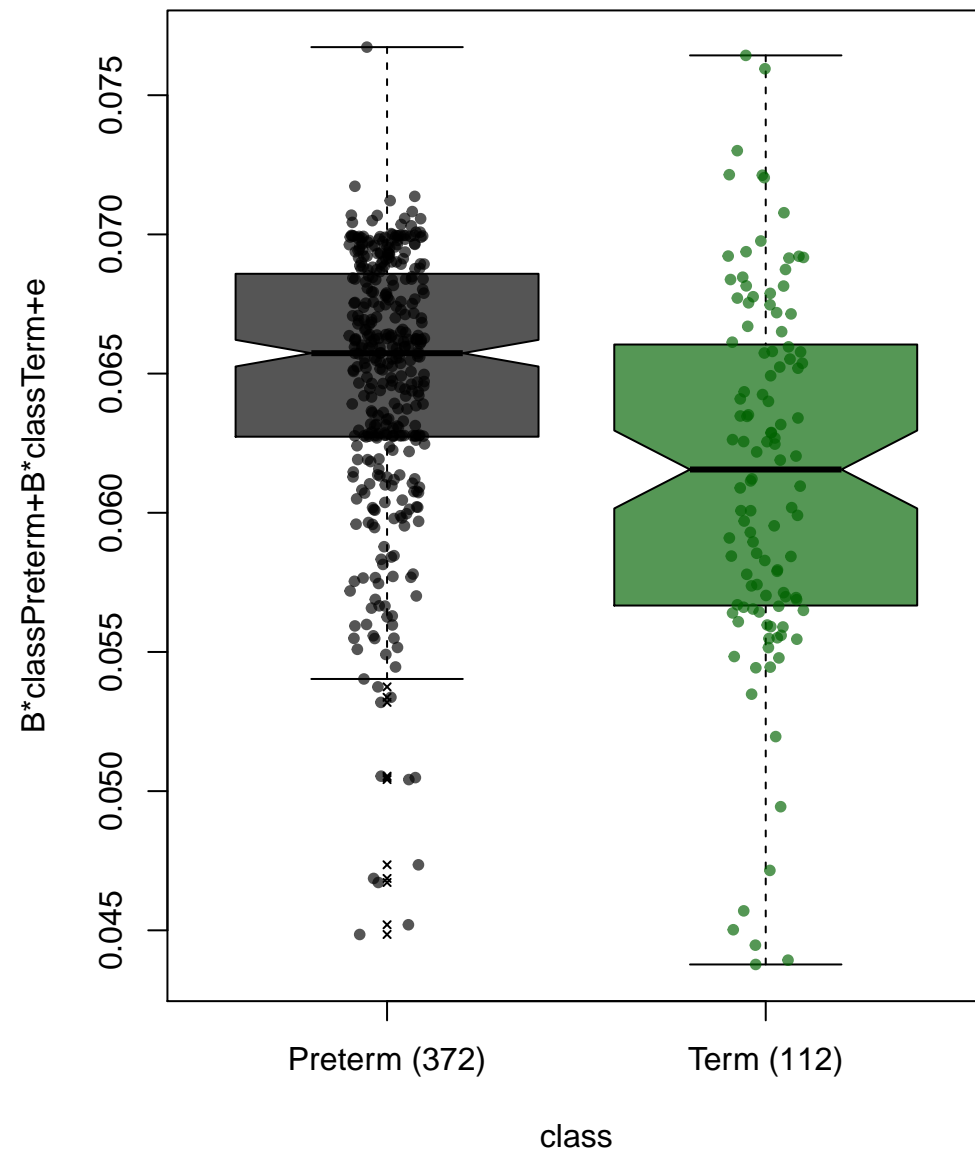
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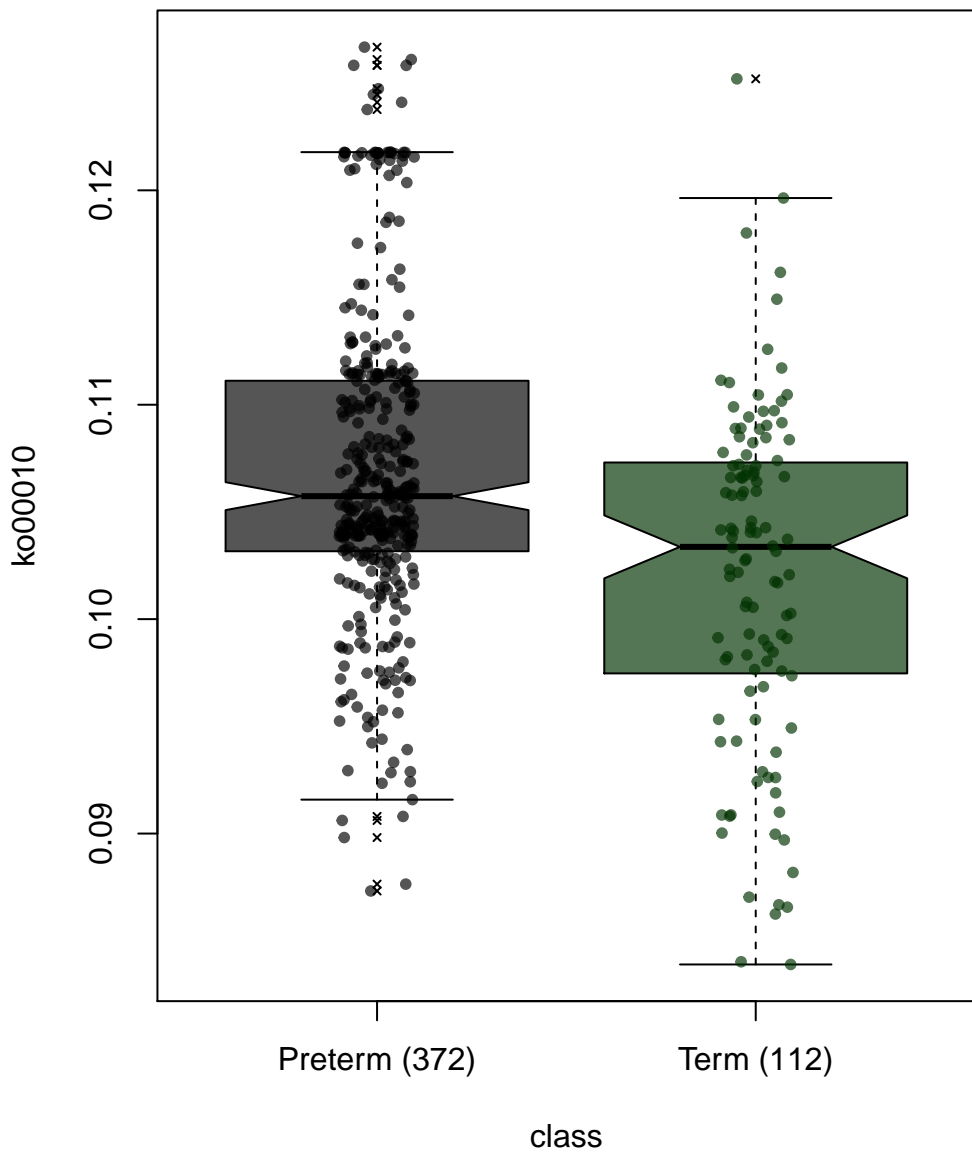
classTerm (−0.00347 sd 0.000573, p=2.85e−09, q=7.51e−09)



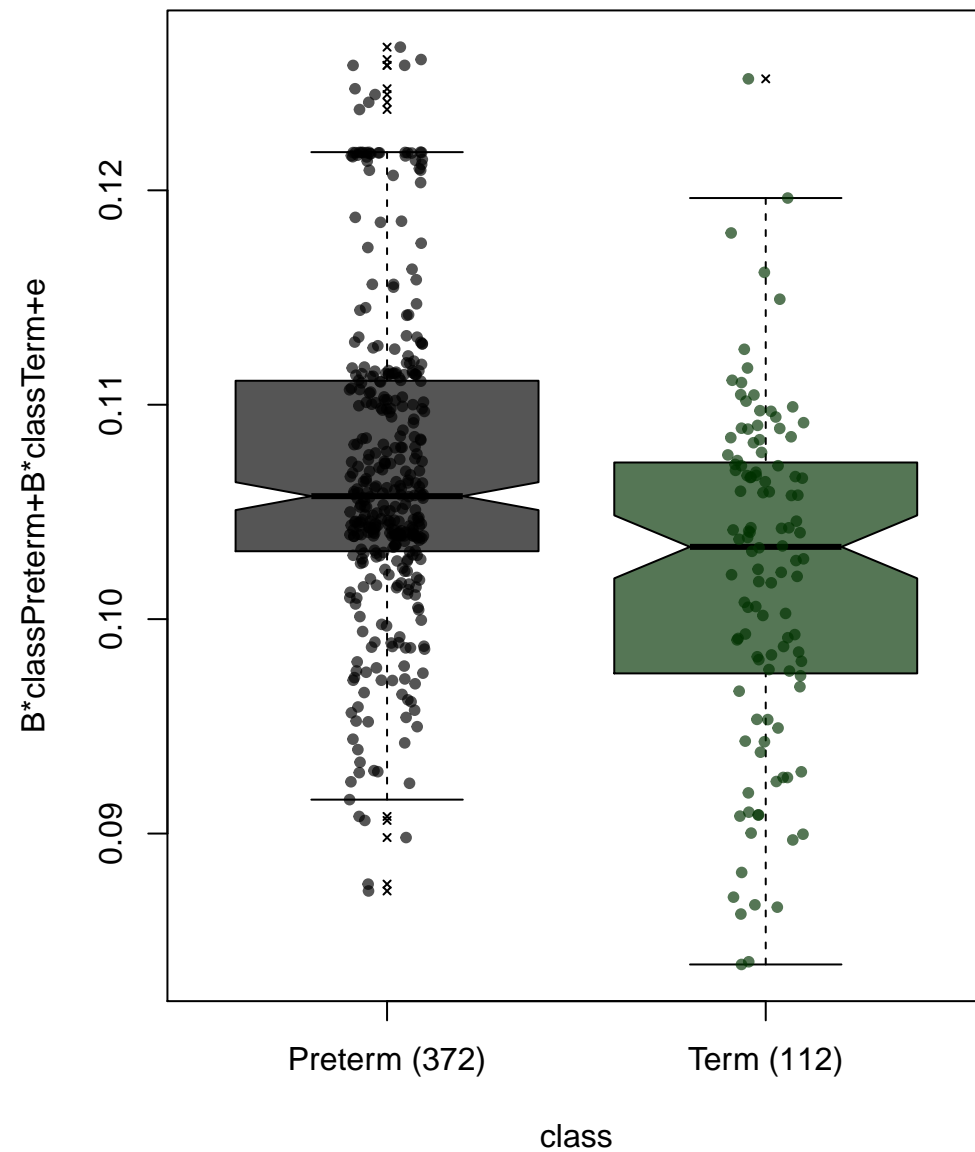
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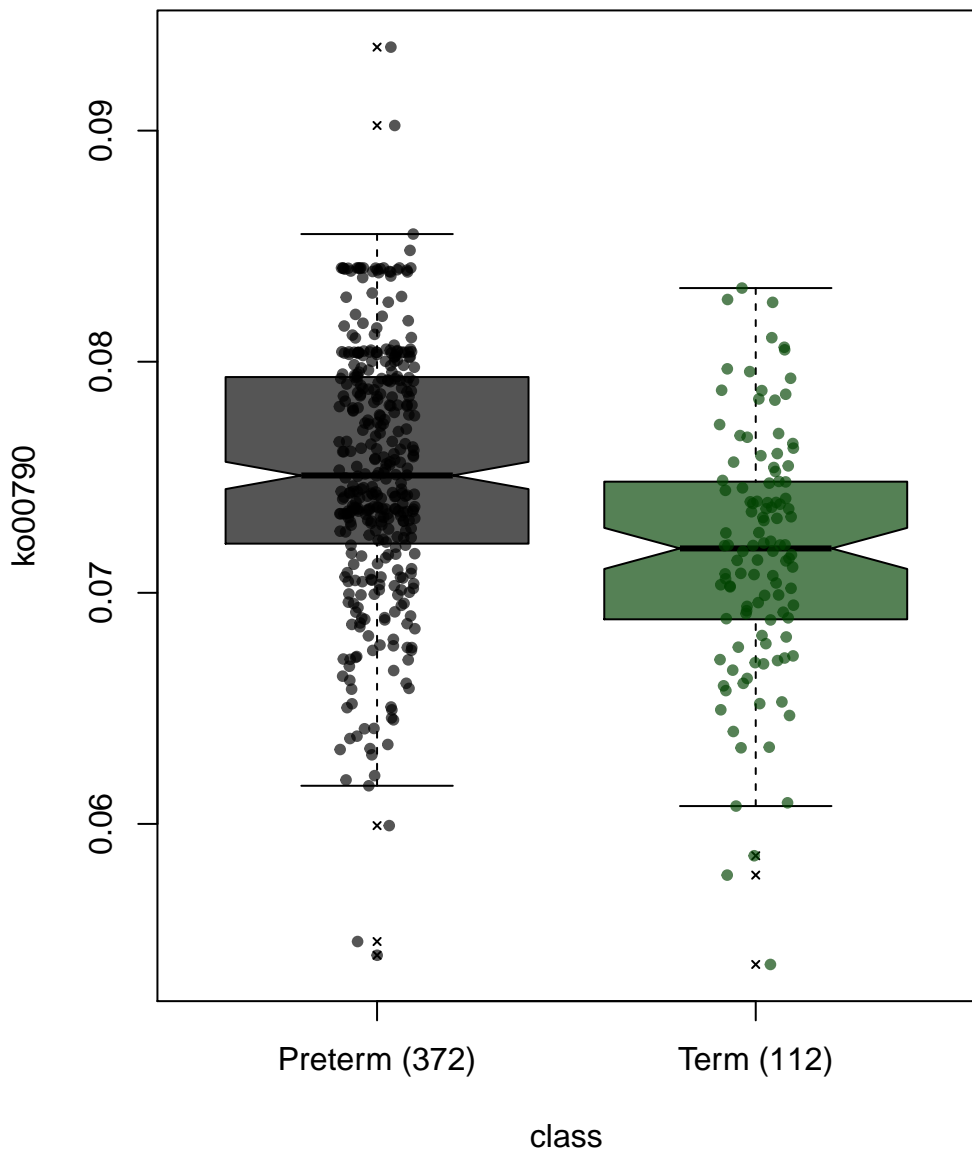
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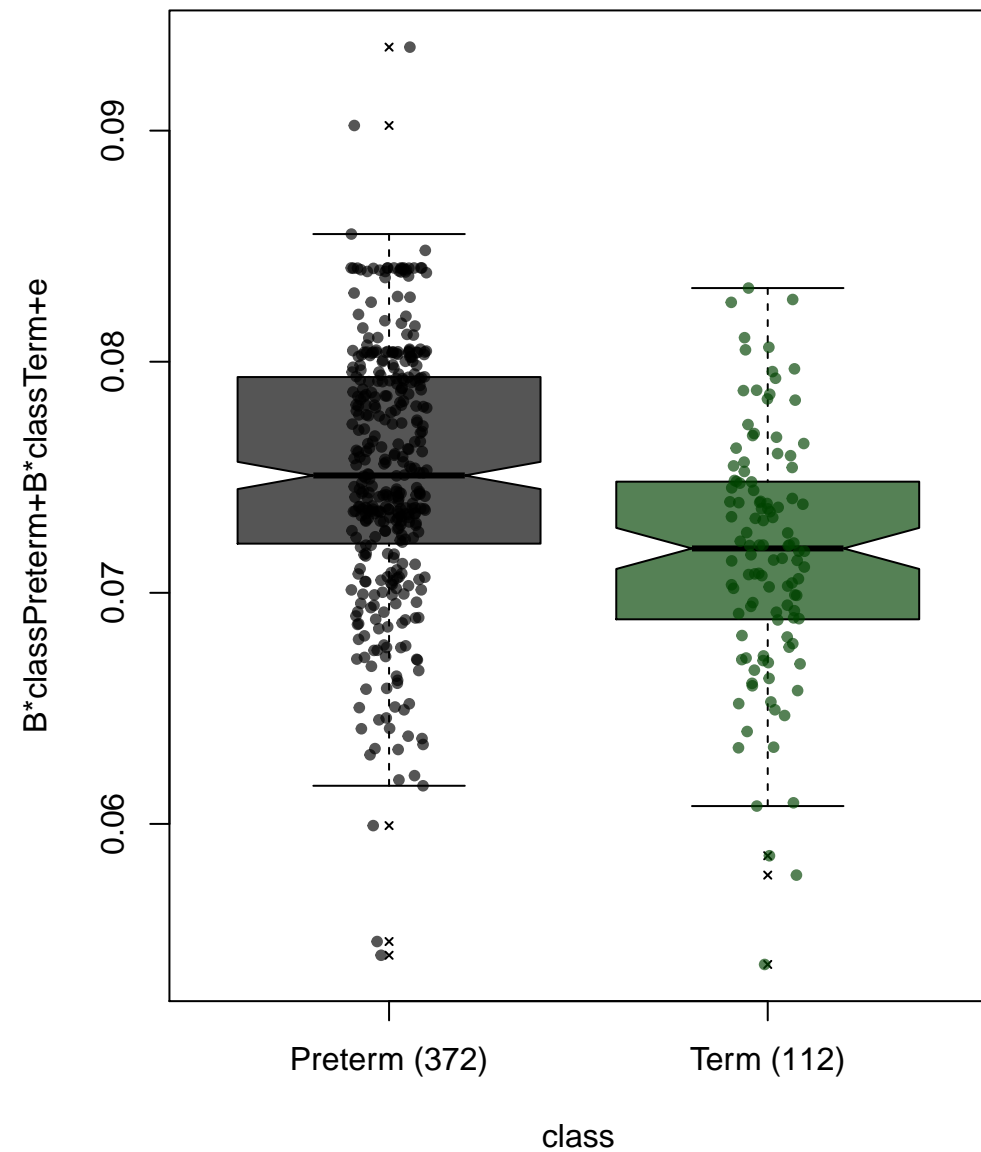
Partial Residual Plot



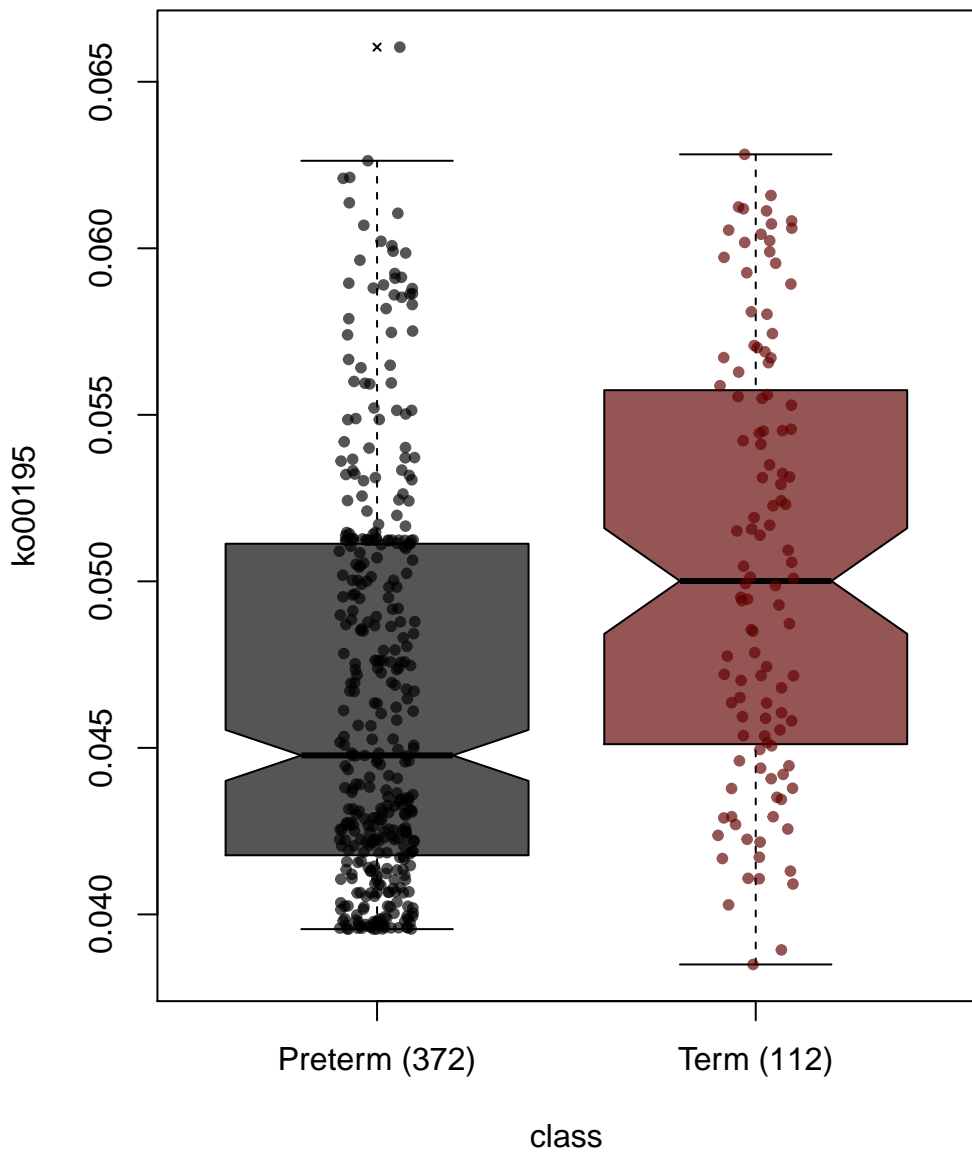
classTerm (-0.00354 sd 0.000594, p=4.88e-09, q=1.26e-08)



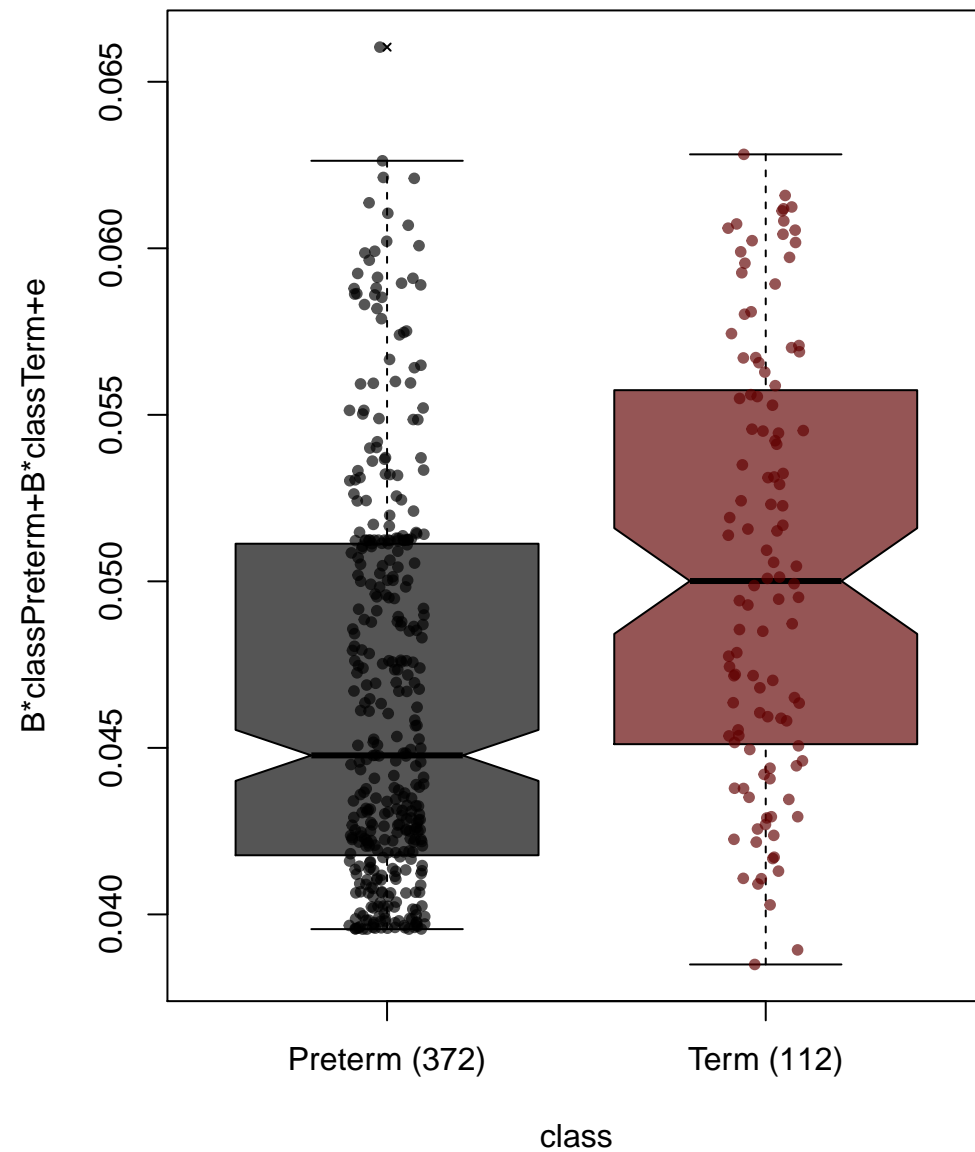
Partial Residual Plot



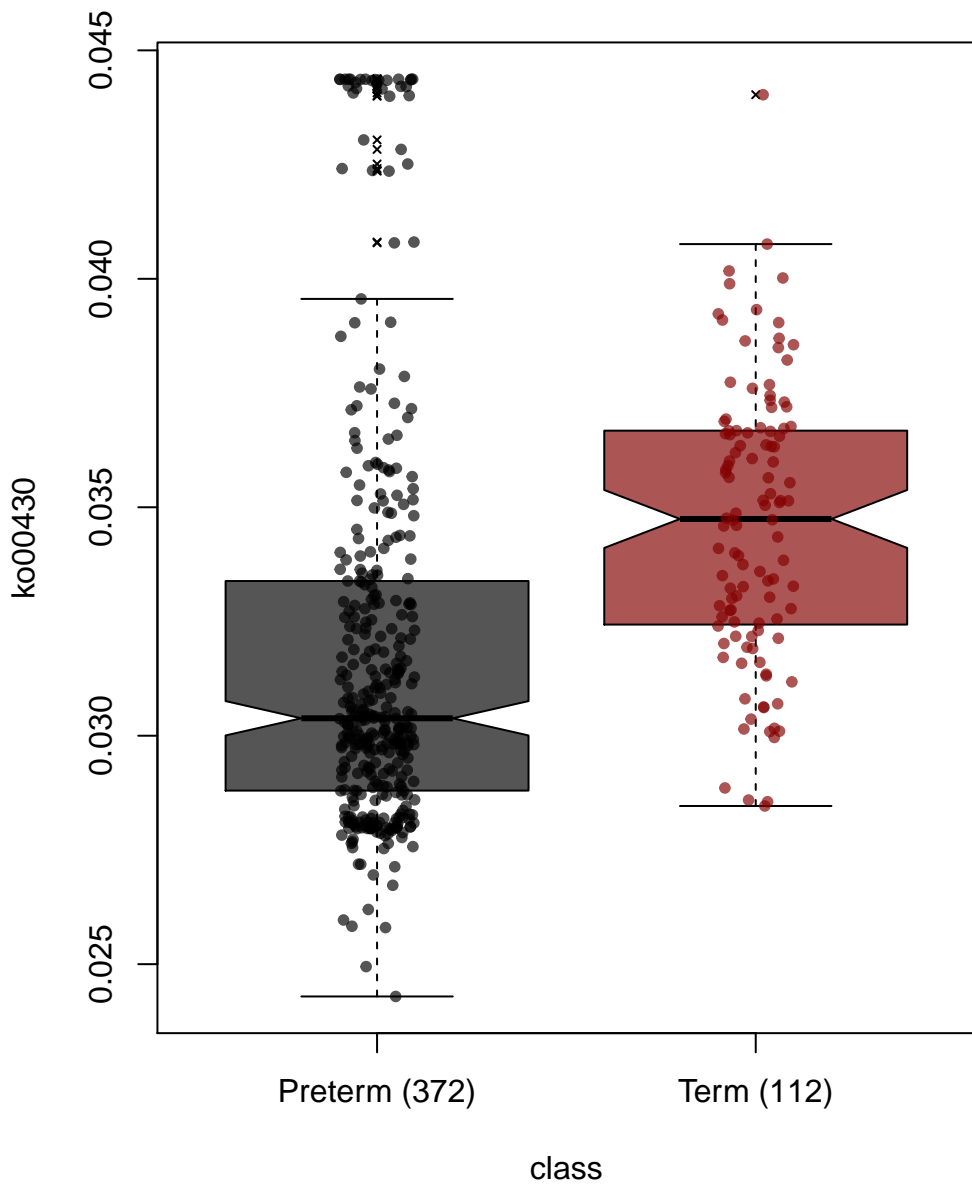
classTerm (0.00388 sd 0.000654, p=5.65e-09, q=1.45e-08)



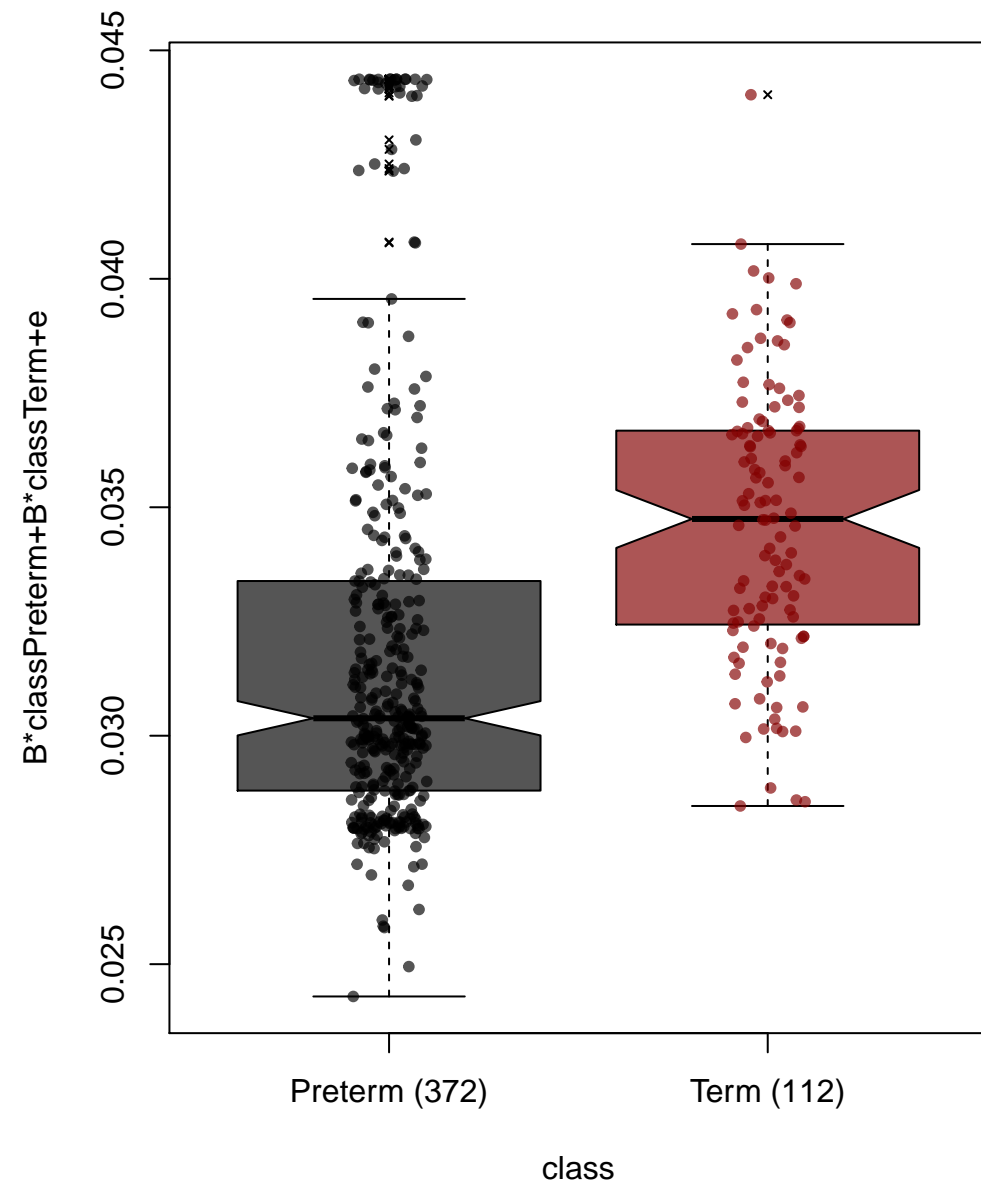
Partial Residual Plot



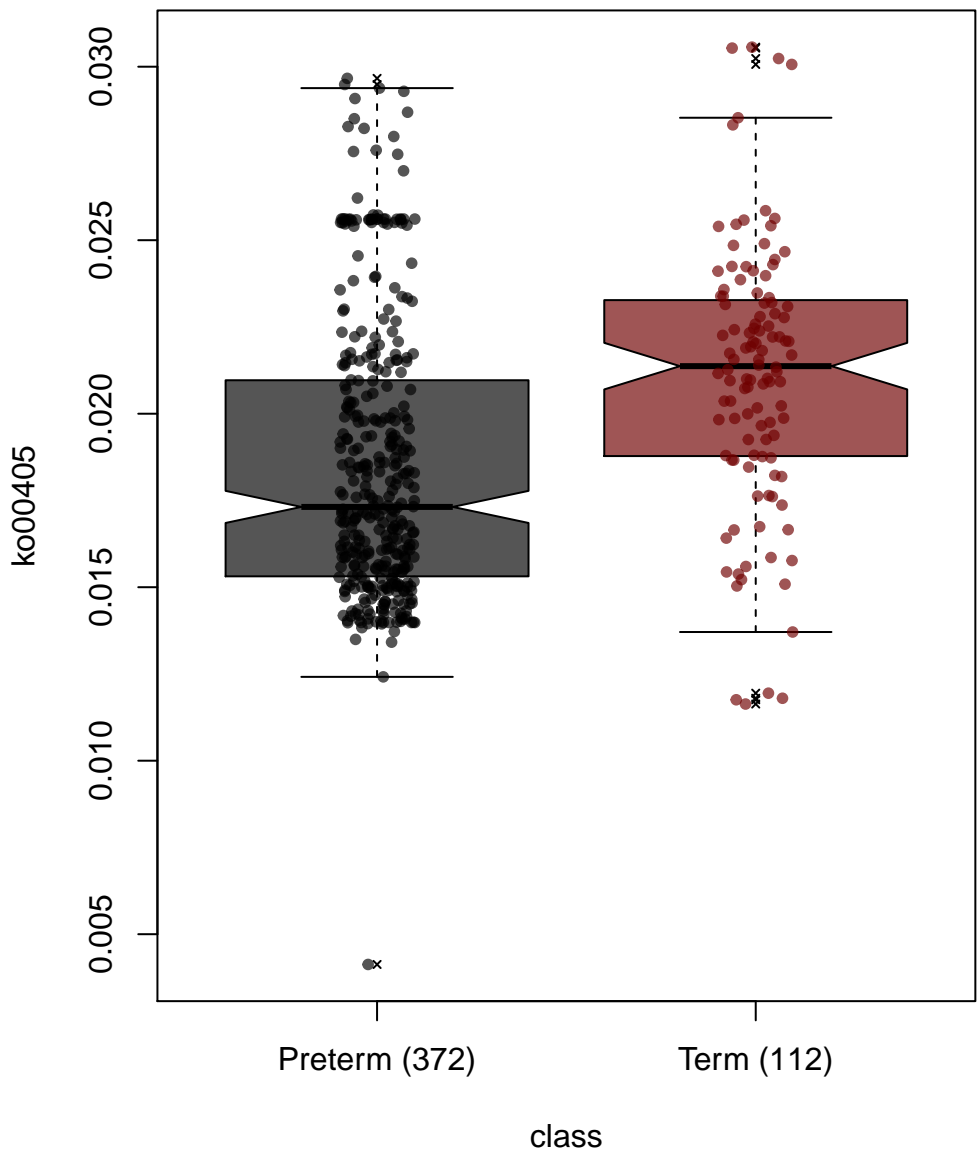
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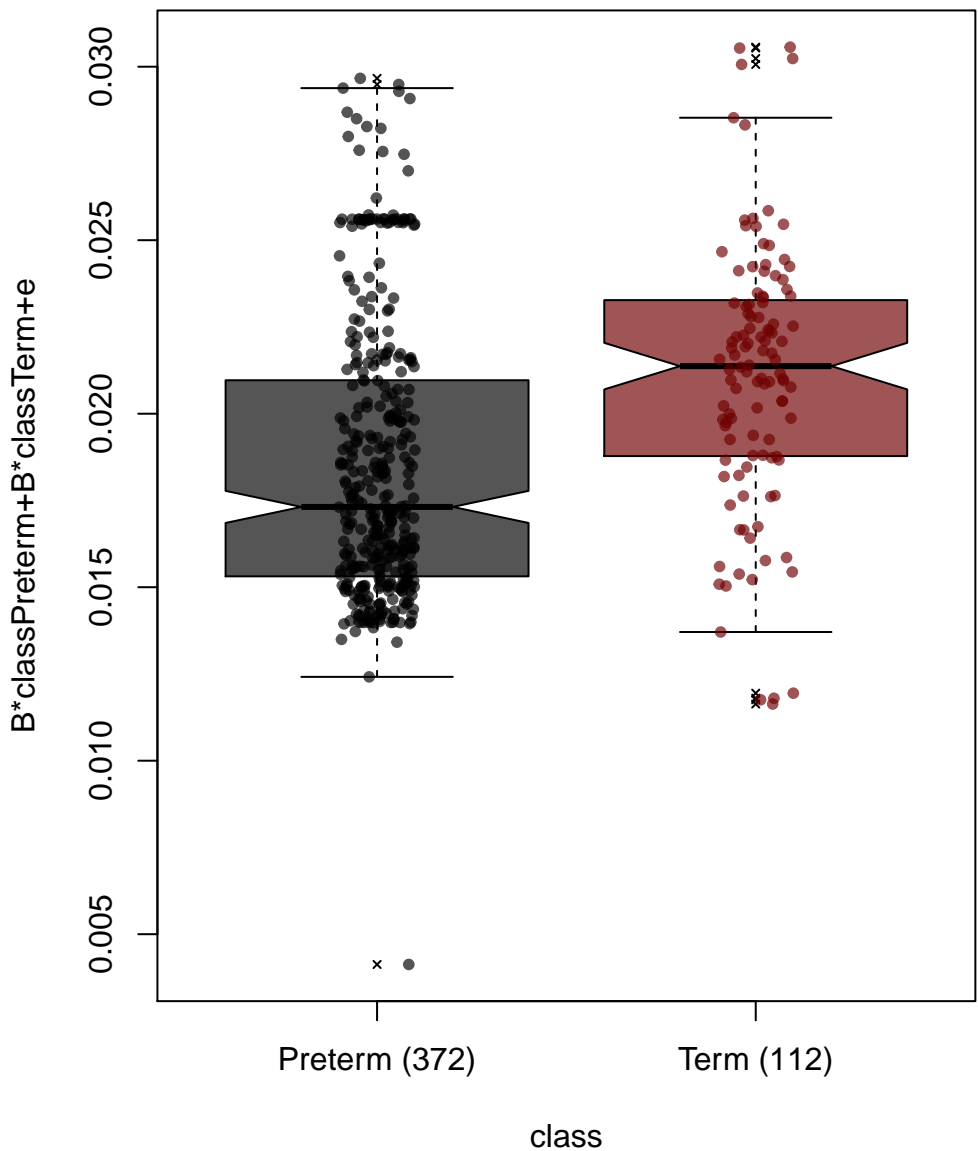
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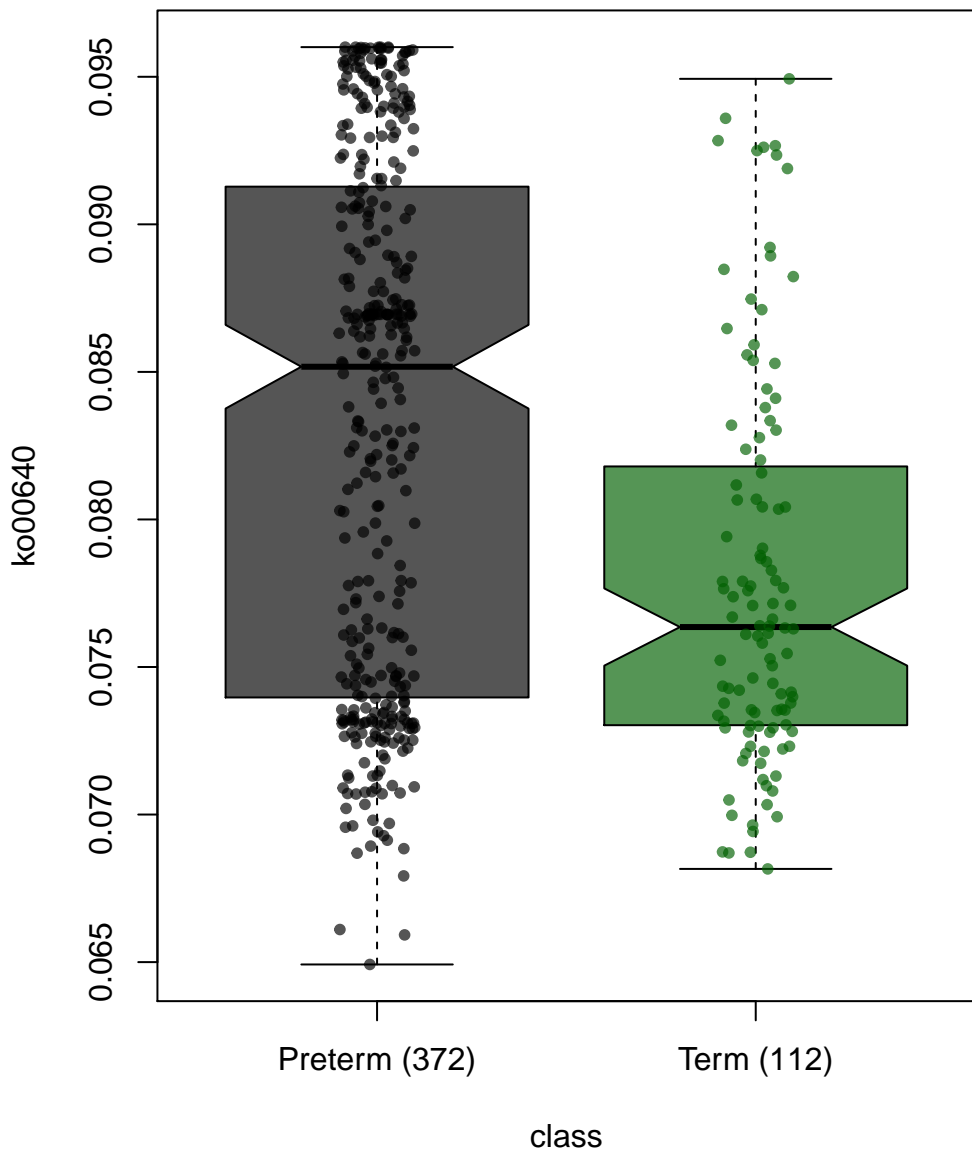
classTerm (0.00254 sd 0.000431, p=7e-09, q=1.76e-08)



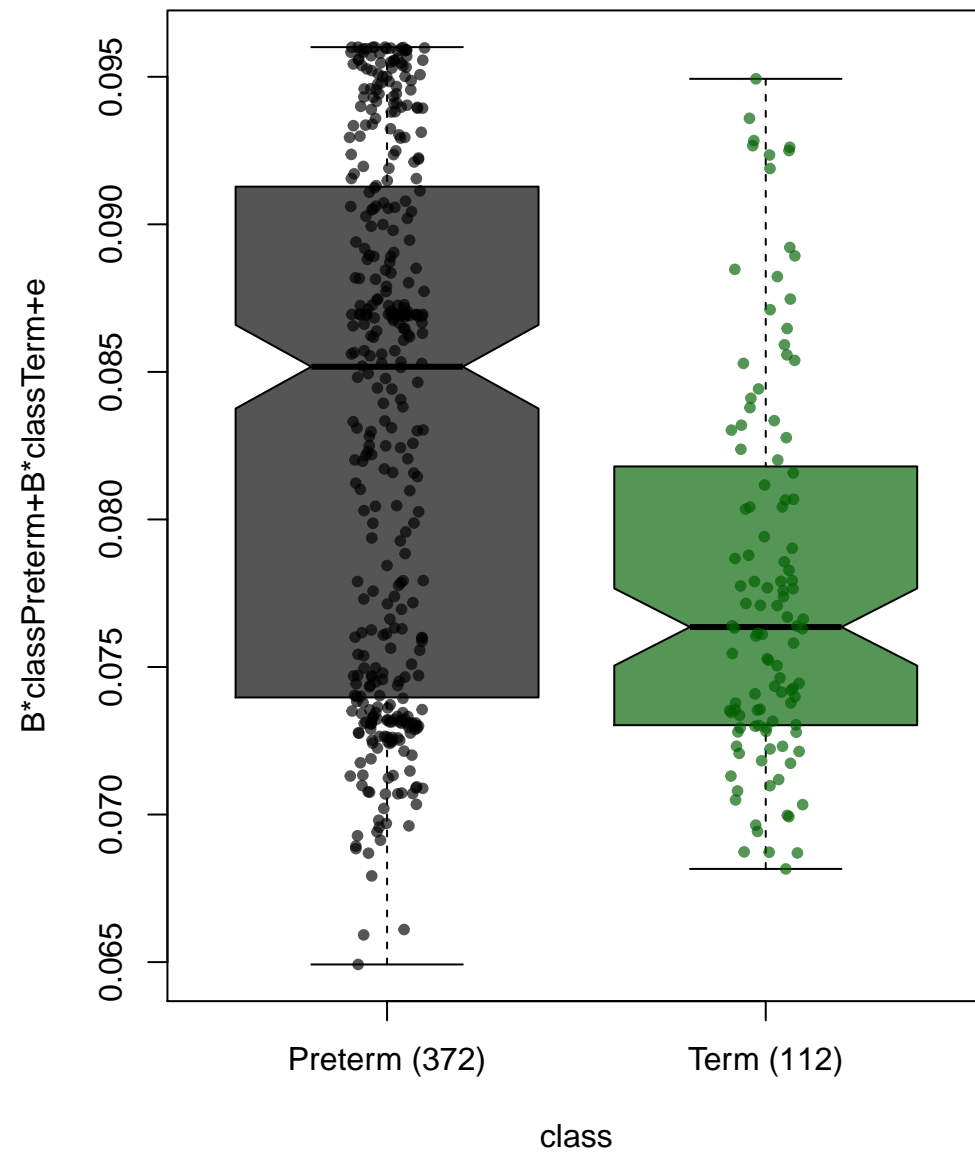
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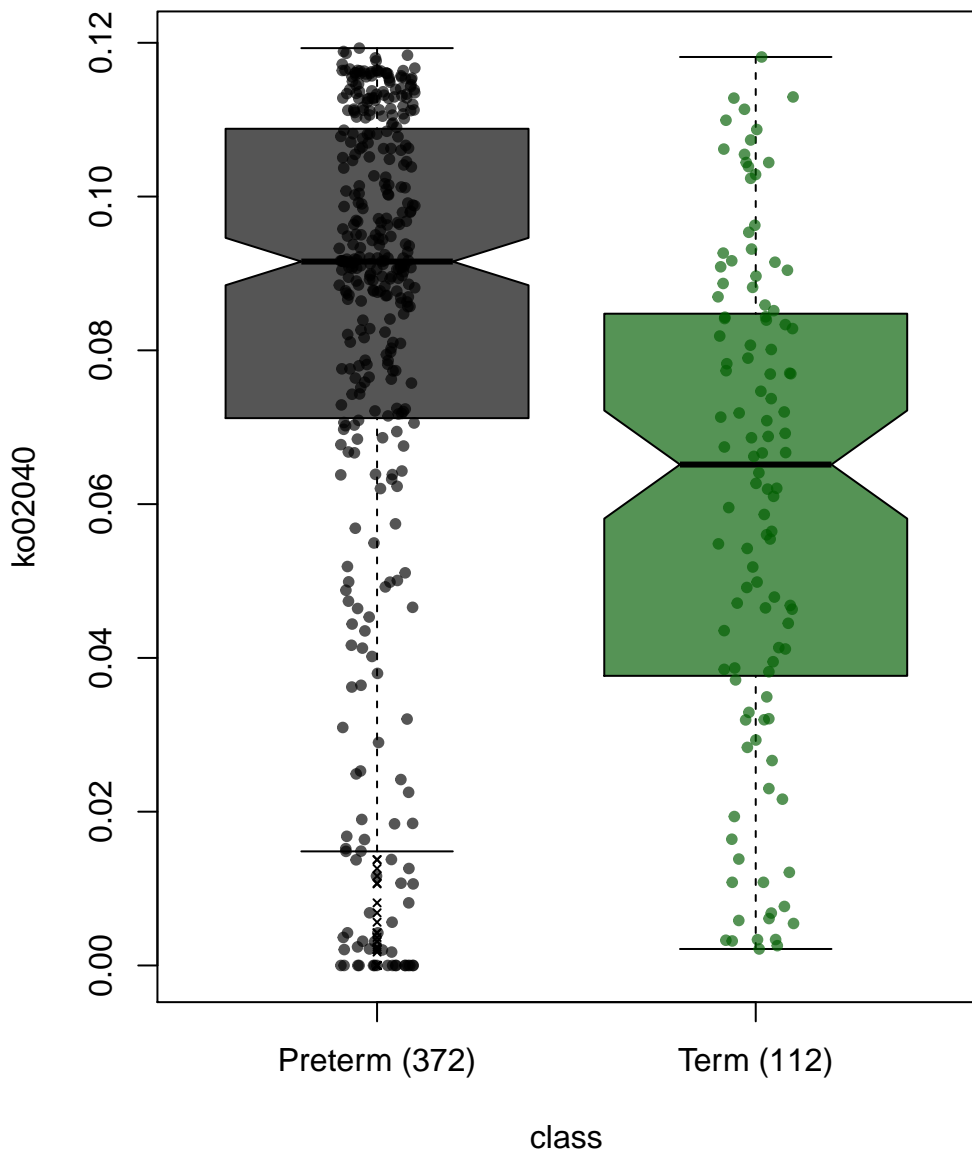
classTerm (-0.00532 sd 0.000904 , $p=7.34e-09$, $q=1.83e-08$)



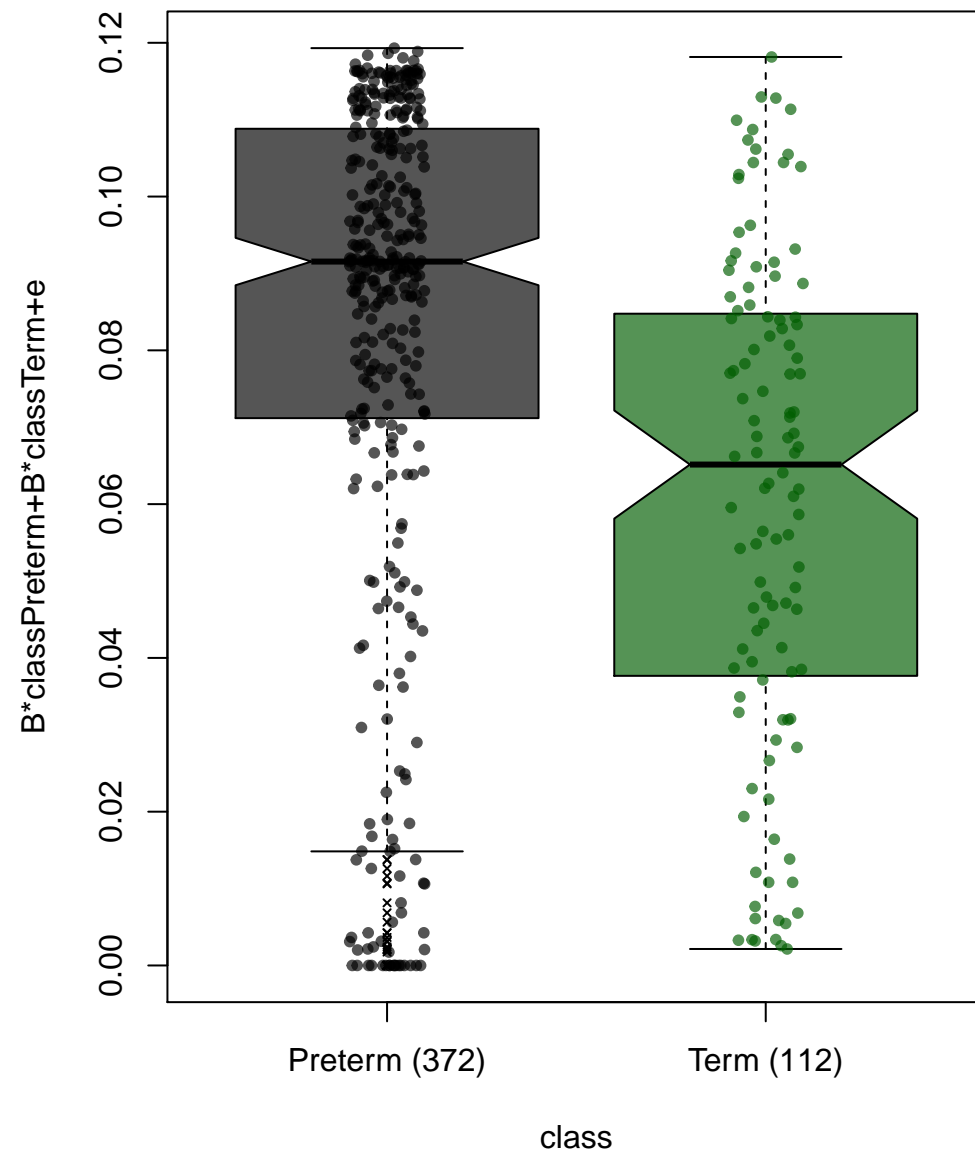
Partial Residual Plot



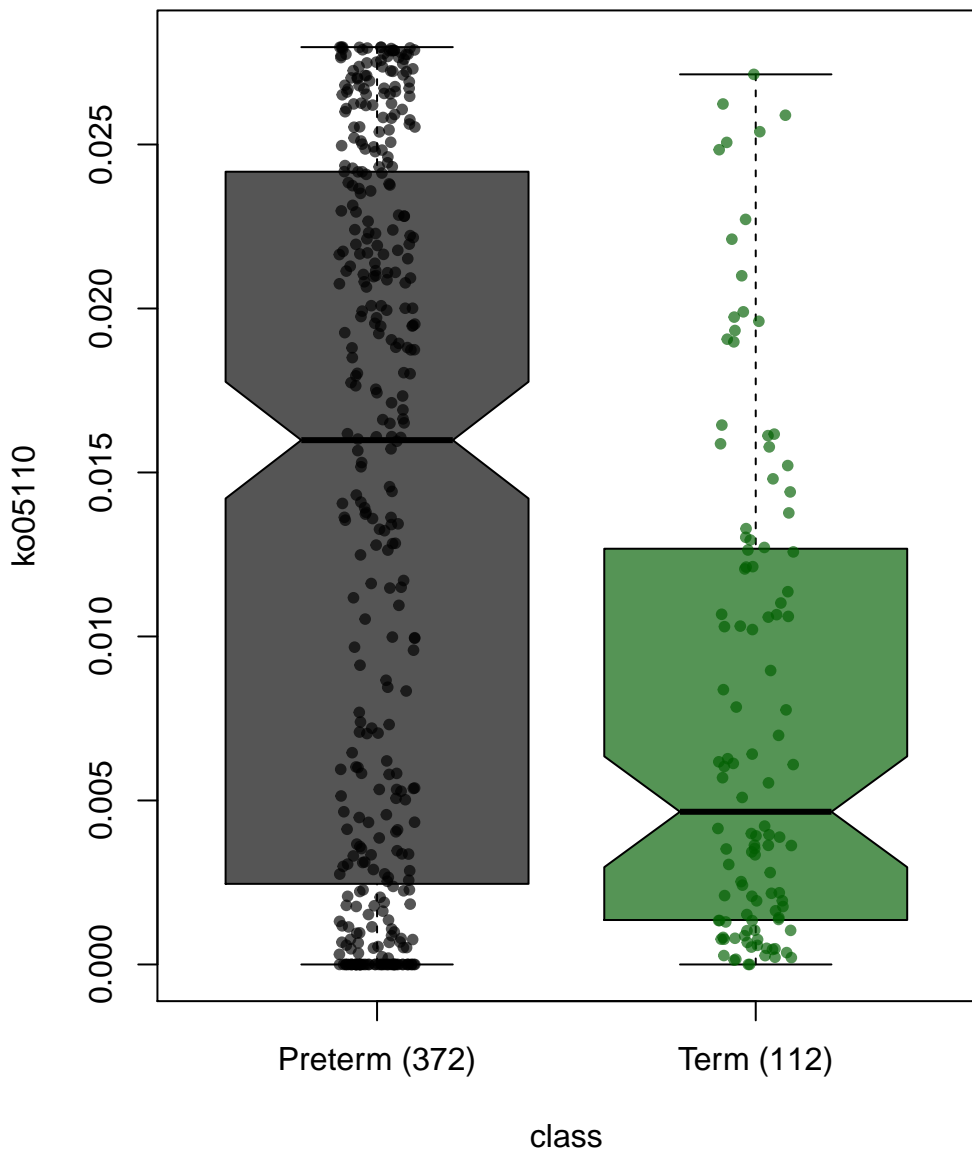
classTerm (-0.0214 sd 0.00366 , $p=9.24e-09$, $q=2.28e-08$)



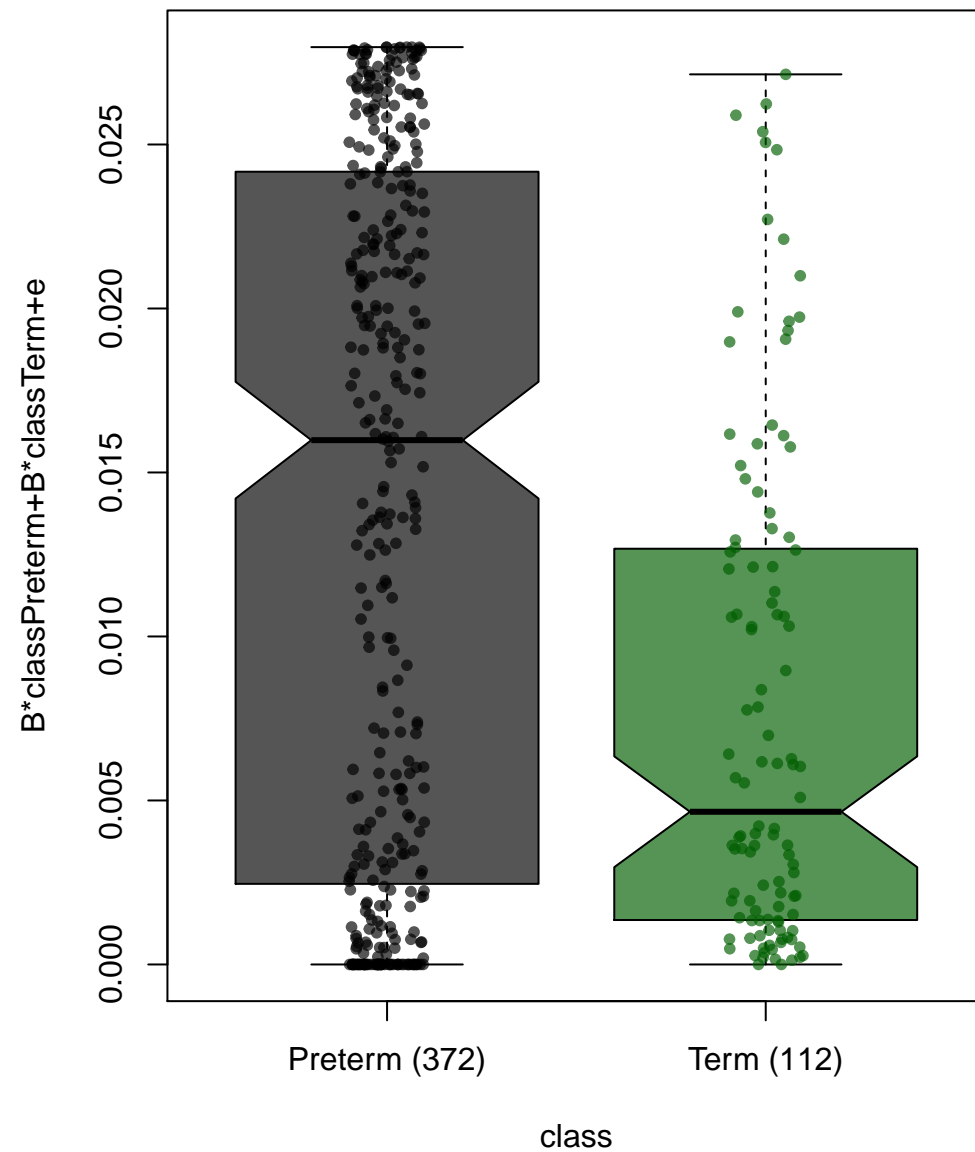
Partial Residual Plot



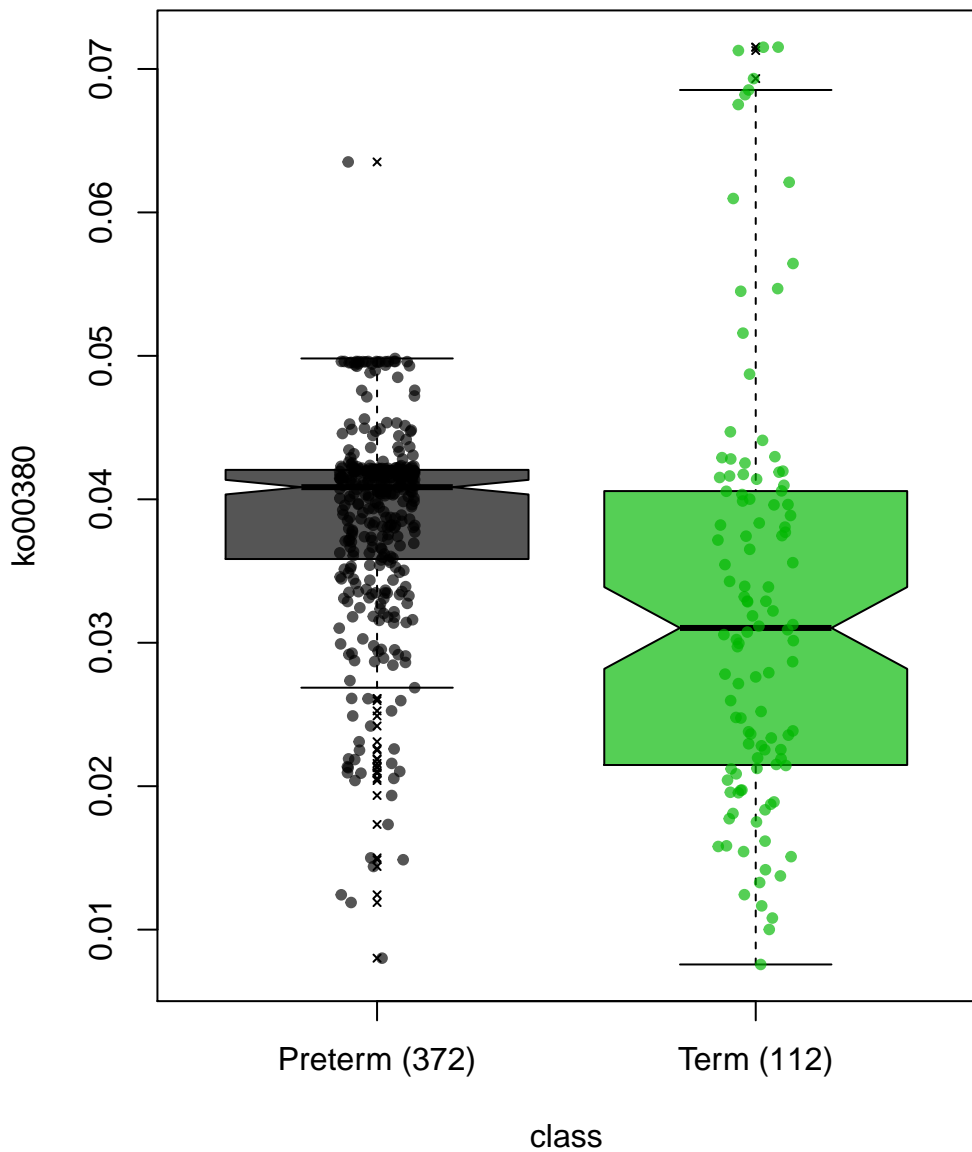
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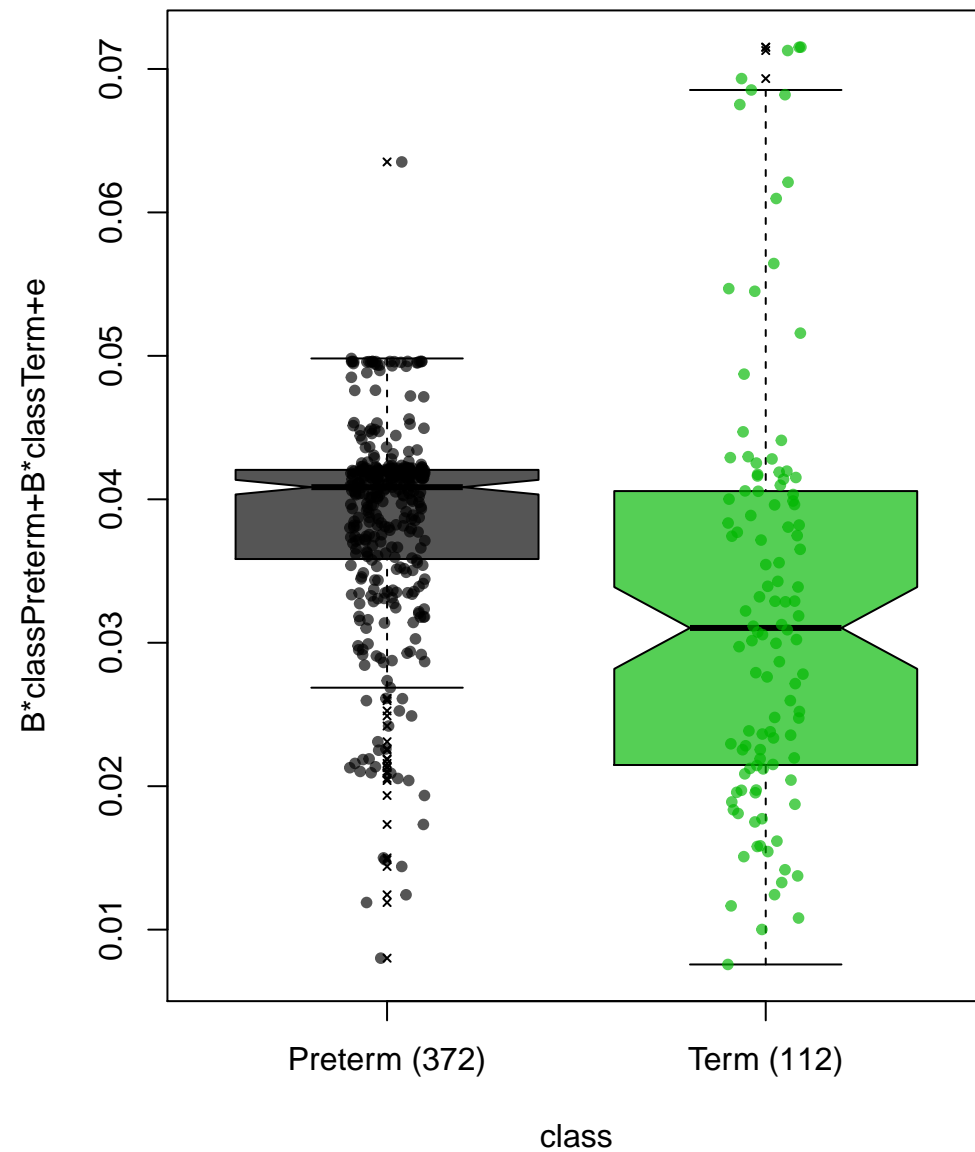
Partial Residual Plot



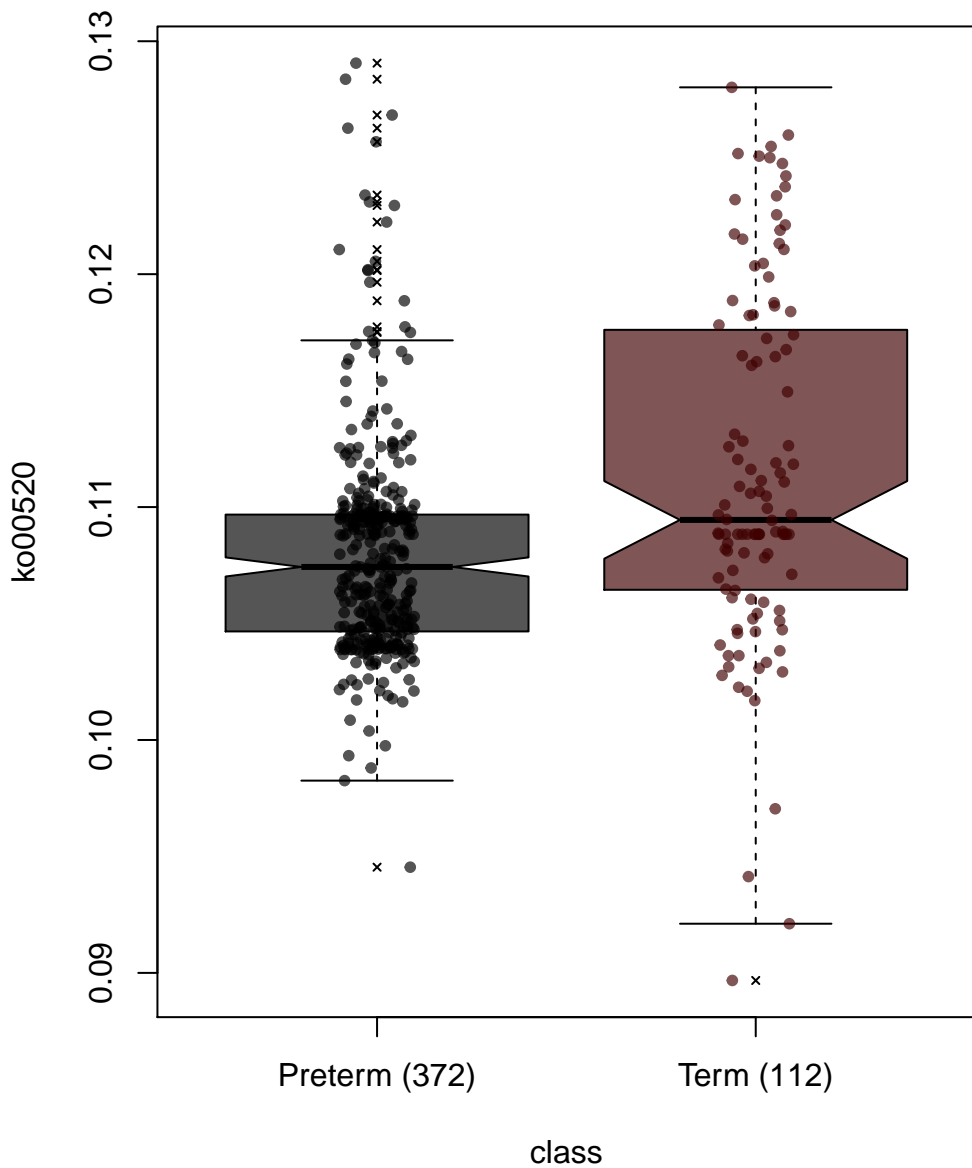
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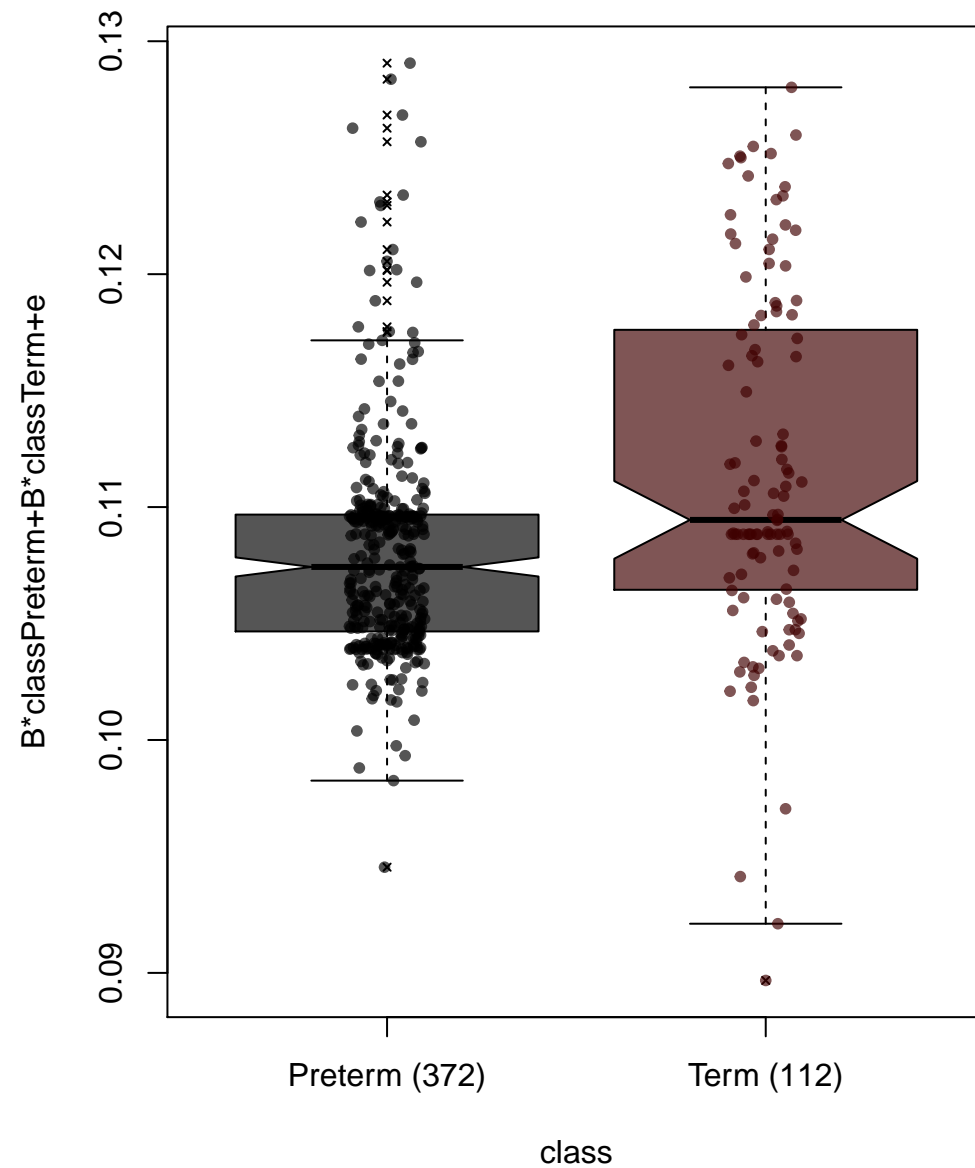
Partial Residual Plot



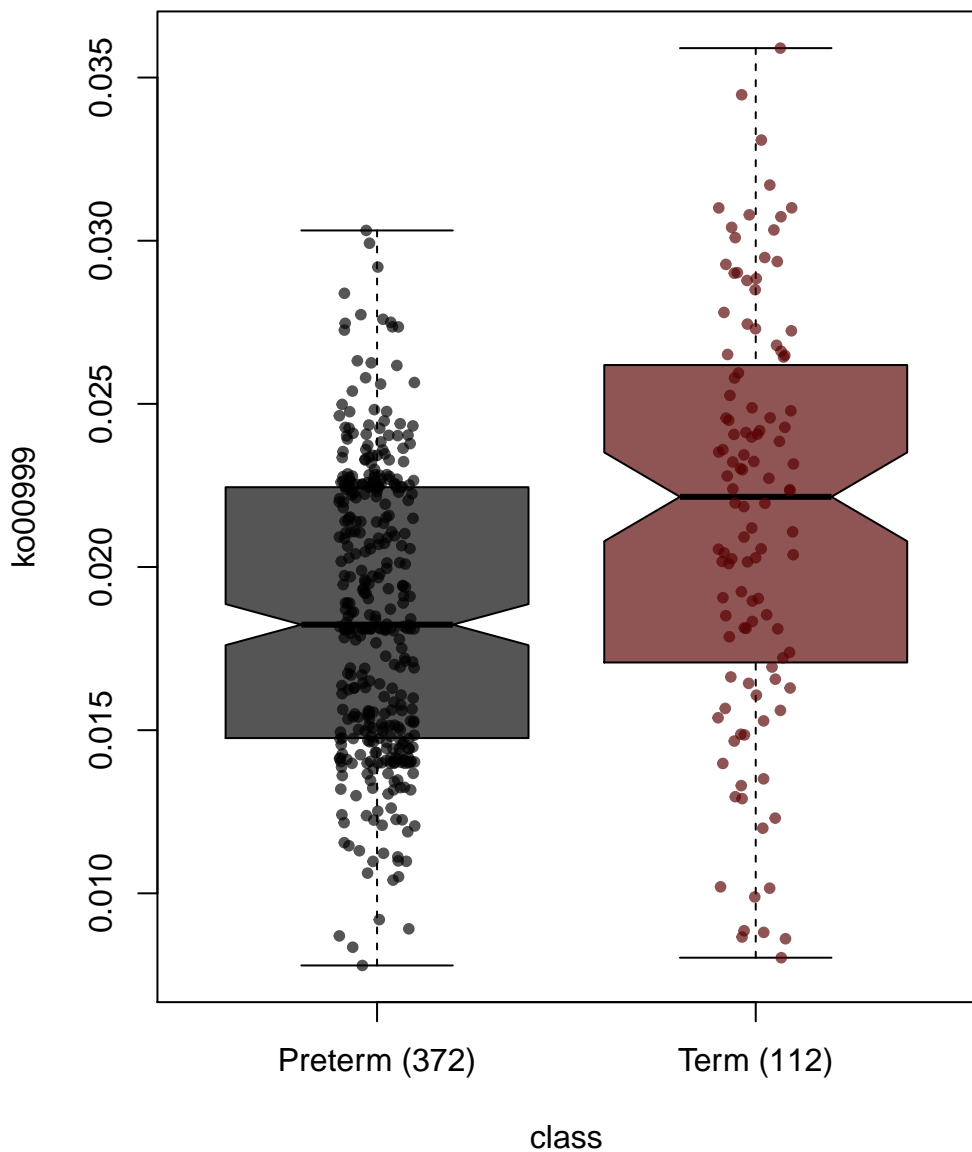
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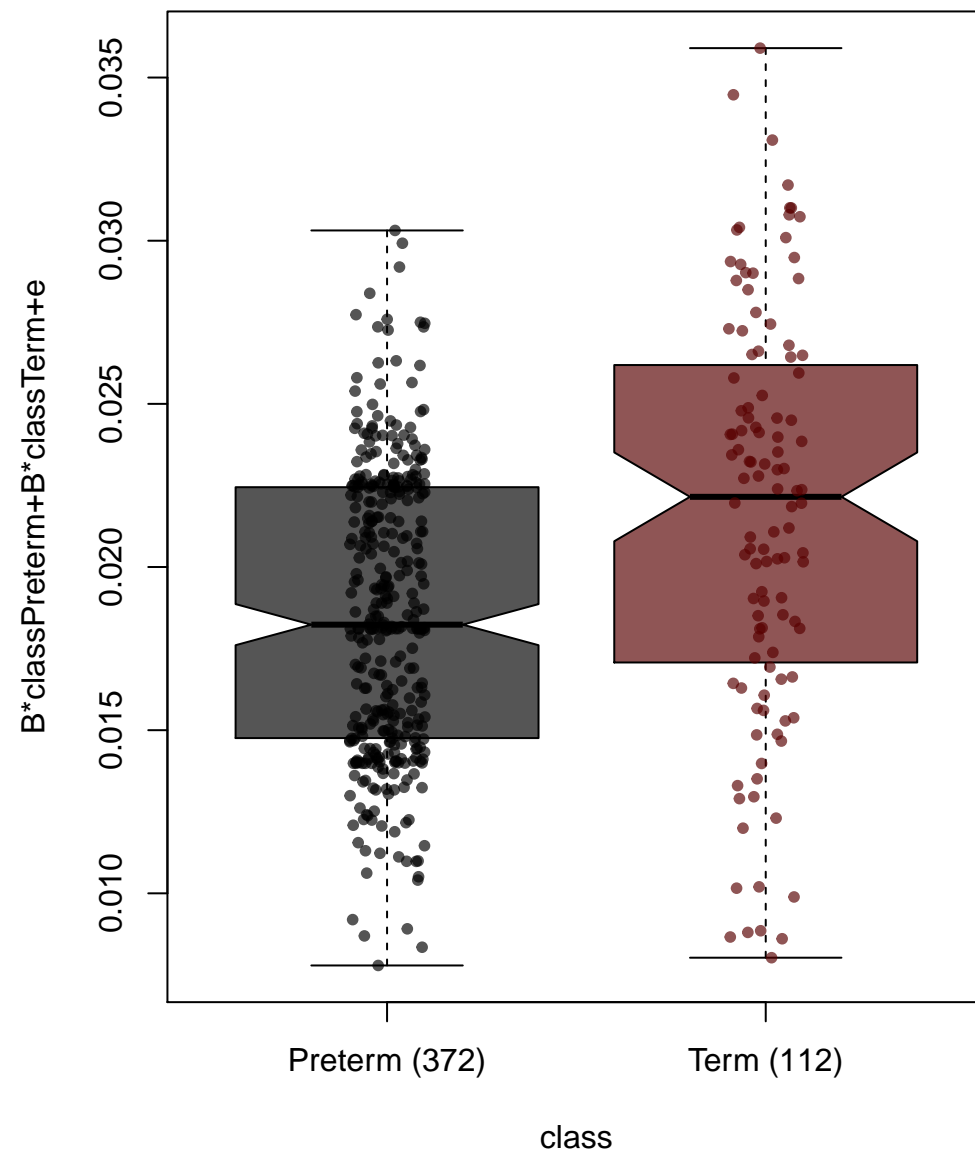
Partial Residual Plot



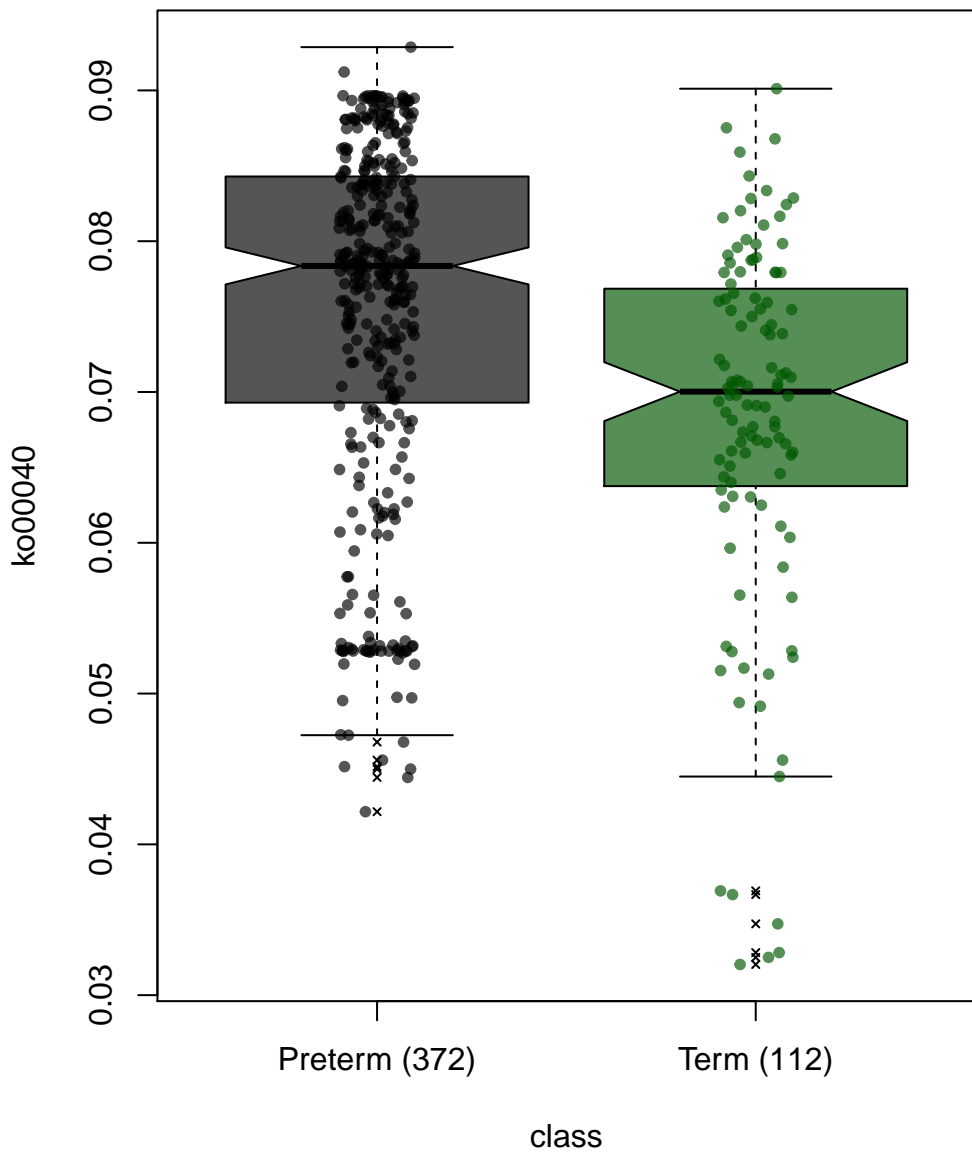
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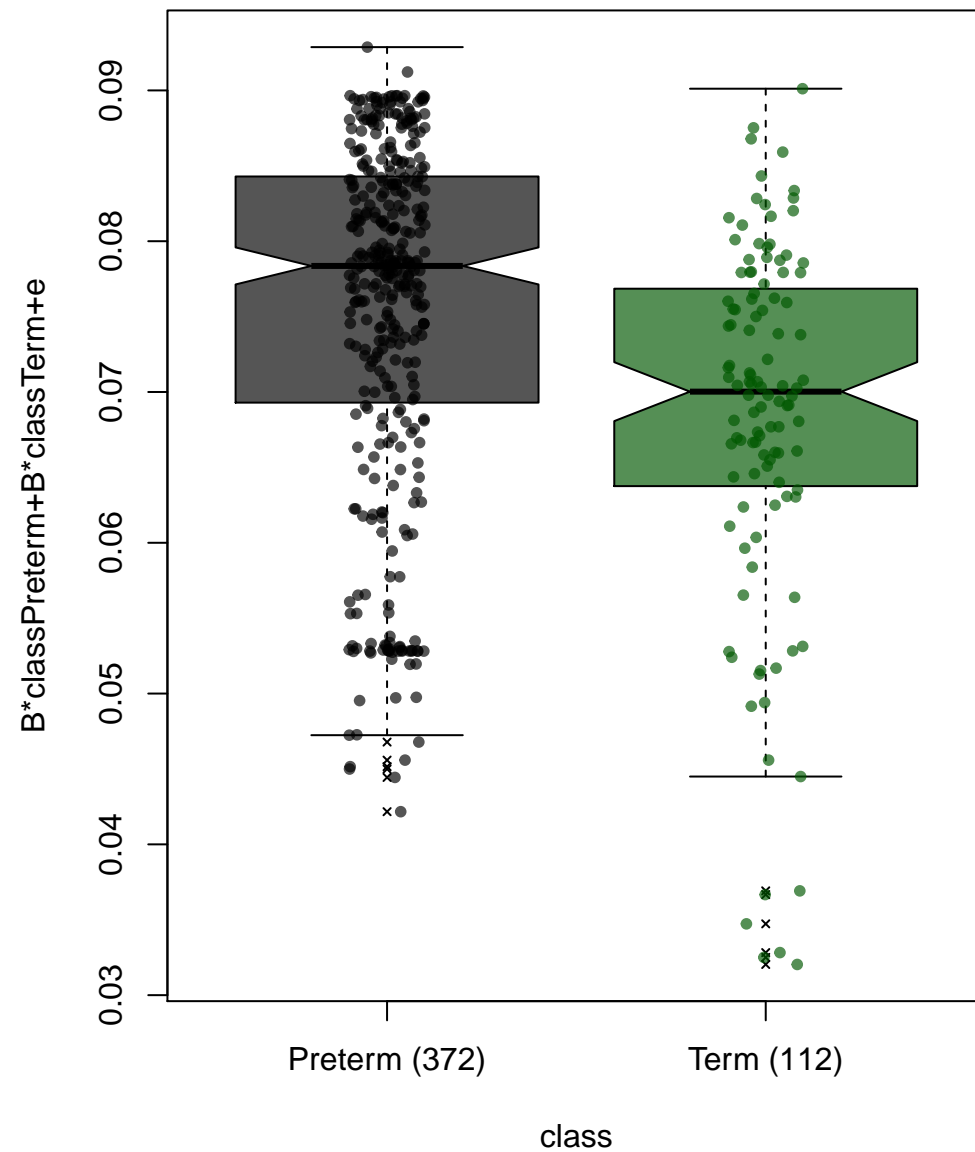
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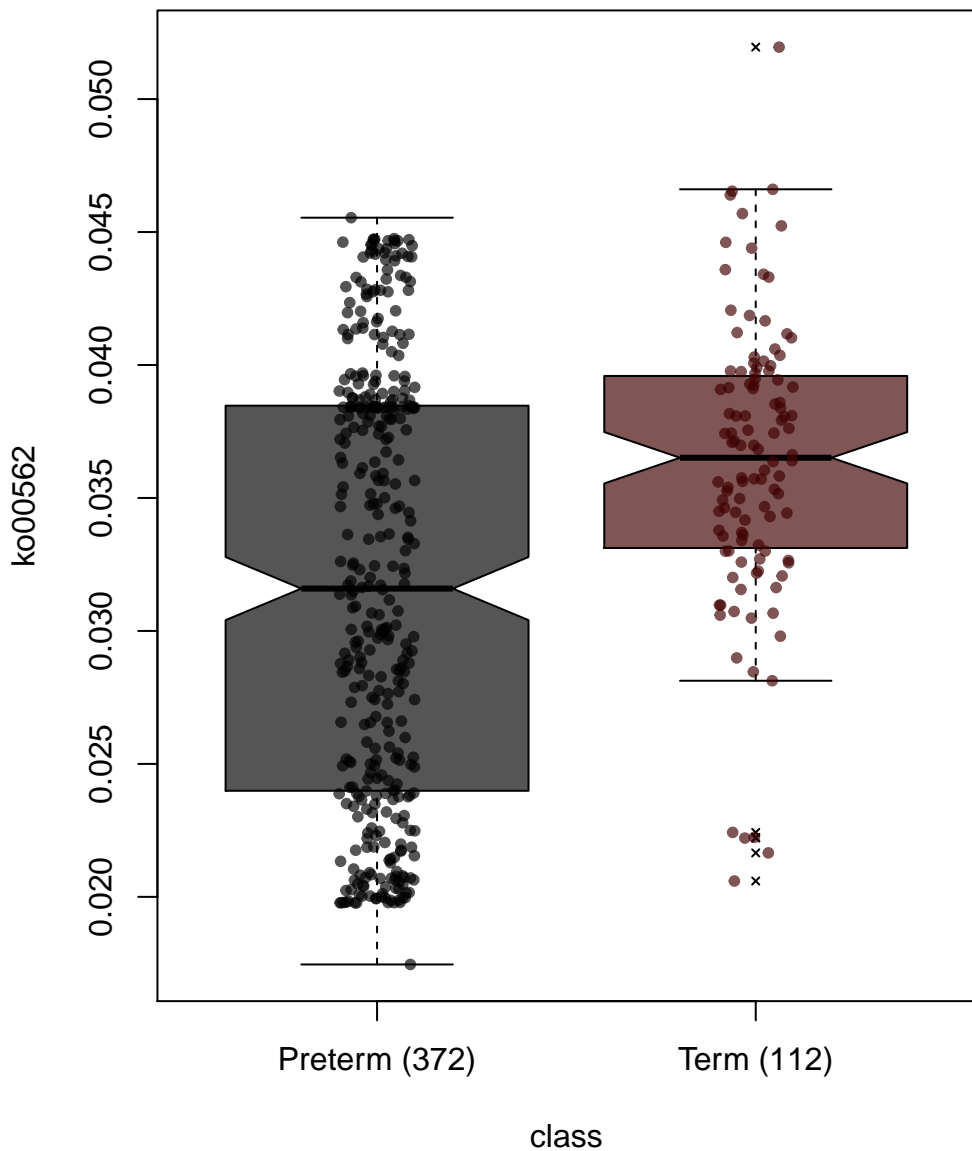
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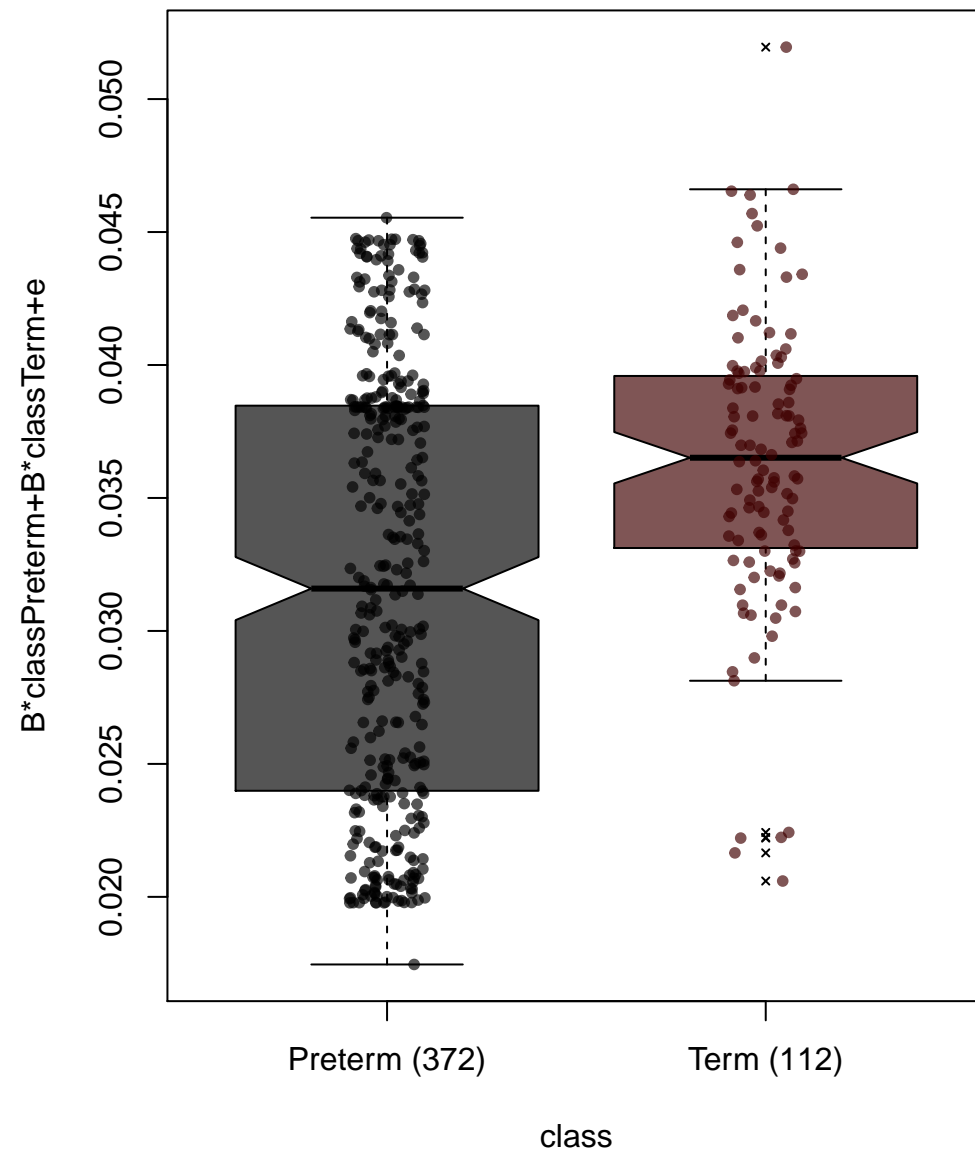
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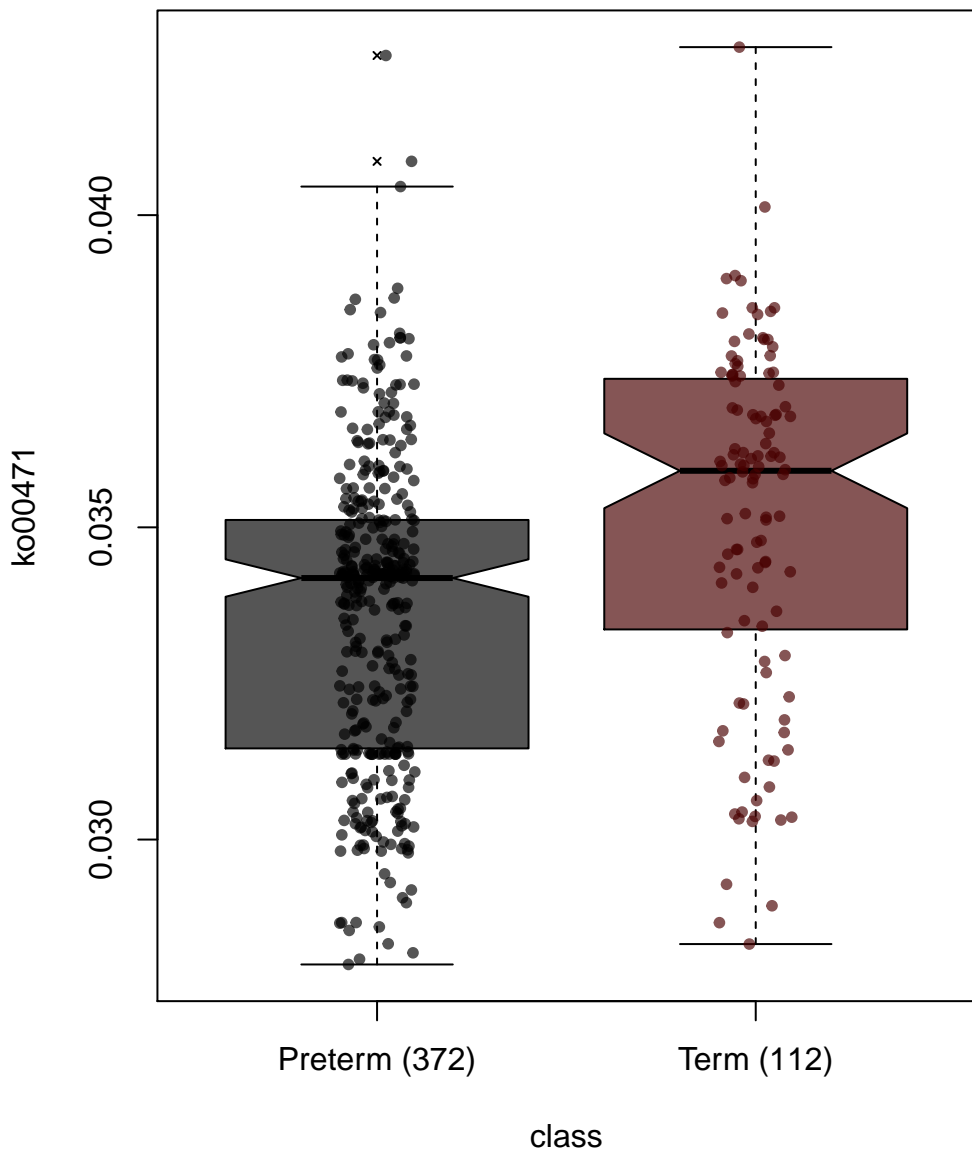
classTerm (0.00455 sd 0.000812, p=3.45e-08, q=8.08e-08)



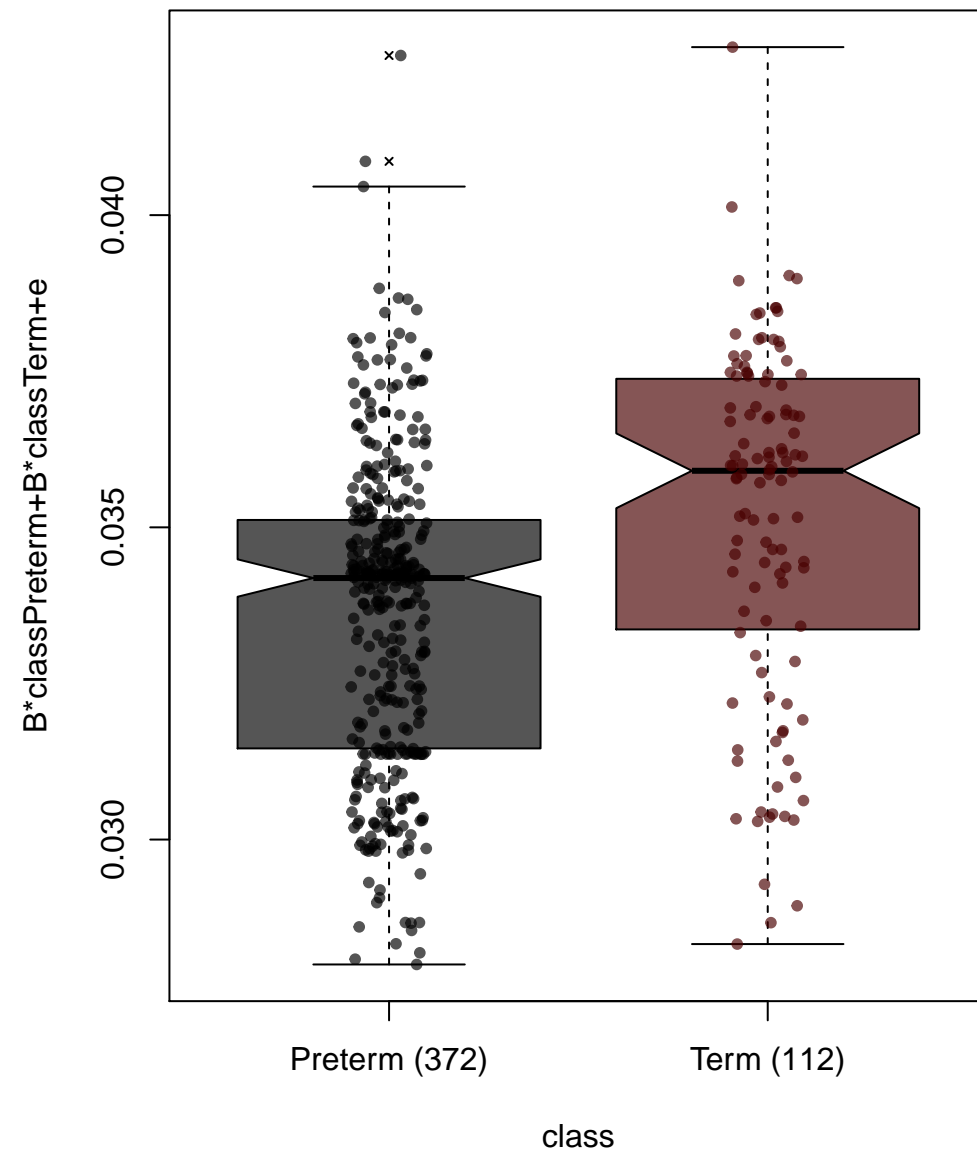
Partial Residual Plot



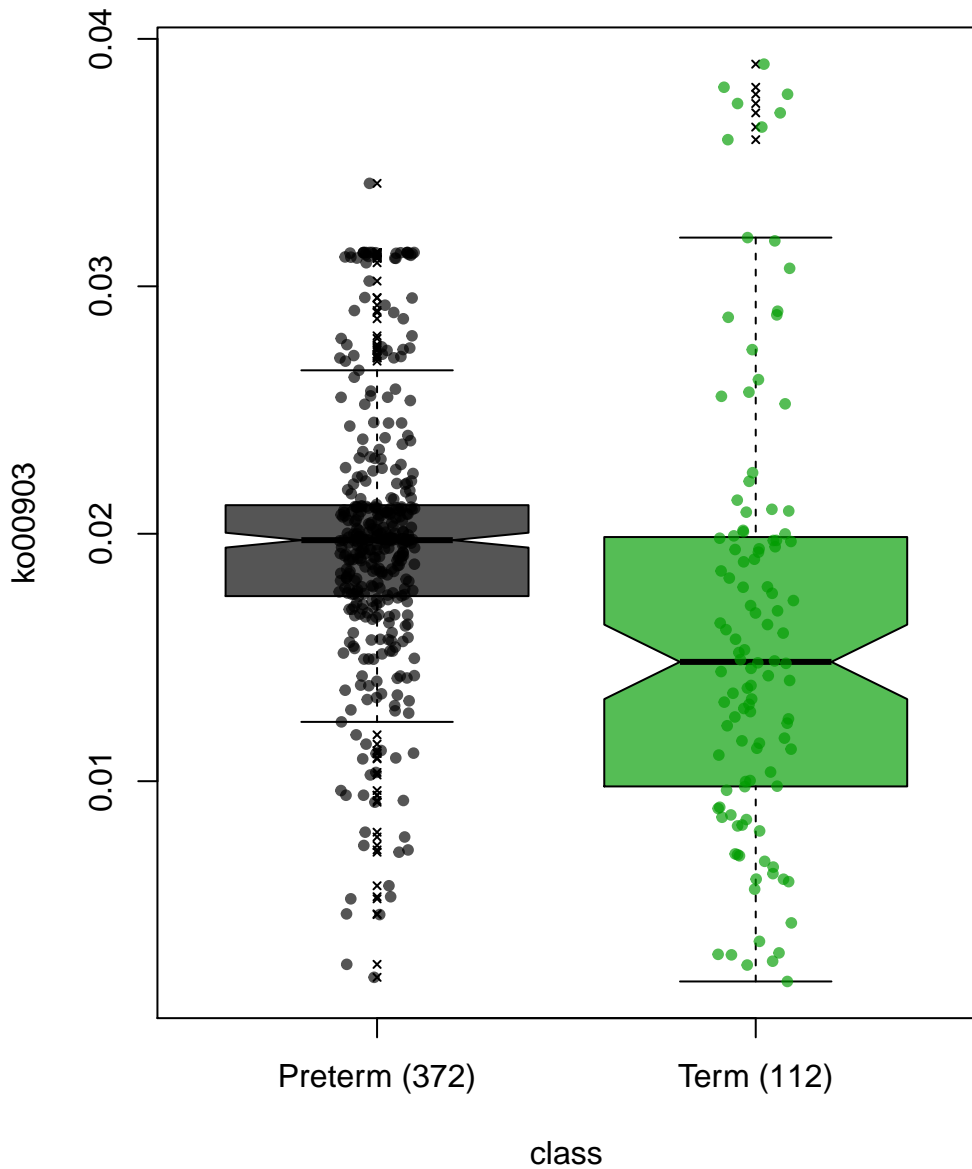
classTerm (0.0015 sd 0.000275, p=7.47e-08, q=1.74e-07)



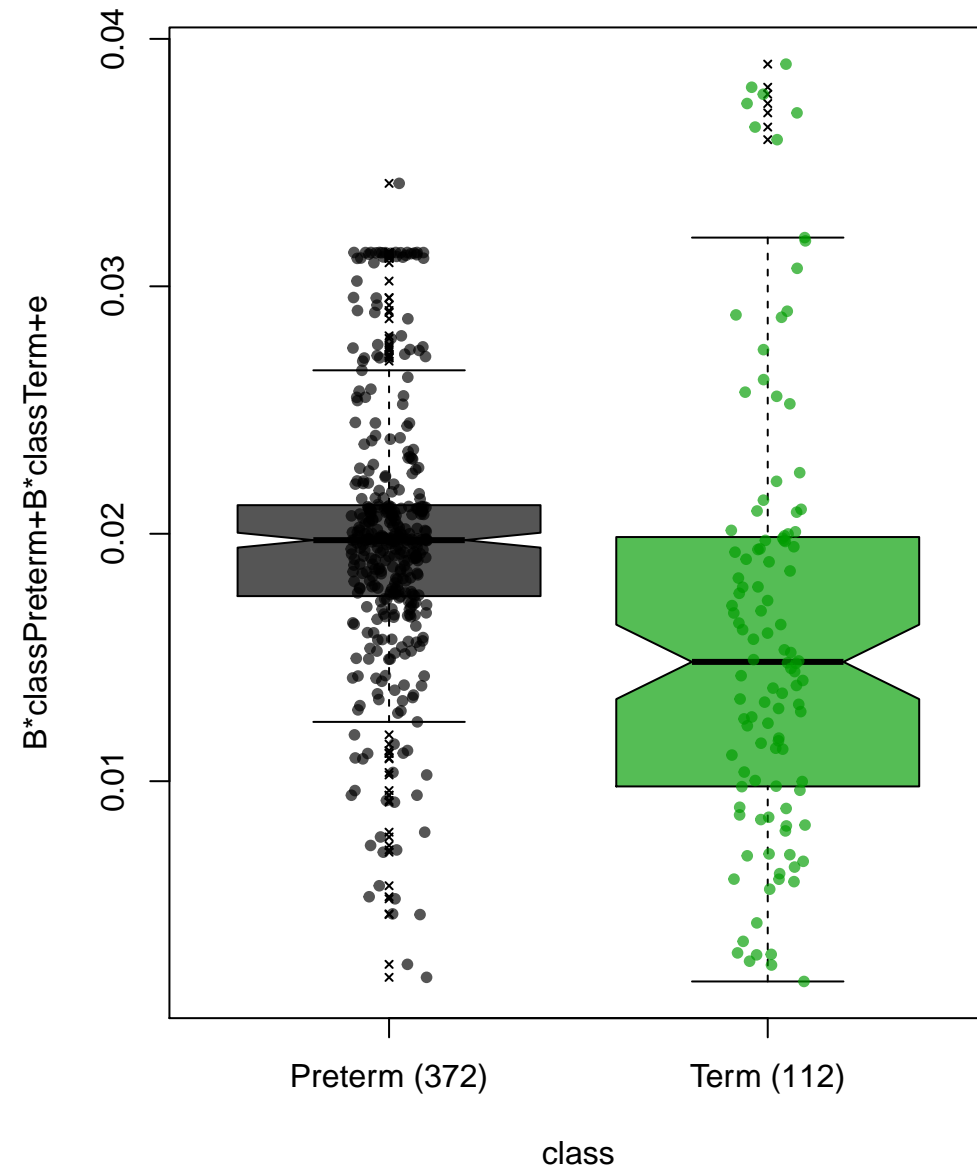
Partial Residual Plot



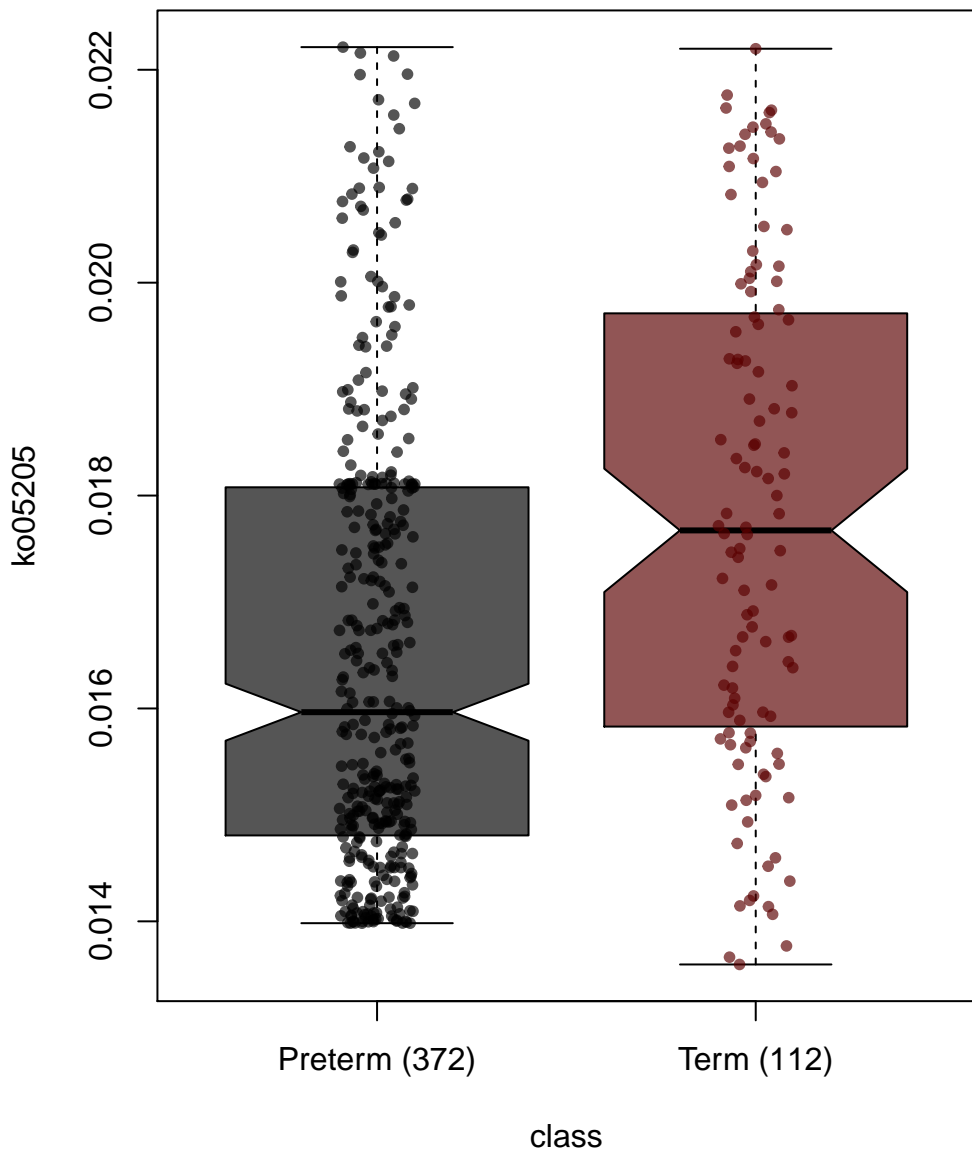
classTerm (-0.0037 sd 0.000683, p=9.57e-08, q=2.21e-07)



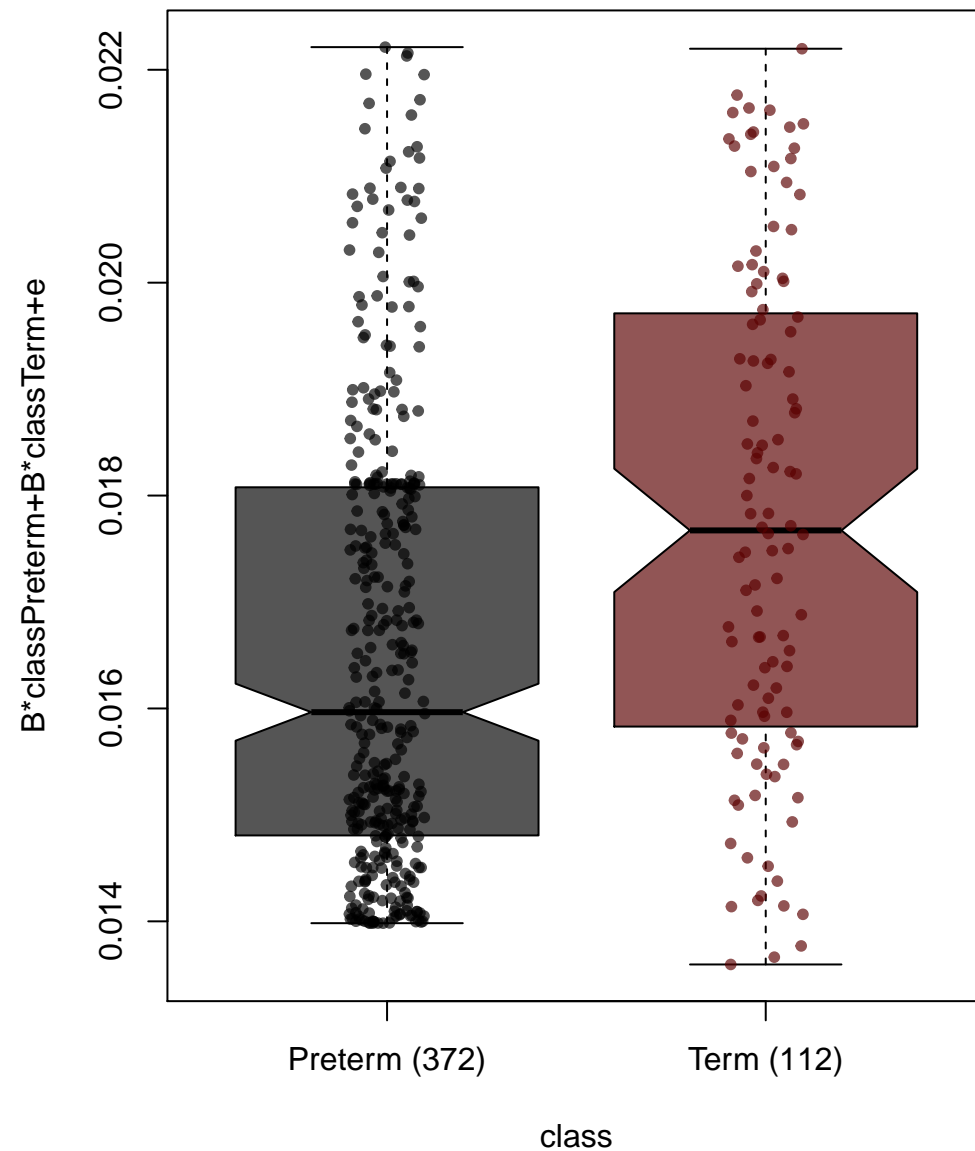
Partial Residual Plot



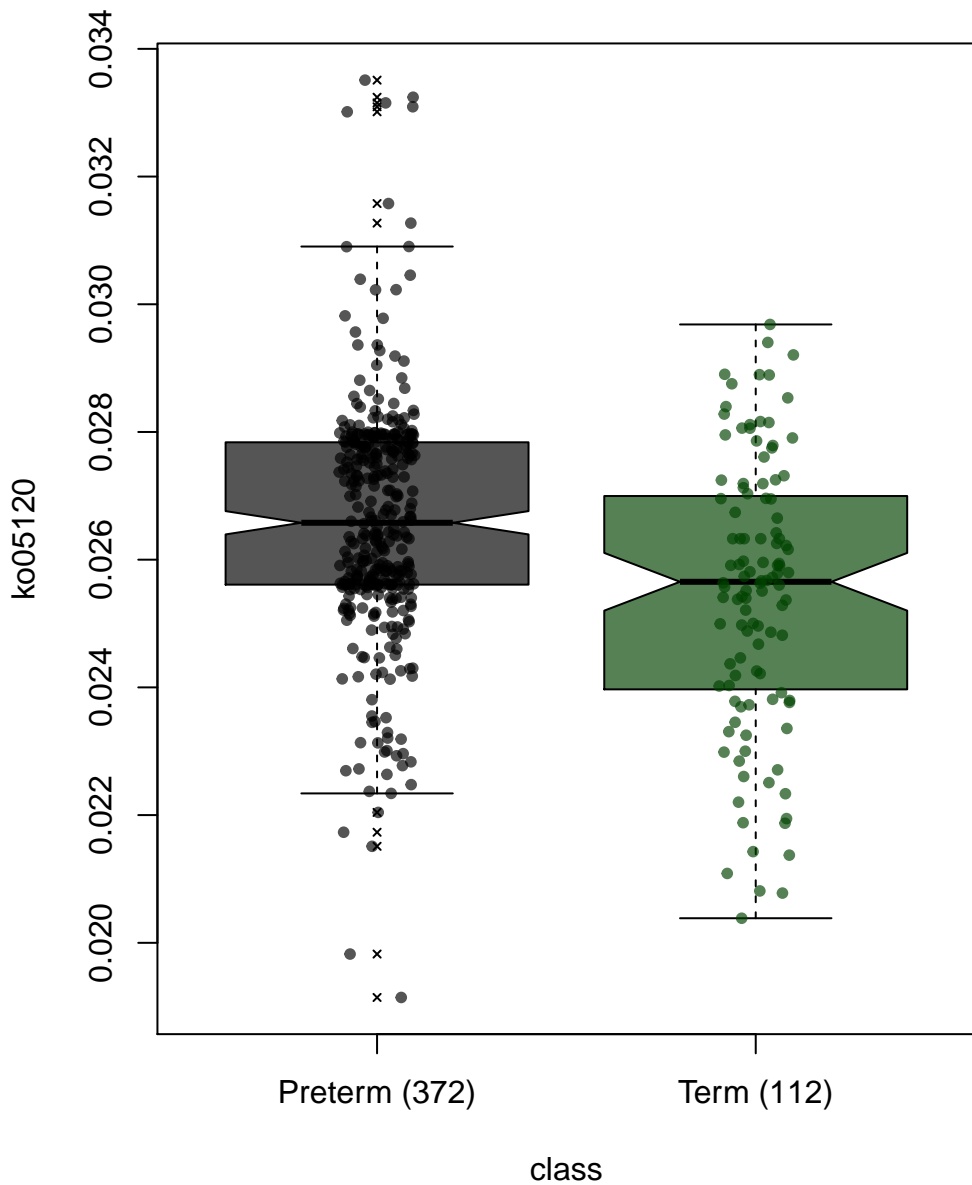
classTerm (0.00126 sd 0.000234, p=9.86e-08, q=2.25e-07)



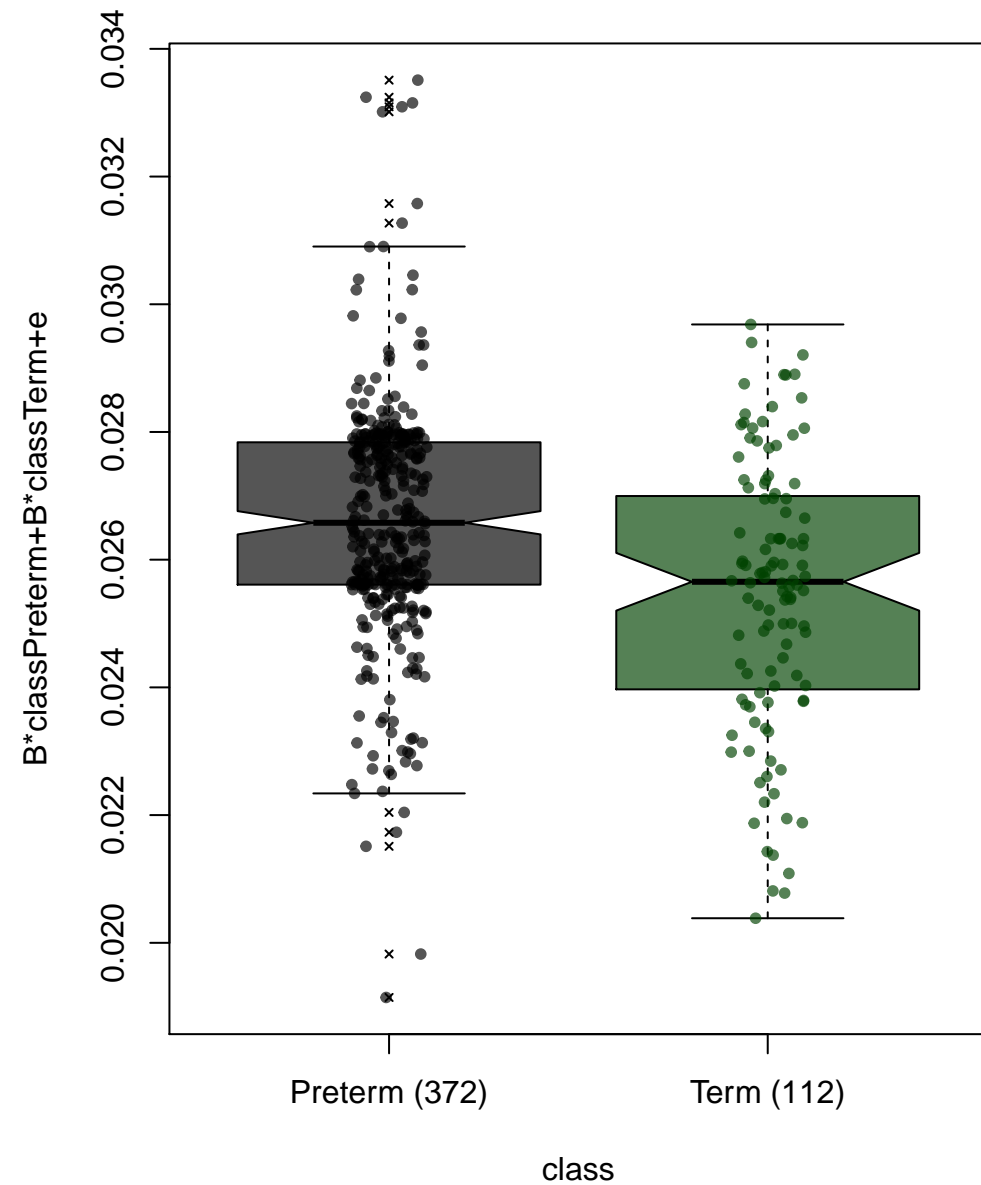
Partial Residual Plot



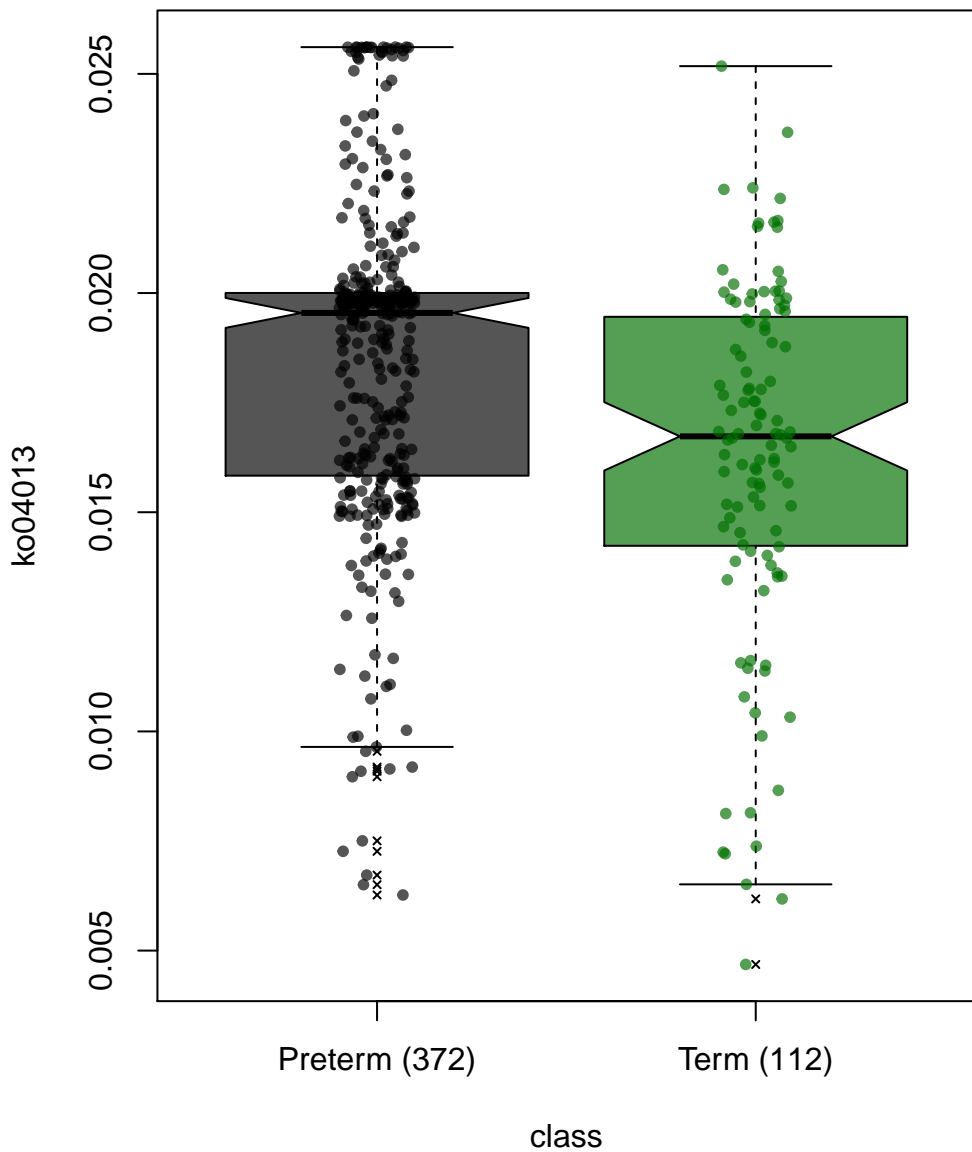
classTerm (-0.00113 sd 0.00021, p=1.19e-07, q=2.69e-07)



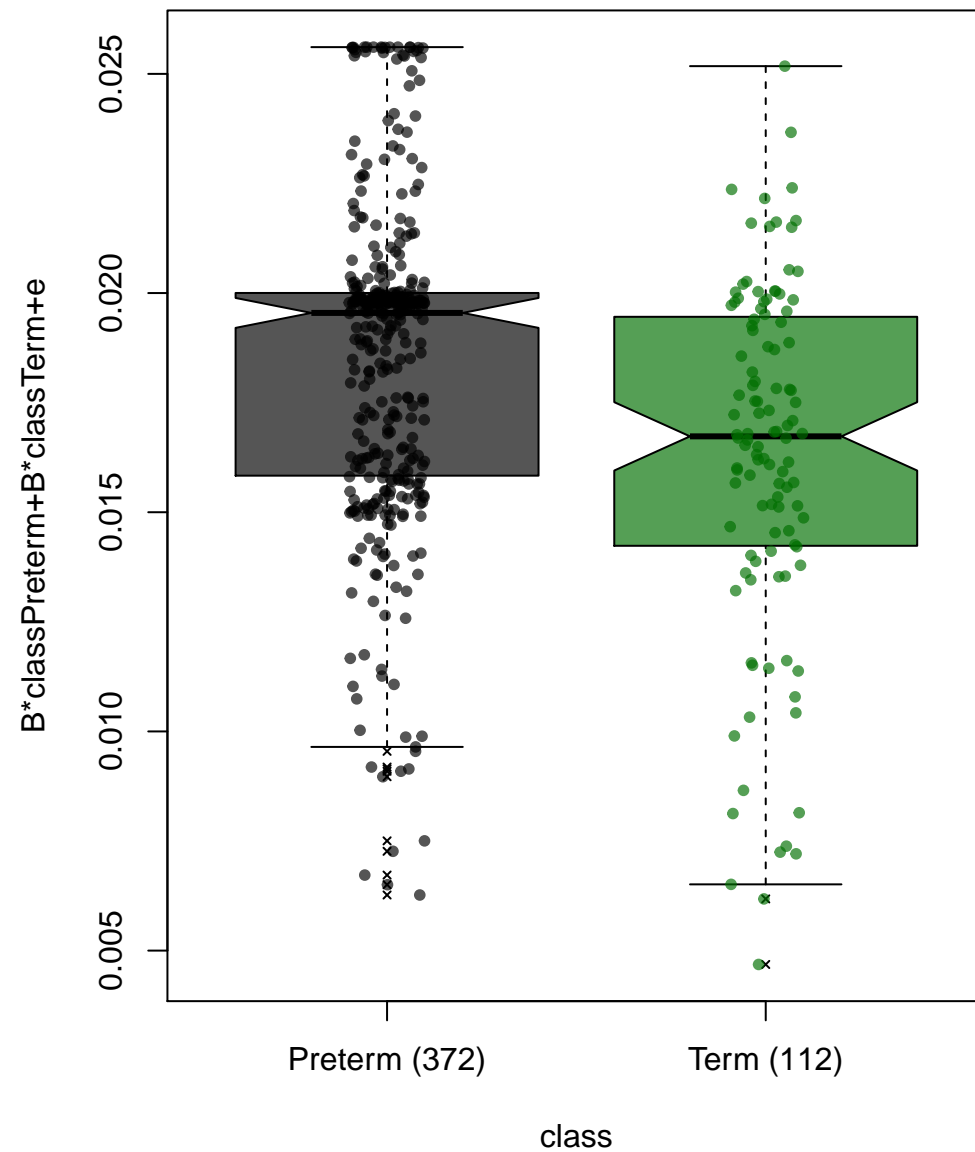
Partial Residual Plot



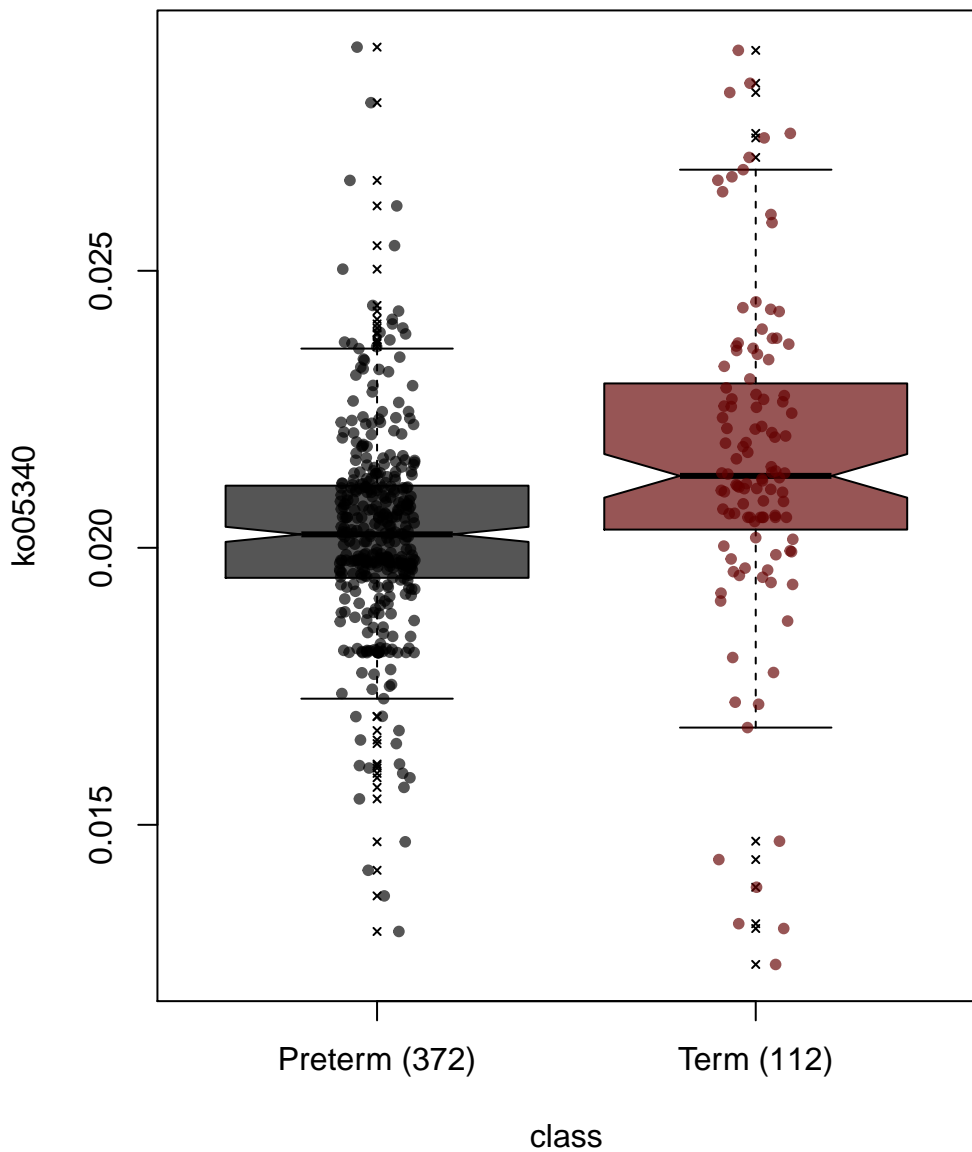
classTerm (-0.0022 sd 0.000412, p=1.37e-07, q=3.08e-07)



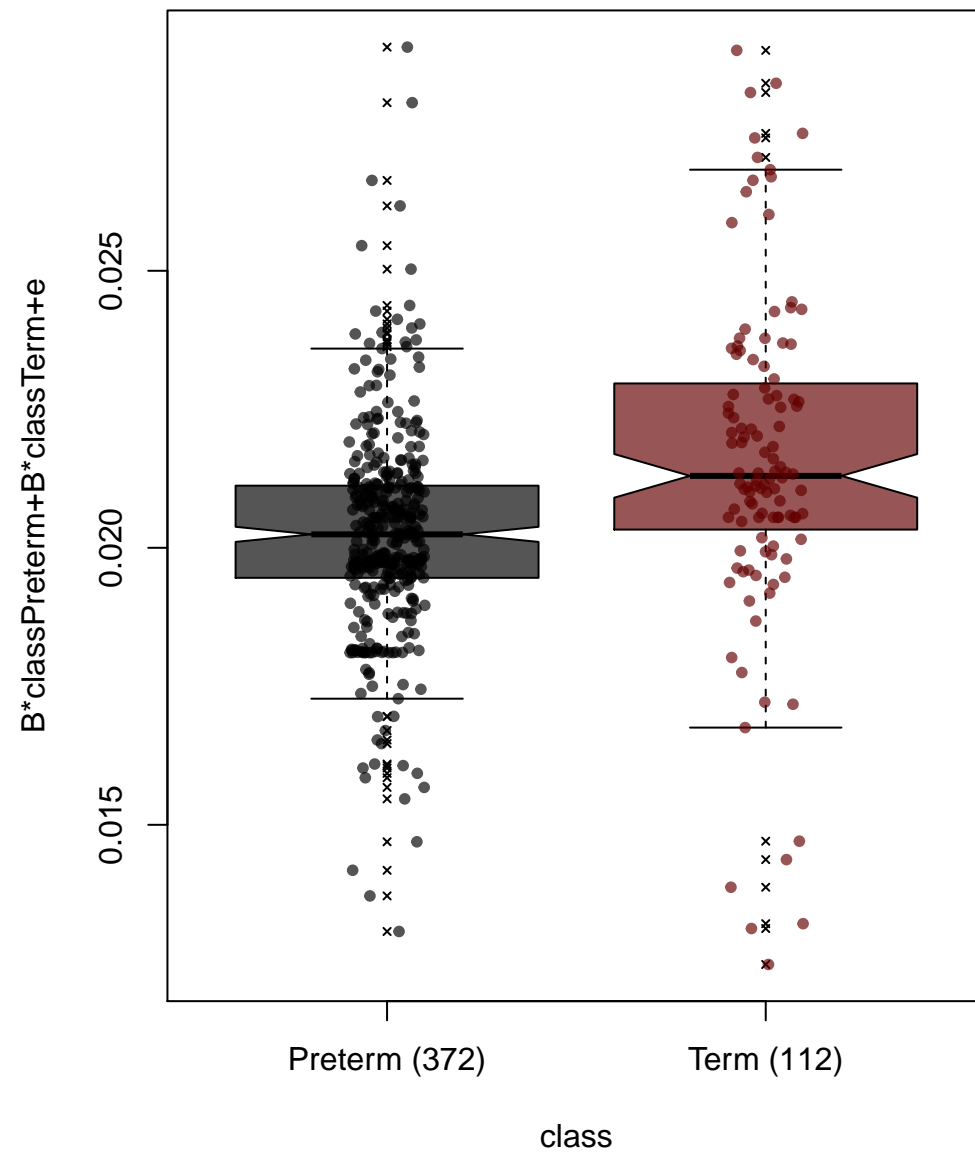
Partial Residual Plot



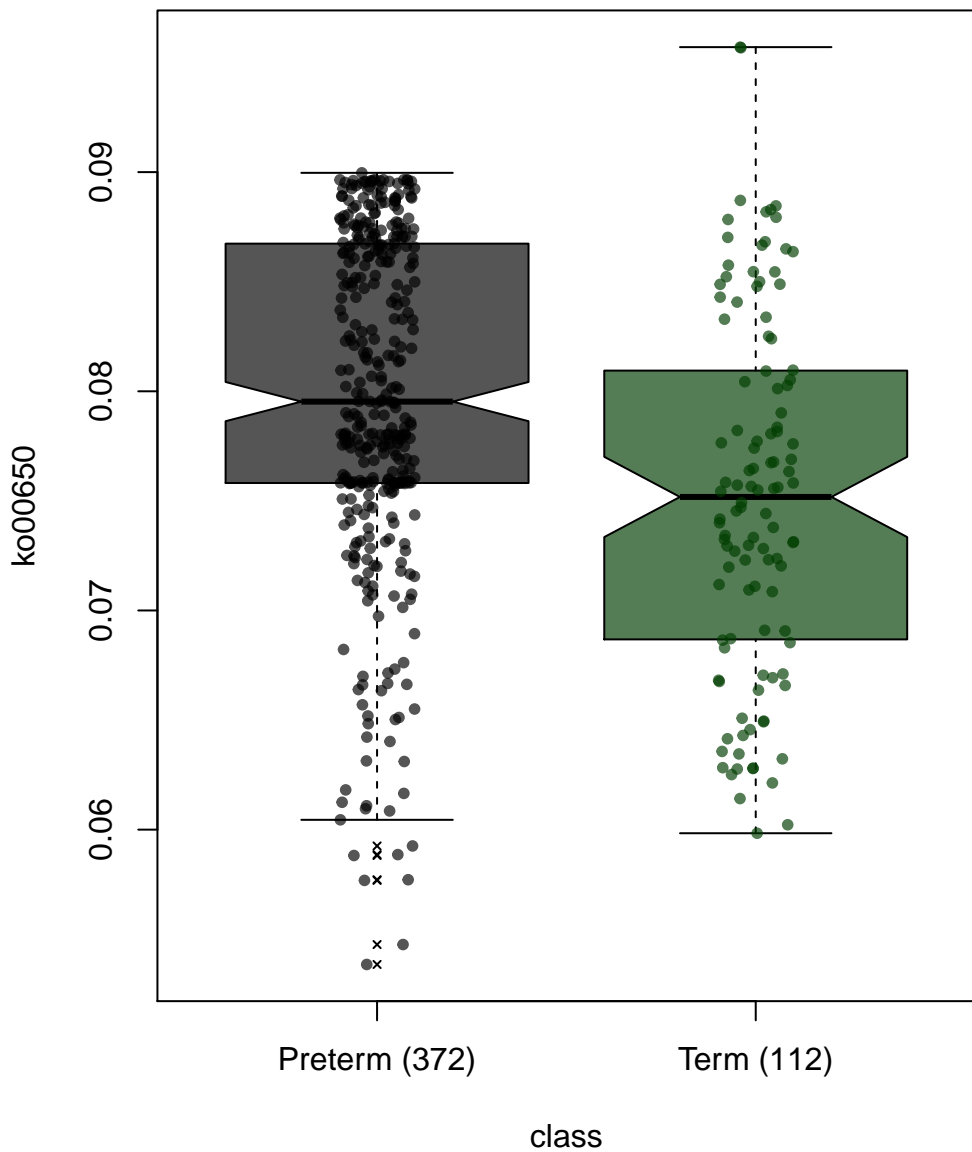
classTerm (0.00127 sd 0.000238, p=1.6e-07, q=3.58e-07)



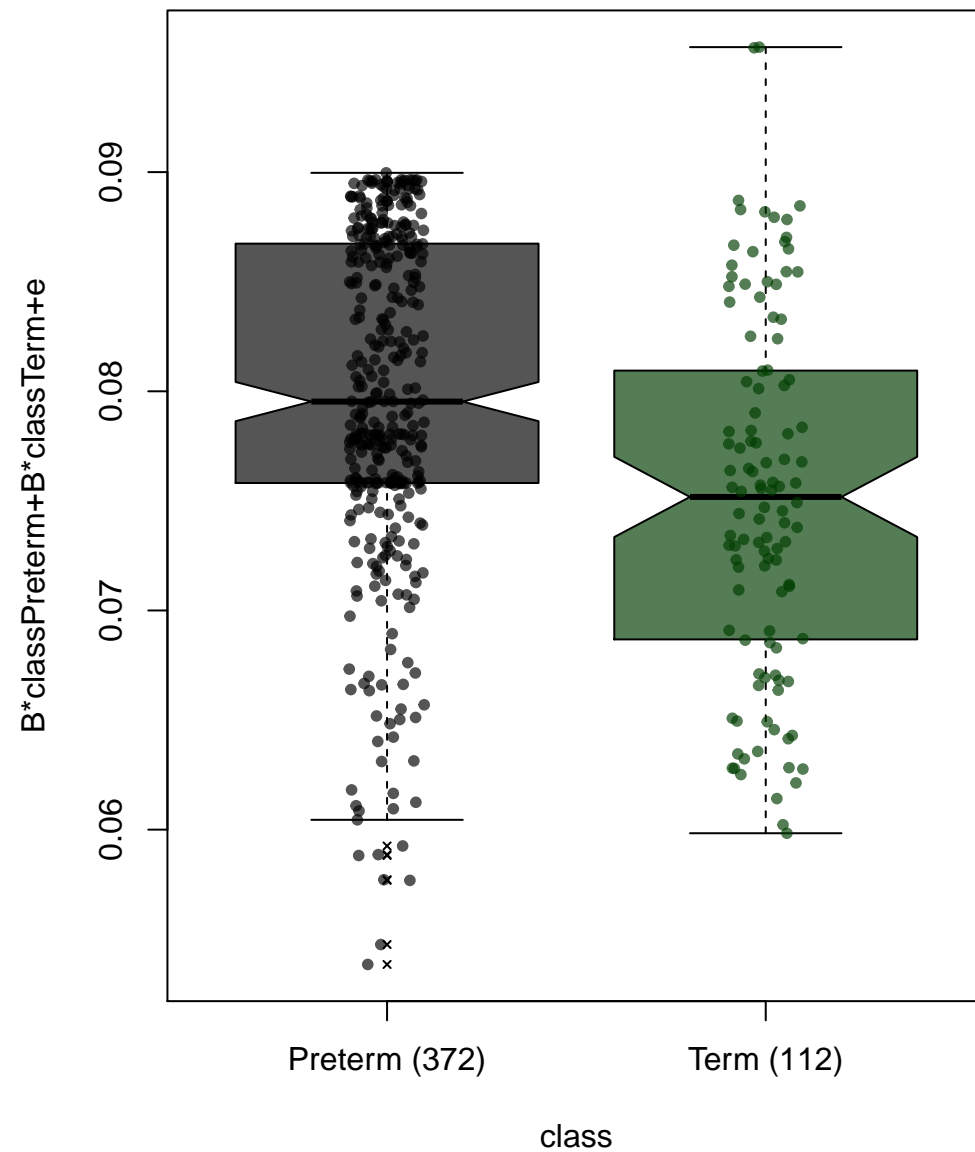
Partial Residual Plot



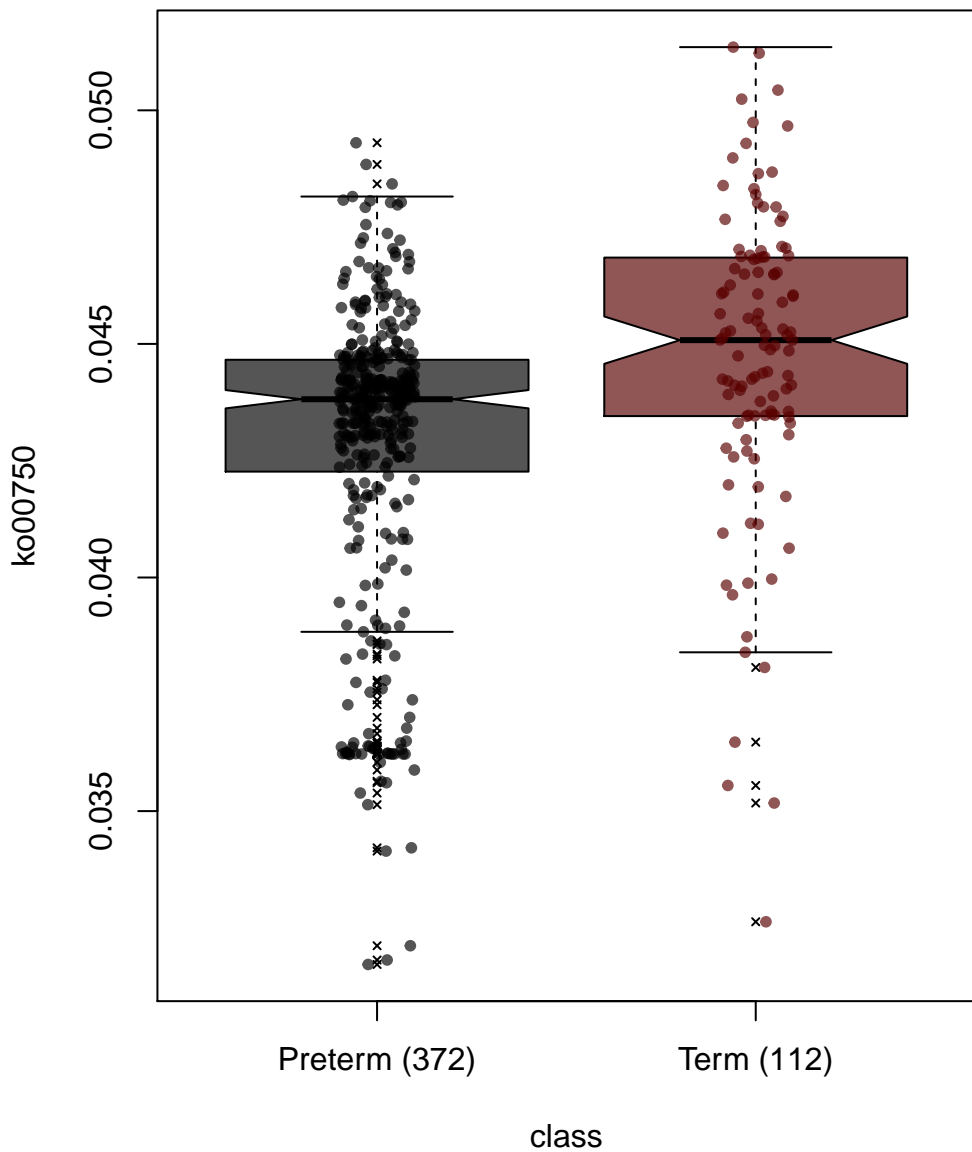
classTerm (−0.00449 sd 0.000847, p=1.75e−07, q=3.84e−07)



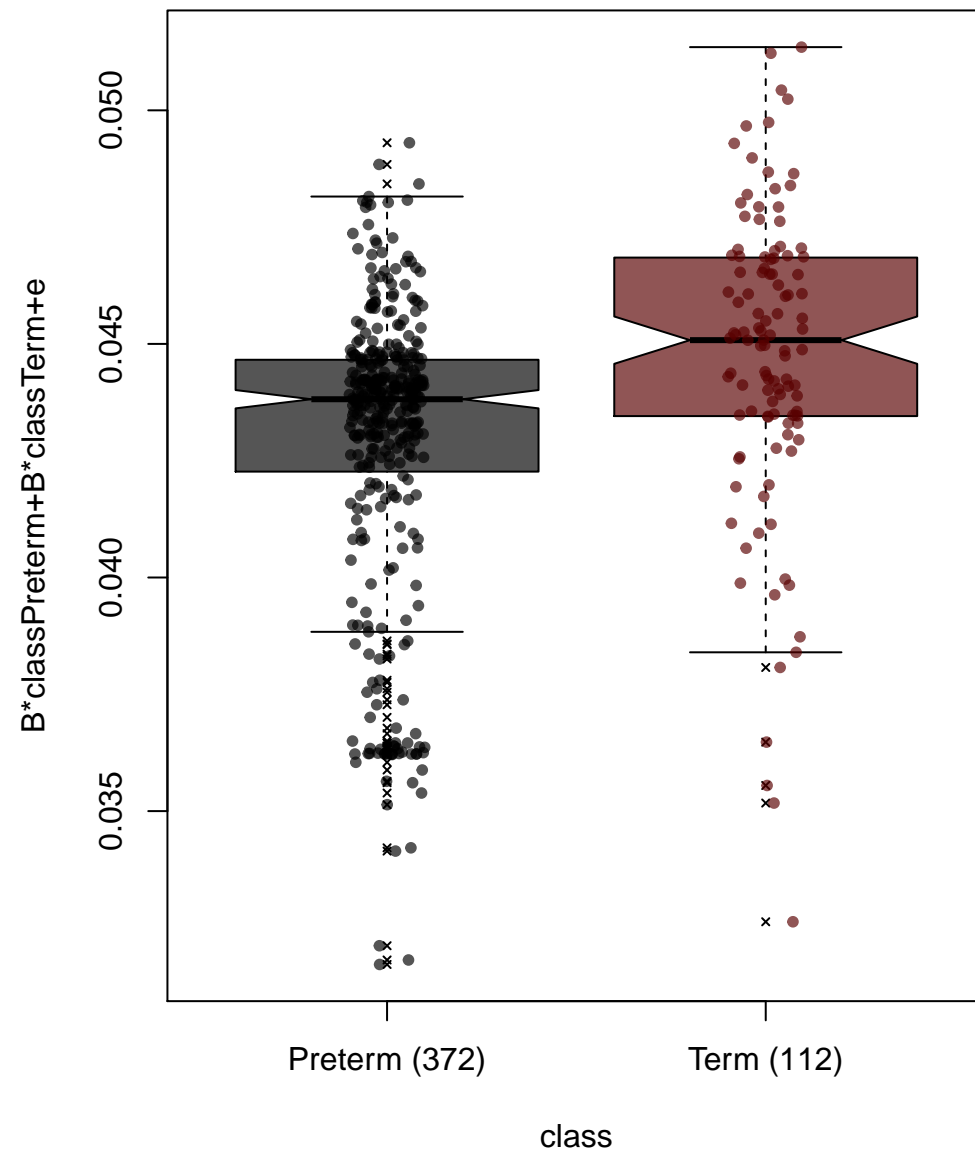
Partial Residual Plot



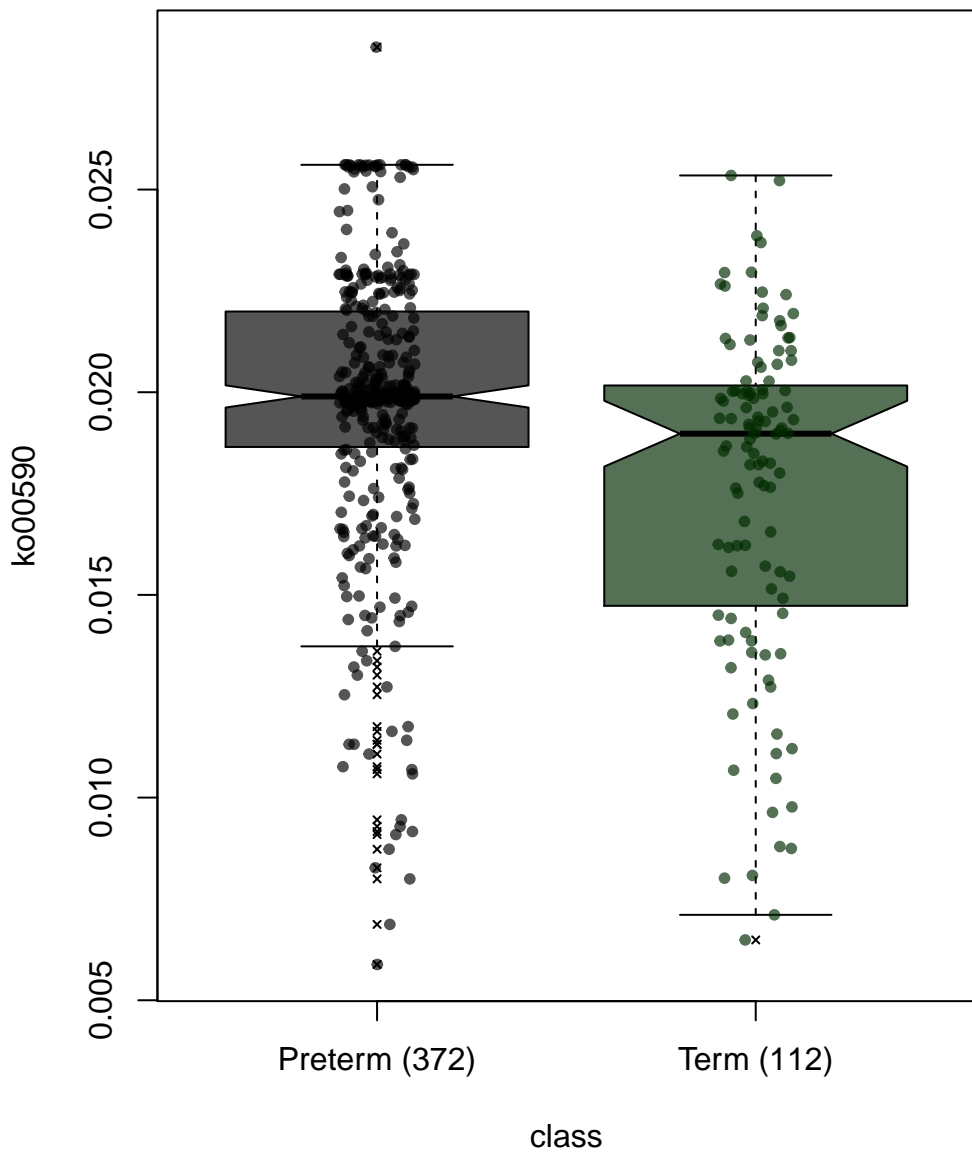
classTerm (0.00183 sd 0.000345, p=1.75e-07, q=3.84e-07)



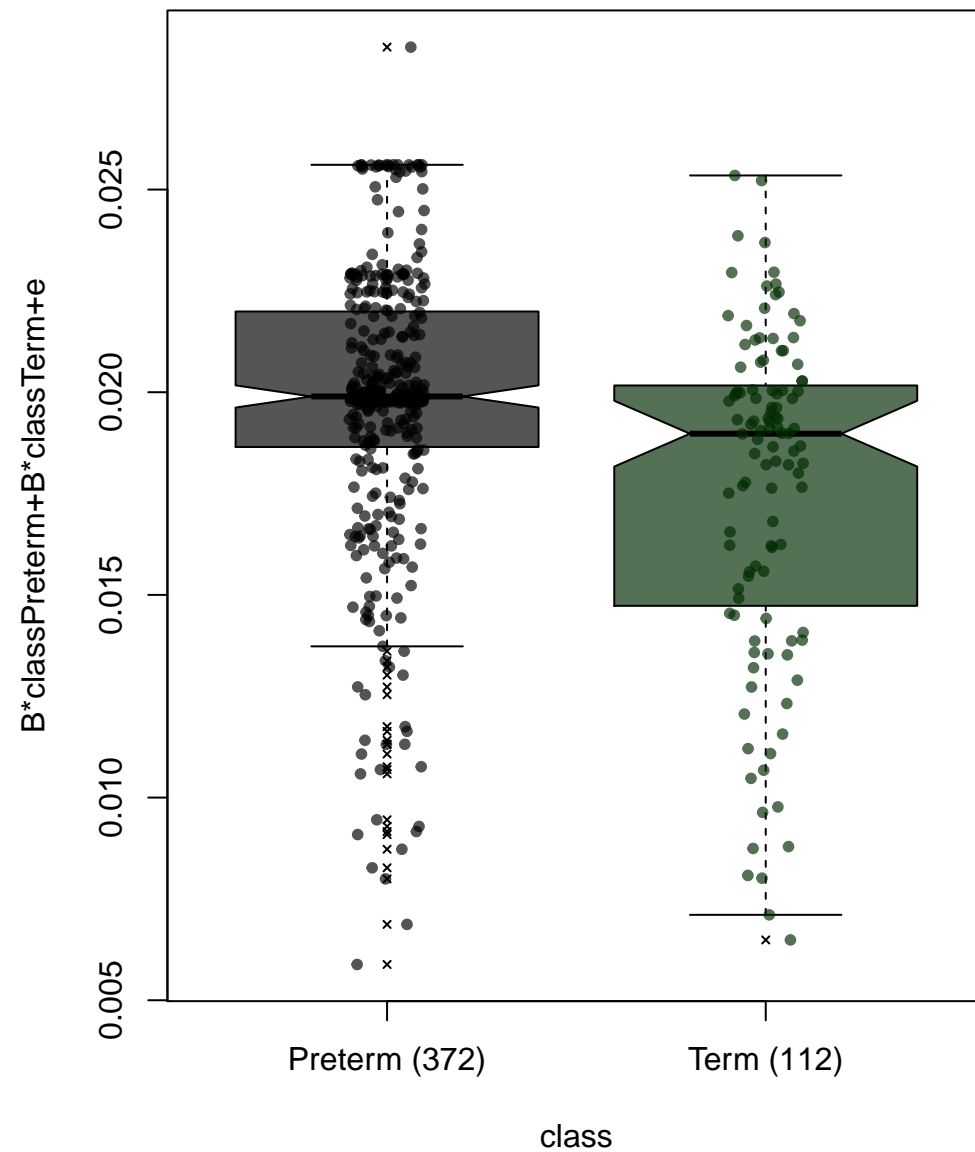
Partial Residual Plot



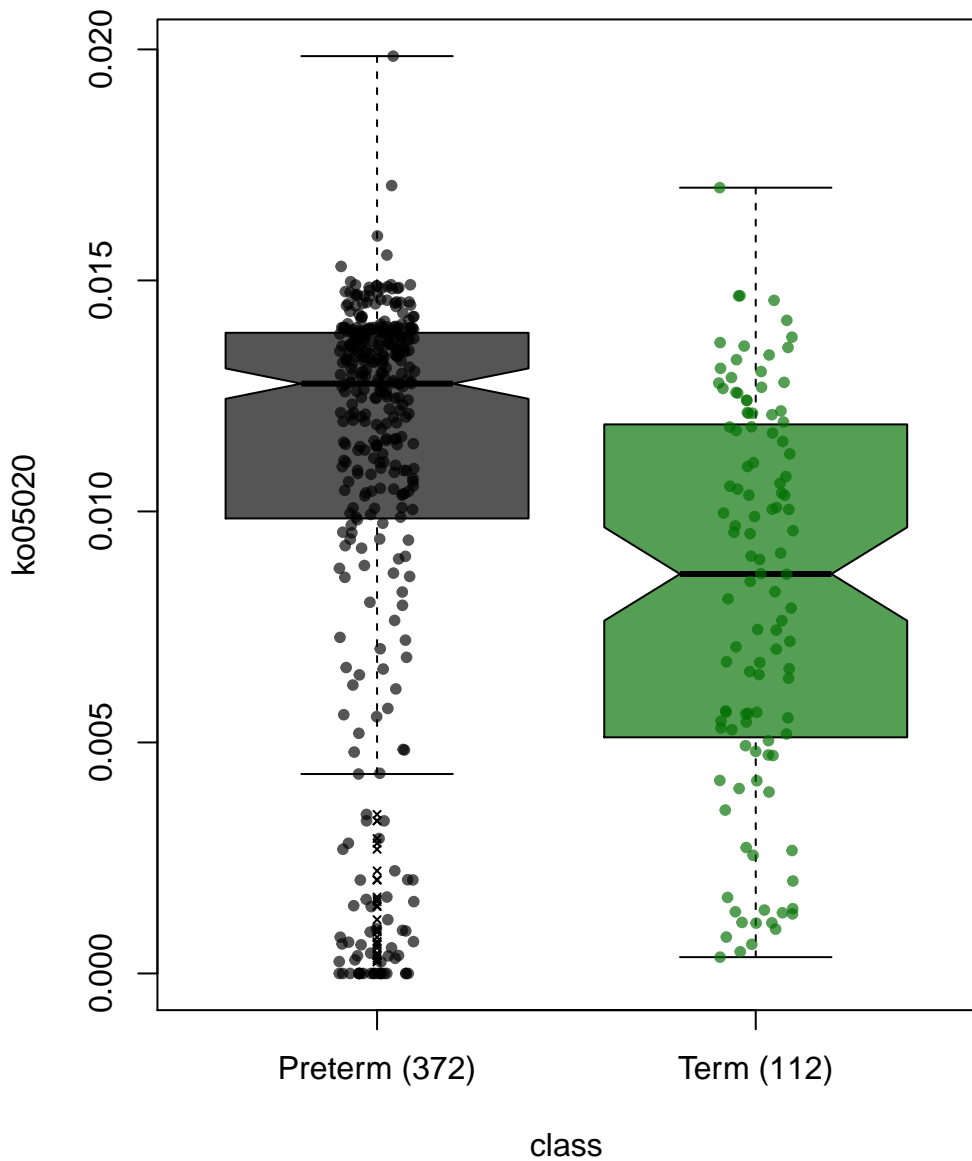
classTerm (-0.00211 sd 0.000398, p=1.79e-07, q=3.9e-07)



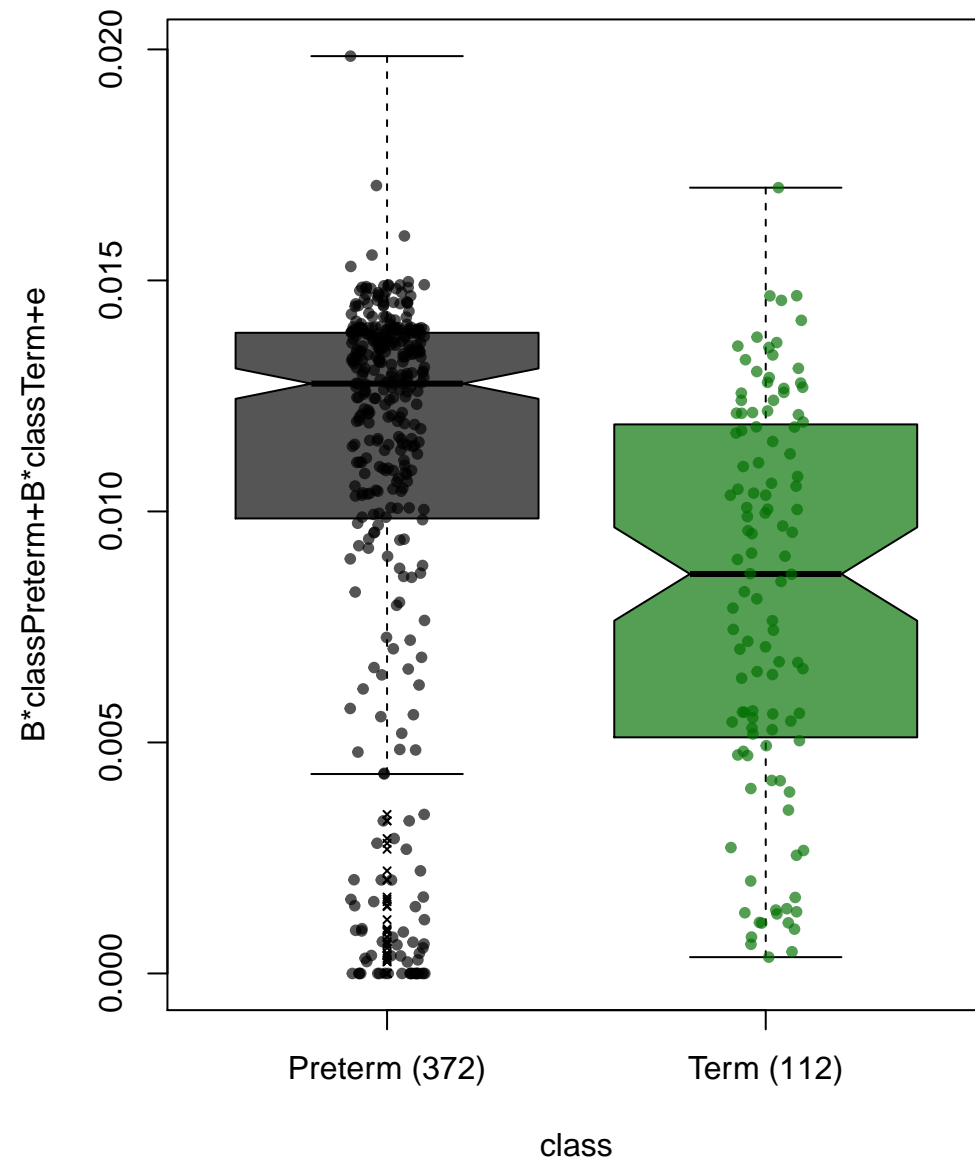
Partial Residual Plot



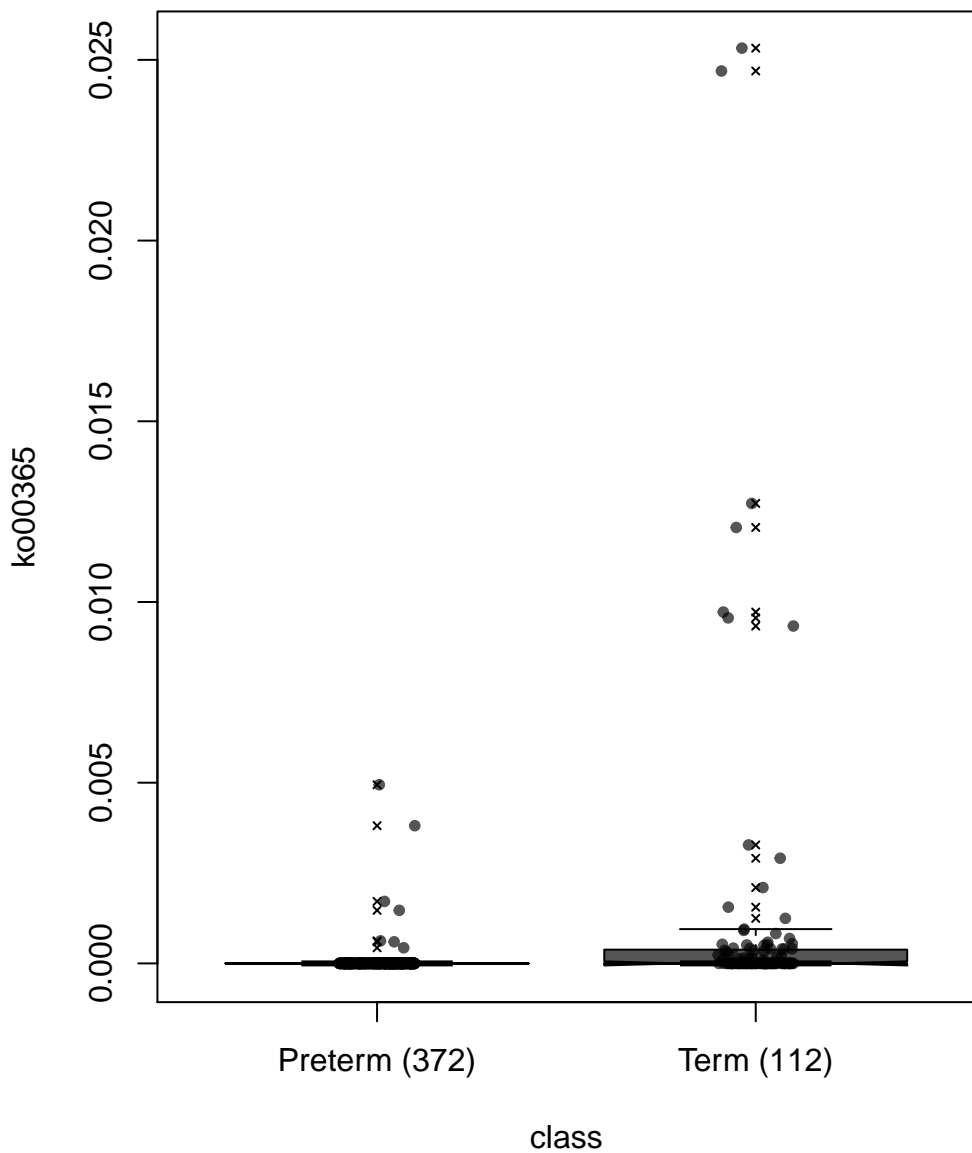
classTerm (-0.00259 sd 0.000489, p=1.81e-07, q=3.9e-07)



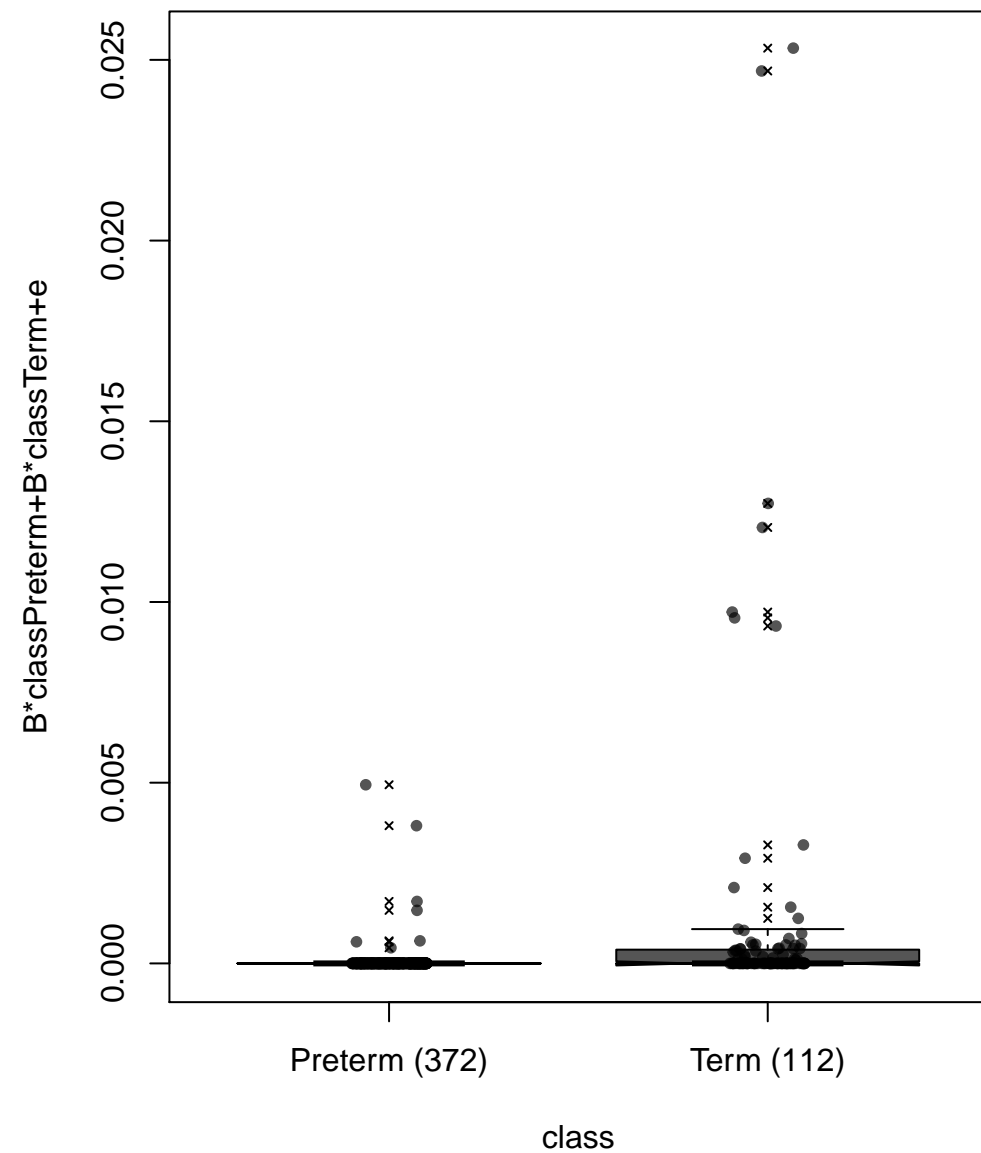
Partial Residual Plot



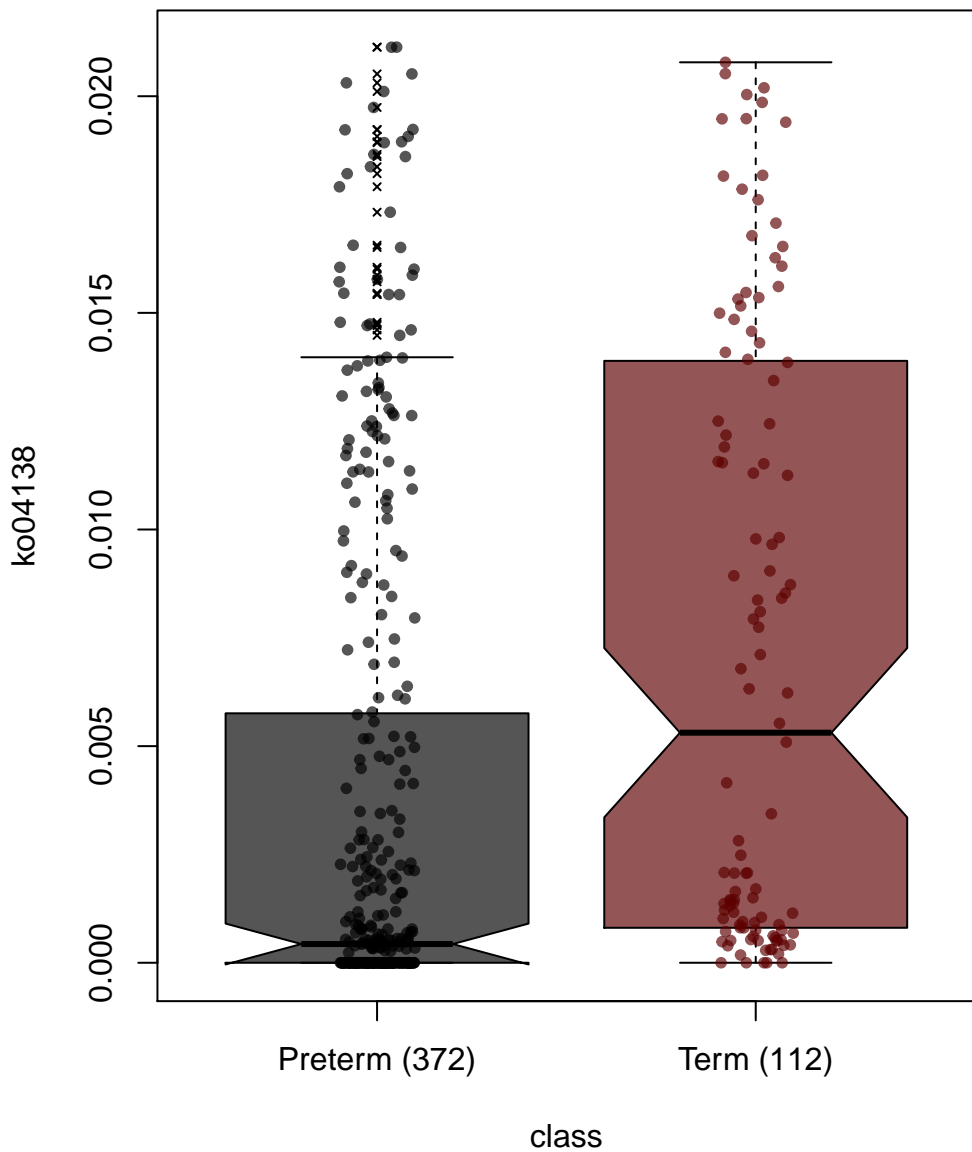
classTerm (0.00109 sd 0.000206, p=1.82e-07, q=3.9e-07)



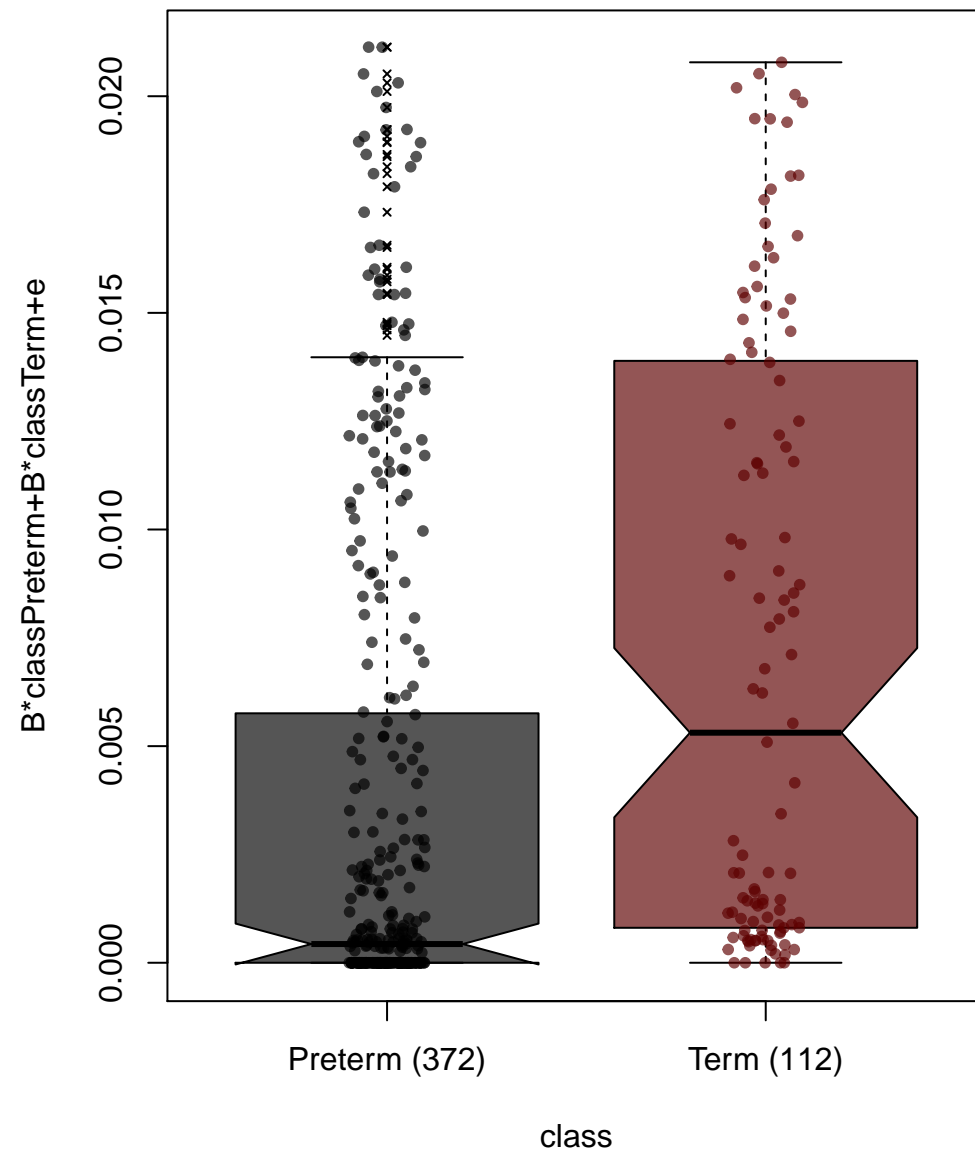
Partial Residual Plot



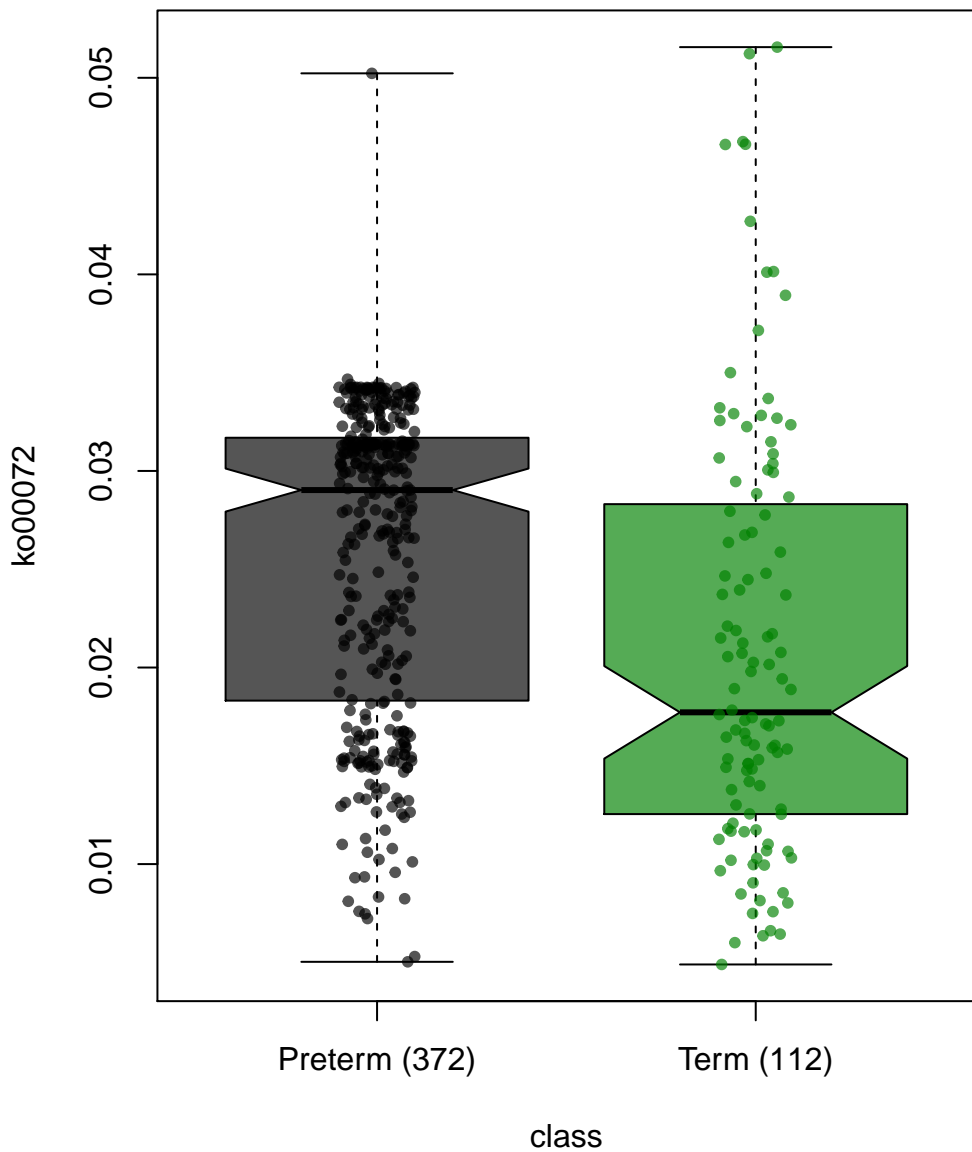
classTerm (0.00345 sd 0.000655, p=2.03e-07, q=4.33e-07)



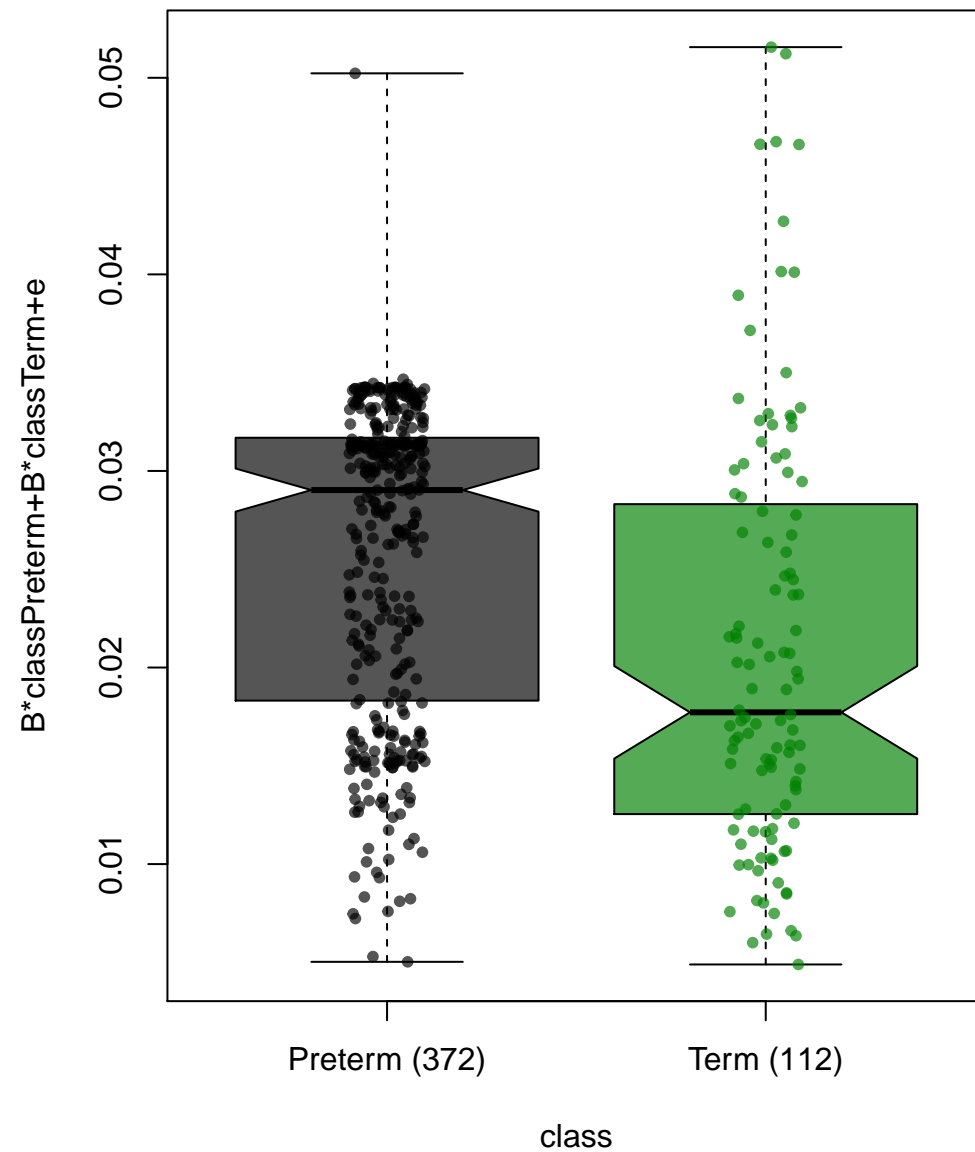
Partial Residual Plot



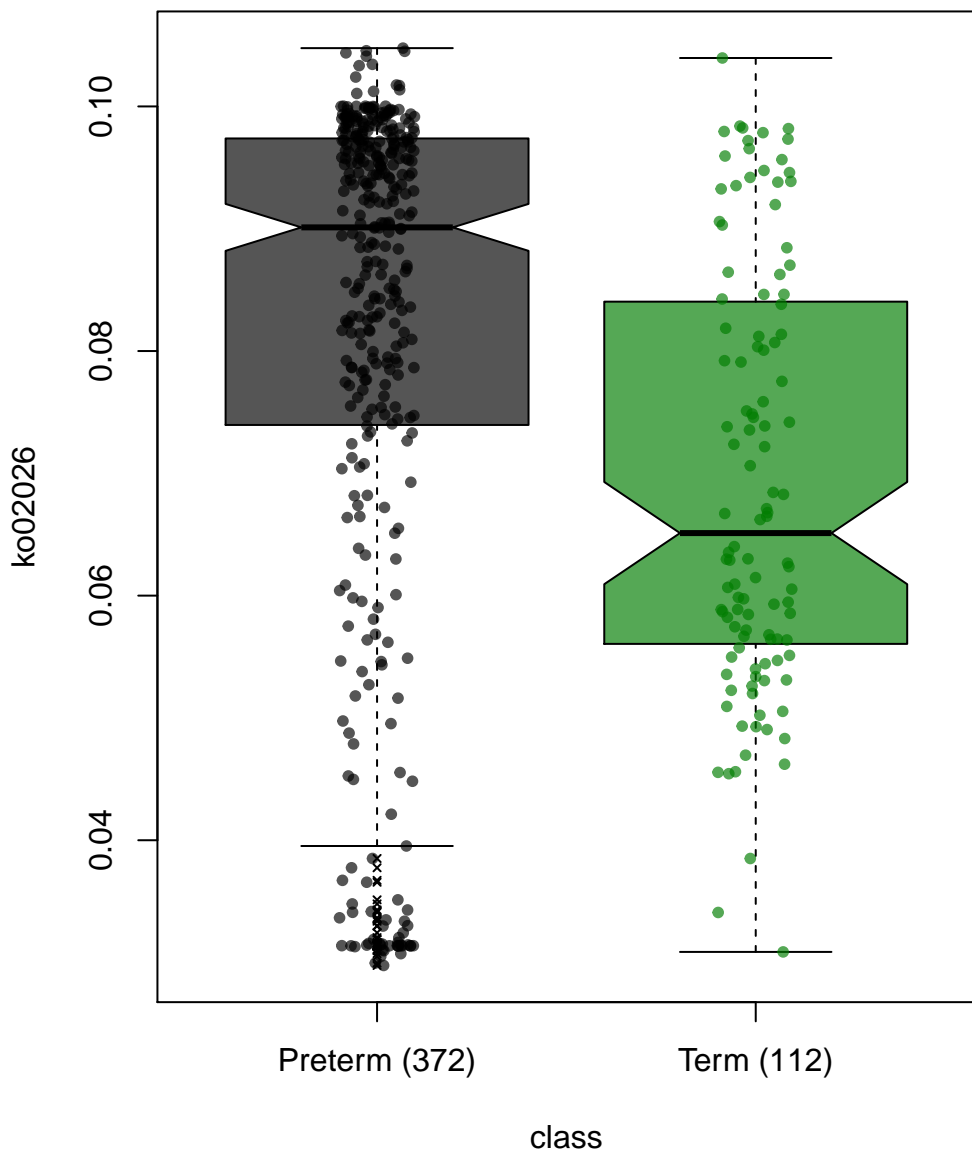
classTerm (−0.00484 sd 0.000927, p=2.59e−07, q=5.48e−07)



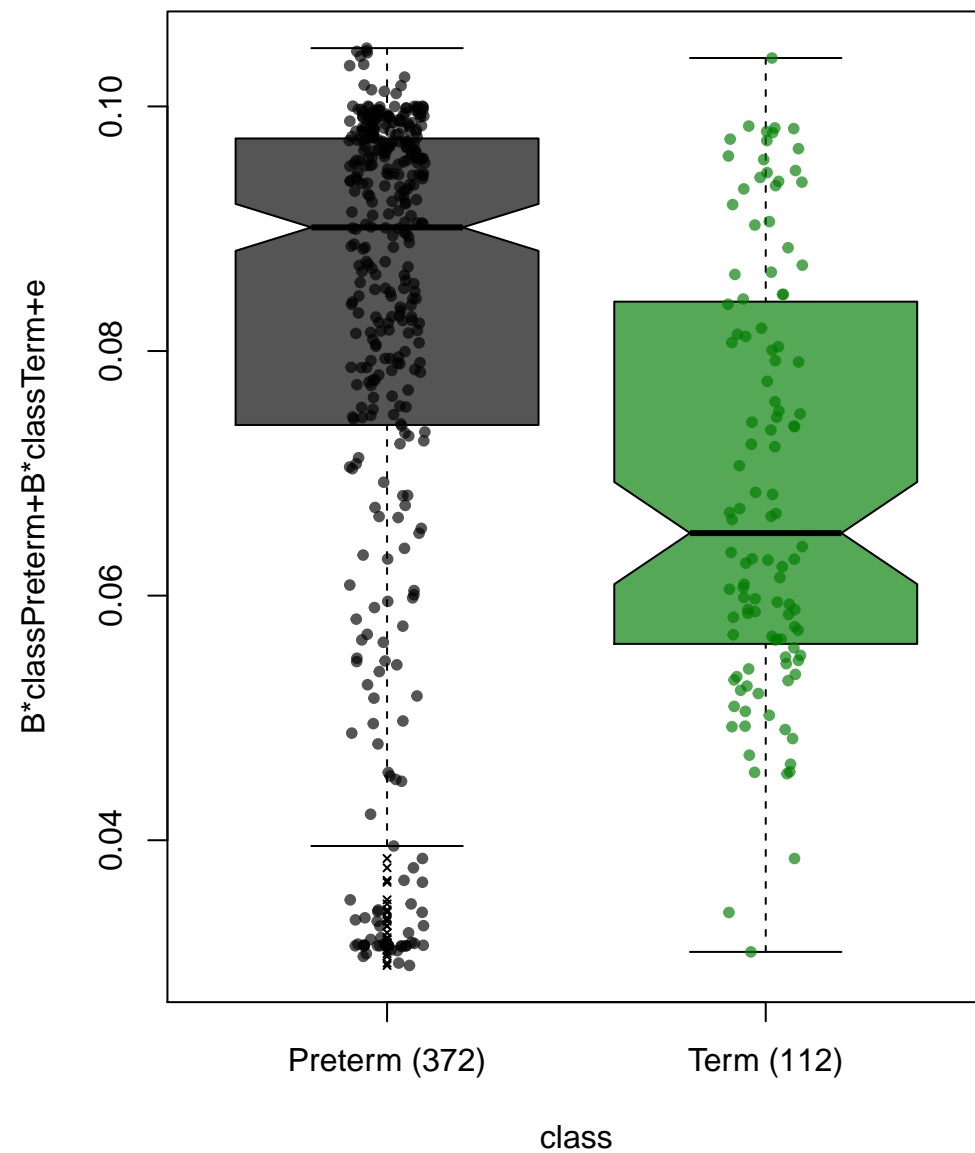
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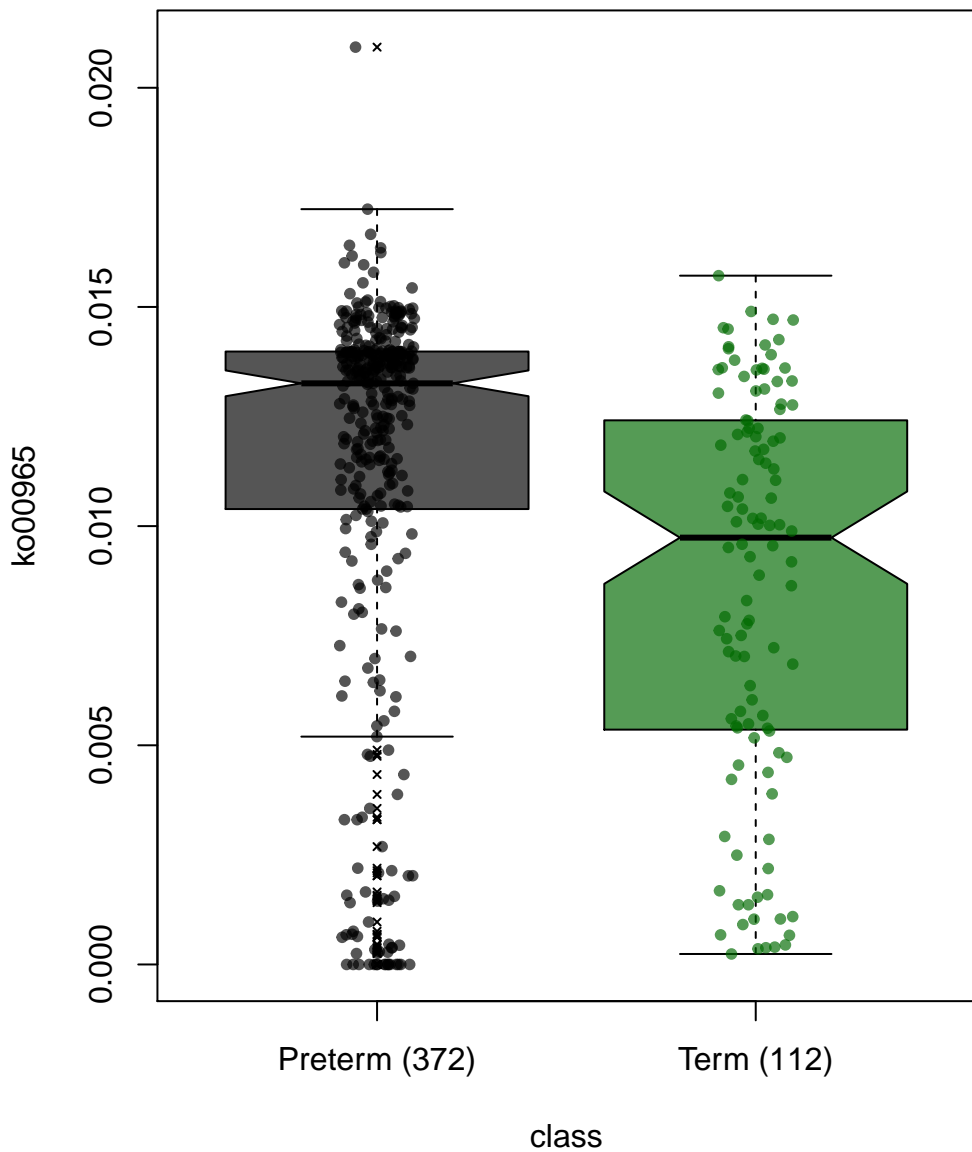
classTerm (-0.0118 sd 0.00226 , $p=2.66e-07$, $q=5.59e-07$)



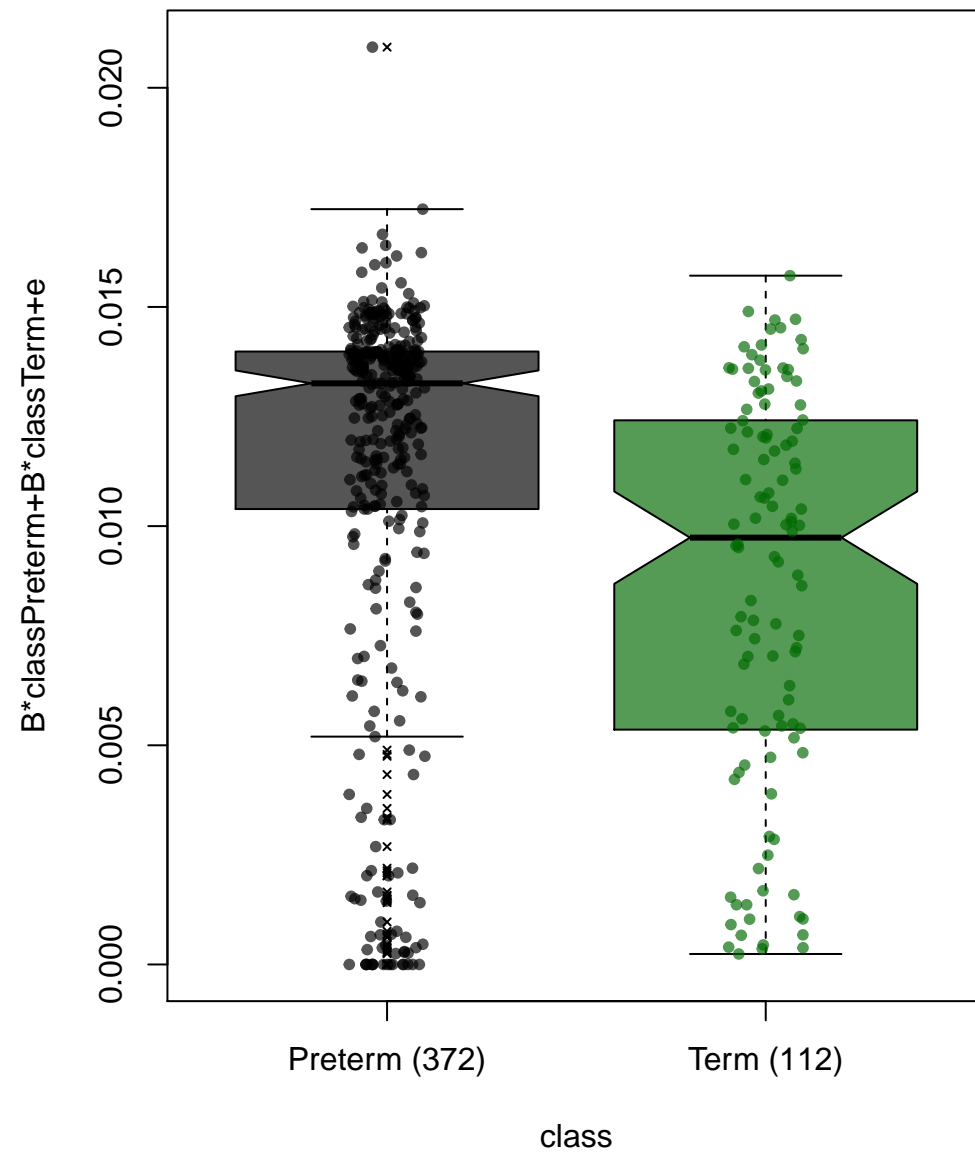
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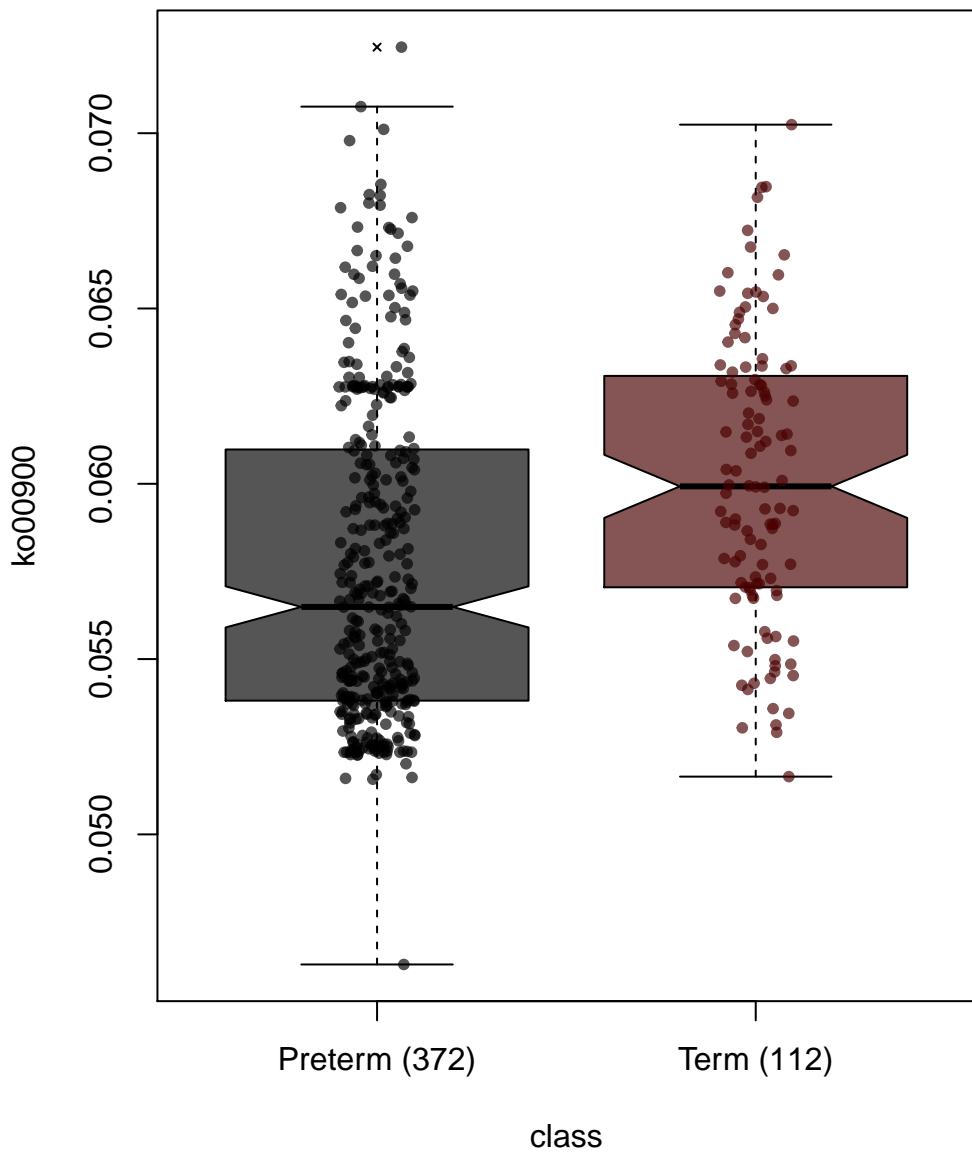
classTerm (−0.00256 sd 0.000493, p=3.06e−07, q=6.37e−07)



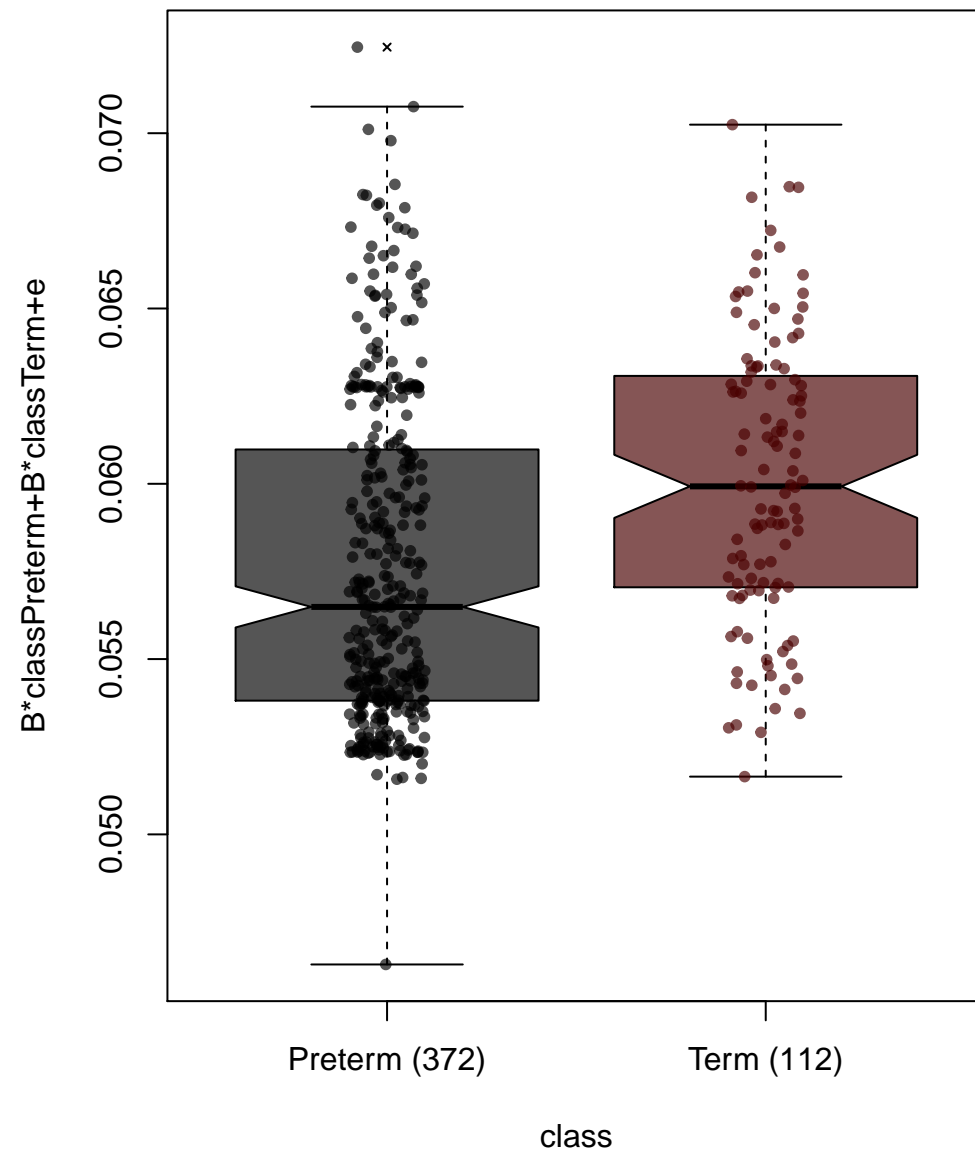
Partial Residual Plot



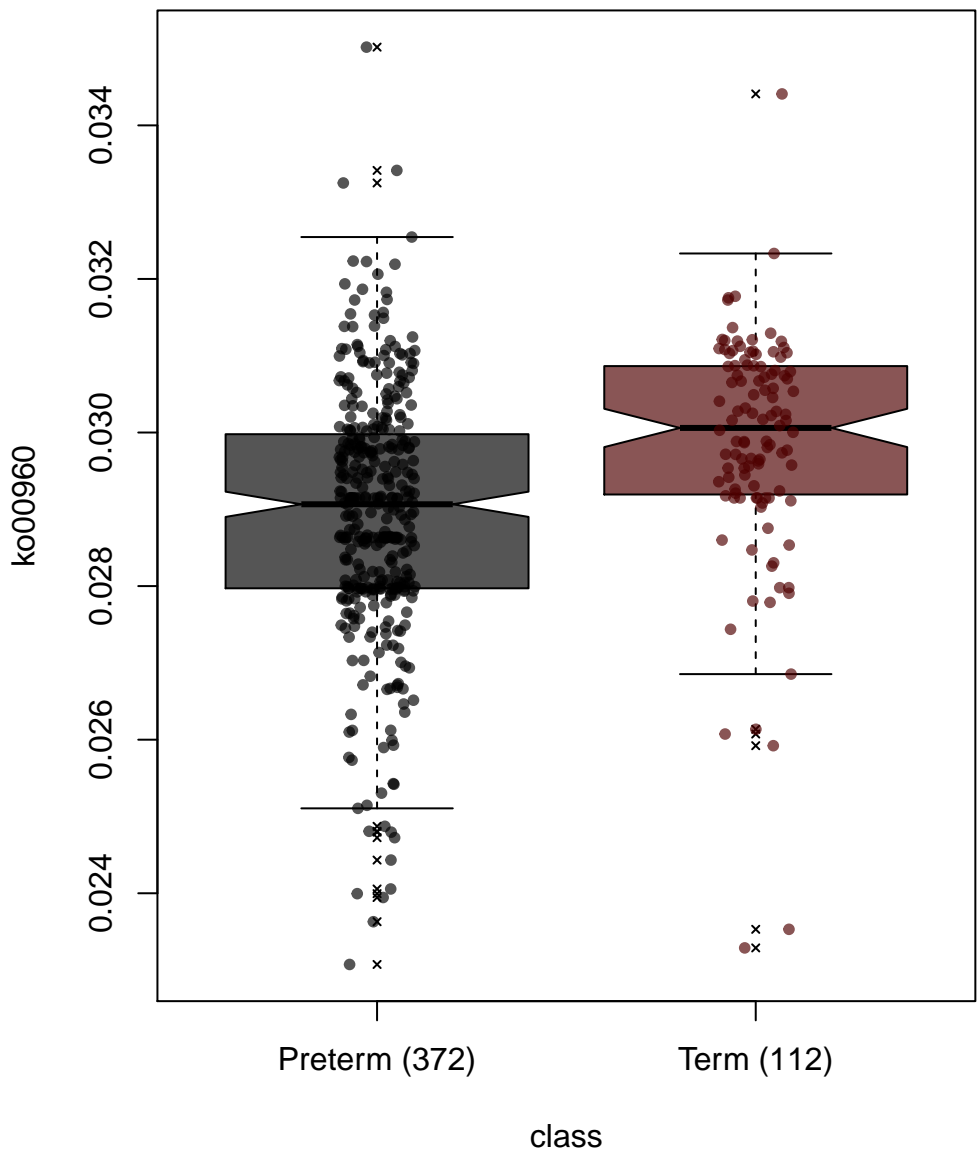
classTerm (0.00248 sd 0.000486, p=4.77e-07, q=9.85e-07)



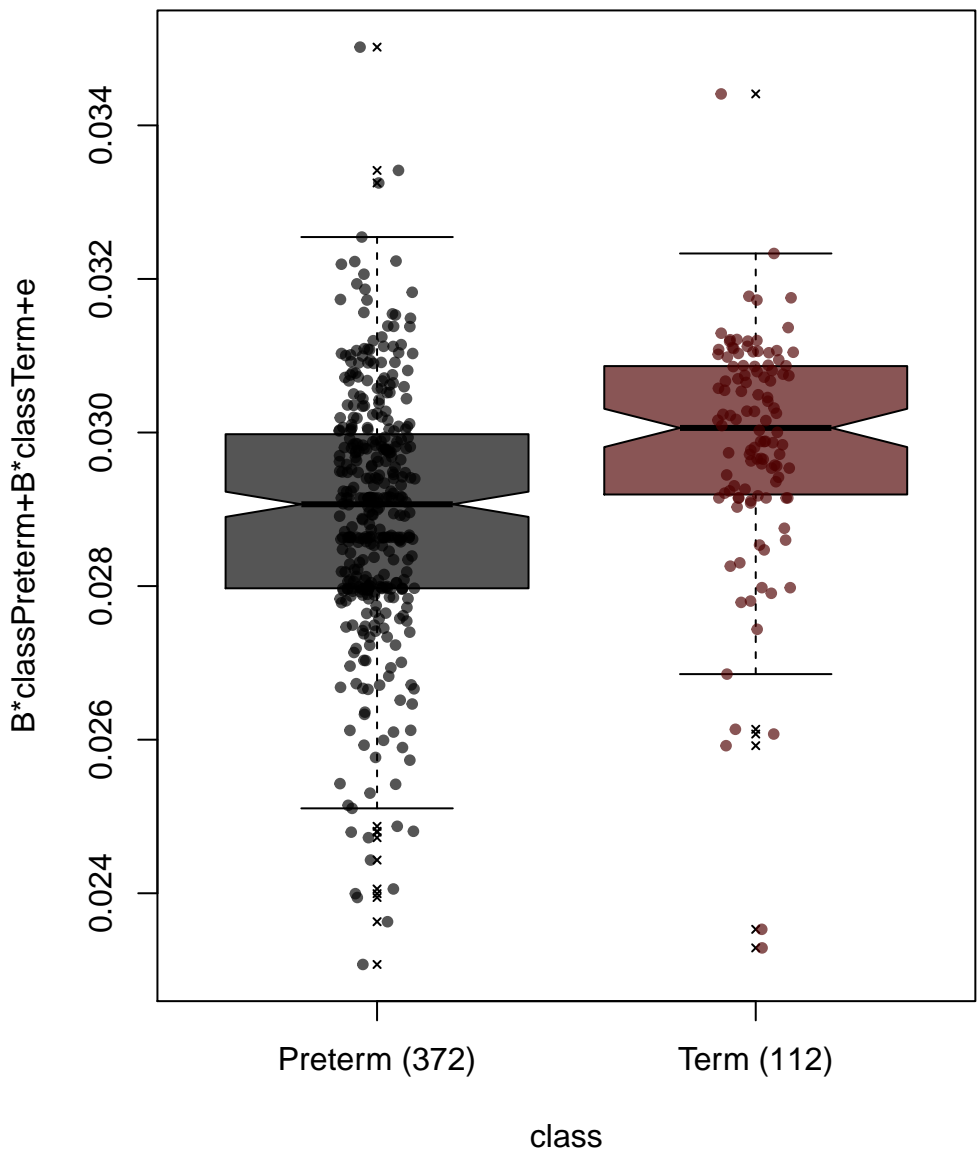
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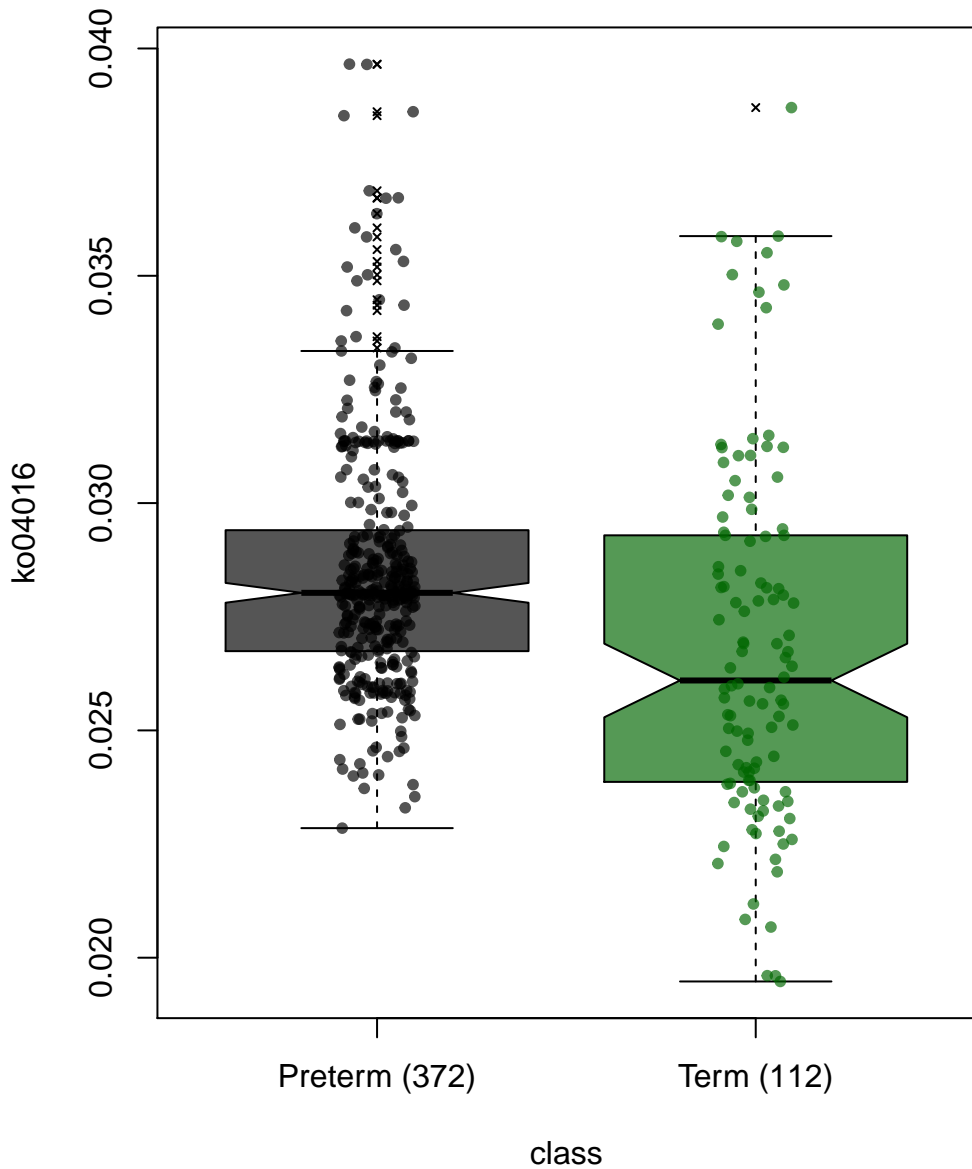
classTerm (0.000897 sd 0.000176, p=4.92e-07, q=1.01e-06)



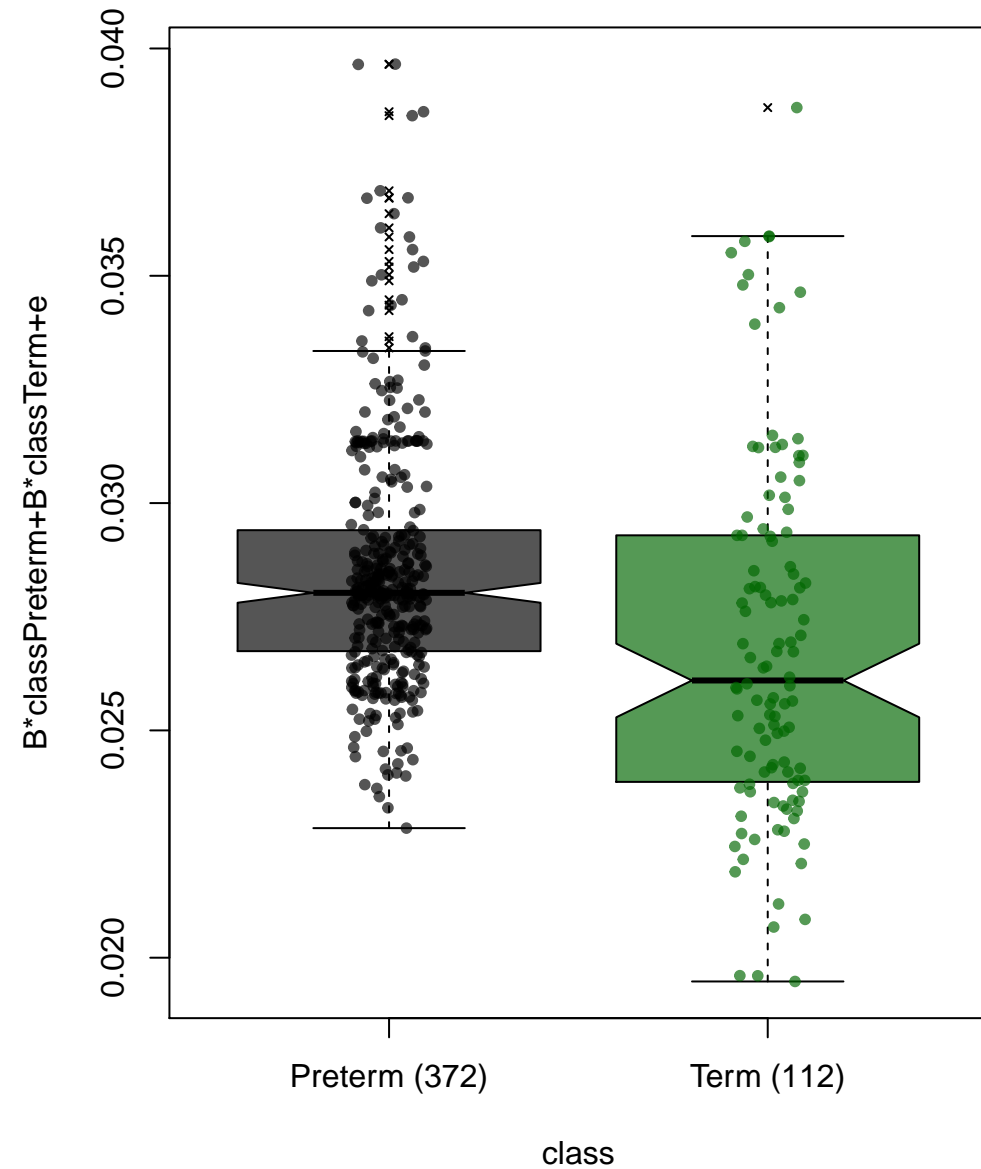
Partial Residual Plot



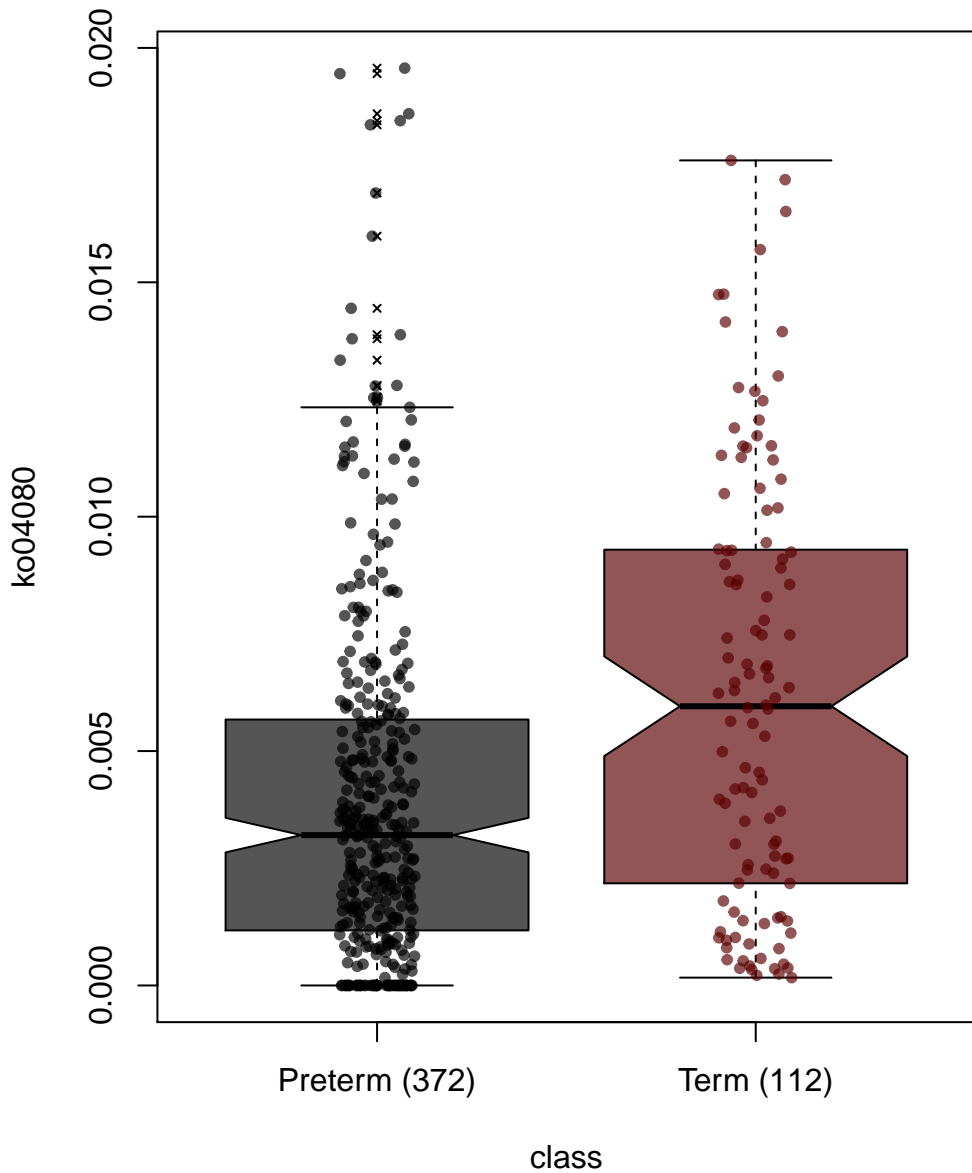
classTerm (-0.00167 sd 0.00033 , $p=5.98e-07$, $q=1.22e-06$)



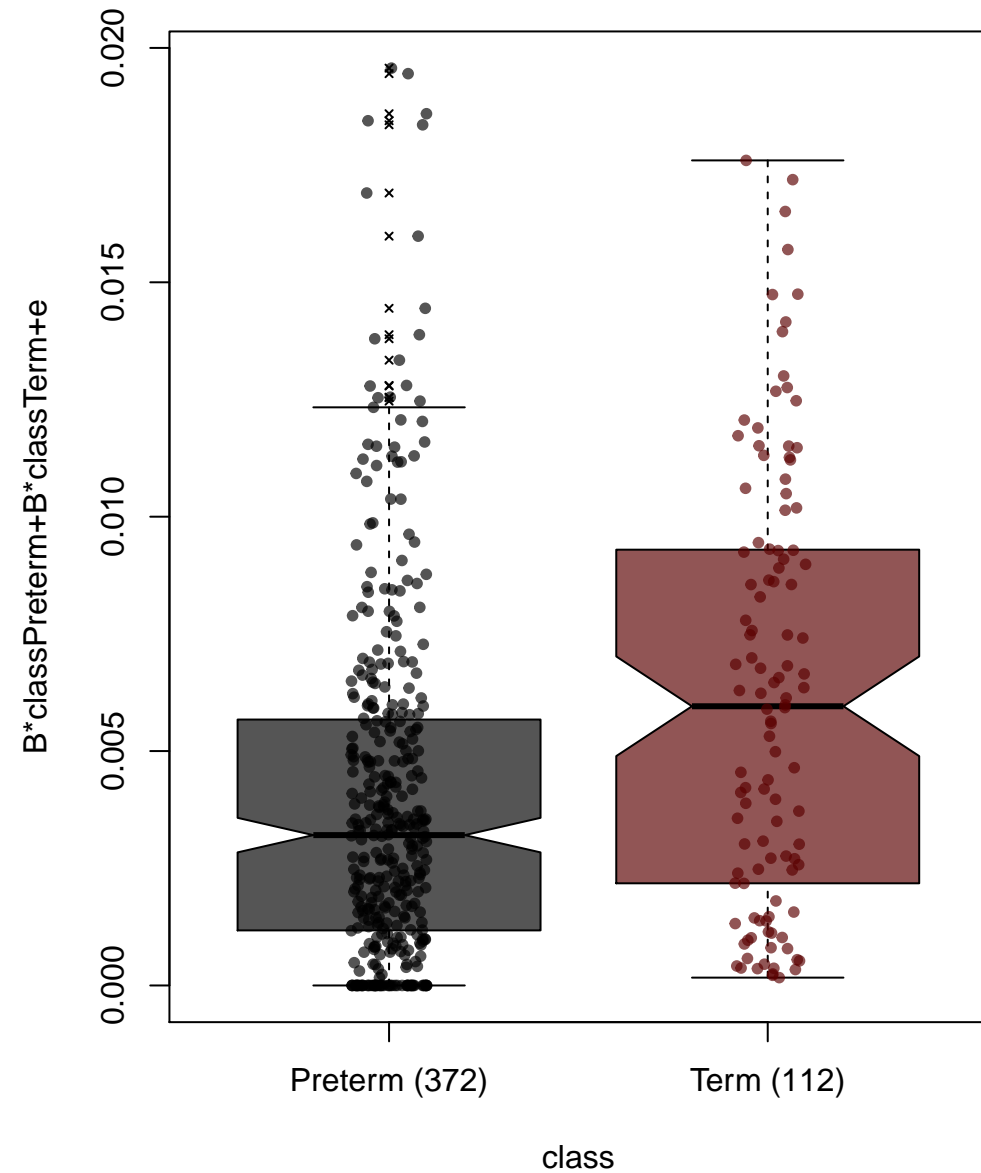
Partial Residual Plot



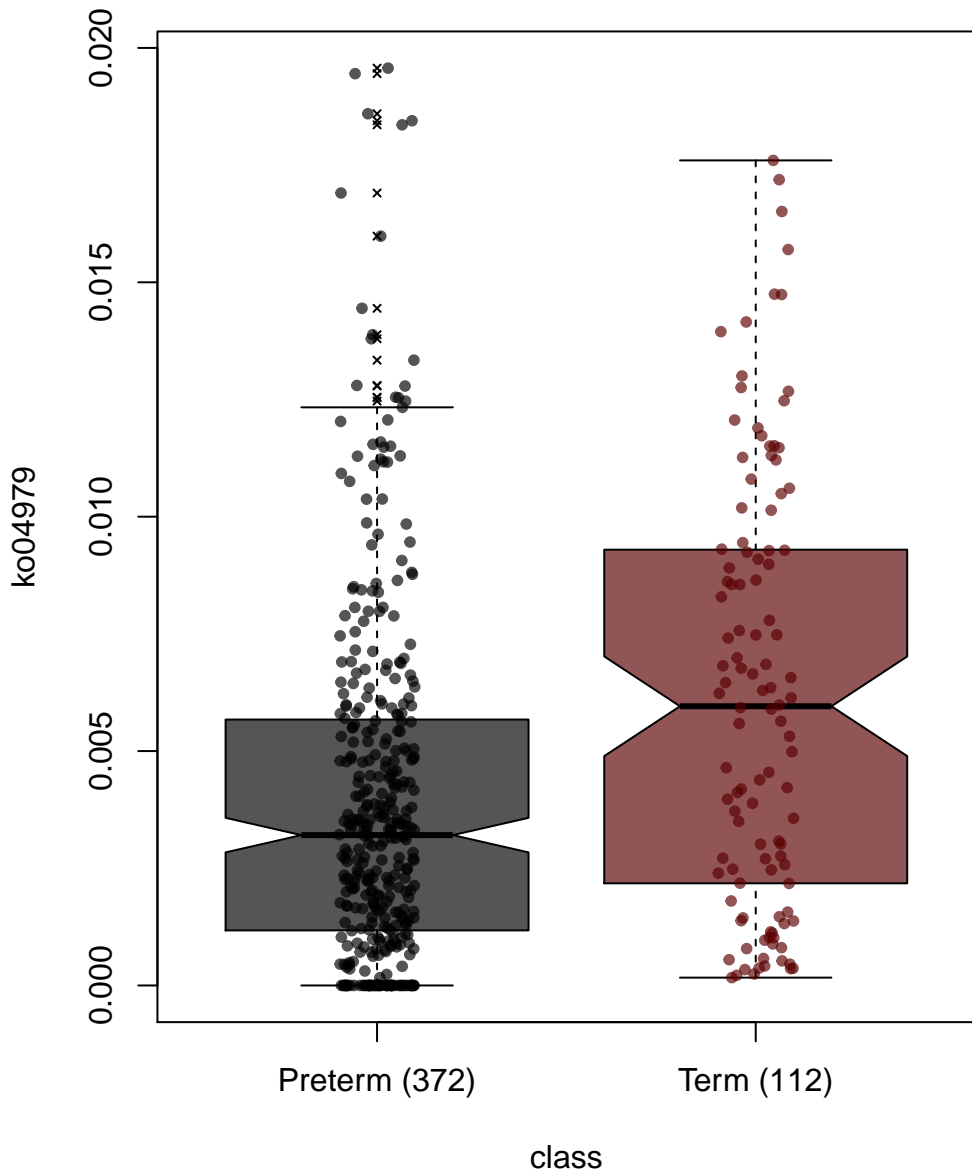
classTerm (0.00219 sd 0.000434, p=6.75e-07, q=1.34e-06)



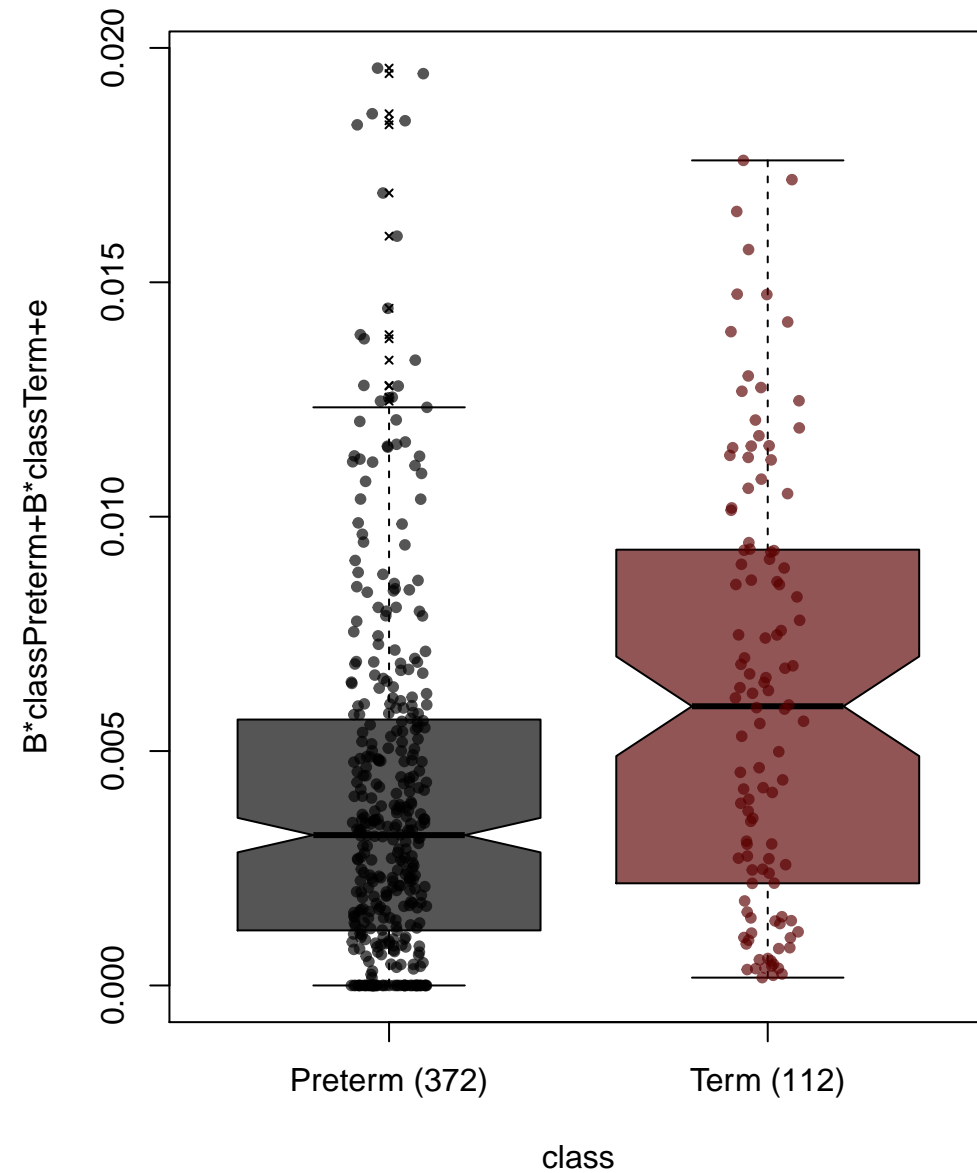
Partial Residual Plot



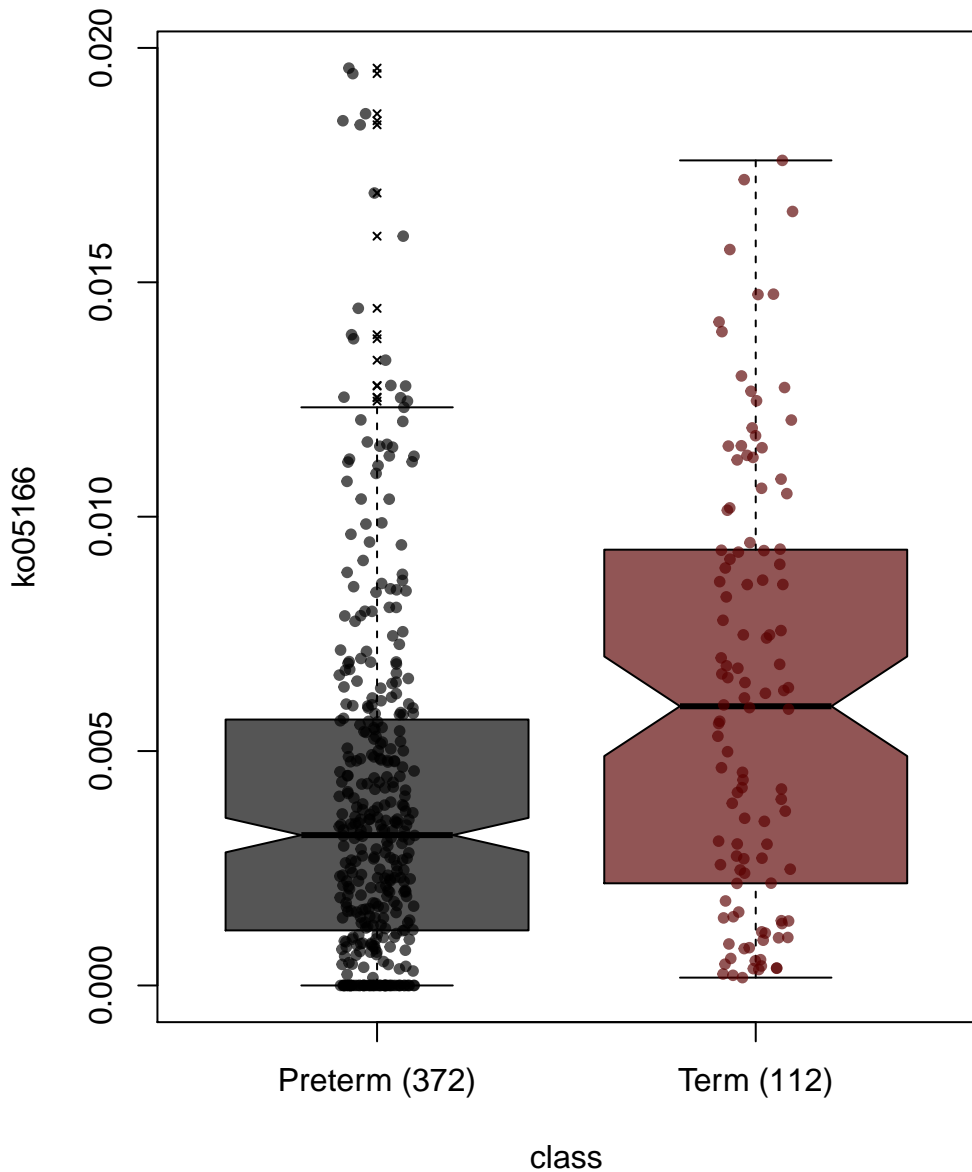
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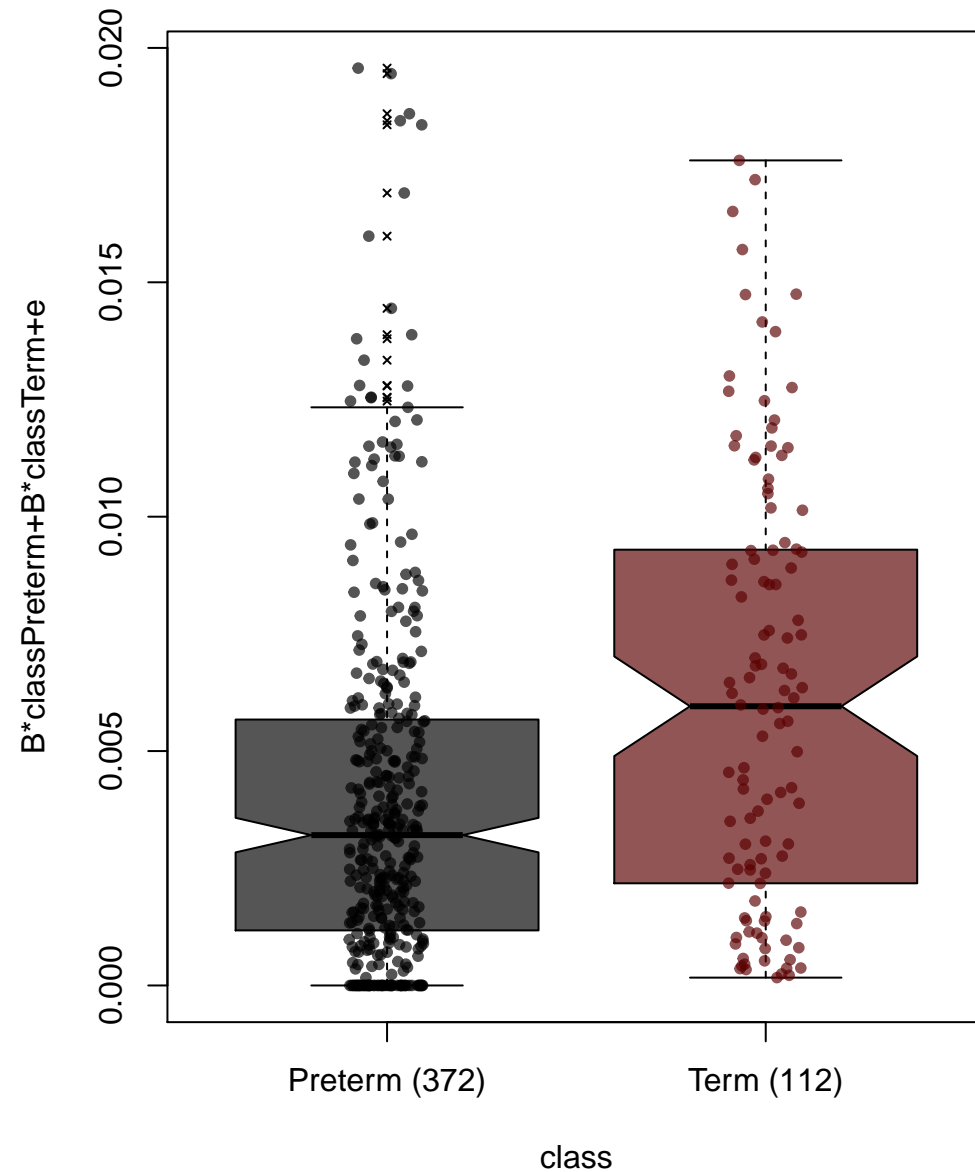
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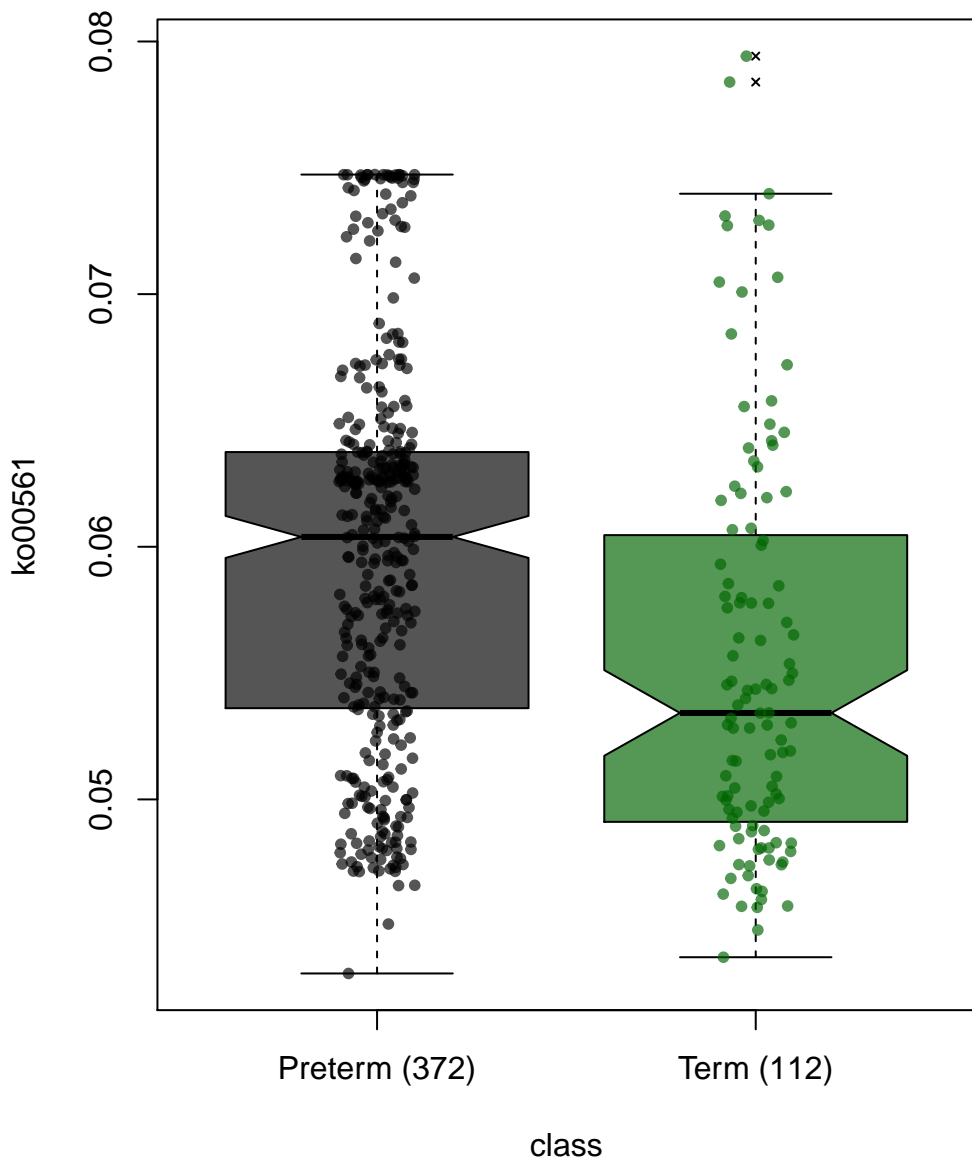
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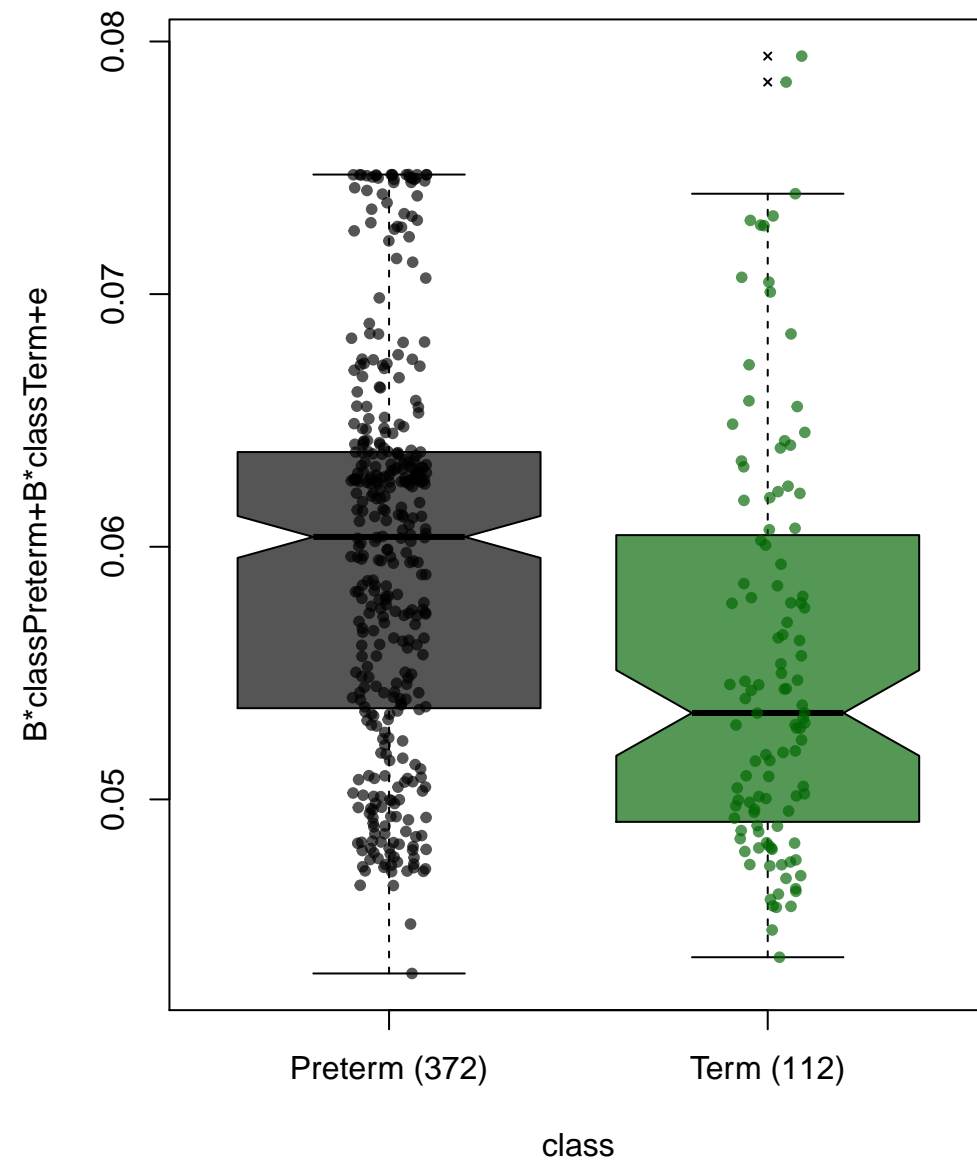
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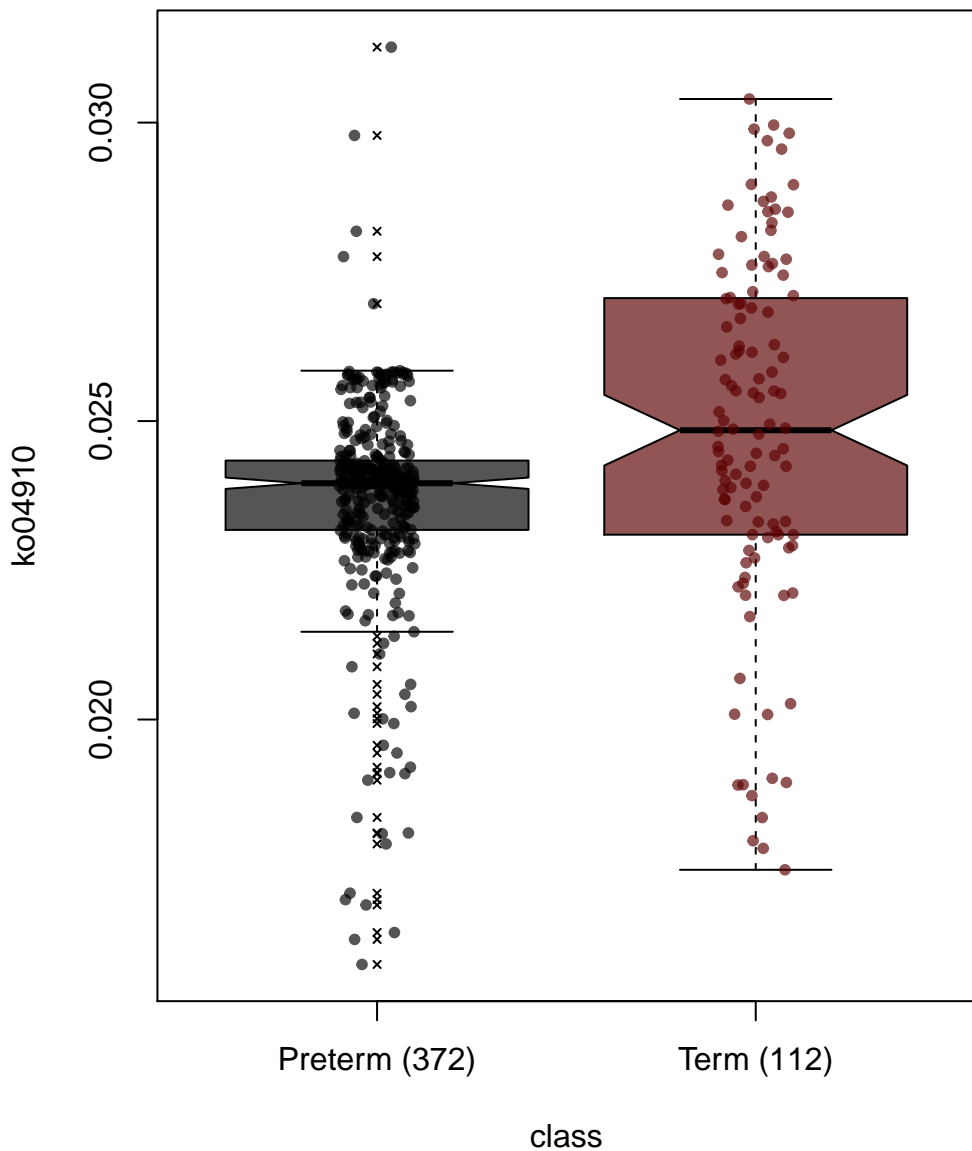
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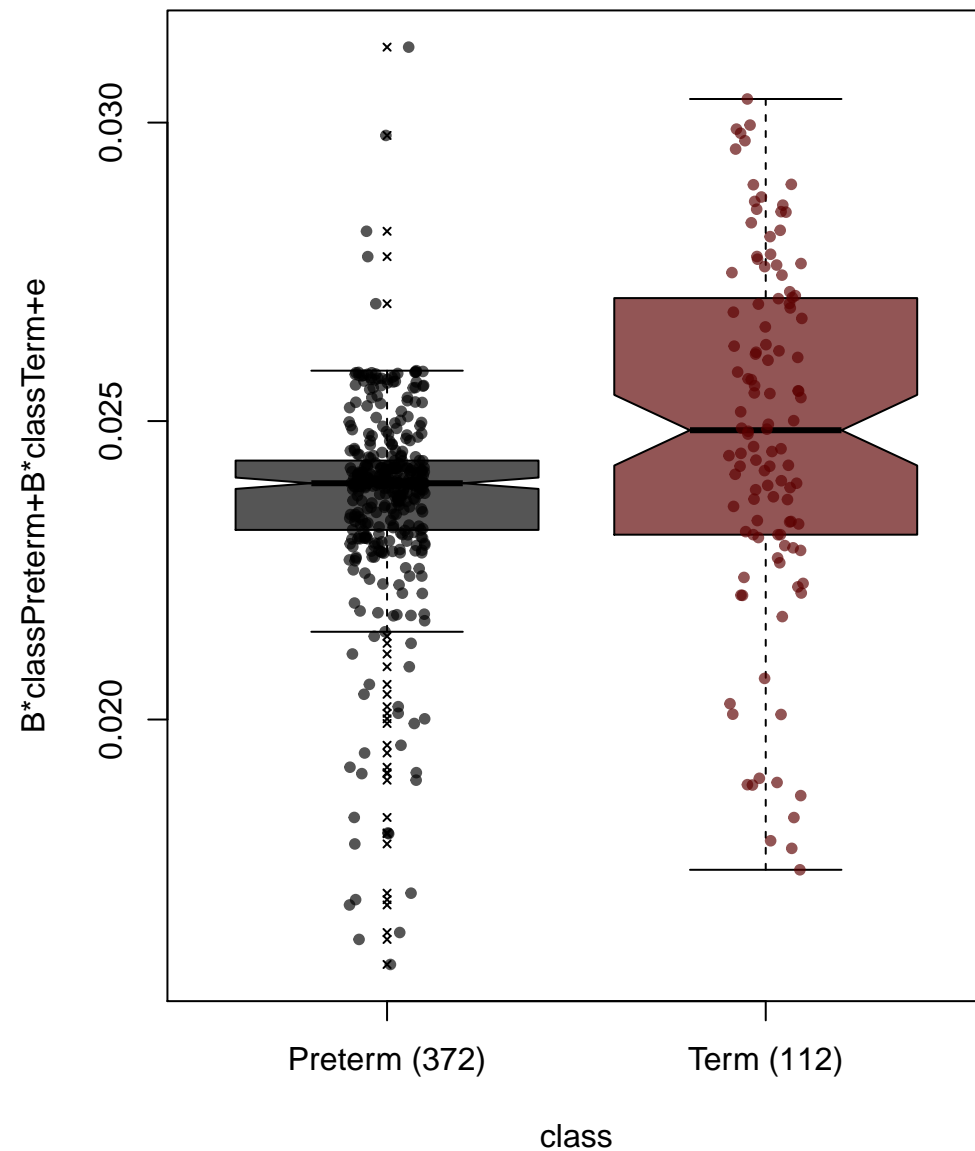
Partial Residual Plot



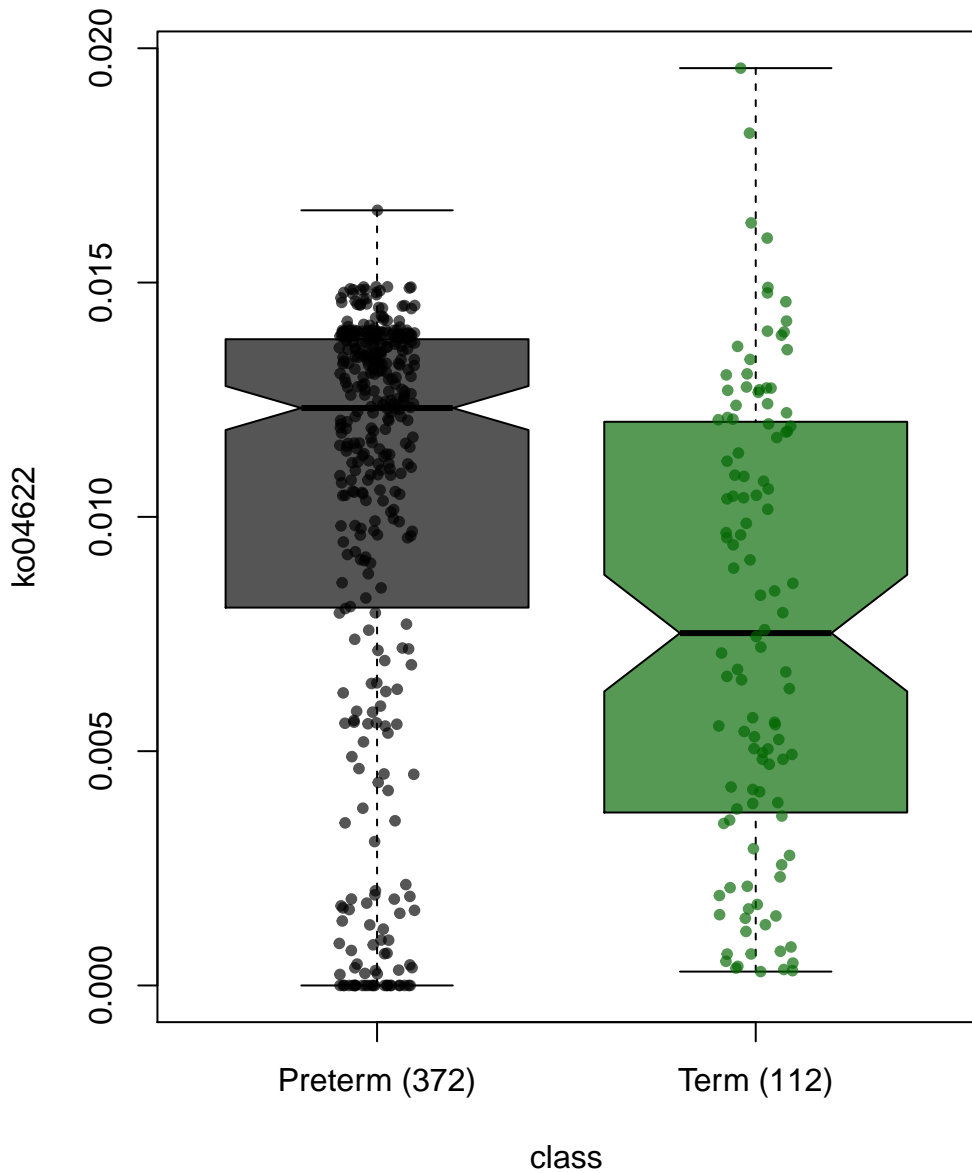
classTerm (0.00111 sd 0.000225, p=1.24e-06, q=2.43e-06)



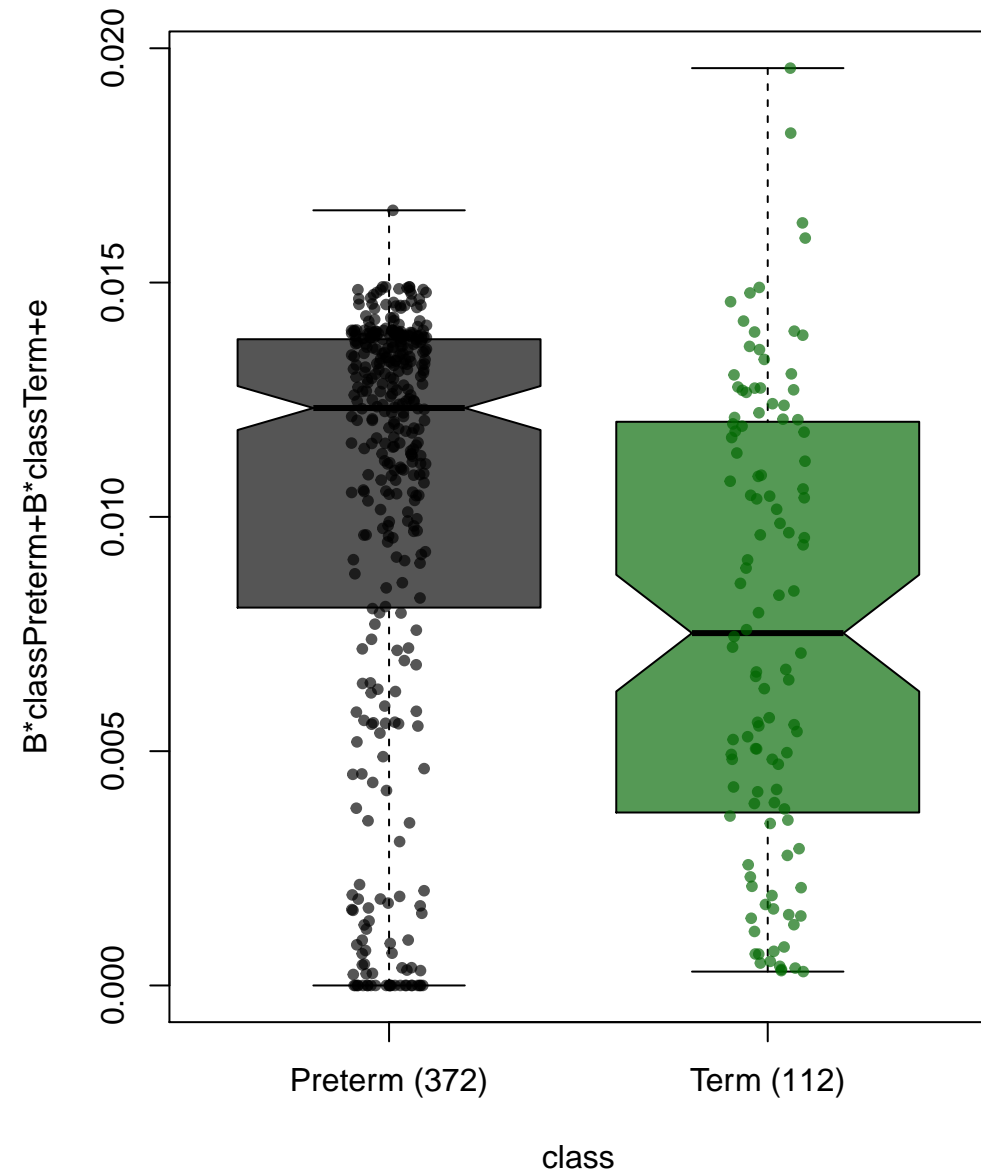
Partial Residual Plot



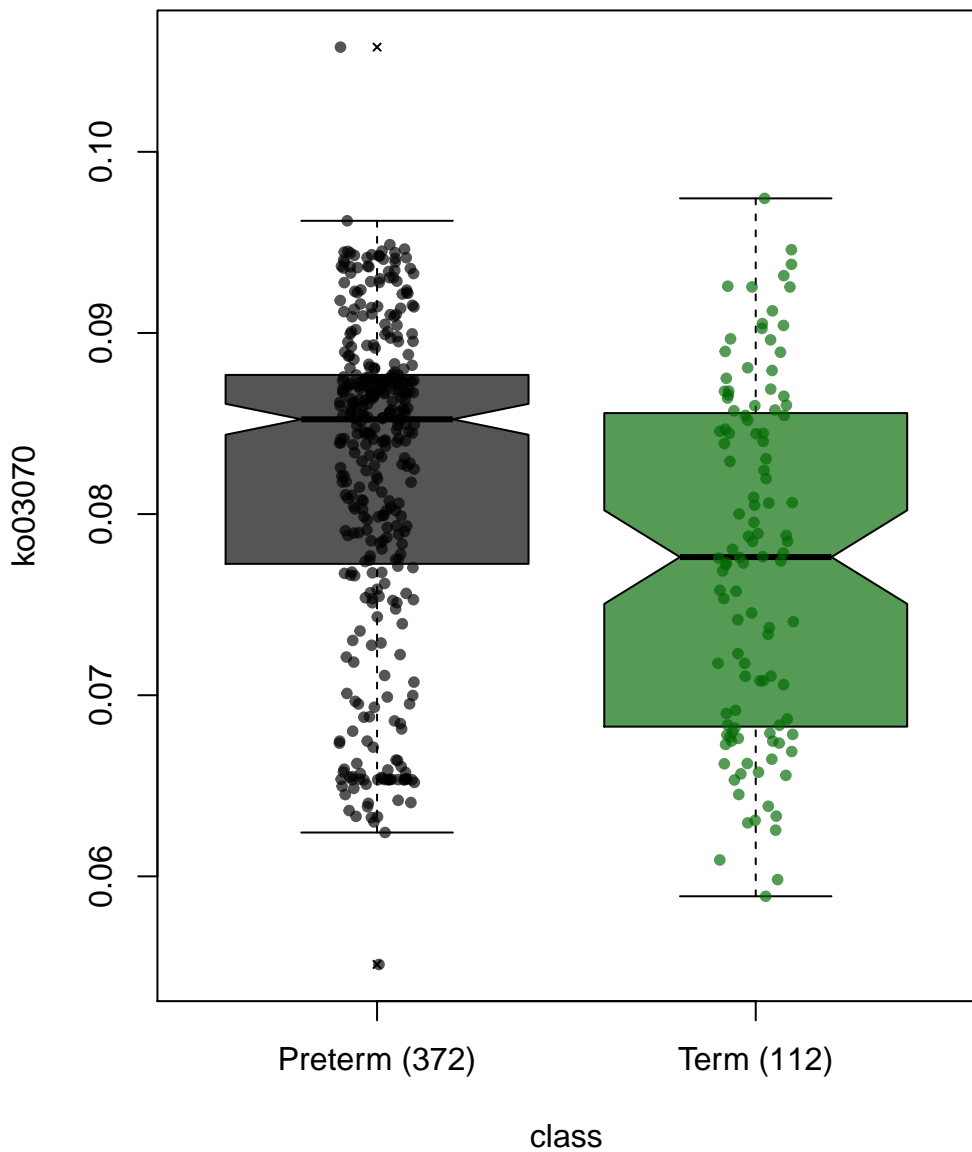
classTerm (-0.00251 sd 0.000514, p=1.39e-06, q=2.7e-06)



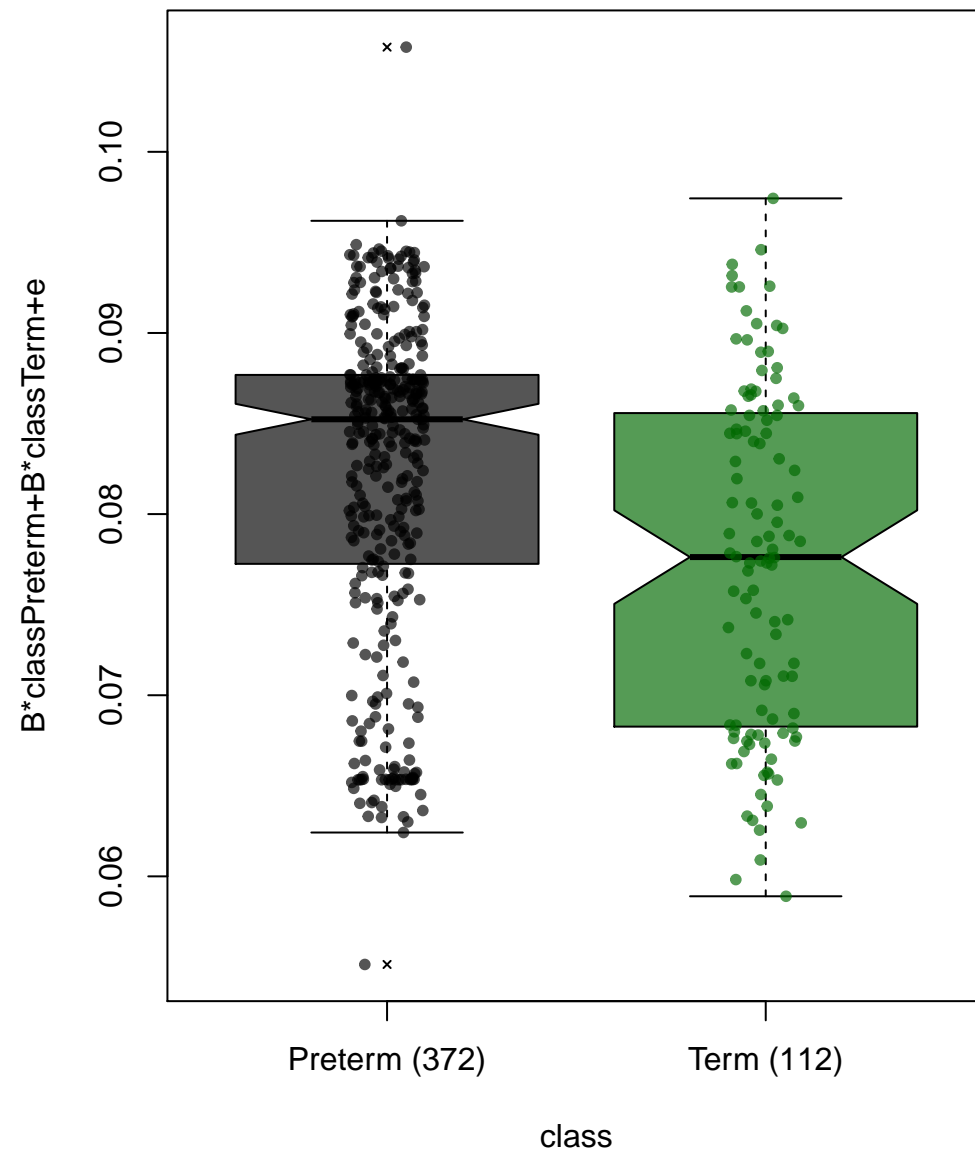
Partial Residual Plot



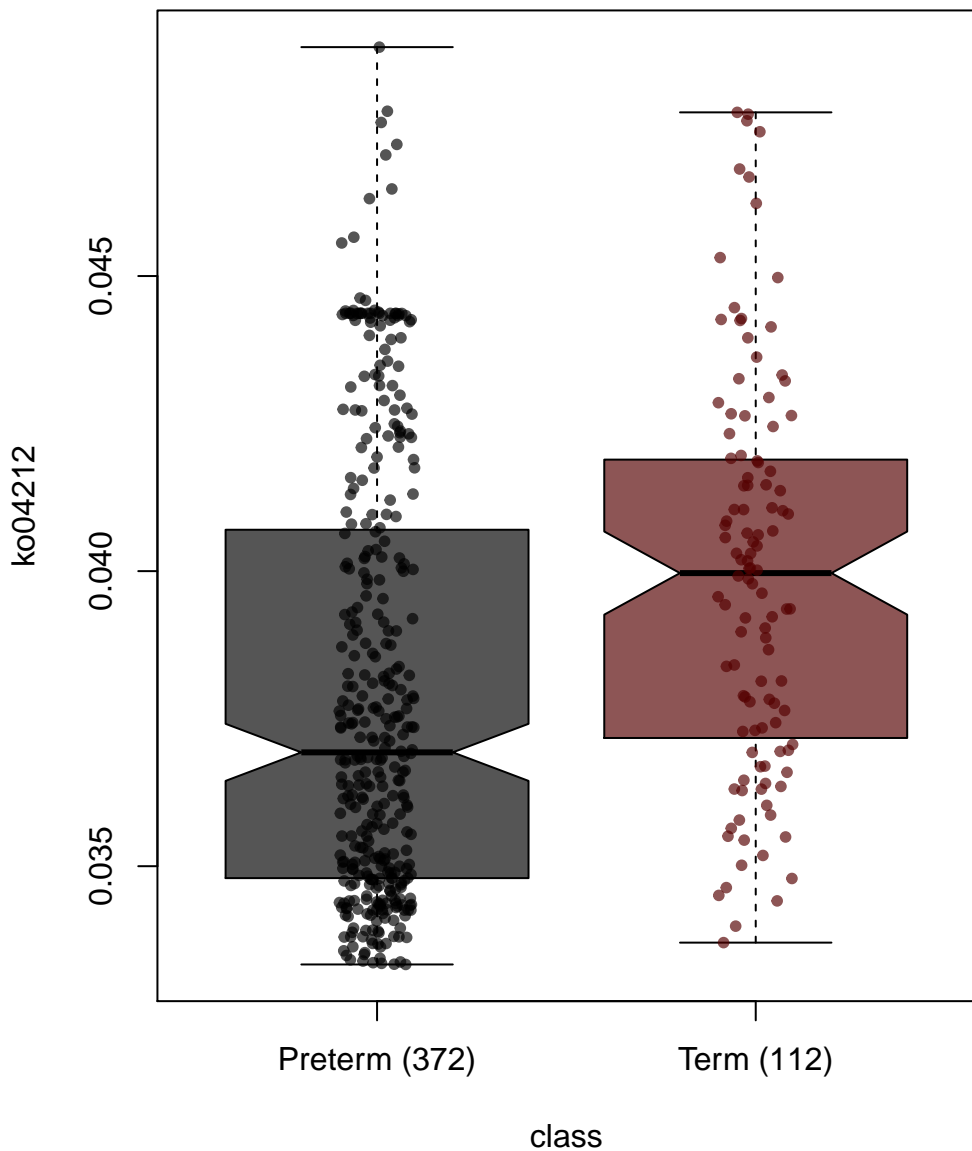
classTerm (-0.00479 sd 0.000984, p=1.54e-06, q=2.99e-06)



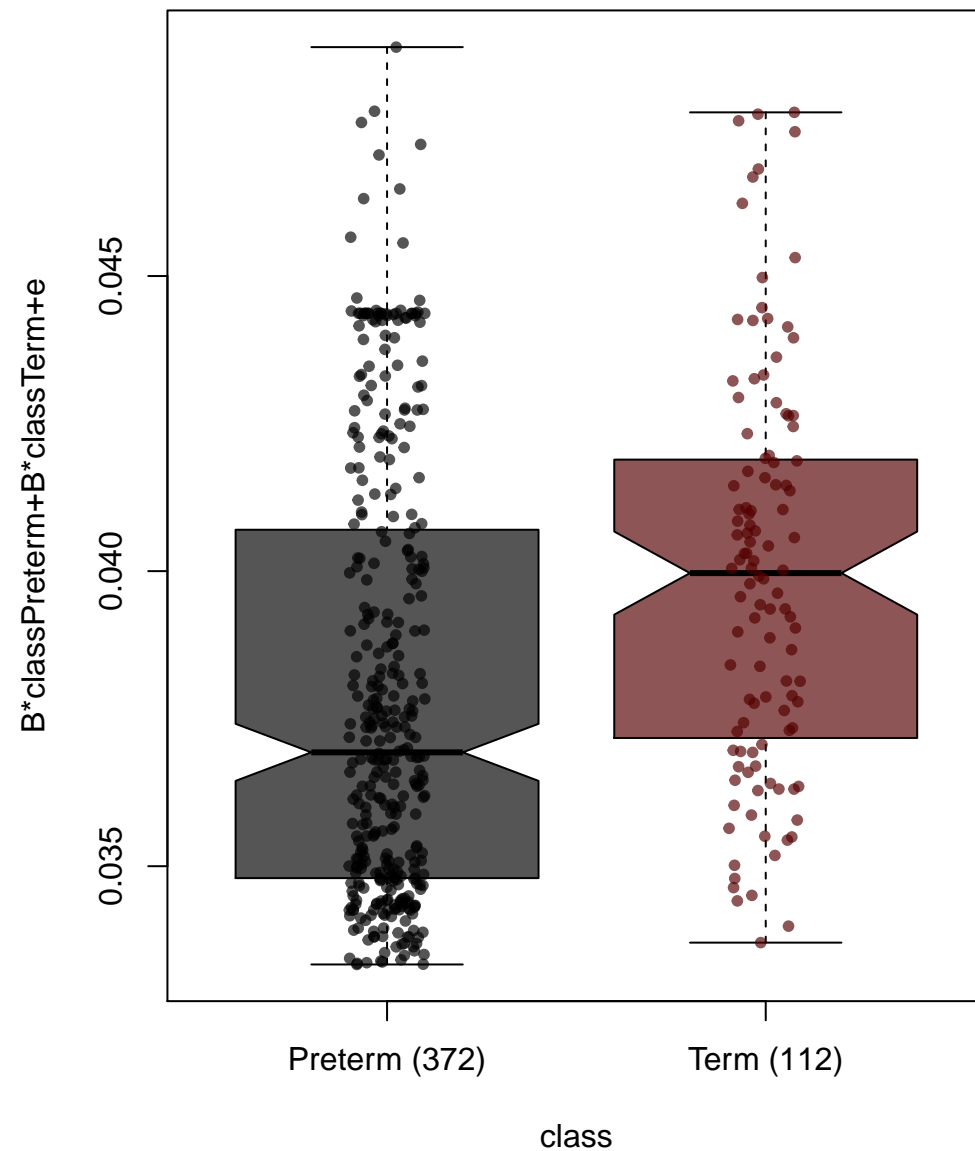
Partial Residual Plot



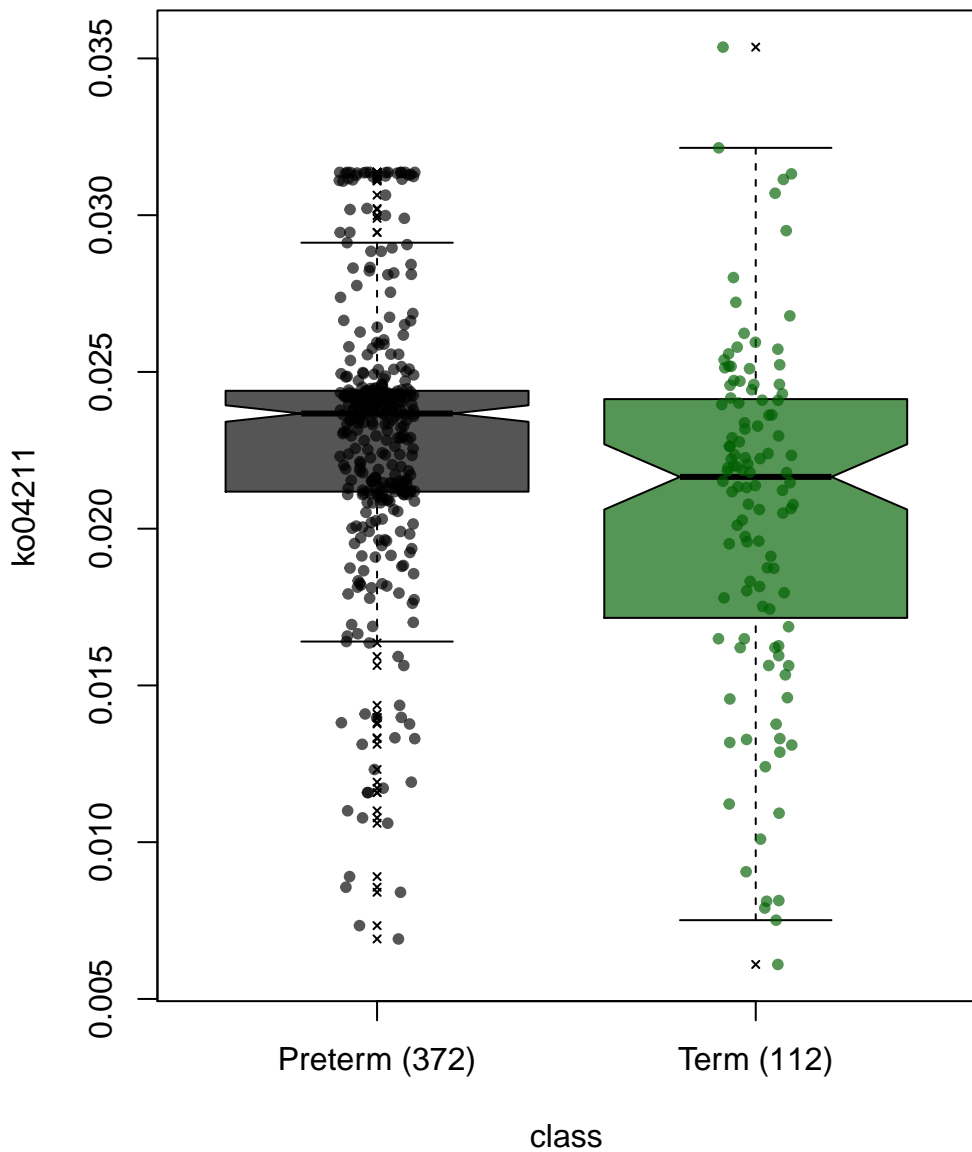
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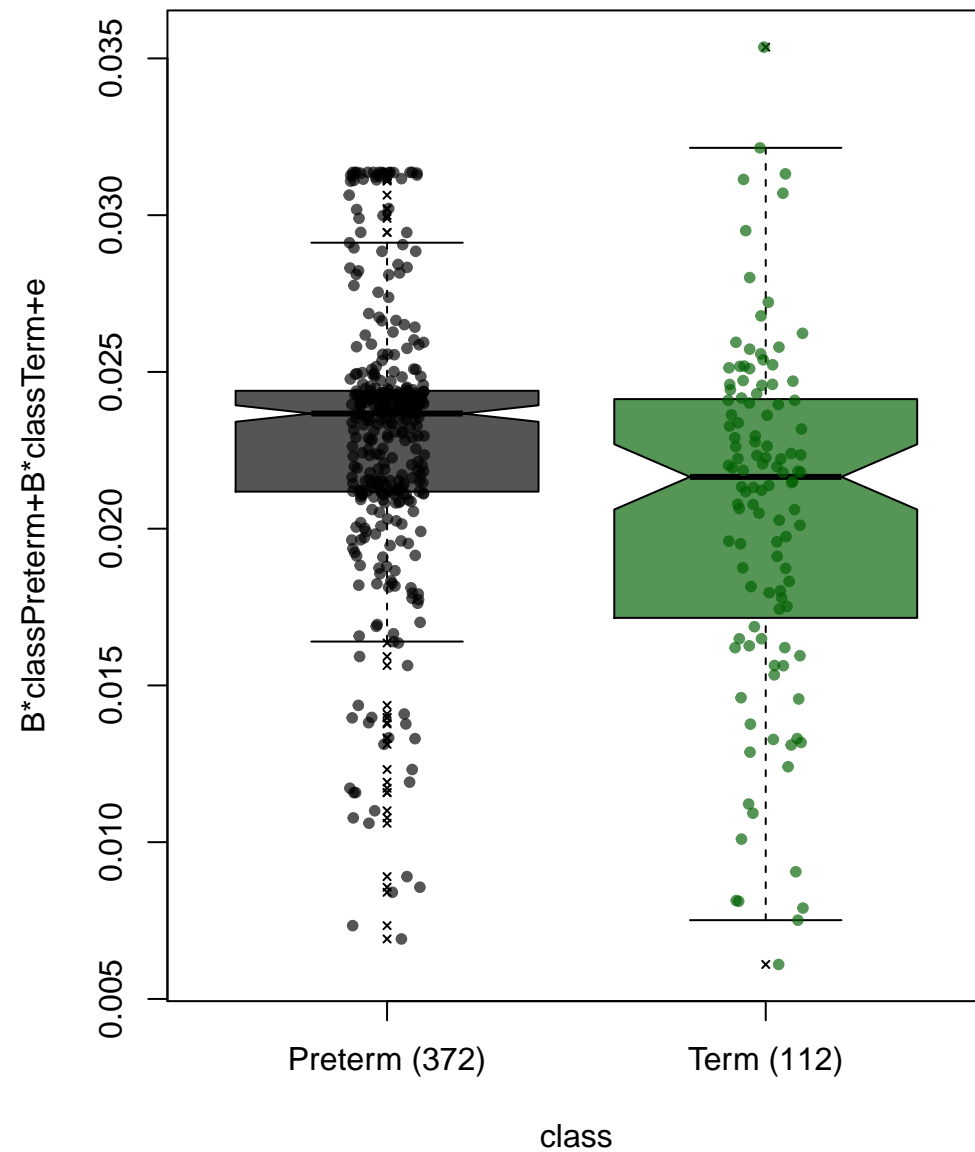
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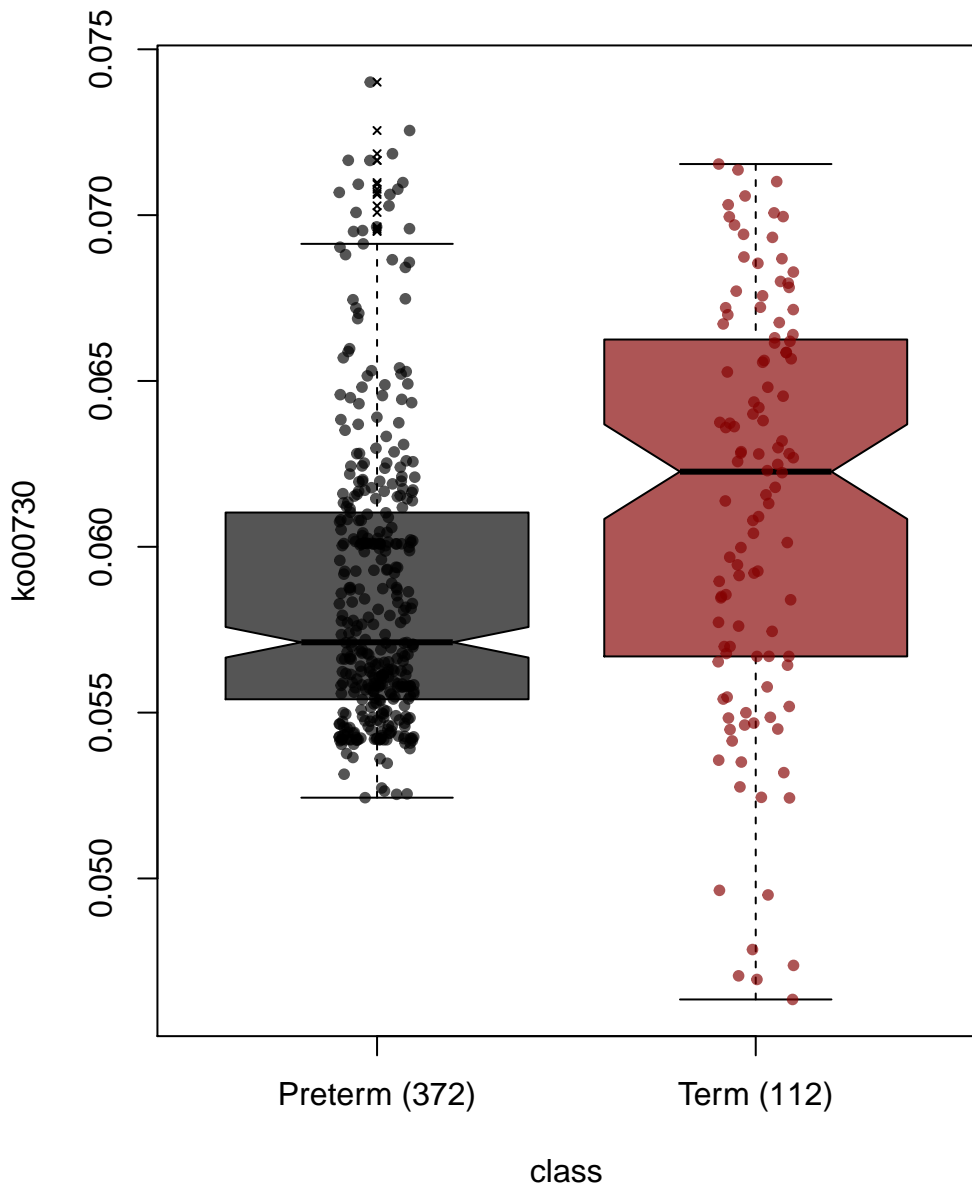
classTerm (-0.00243 sd 0.000504, p=1.96e-06, q=3.74e-06)



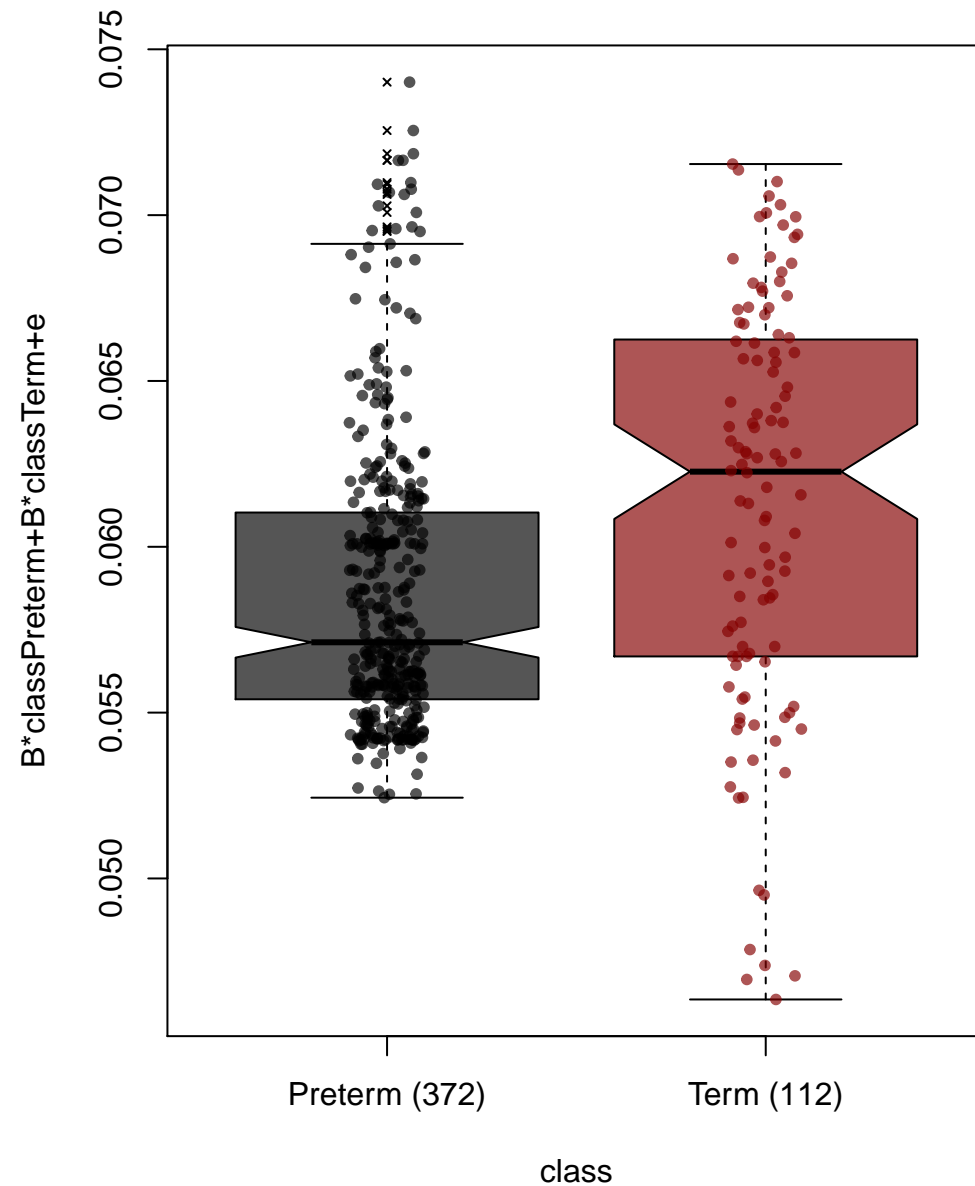
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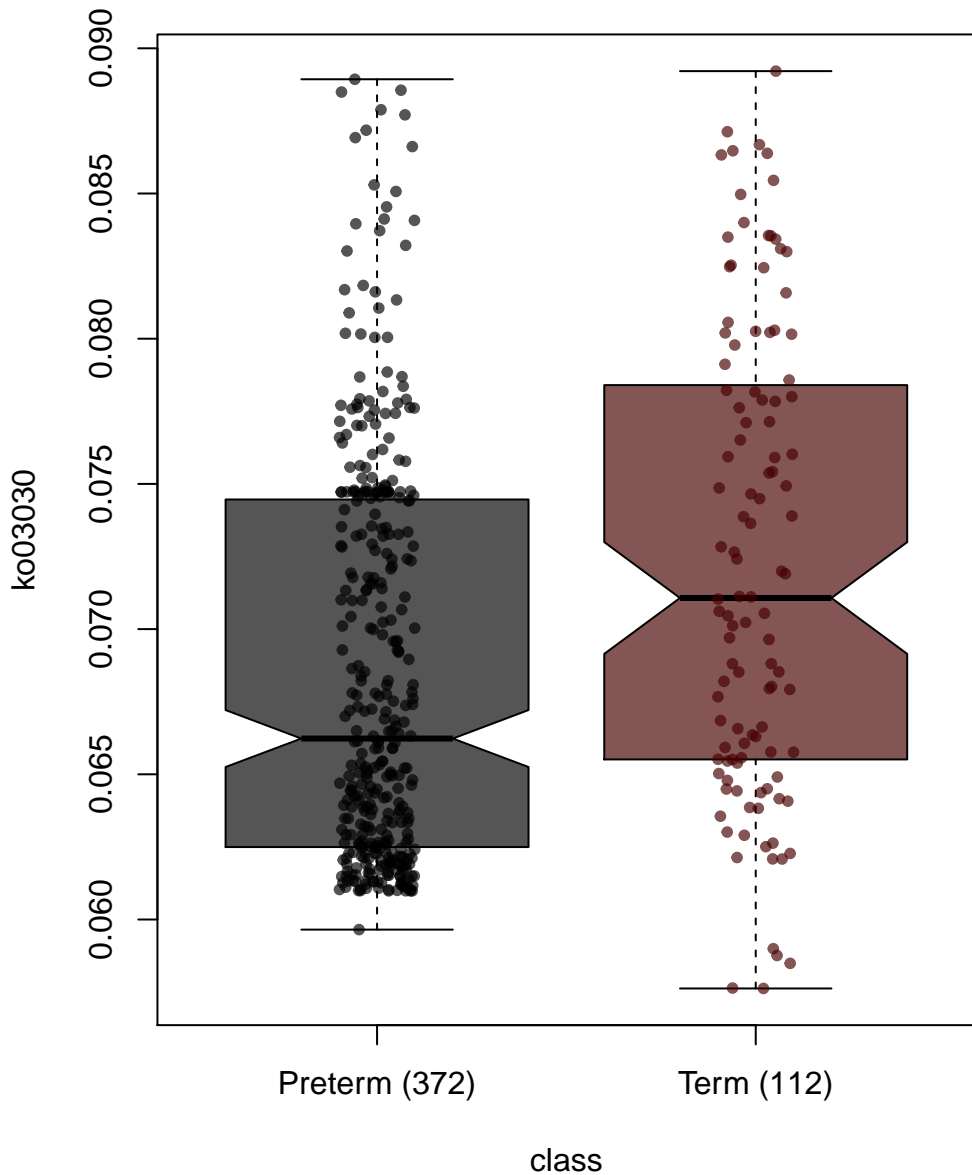
classTerm (0.00251 sd 0.000526, p=2.48e-06, q=4.71e-06)



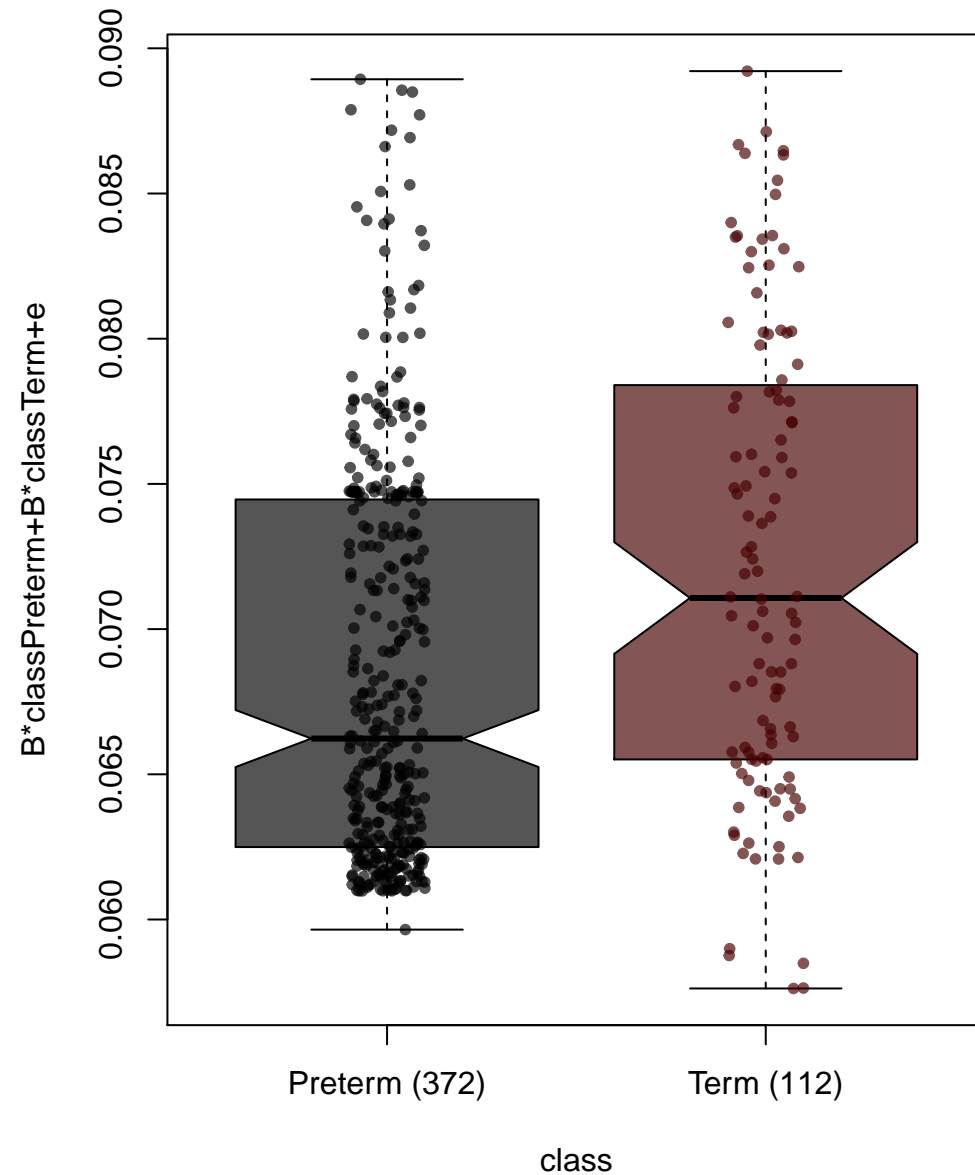
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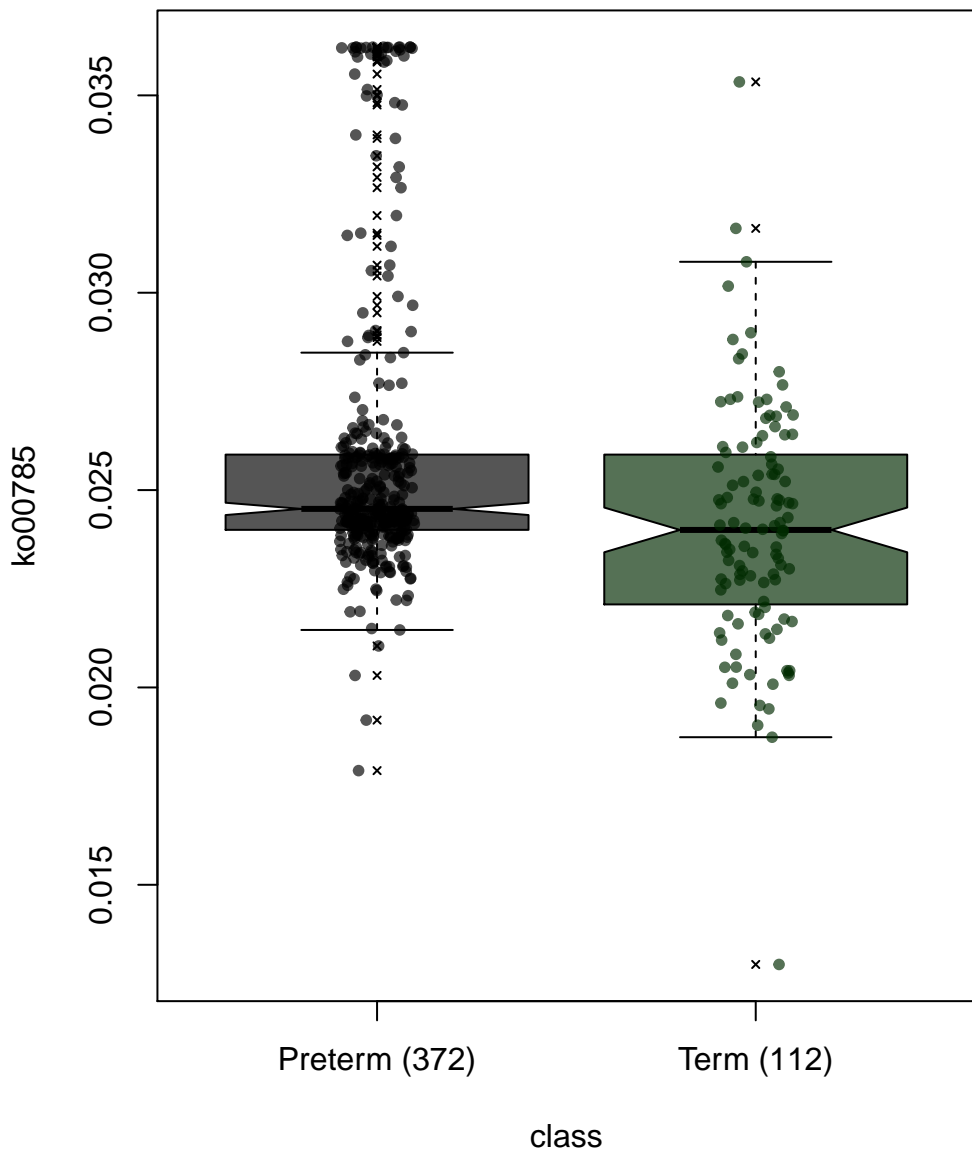
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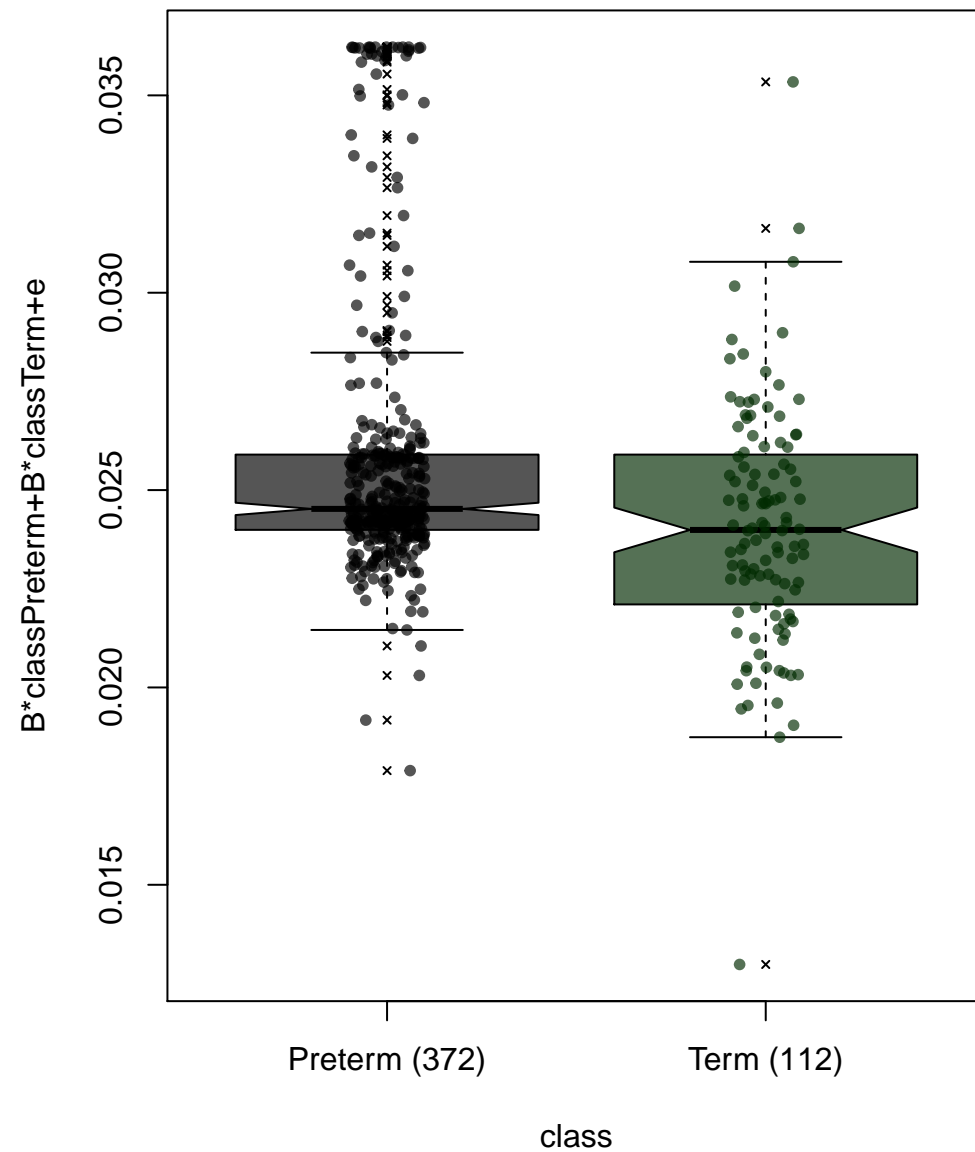
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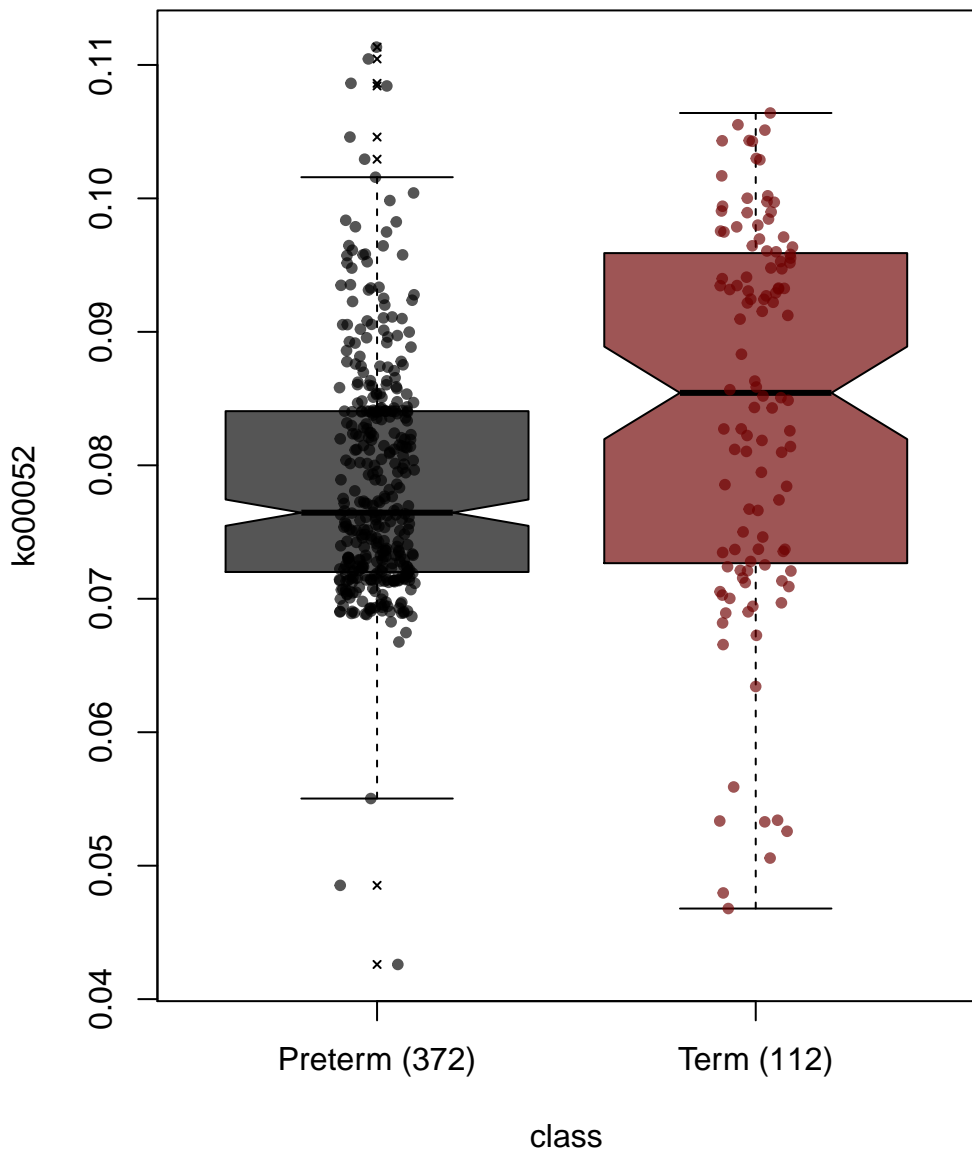
classTerm (-0.00178 sd 0.000377, p=3.21e-06, q=6.02e-06)



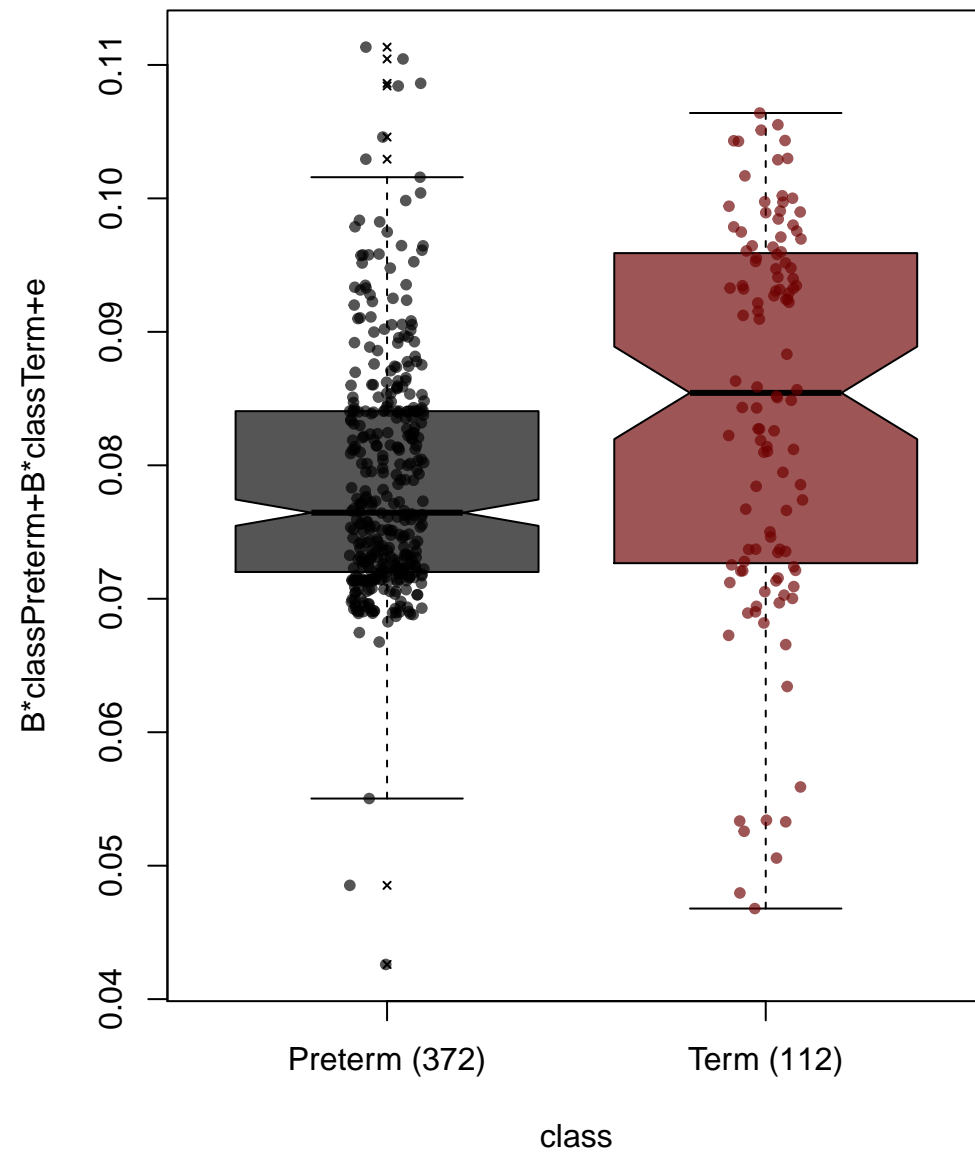
Partial Residual Plot



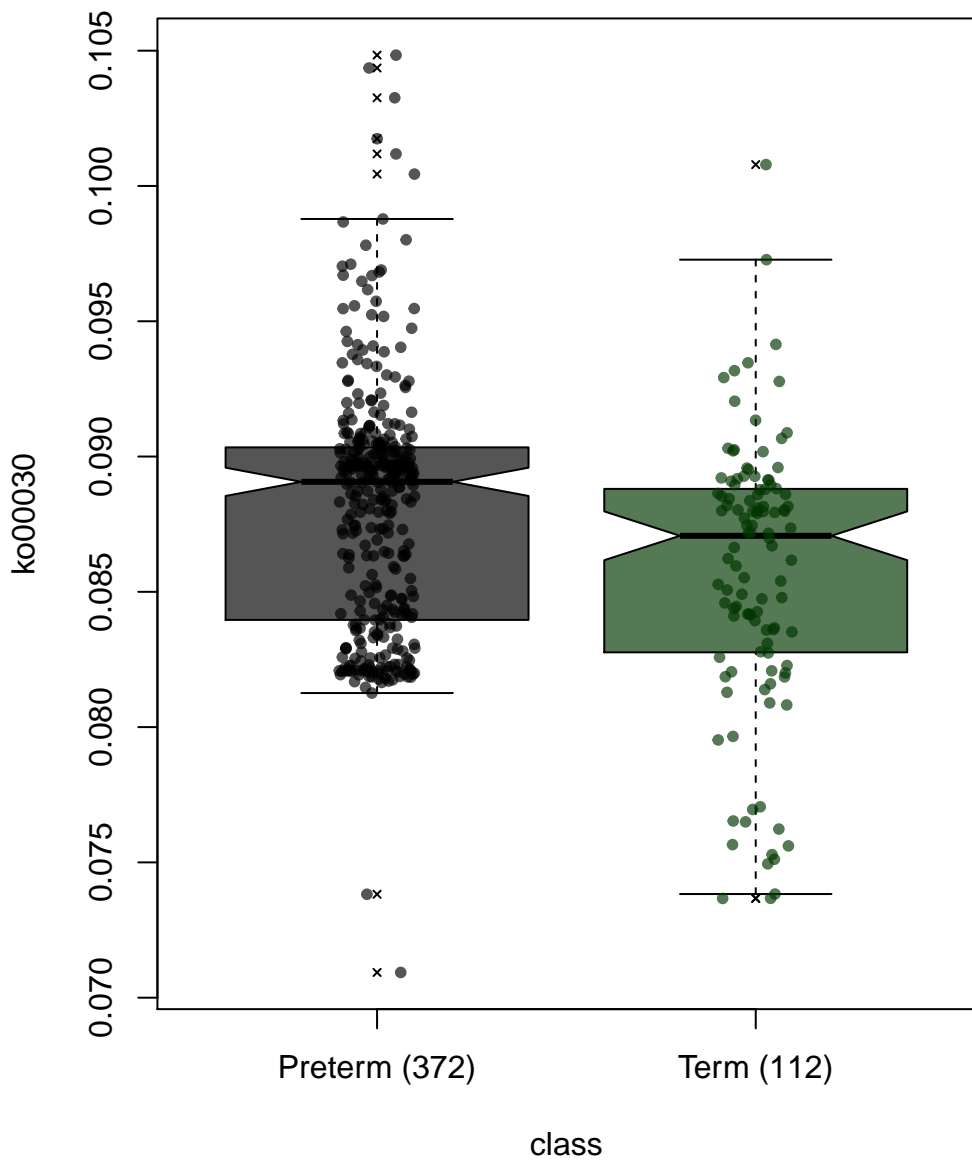
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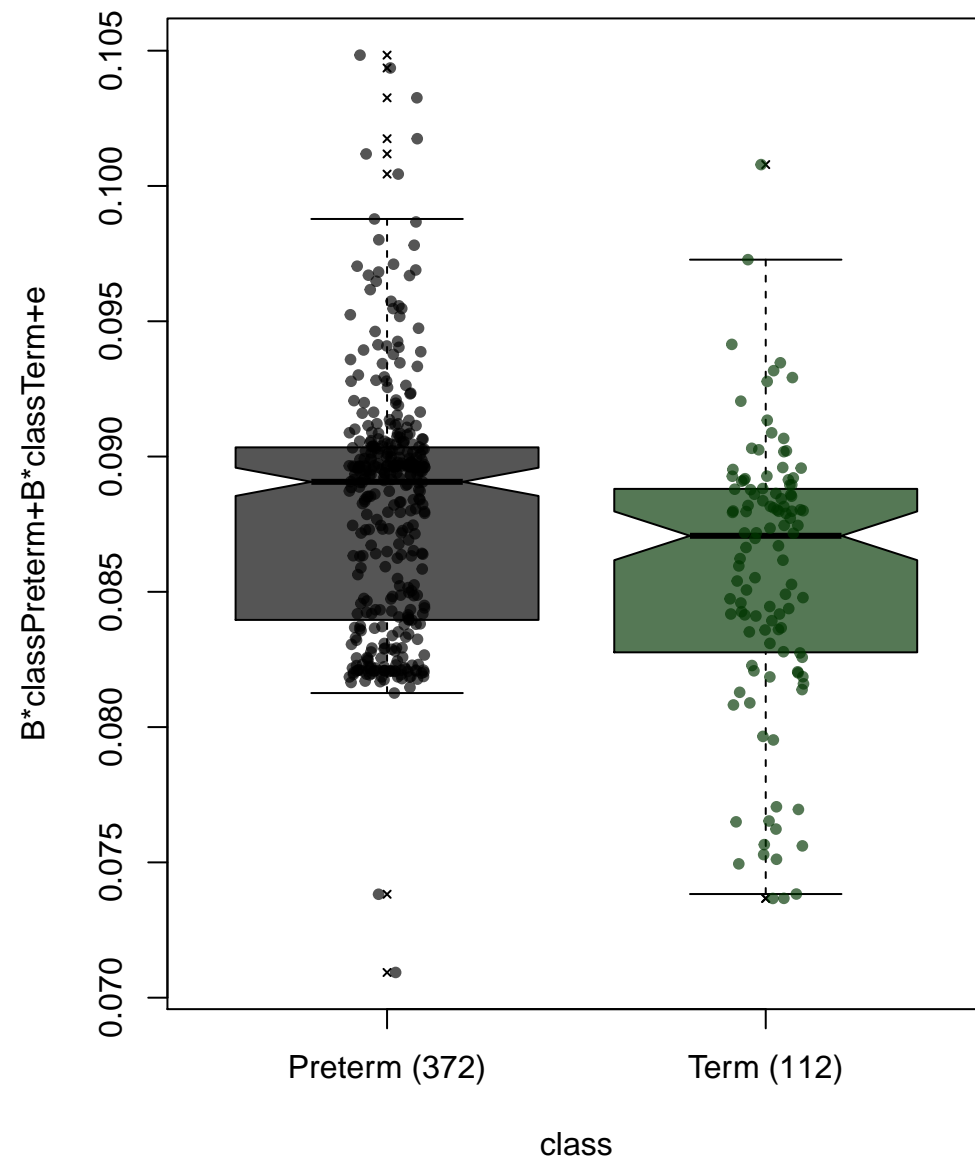
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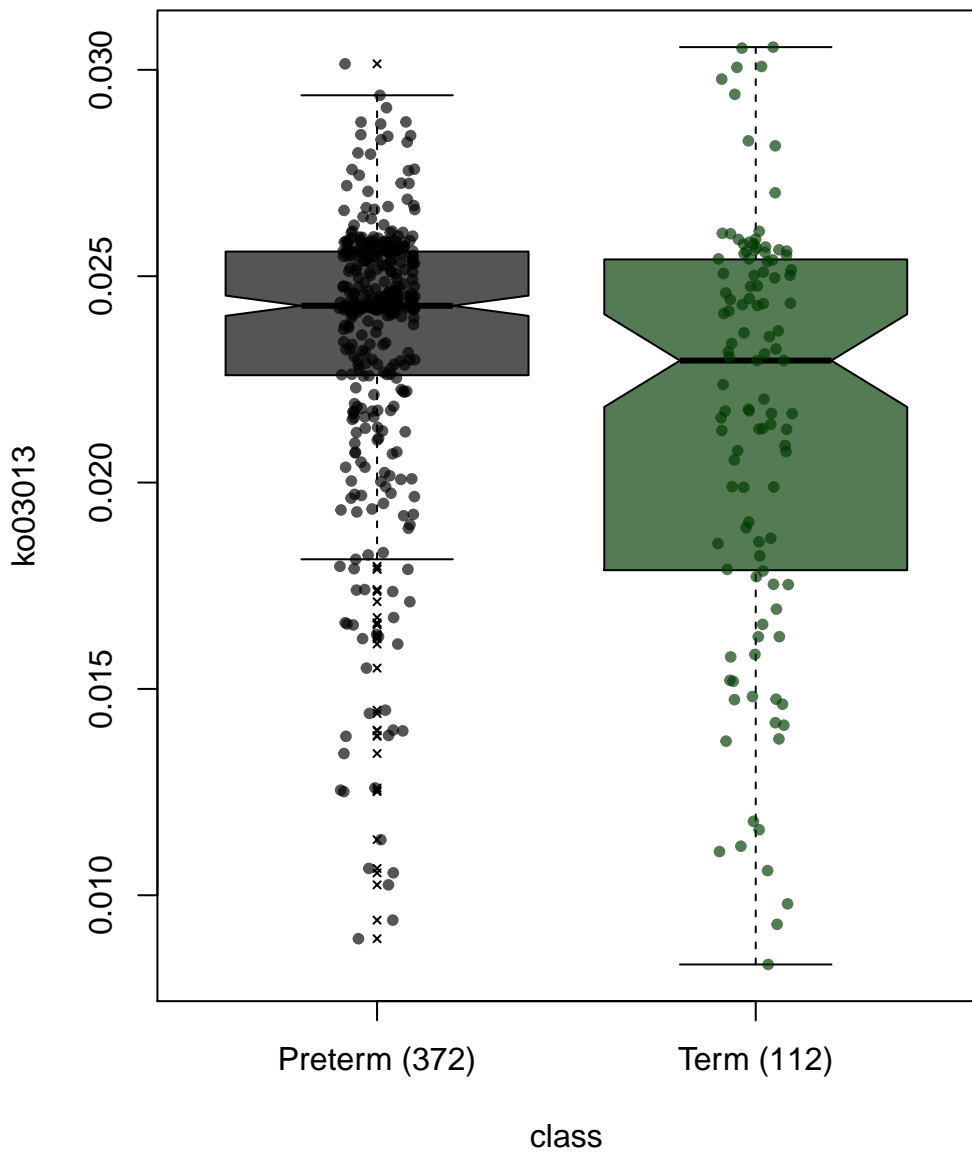
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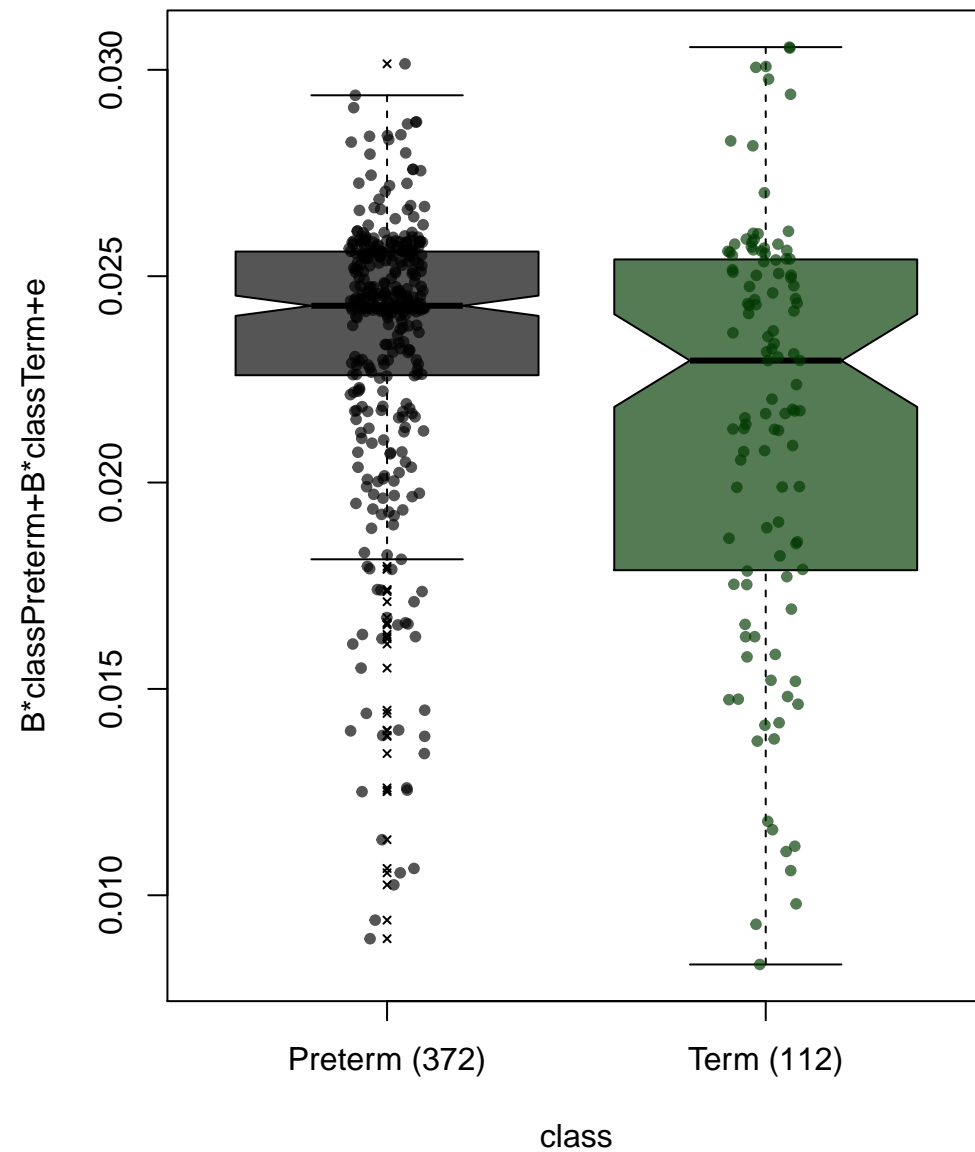
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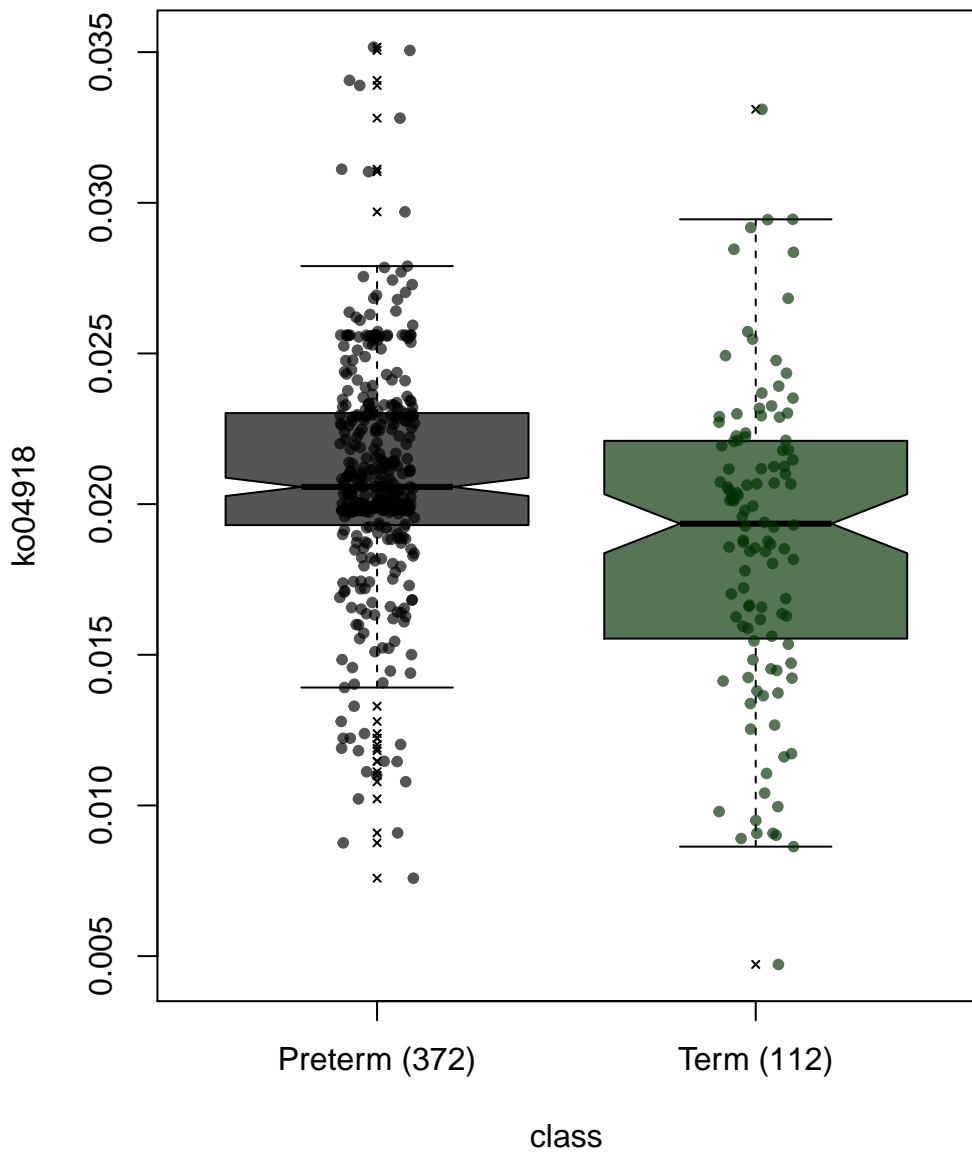
classTerm (−0.00196 sd 0.000421, p=4.24e−06, q=7.79e−06)



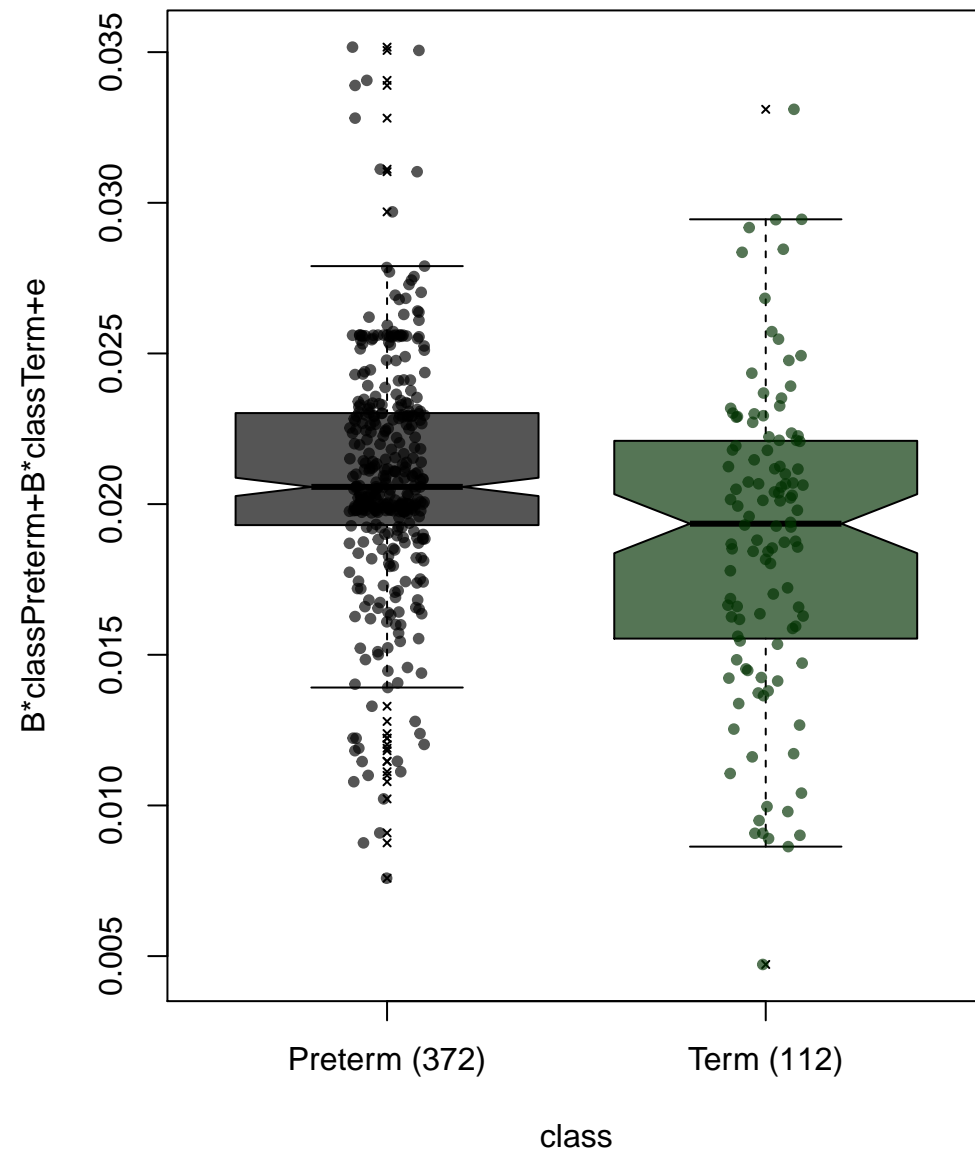
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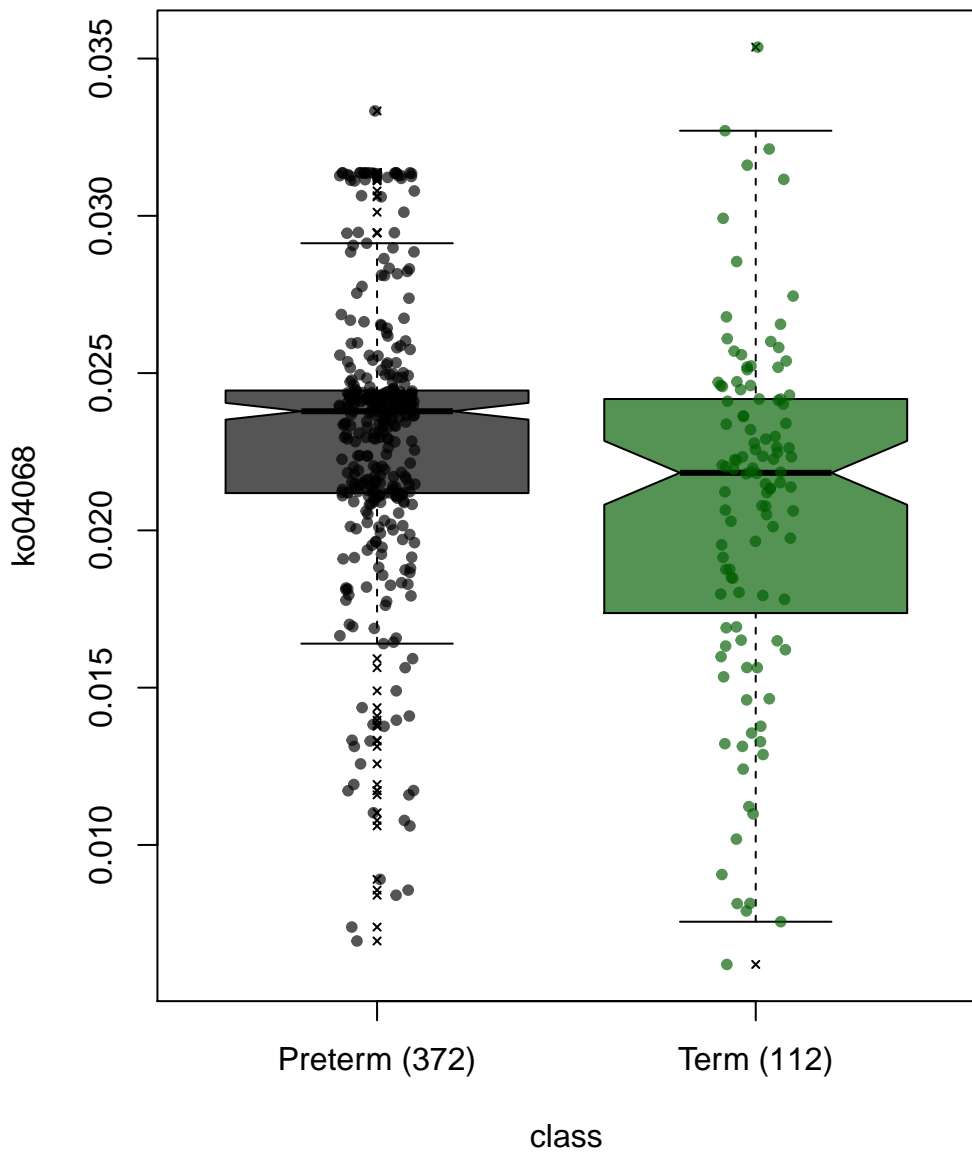
classTerm (-0.00213 sd 0.000459, p=4.27e-06, q=7.79e-06)



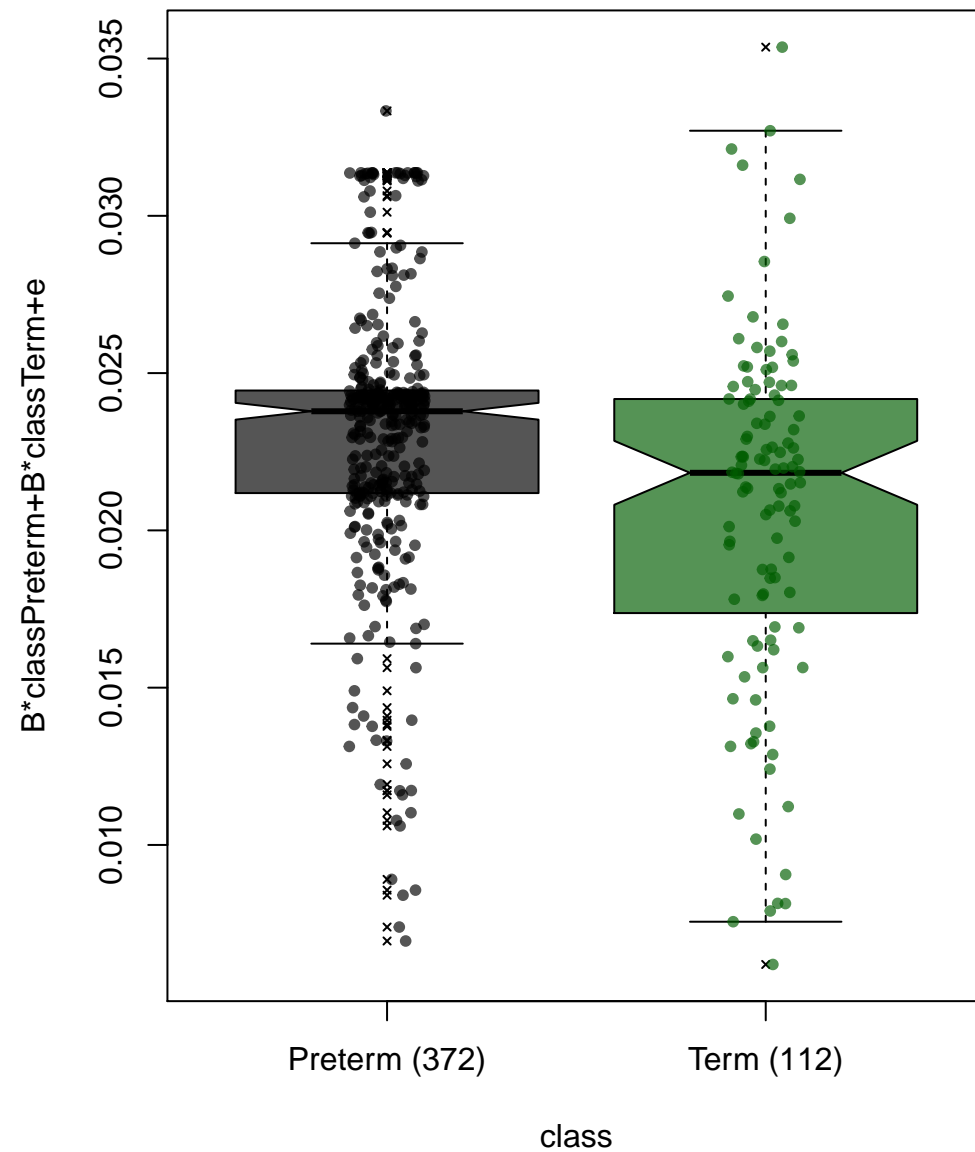
Partial Residual Plot



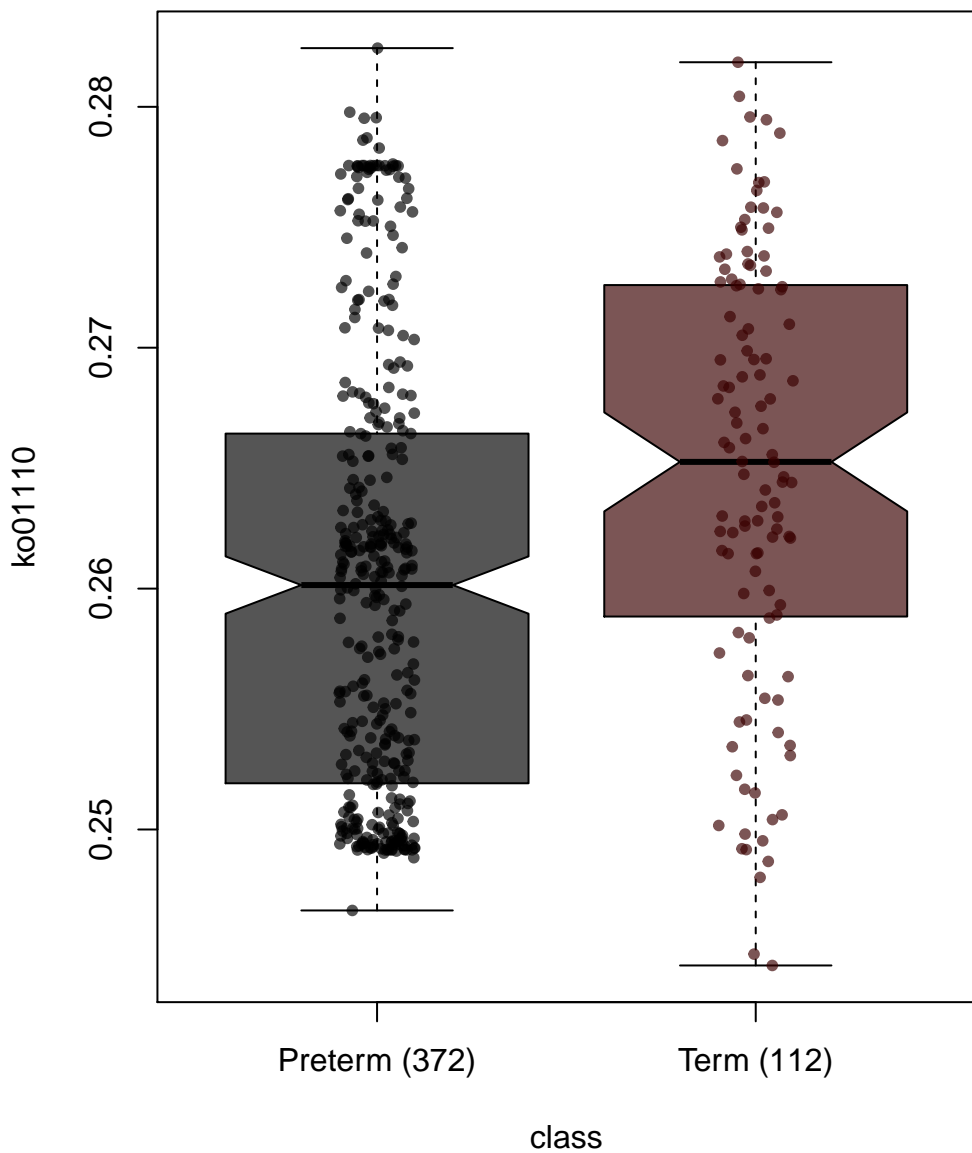
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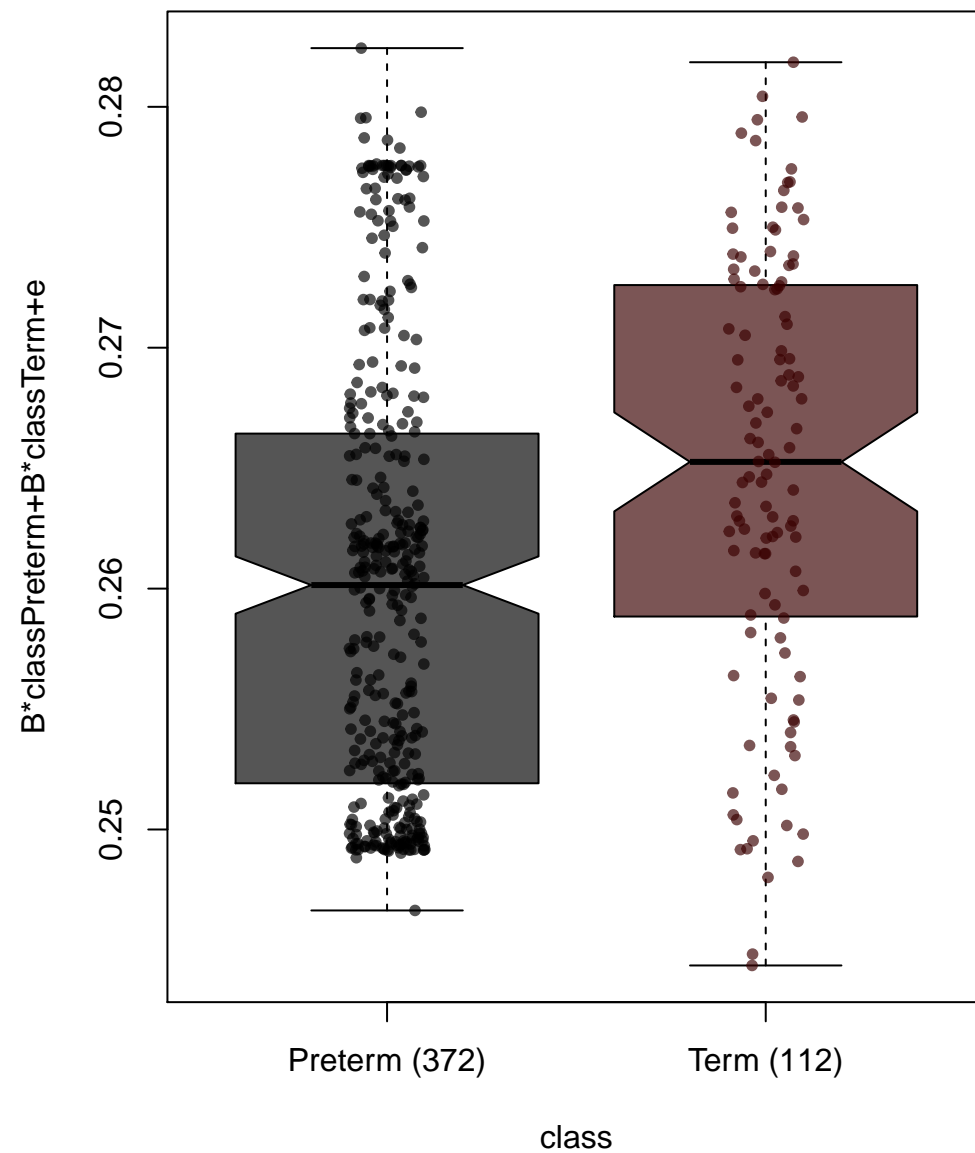
Partial Residual Plot



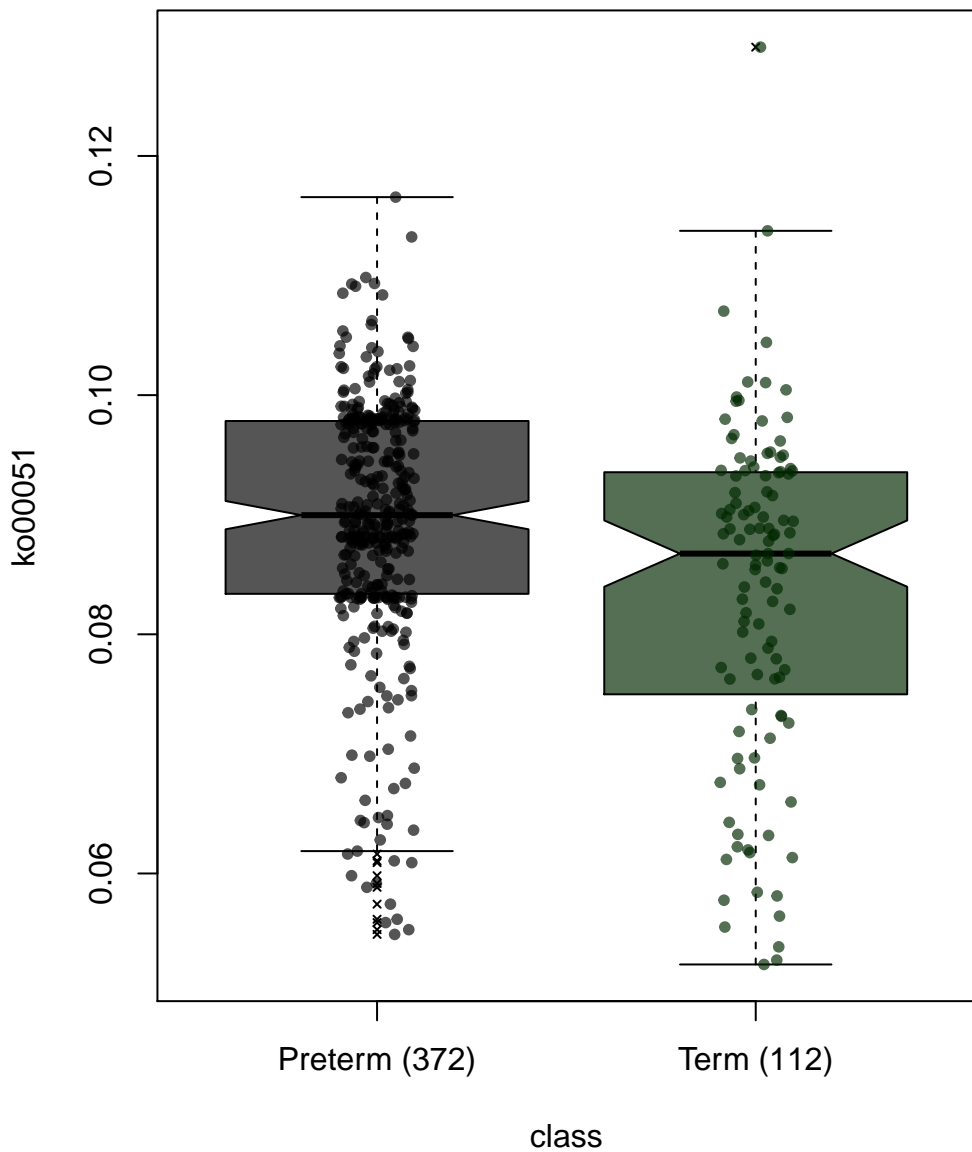
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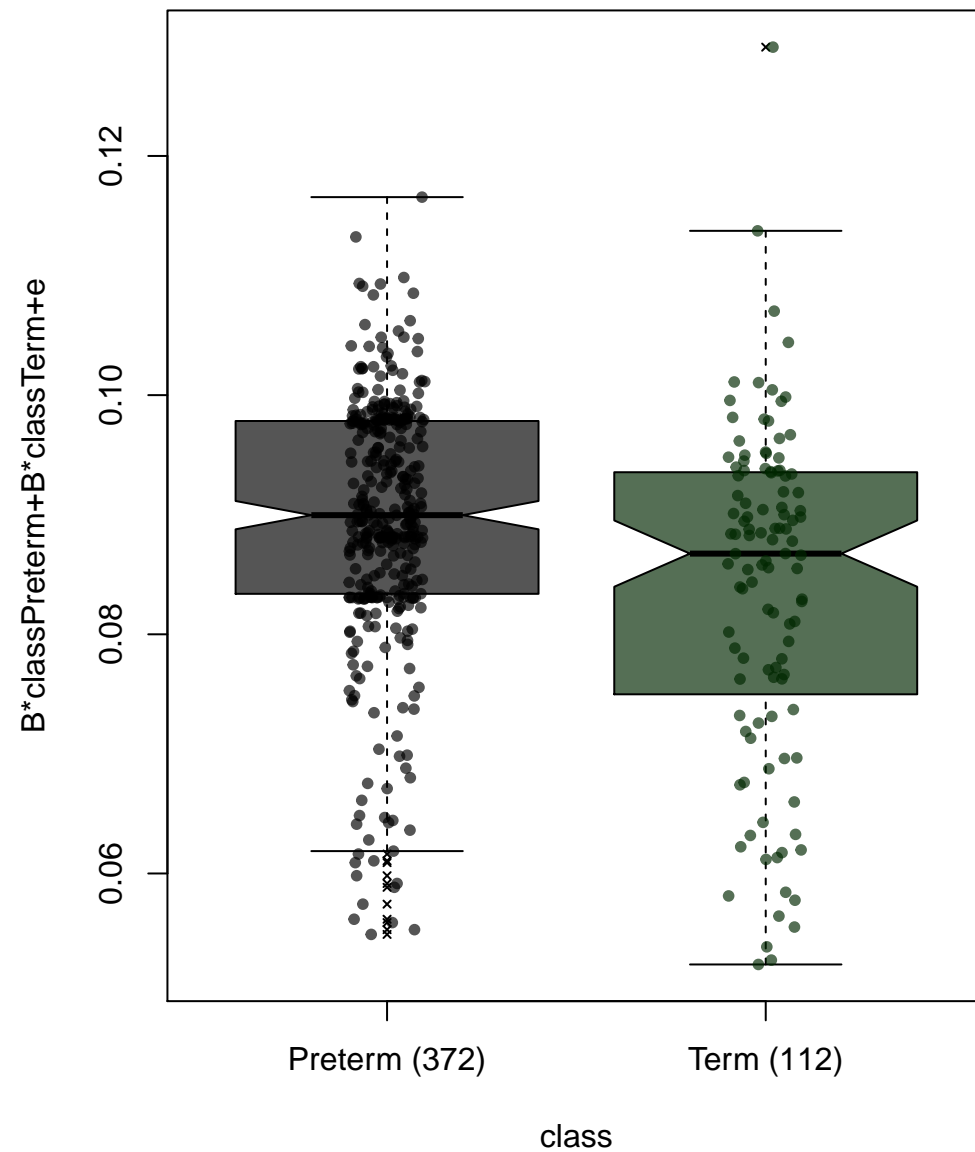
Partial Residual Plot



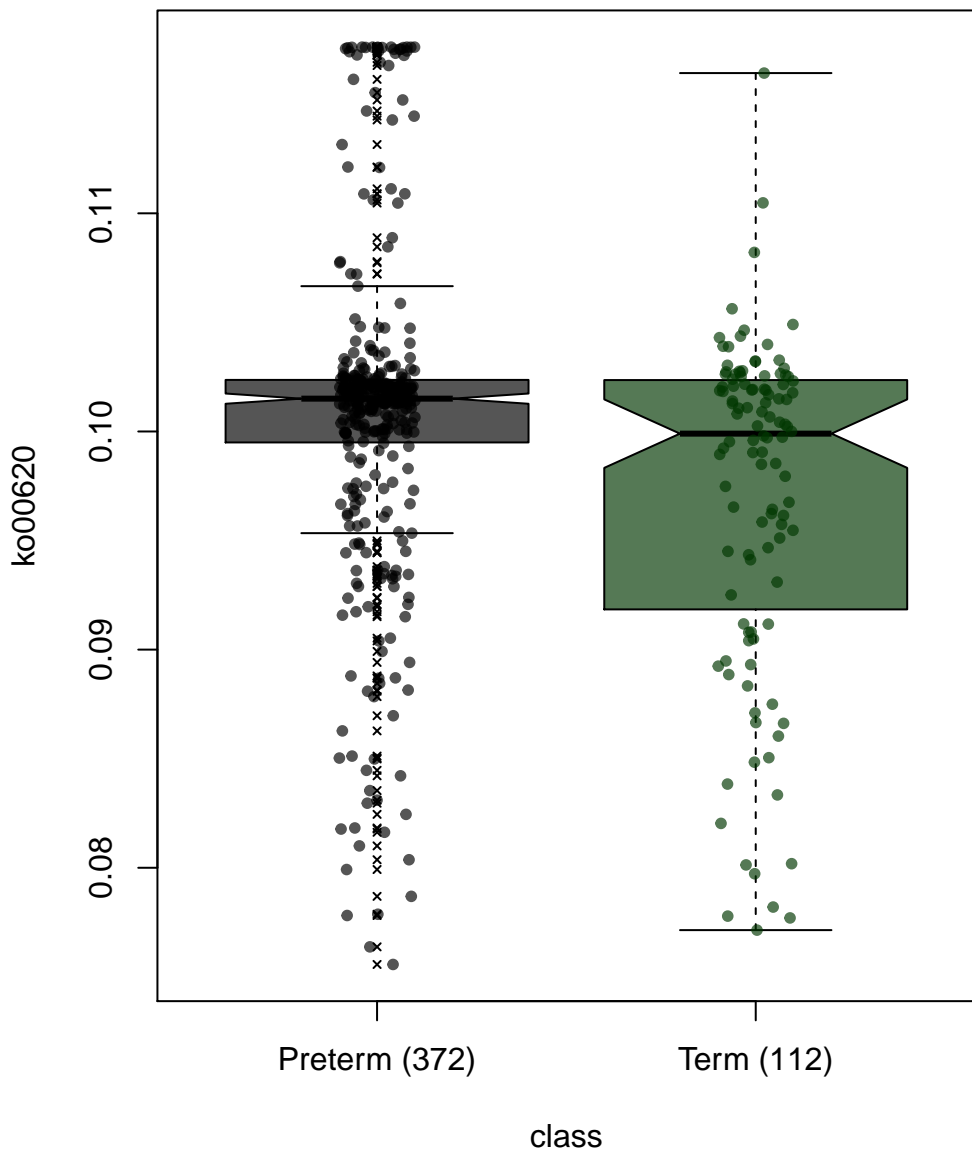
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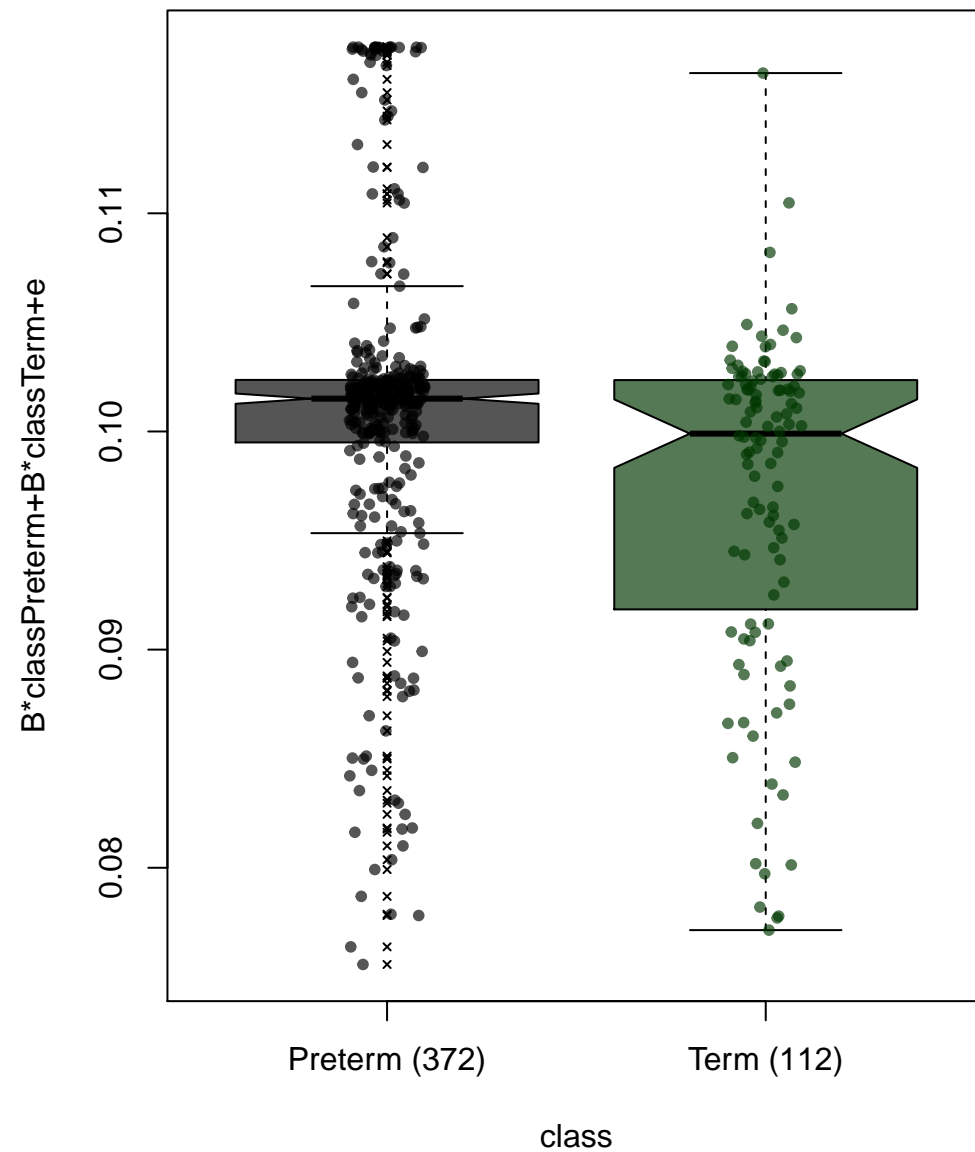
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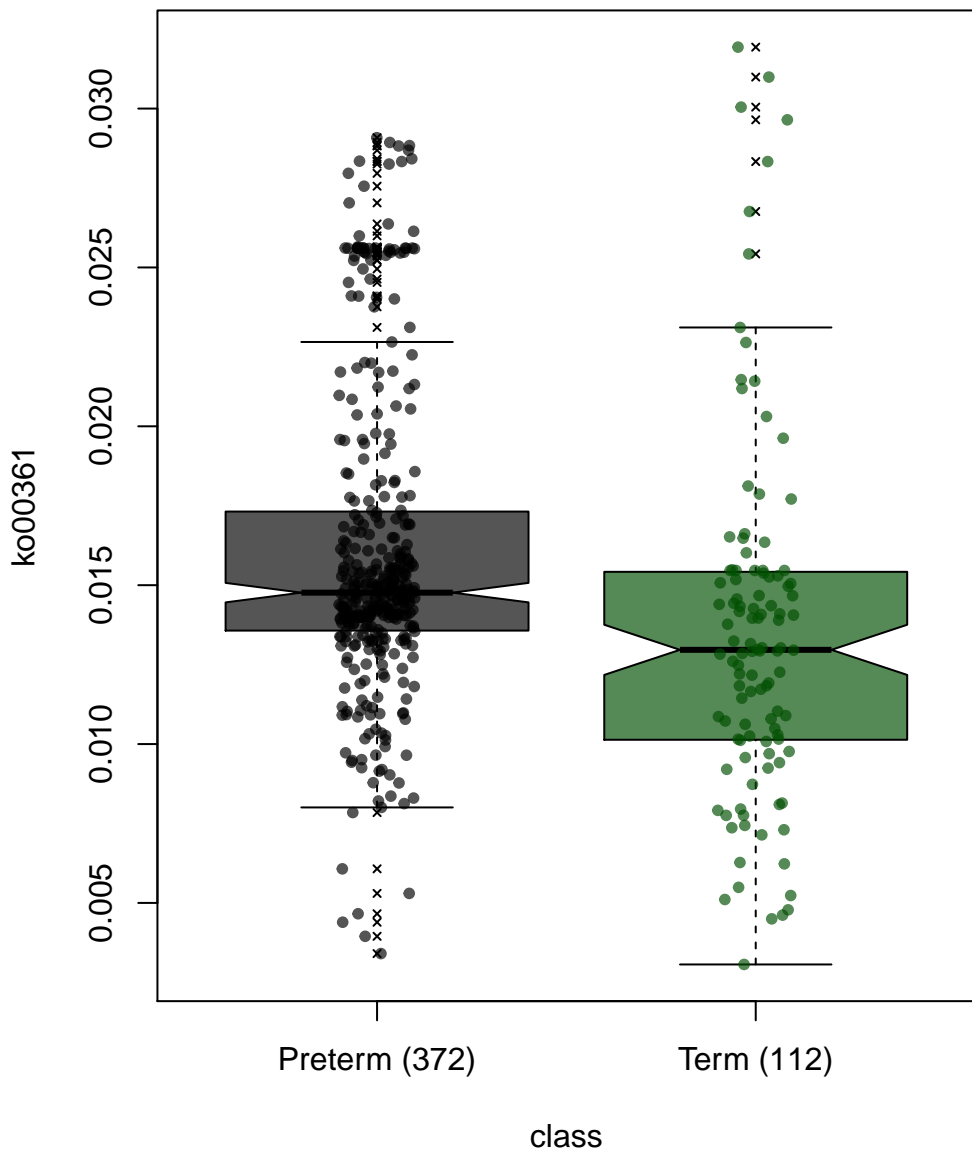
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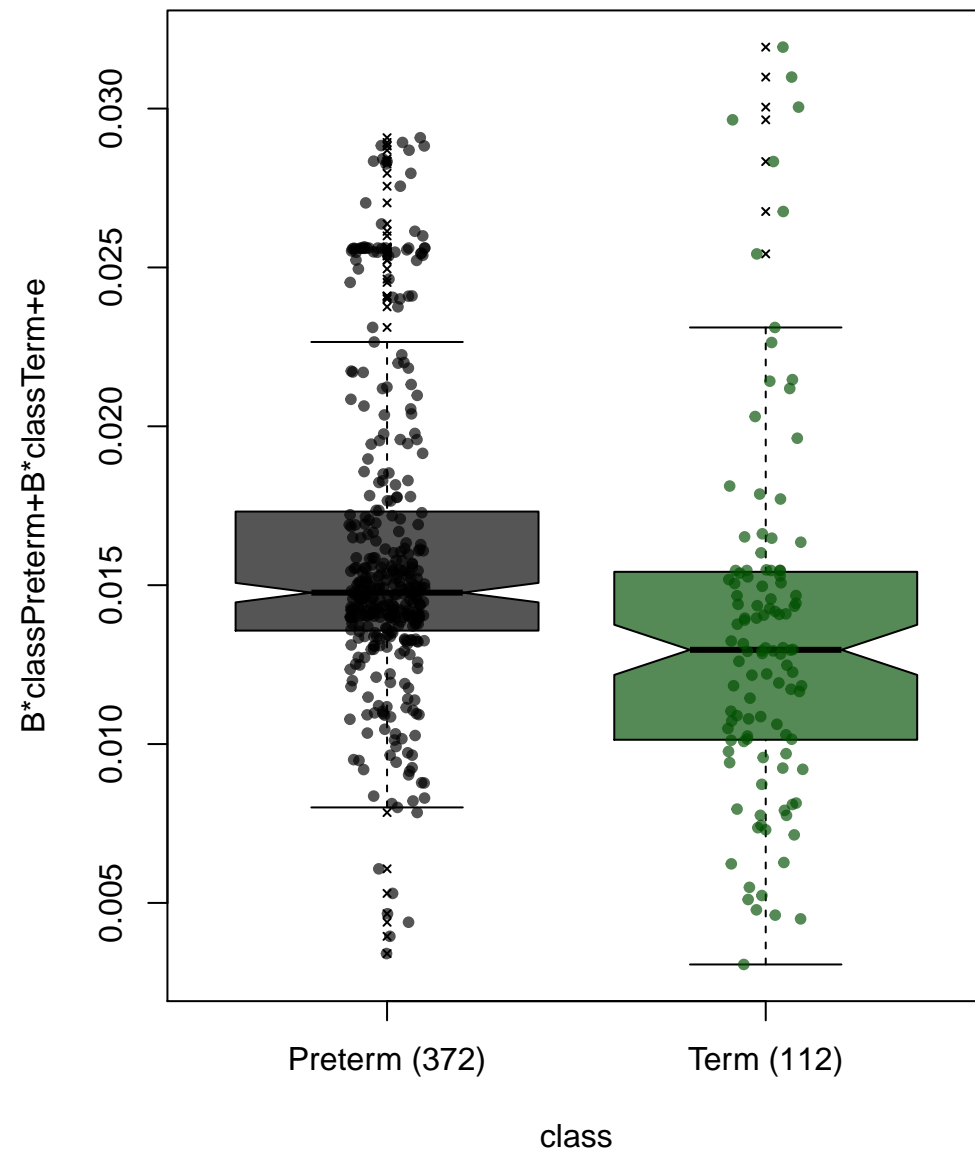
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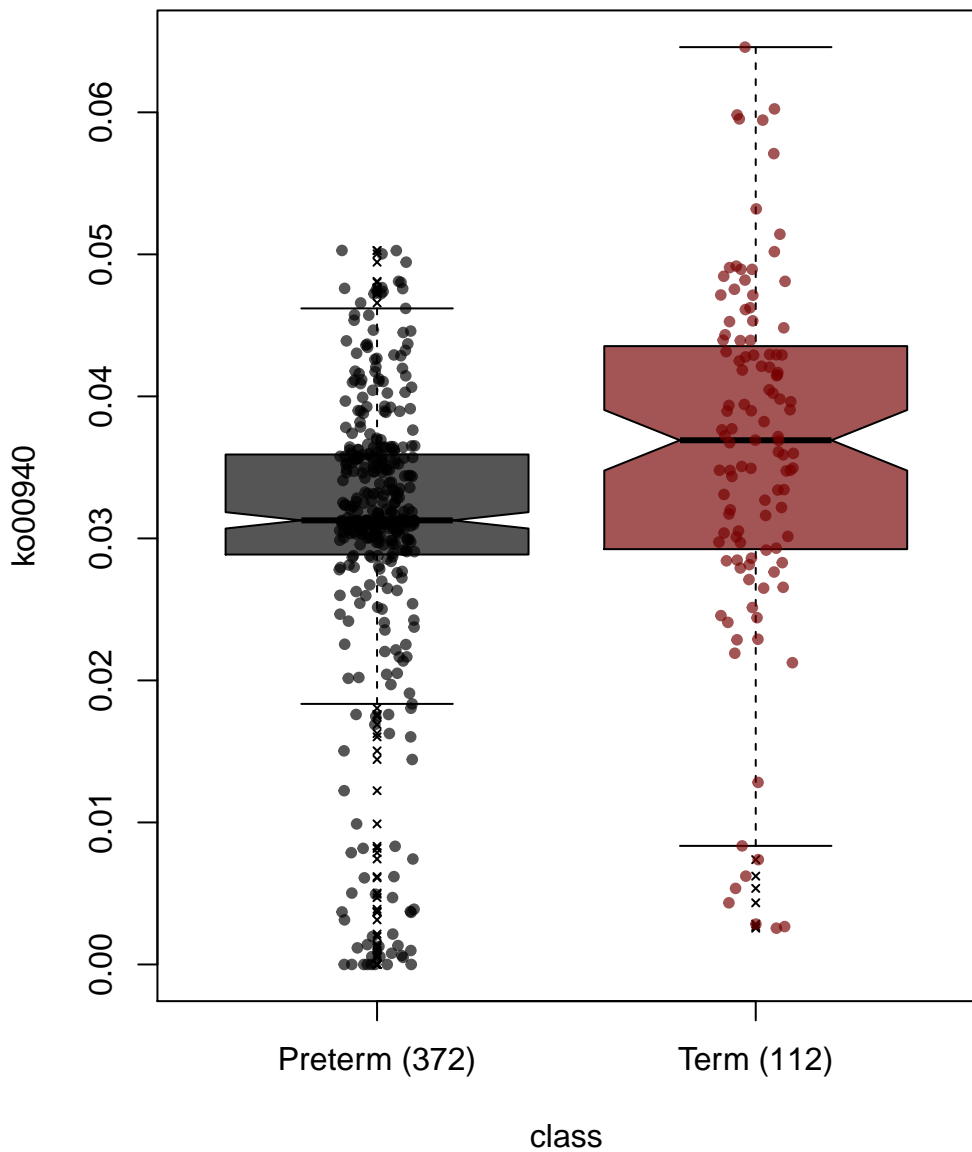
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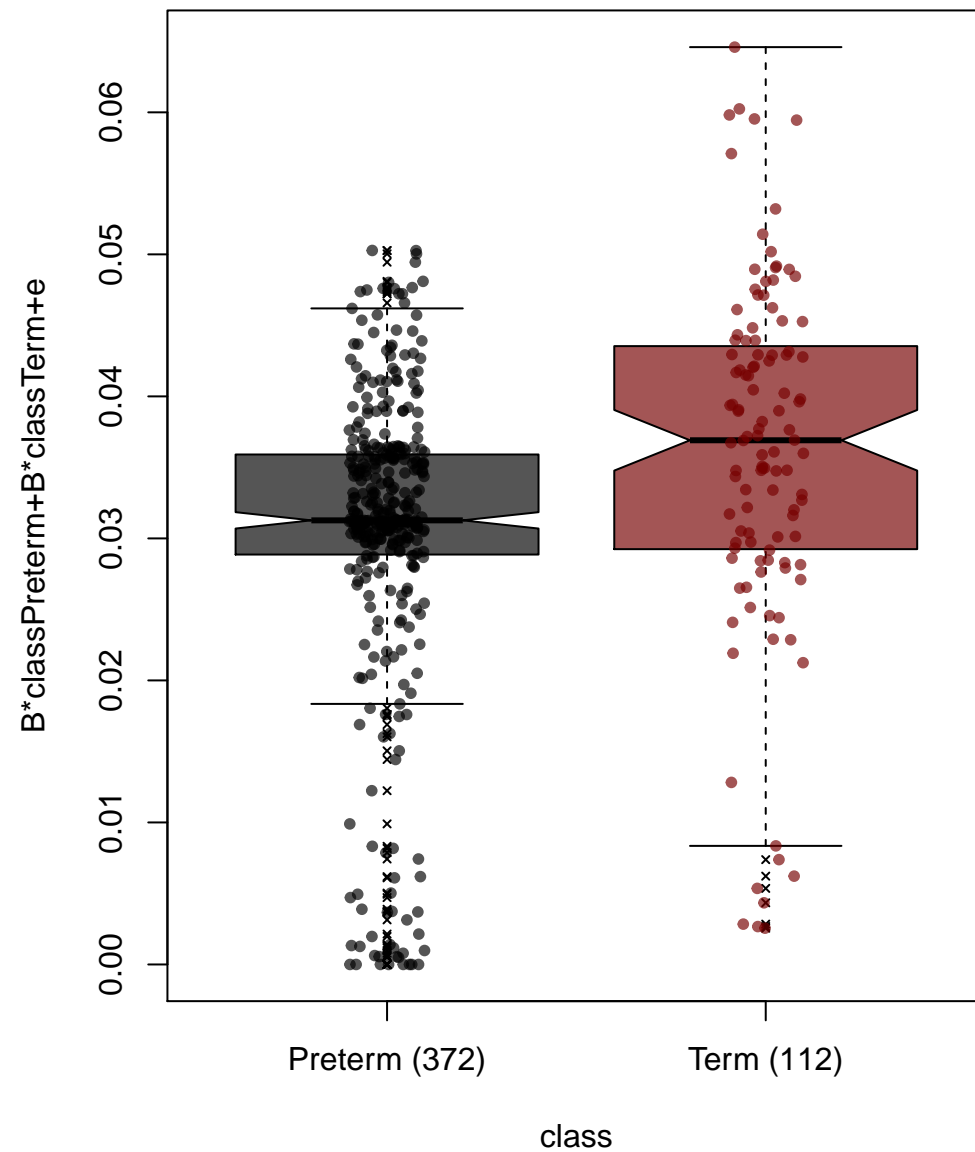
Partial Residual Plot



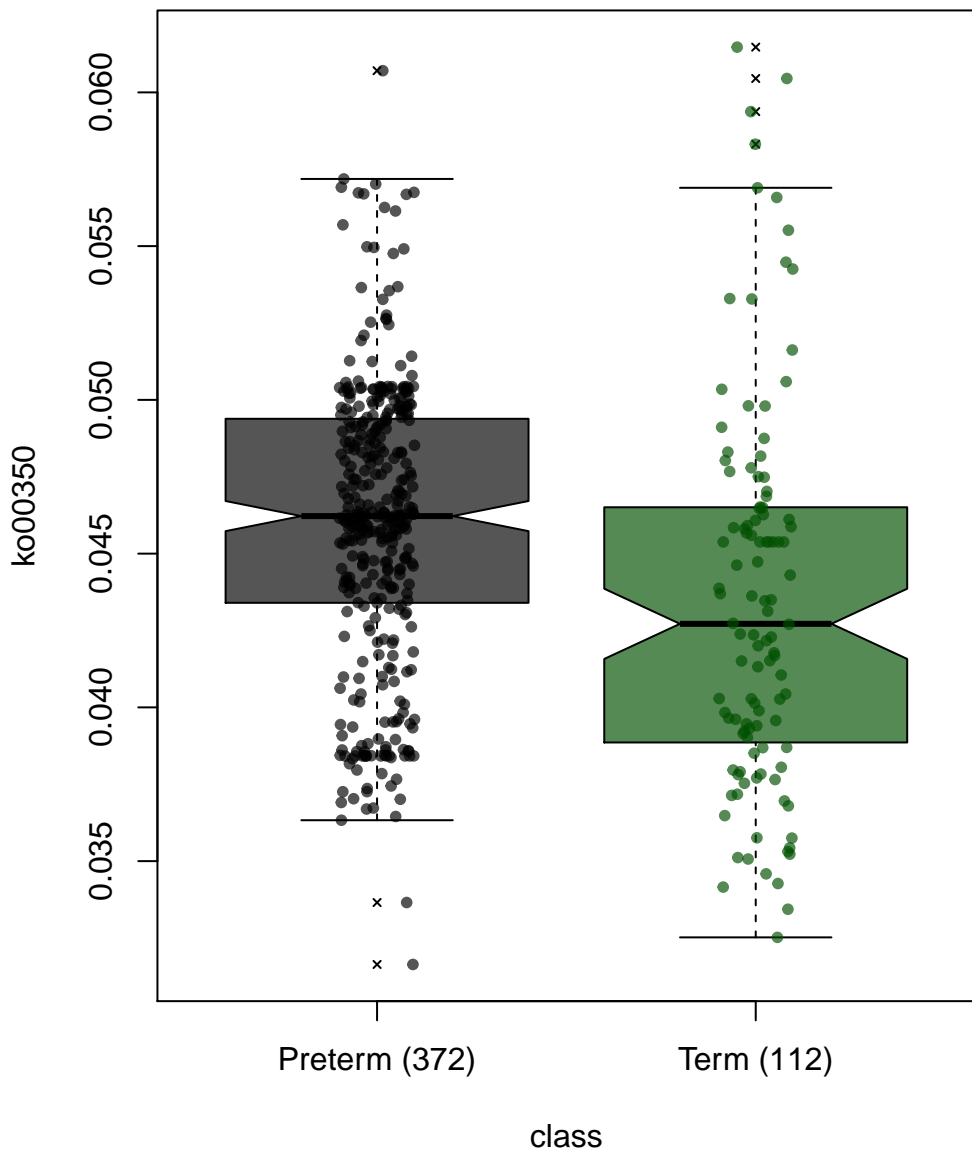
classTerm (0.00557 sd 0.00122, p=6.38e-06, q=1.12e-05)



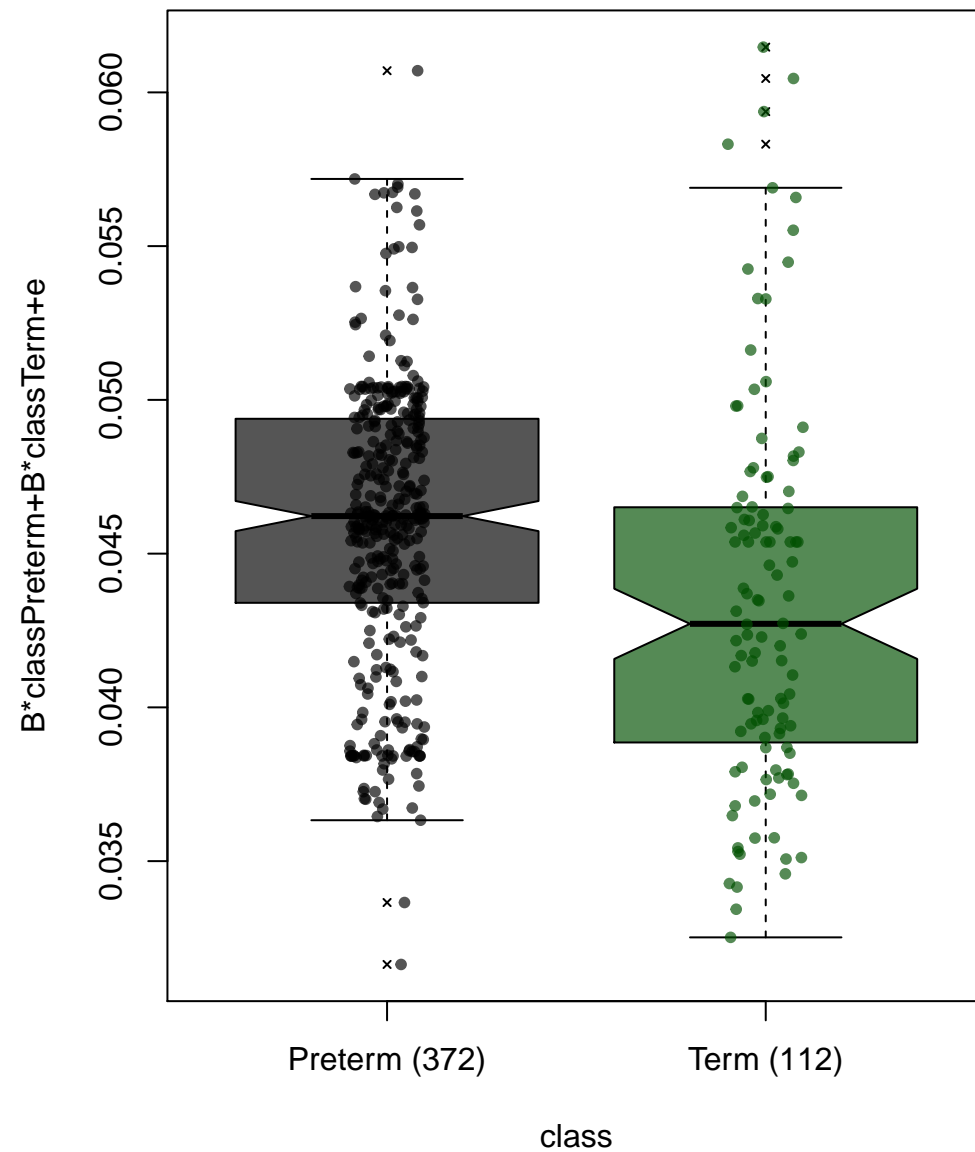
Partial Residual Plot



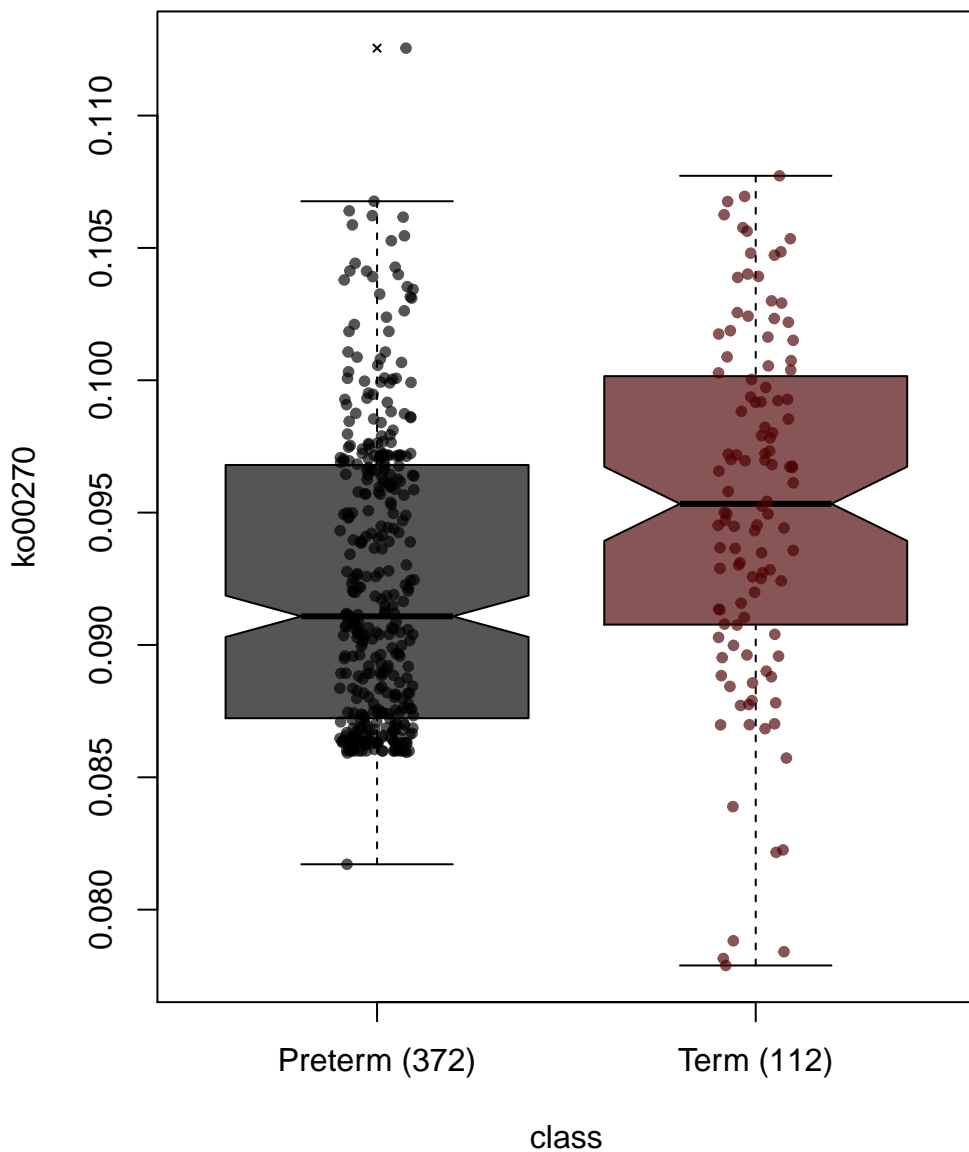
classTerm (-0.00248 sd 0.000547 , $p=7.12e-06$, $q=1.24e-05$)



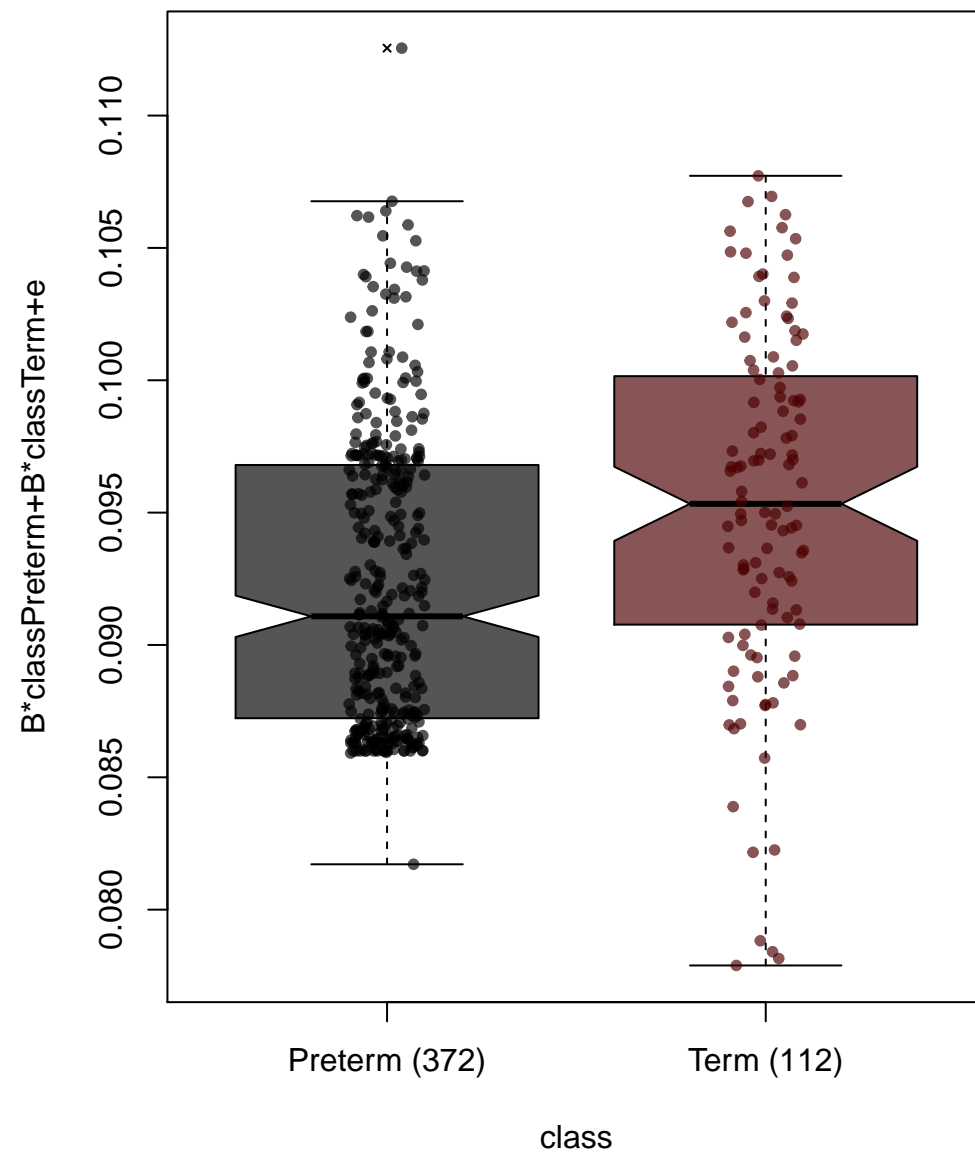
Partial Residual Plot



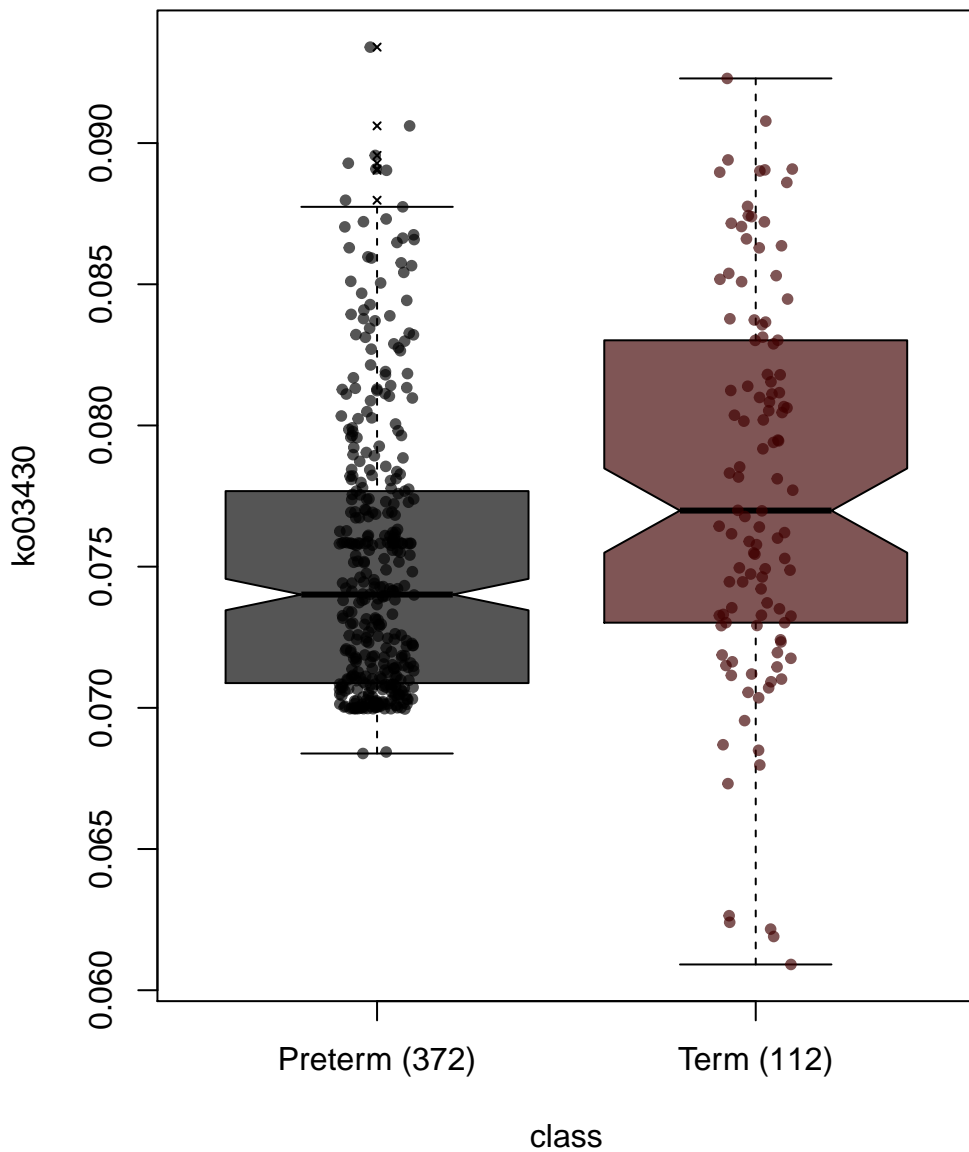
classTerm (0.00282 sd 0.000627, p=8.59e-06, q=1.49e-05)



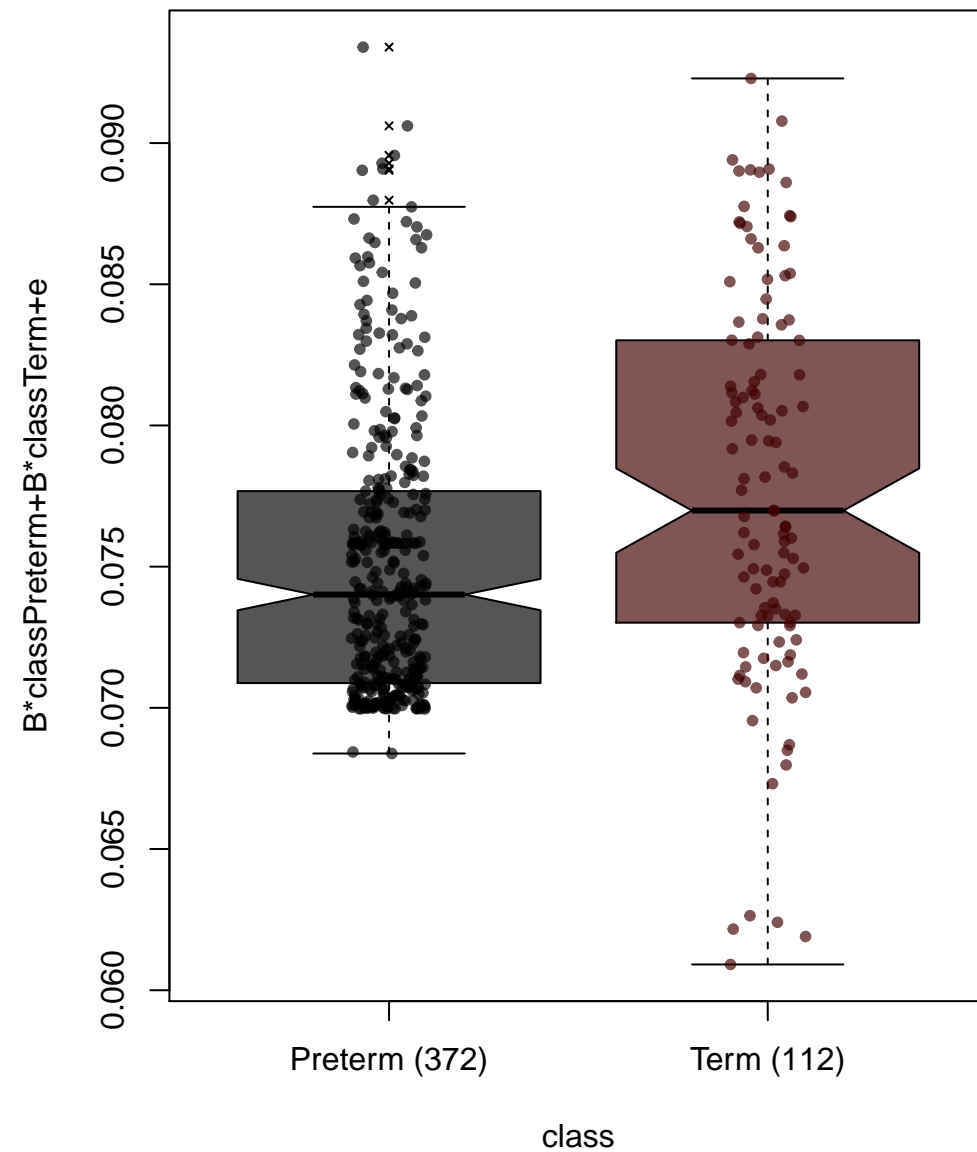
Partial Residual Plot



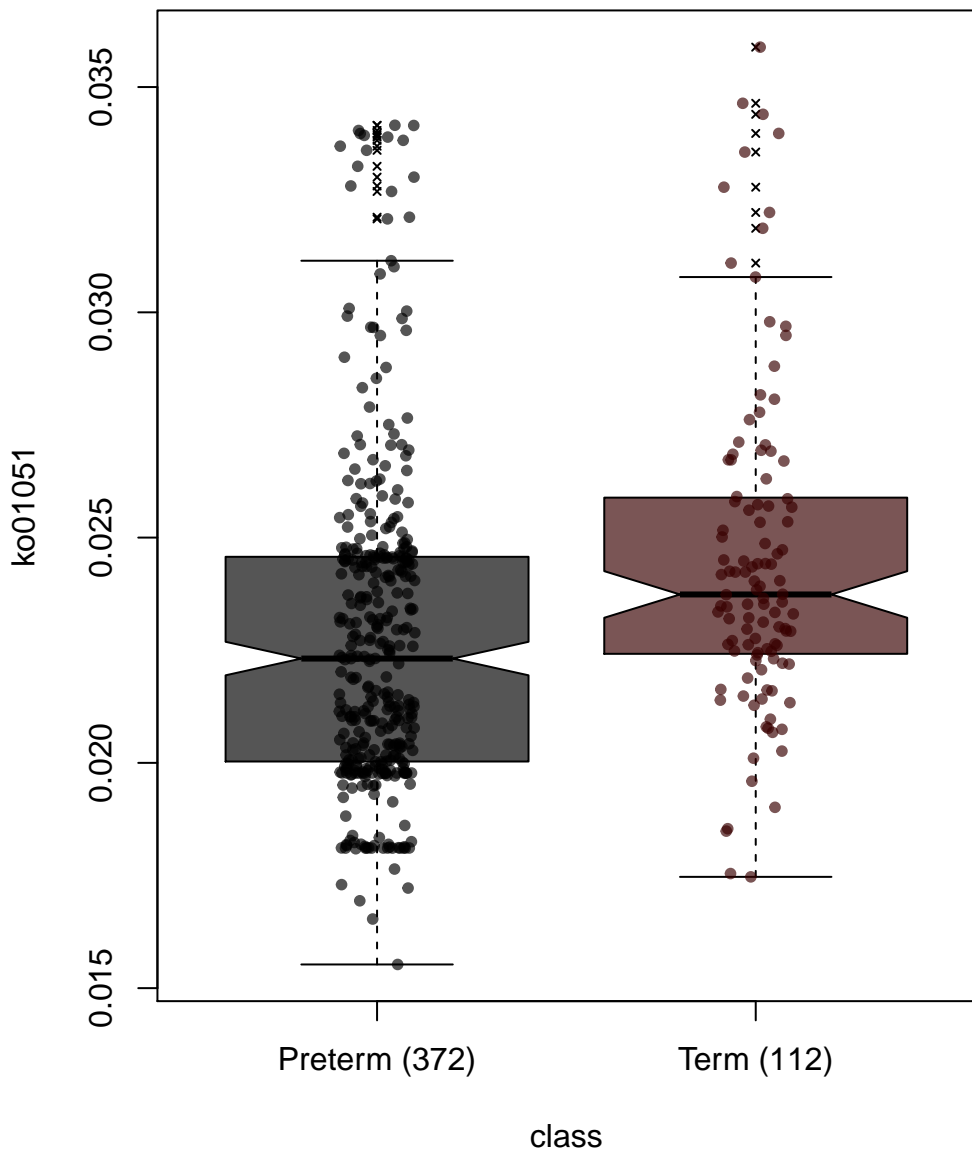
classTerm (0.00263 sd 0.00059, p=1.04e-05, q=1.8e-05)



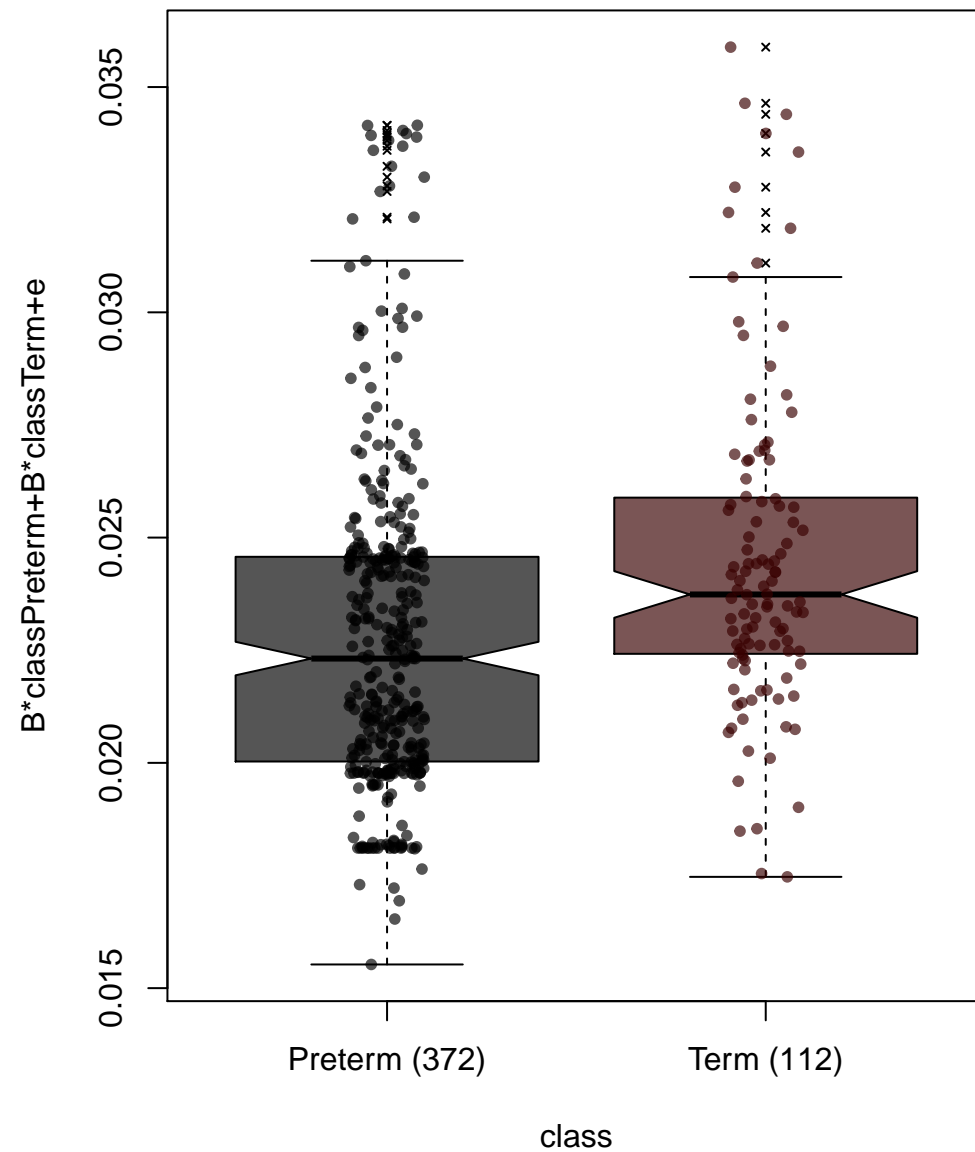
Partial Residual Plot



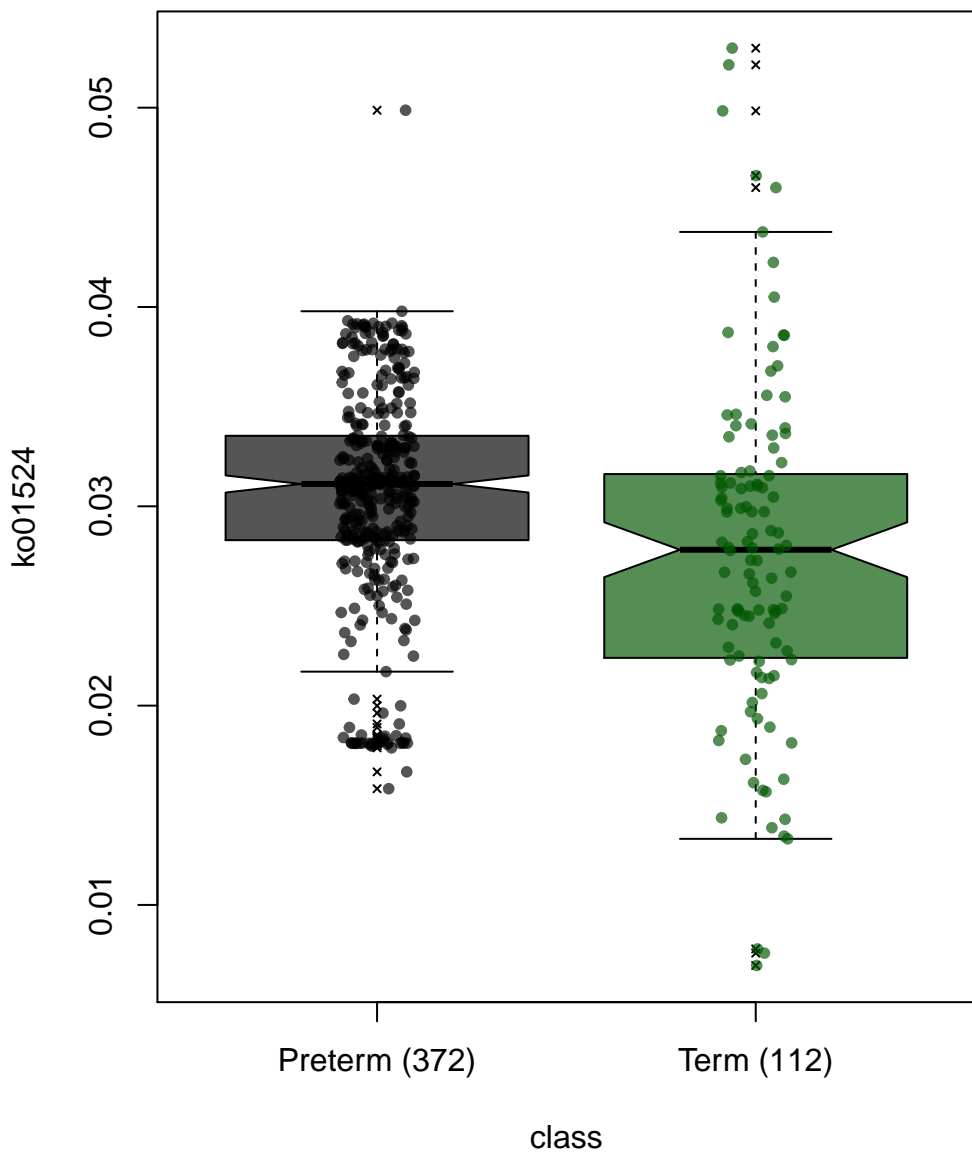
classTerm (0.00173 sd 0.00039, p=1.1e-05, q=1.89e-05)



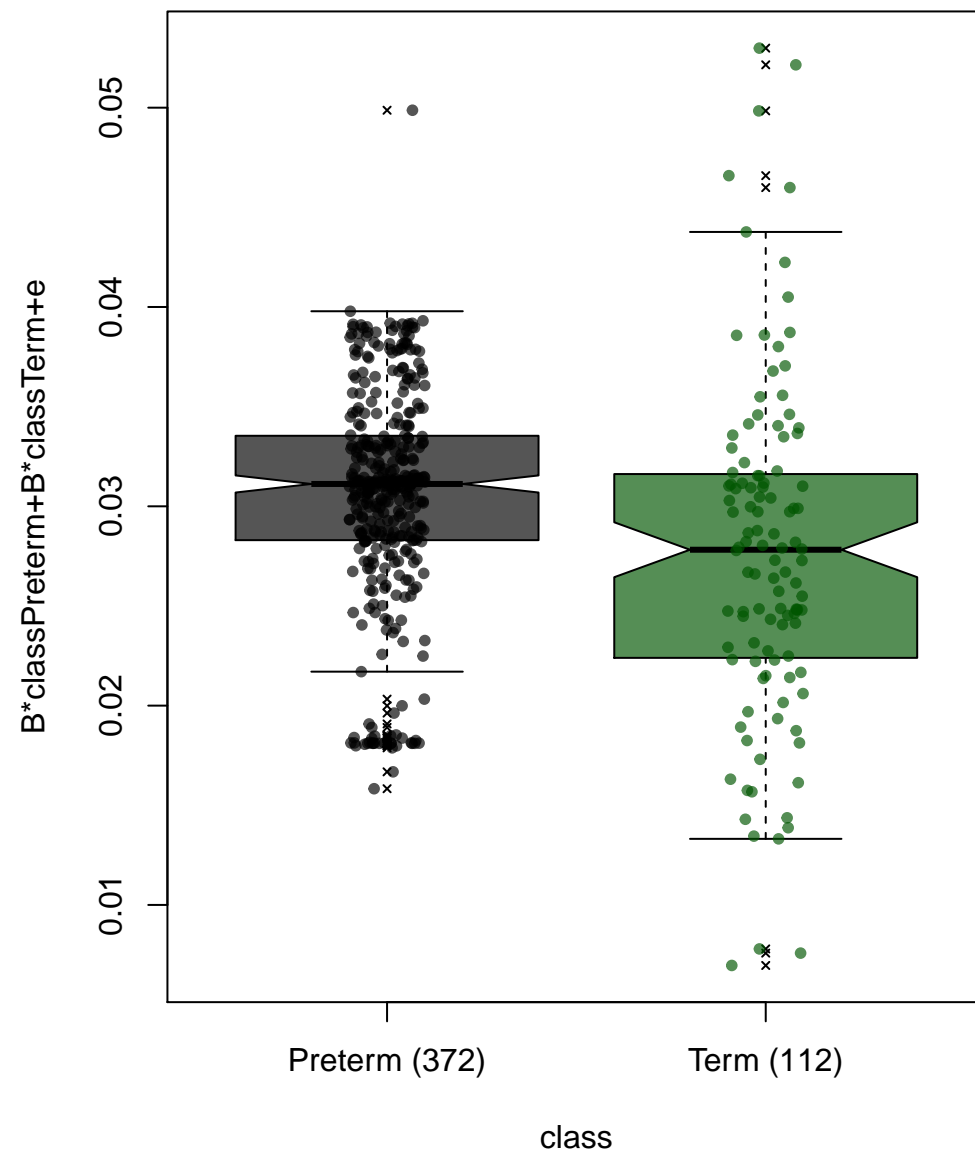
Partial Residual Plot



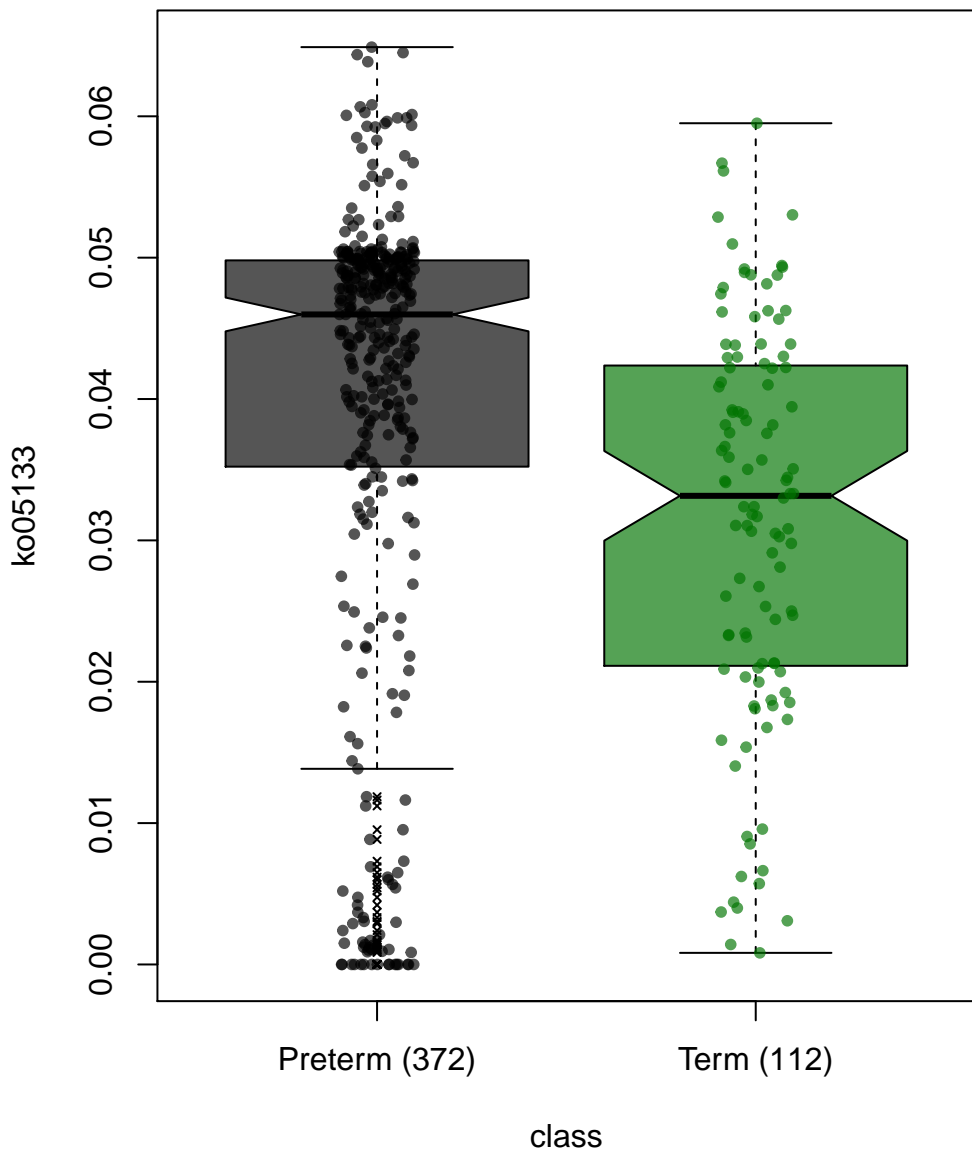
classTerm (-0.003 sd 0.000685 , $p=1.48e-05$, $q=2.51e-05$)



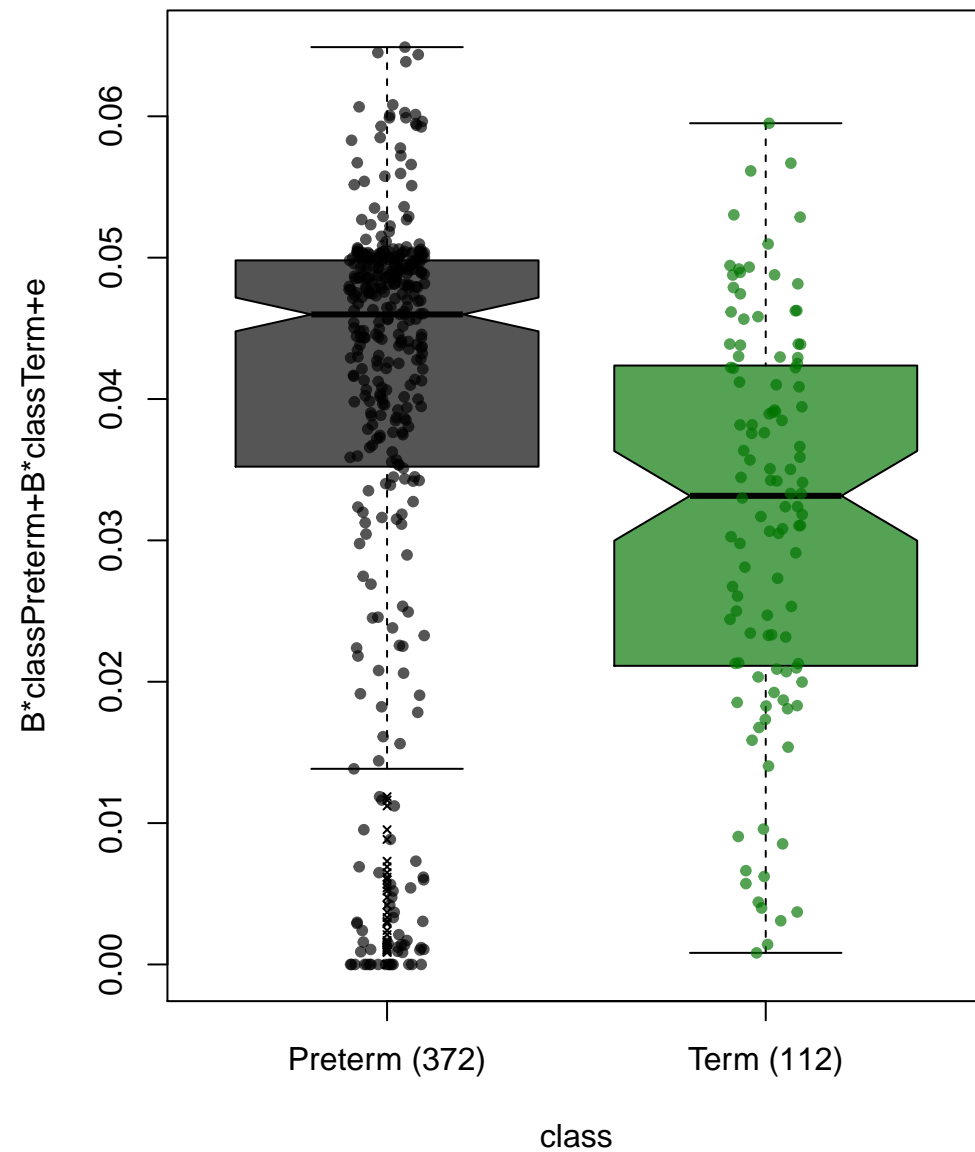
Partial Residual Plot



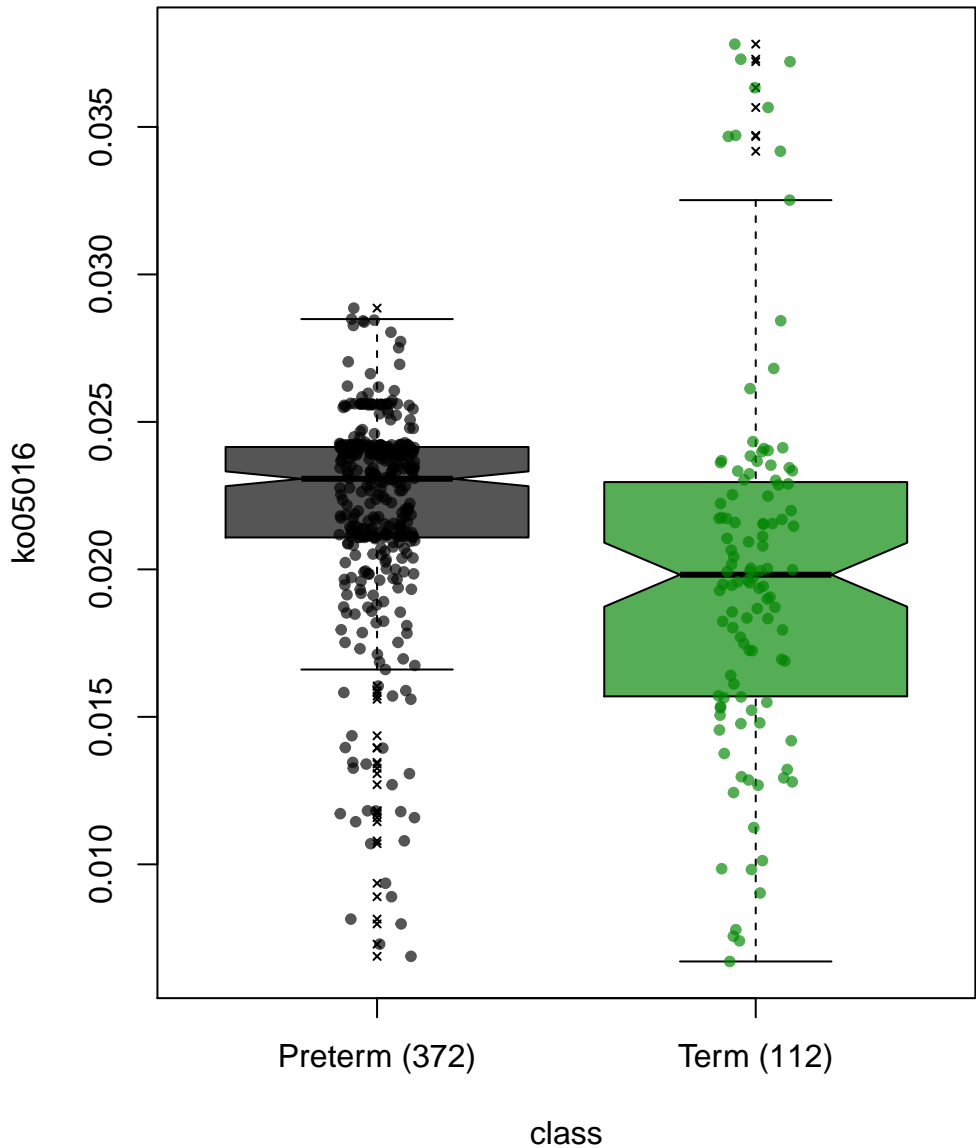
classTerm (-0.00762 sd 0.00175 , $p=1.56e-05$, $q=2.64e-05$)



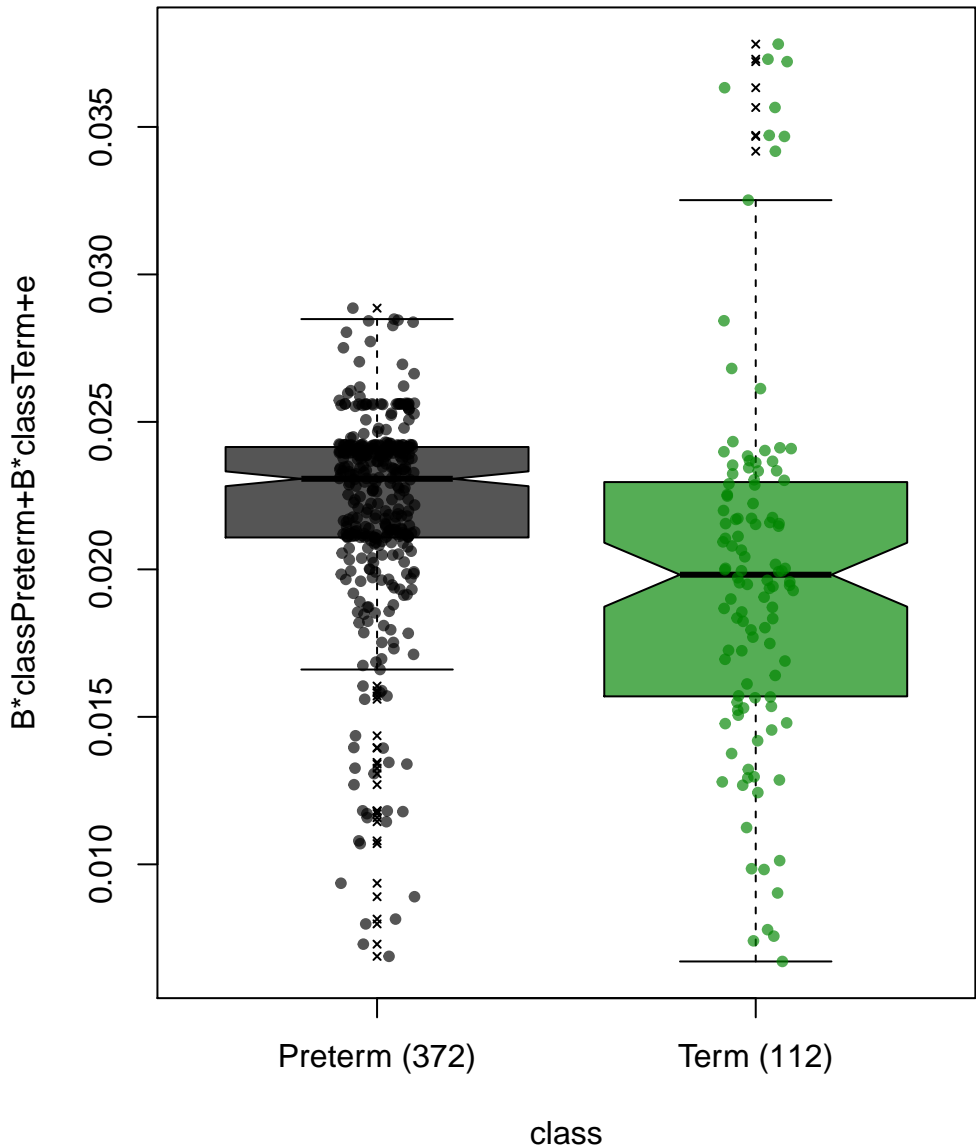
Partial Residual Plot



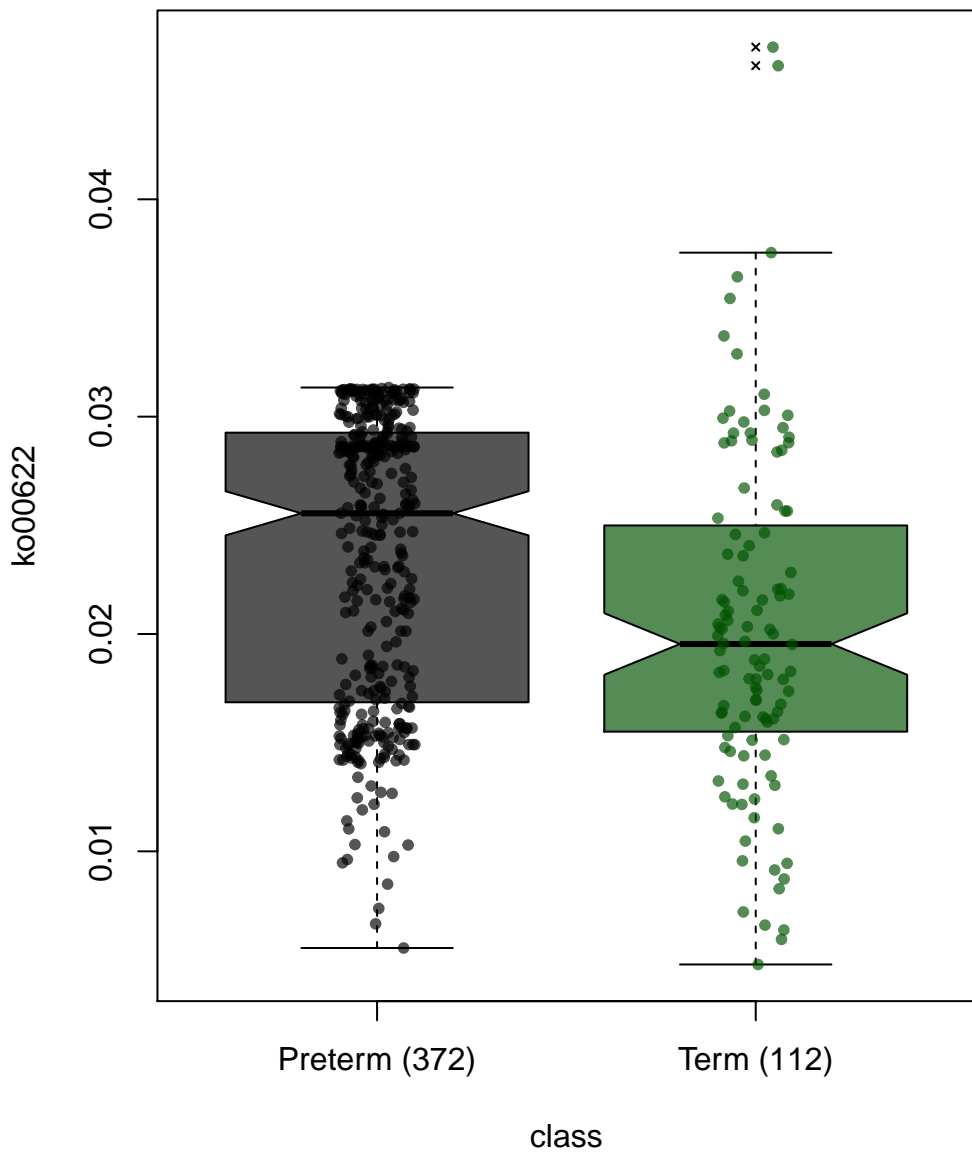
classTerm (-0.00206 sd 0.000476, p=1.78e-05, q=3e-05)



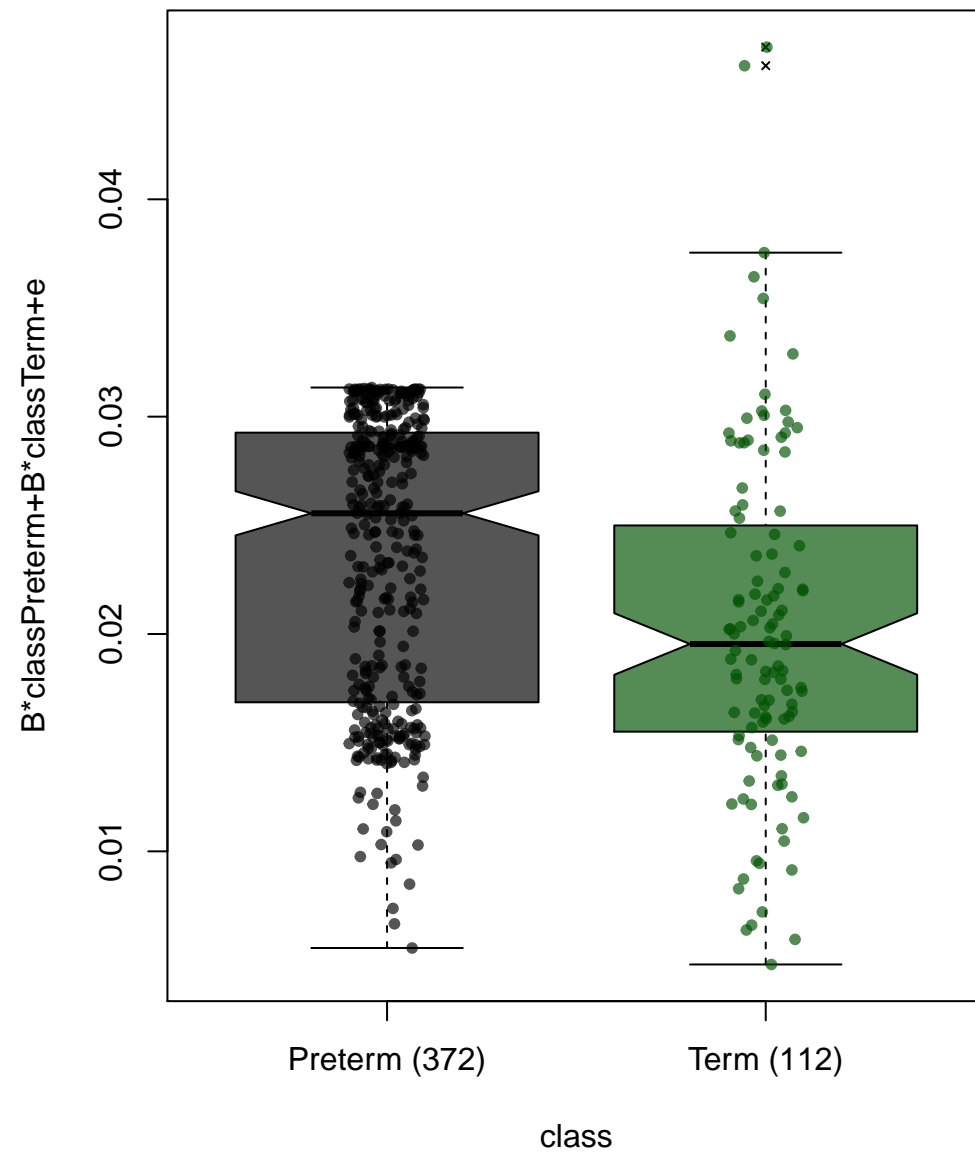
Partial Residual Plot



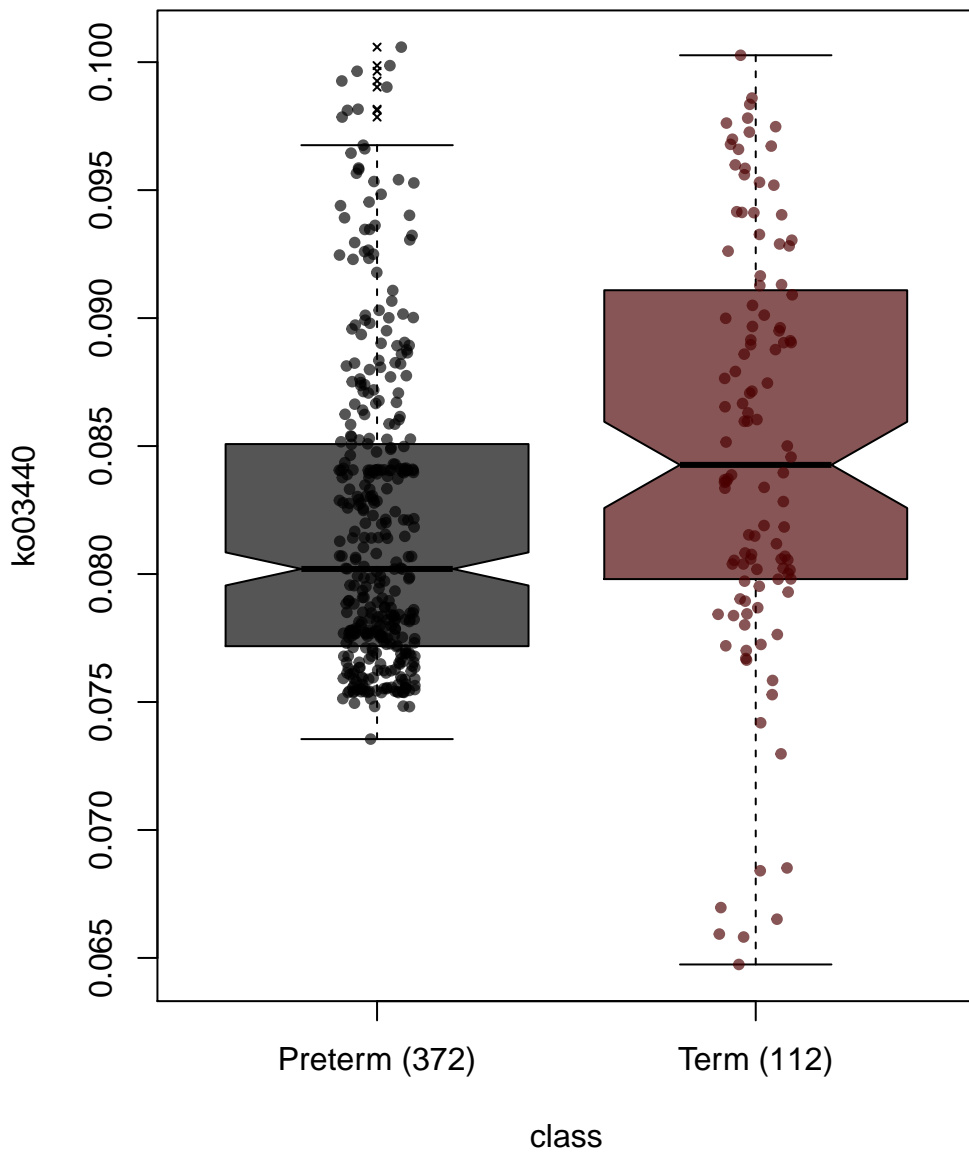
classTerm (−0.00322 sd 0.000746, p=1.85e−05, q=3.09e−05)



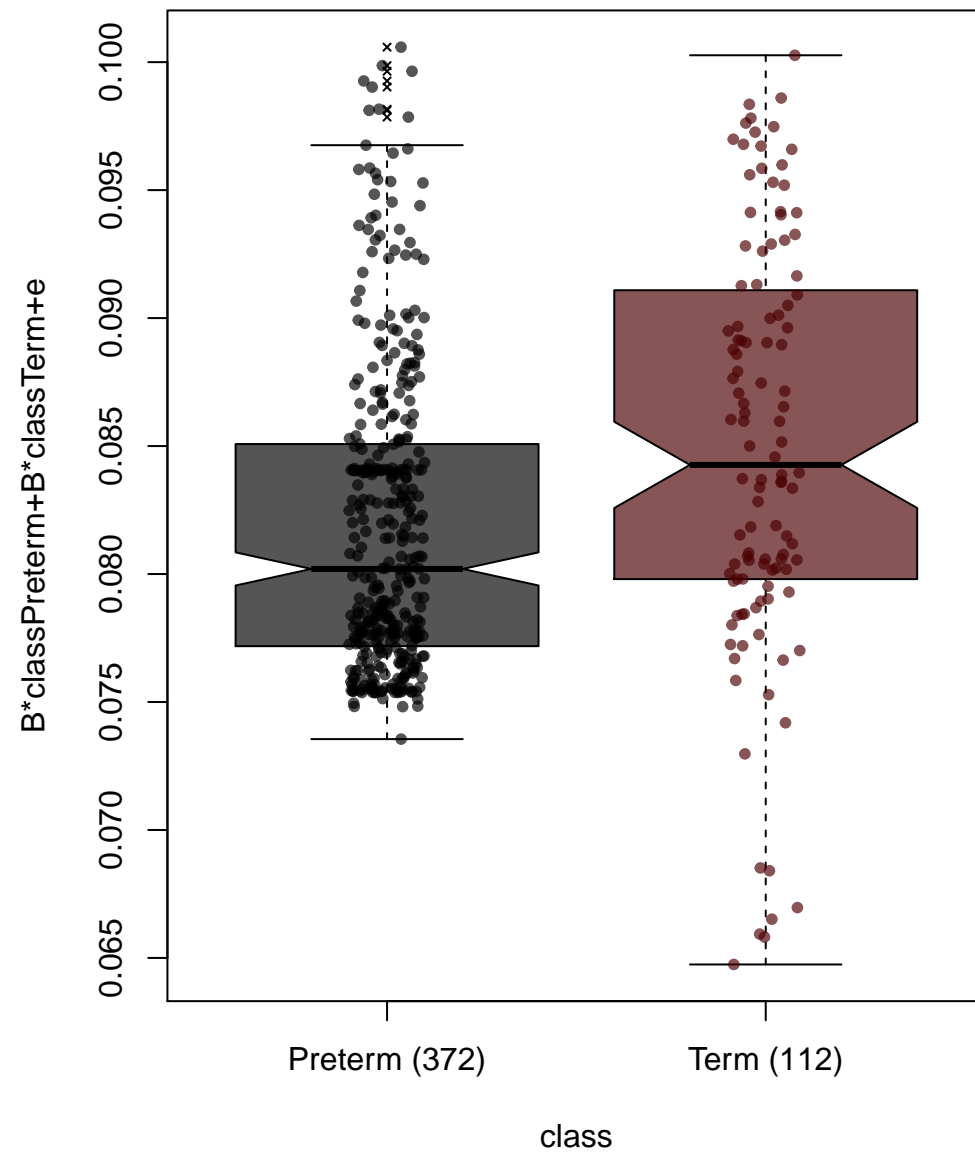
Partial Residual Plot



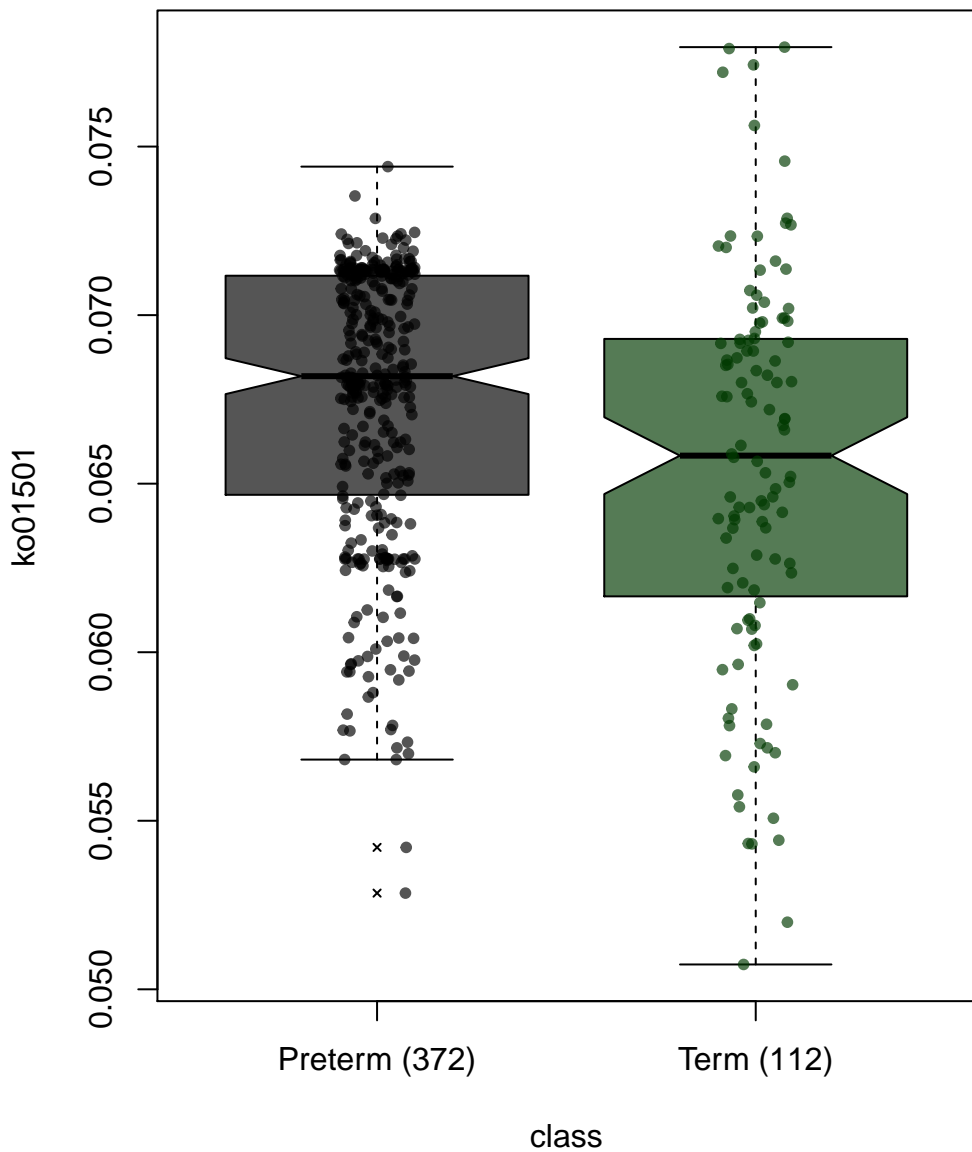
classTerm (0.00298 sd 0.000708, p=3.09e-05, q=5.13e-05)



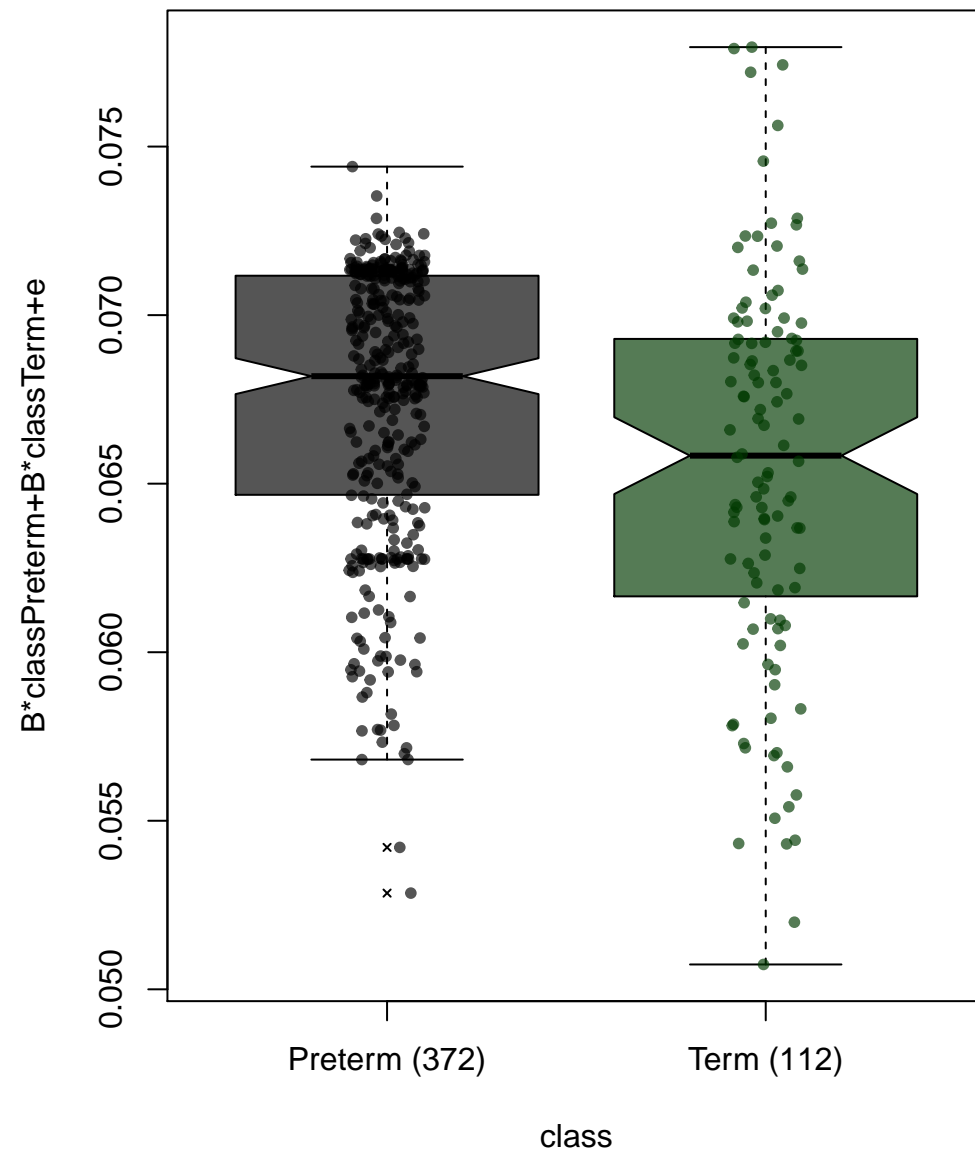
Partial Residual Plot



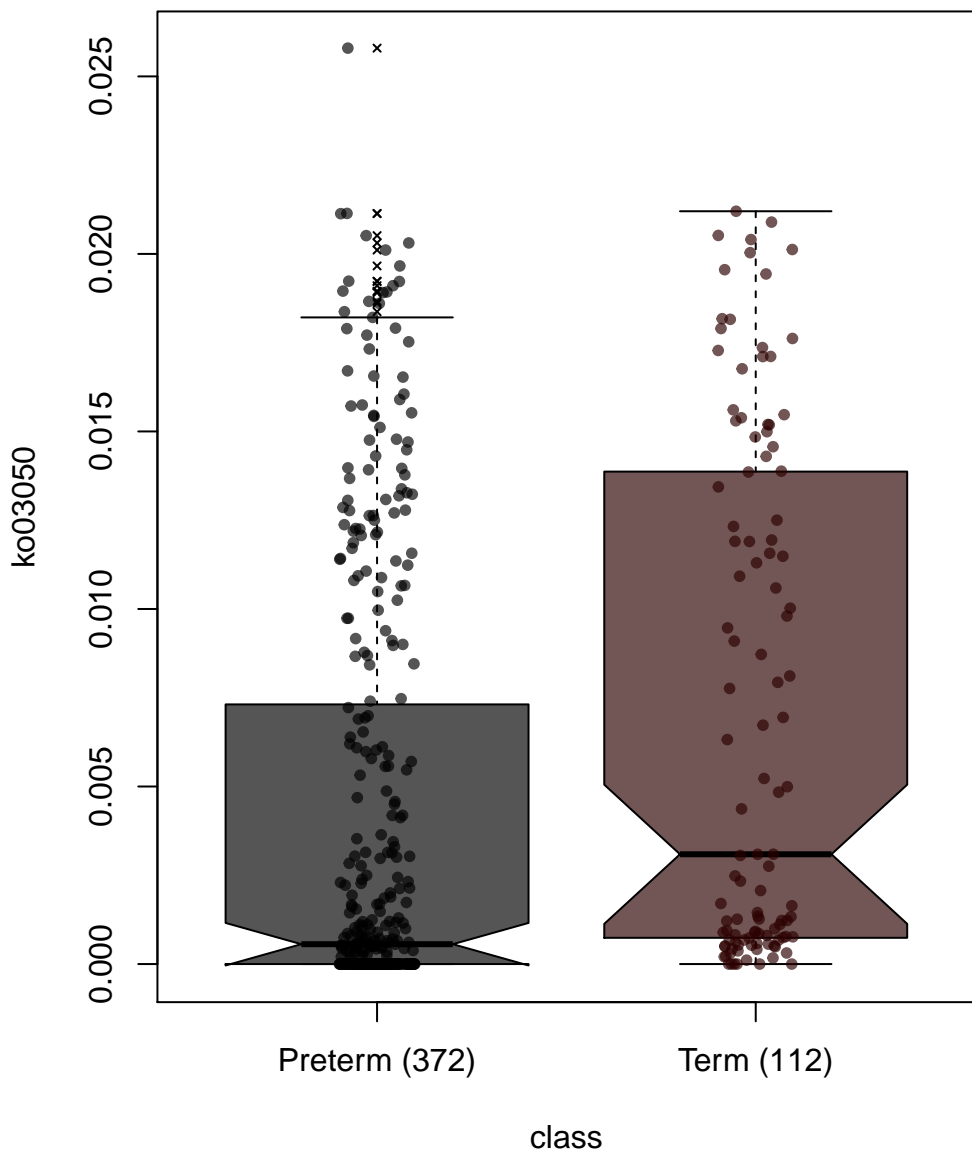
classTerm (-0.00205 sd 0.000489, p=3.18e-05, q=5.25e-05)



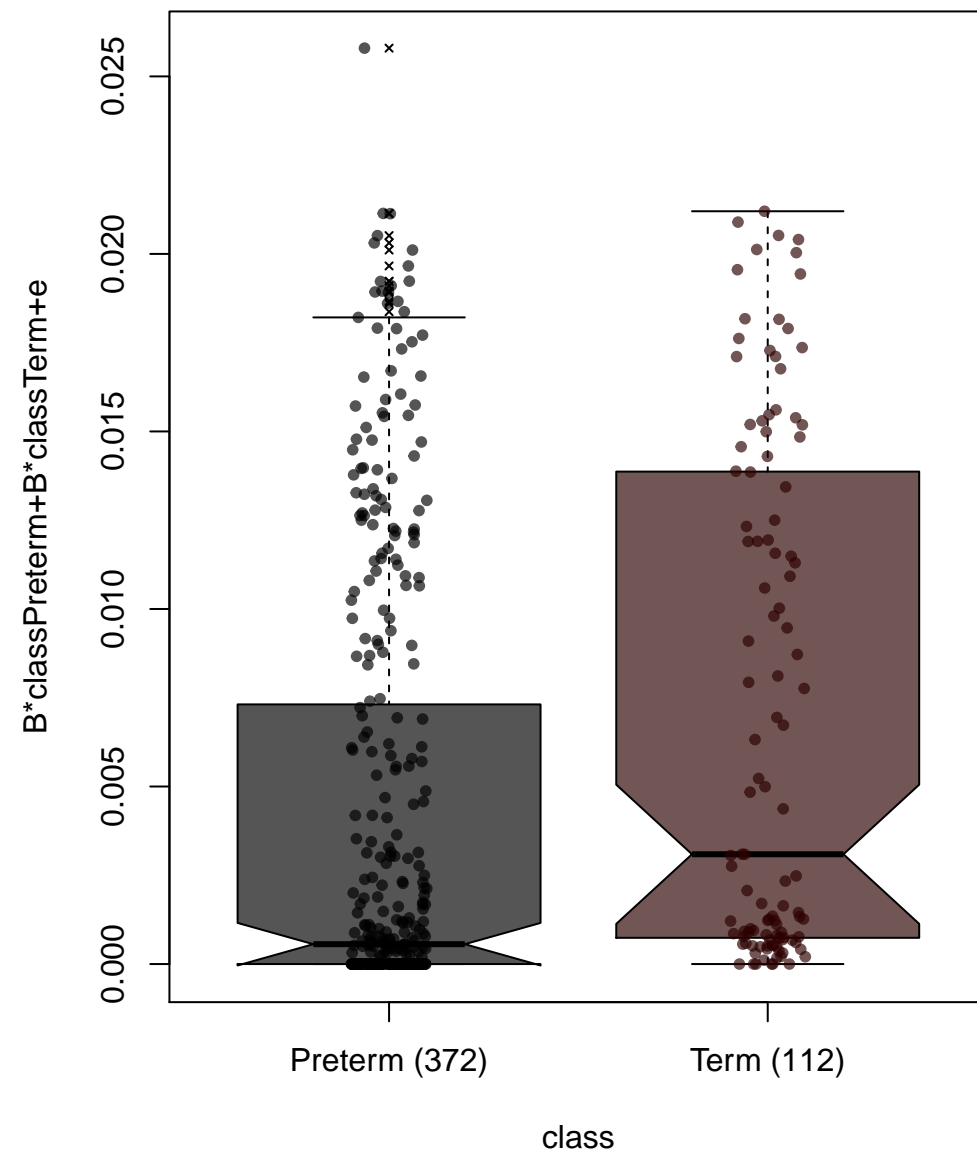
Partial Residual Plot



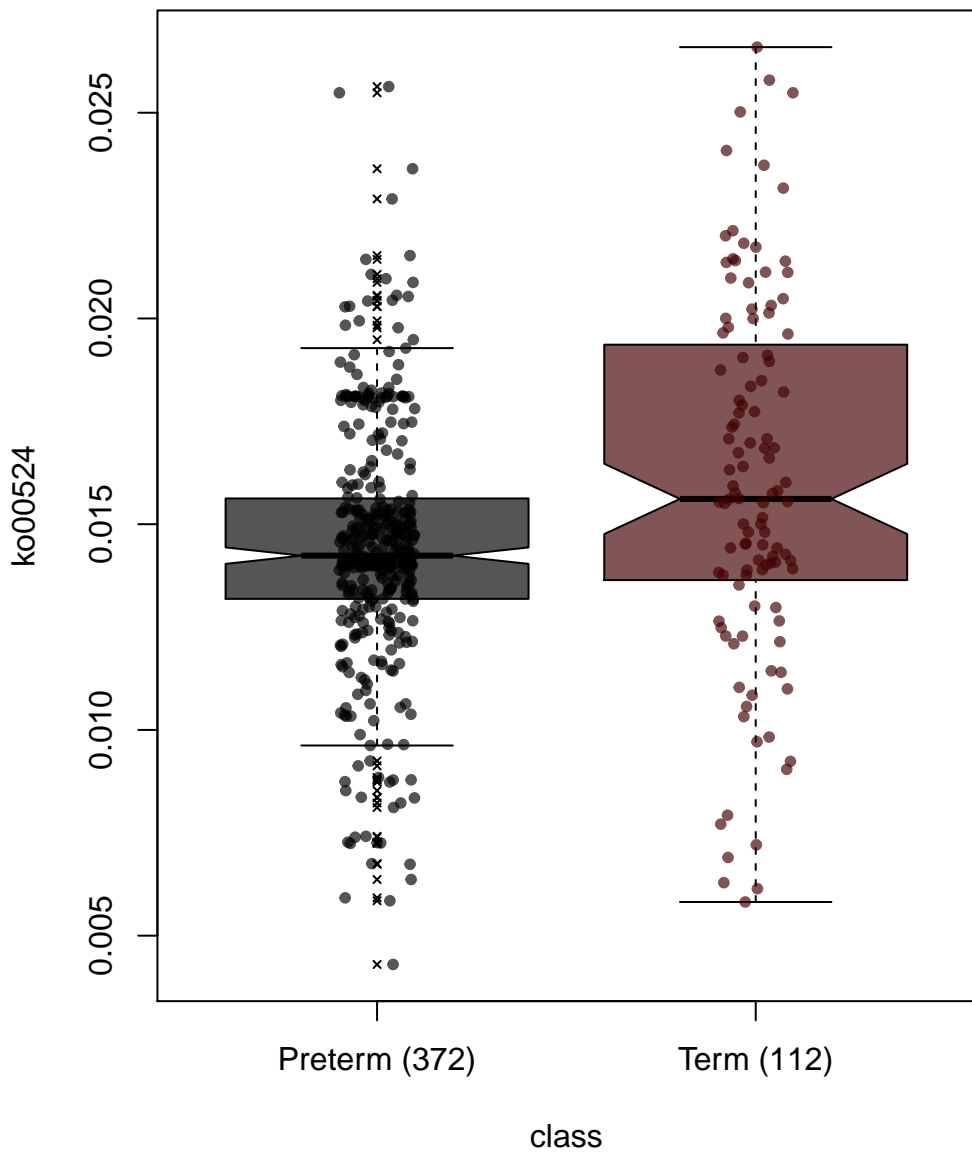
classTerm (0.00288 sd 0.000685, p=3.22e-05, q=5.29e-05)



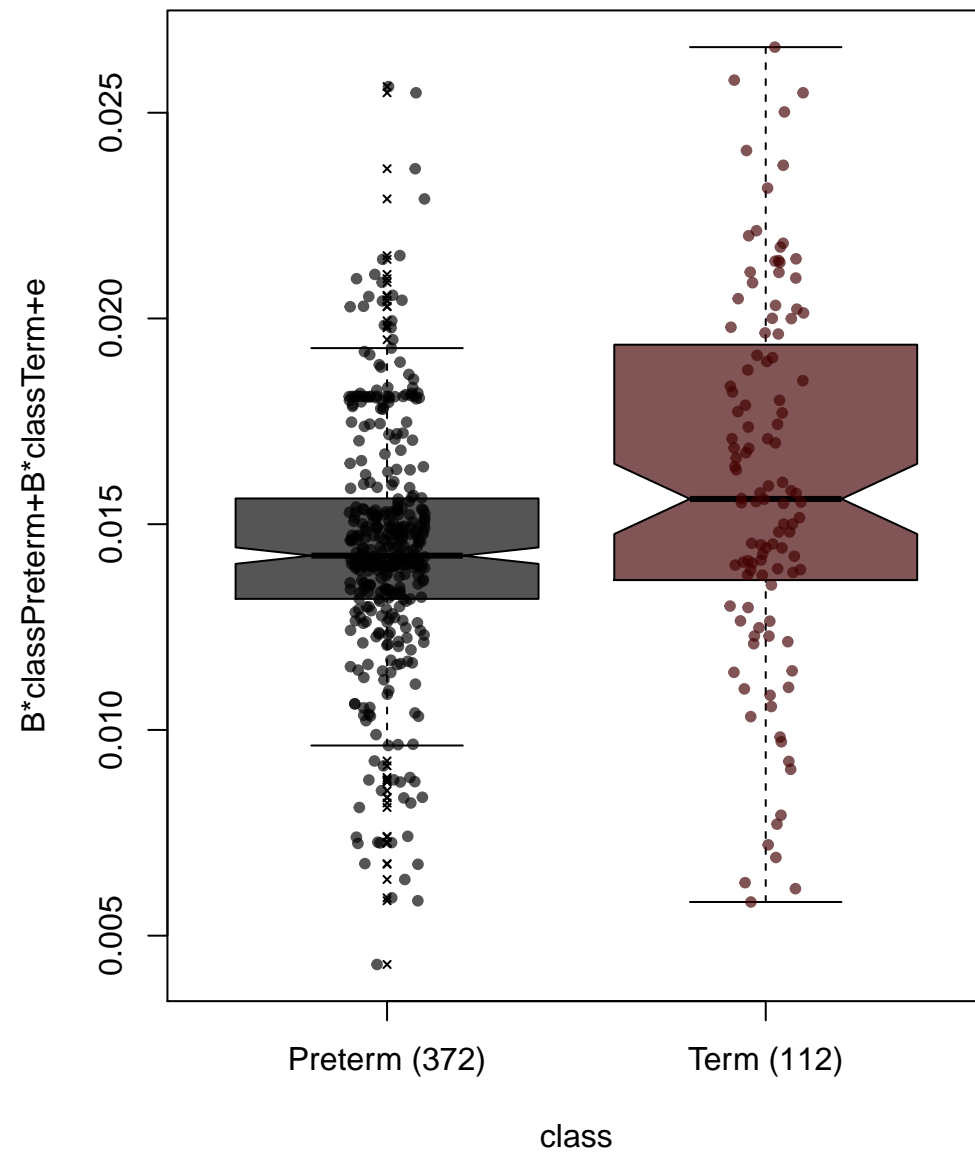
Partial Residual Plot



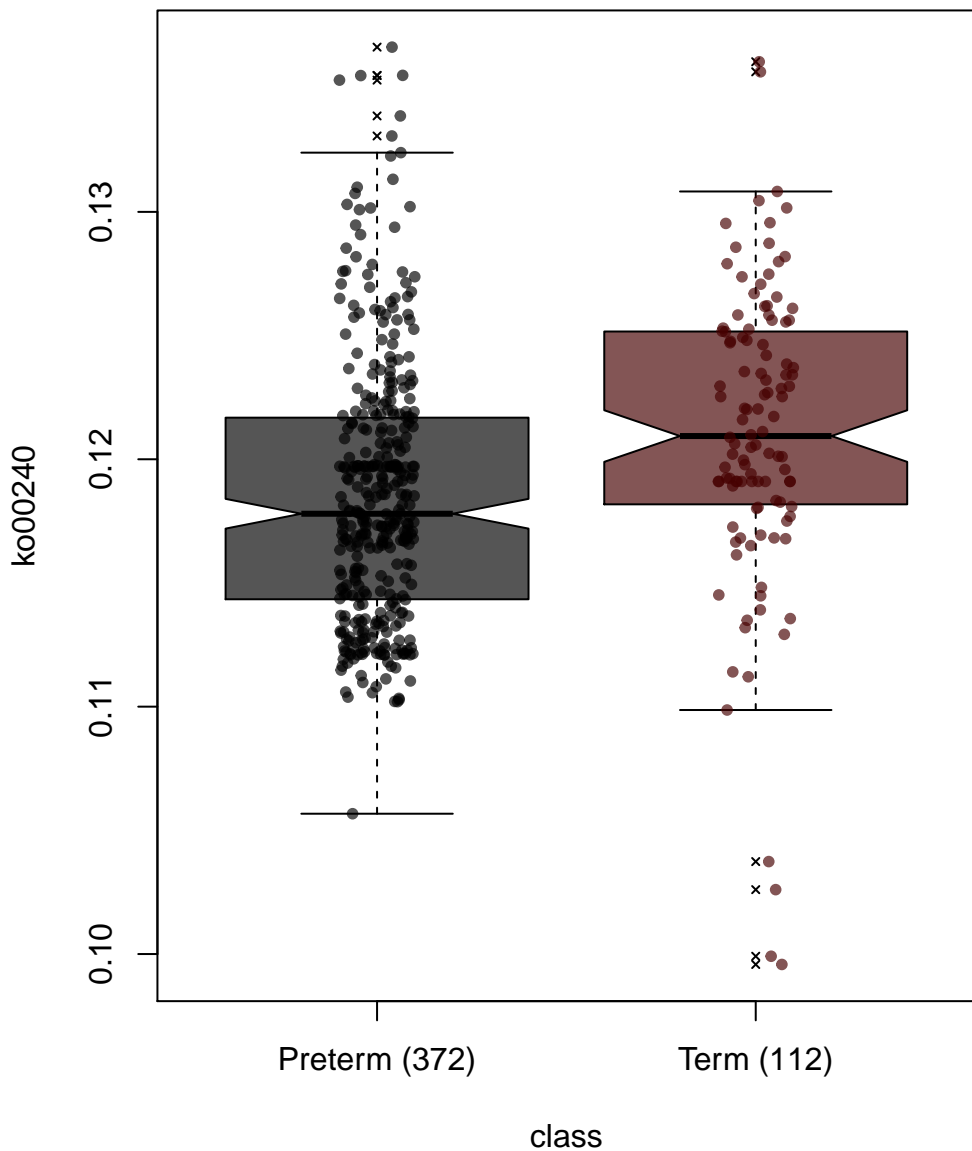
classTerm (0.00152 sd 0.000372, p=5.13e-05, q=8.37e-05)



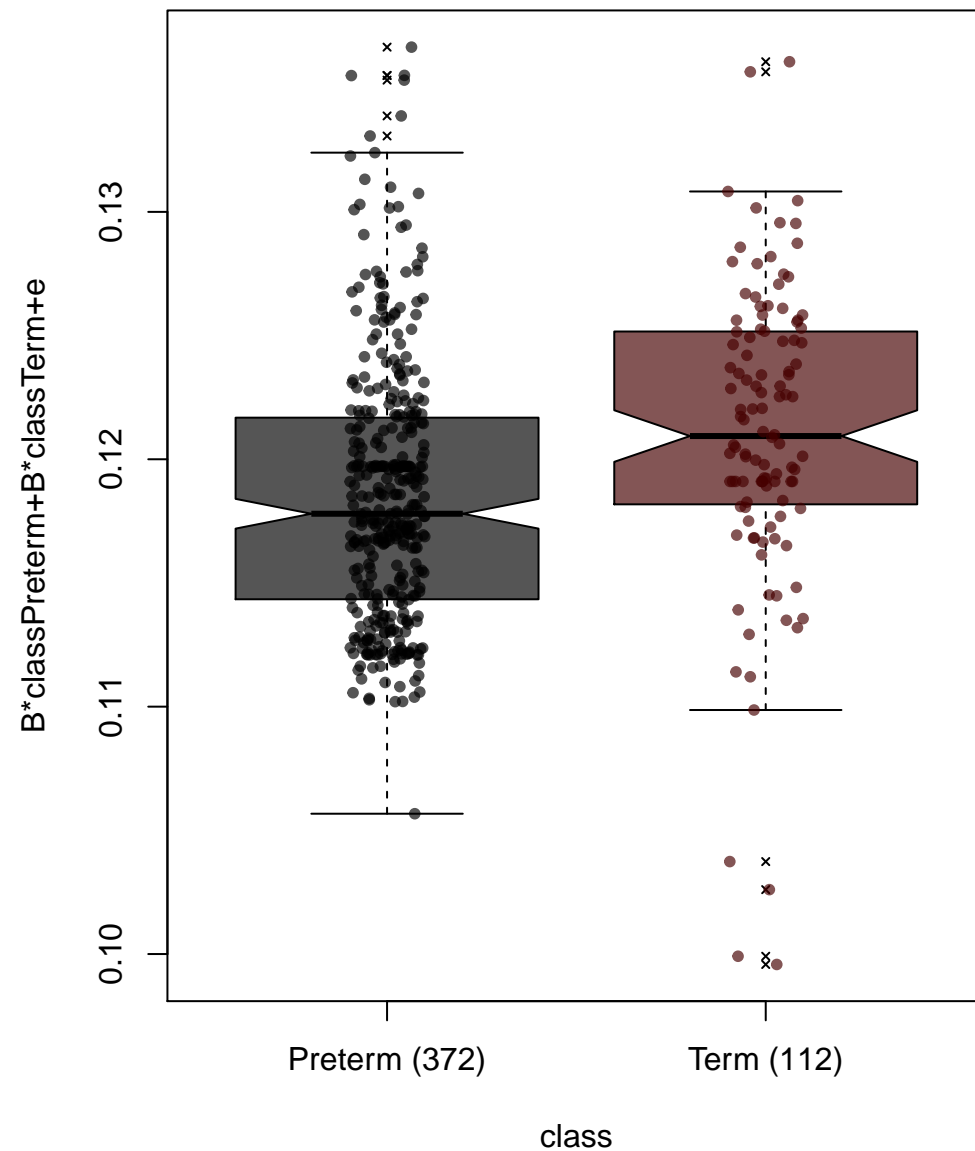
Partial Residual Plot



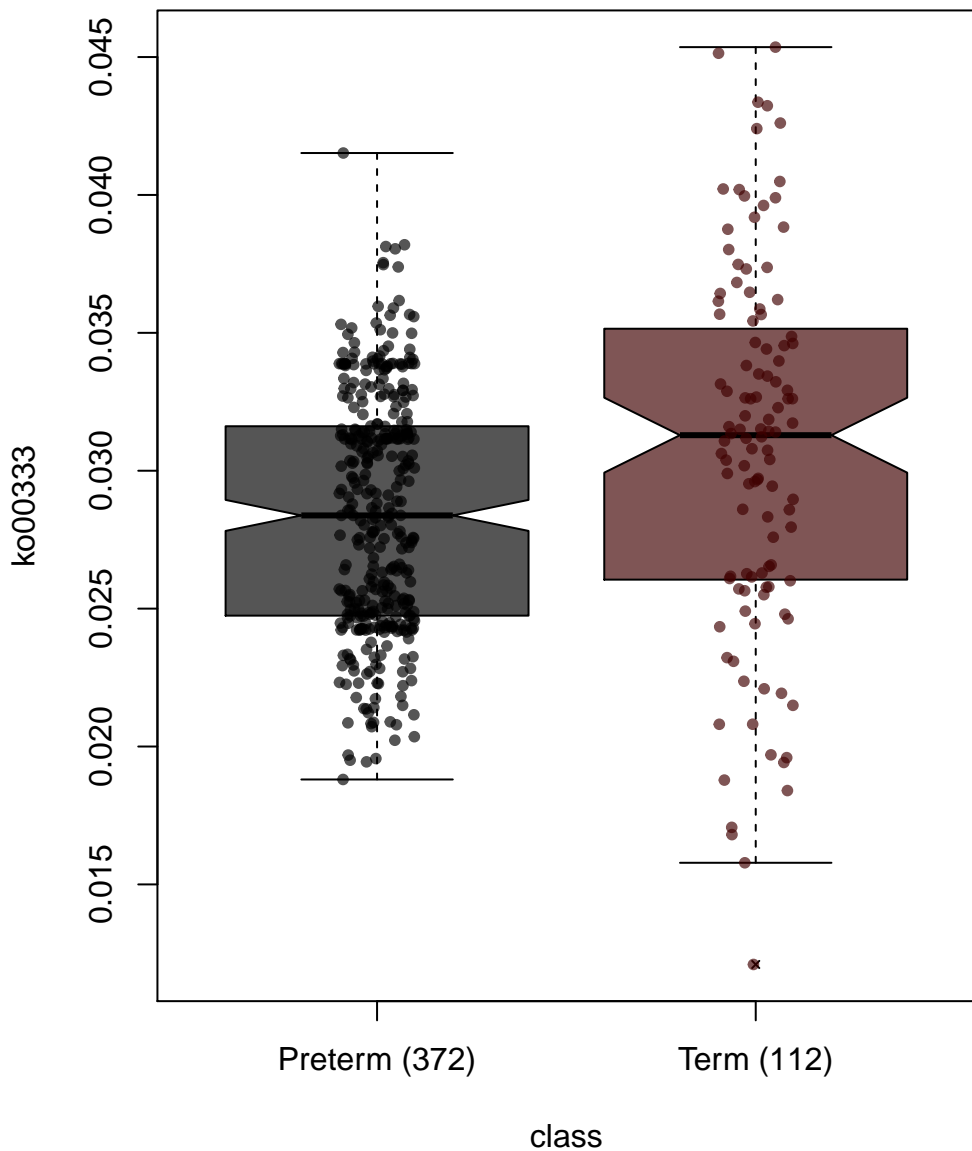
classTerm (0.00244 sd 0.000597, p=5.27e-05, q=8.55e-05)



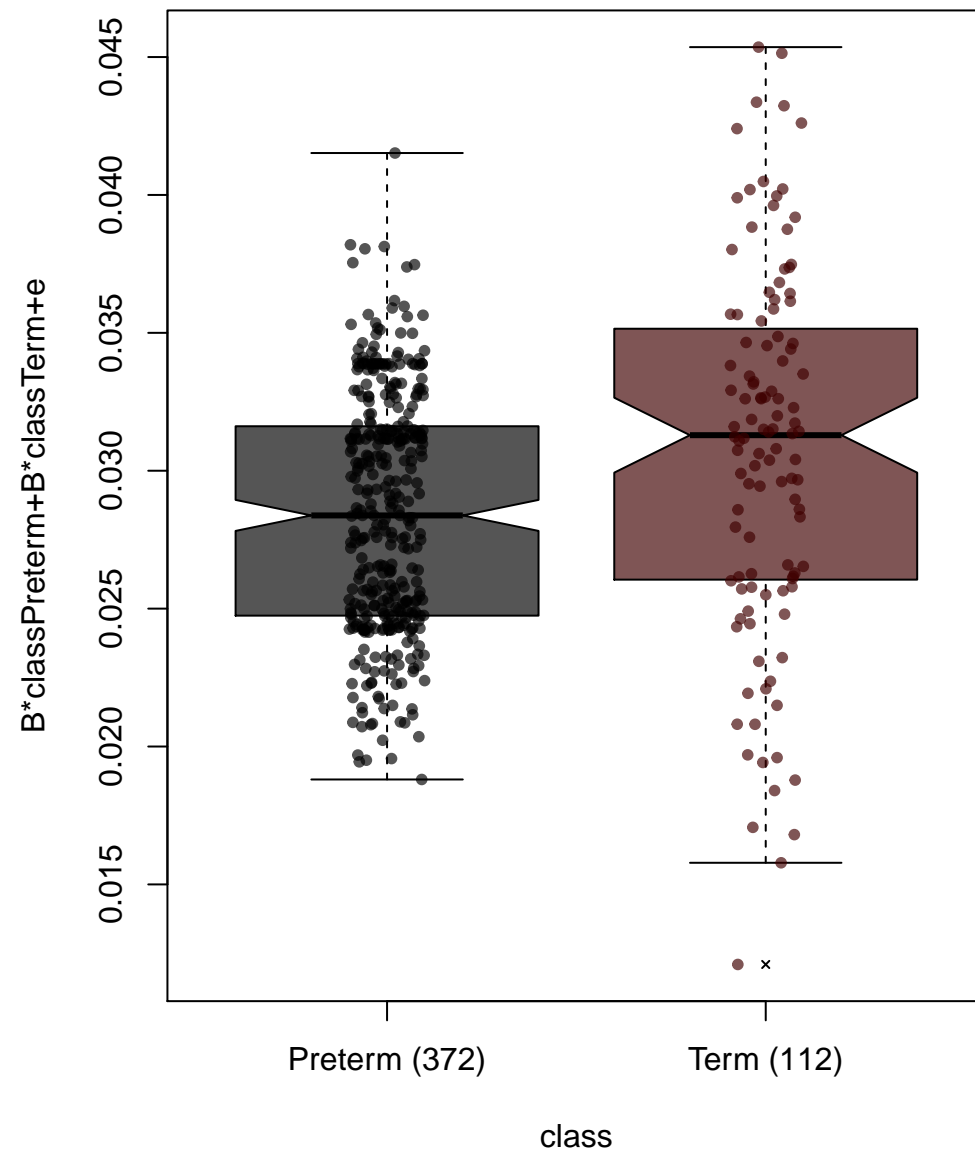
Partial Residual Plot



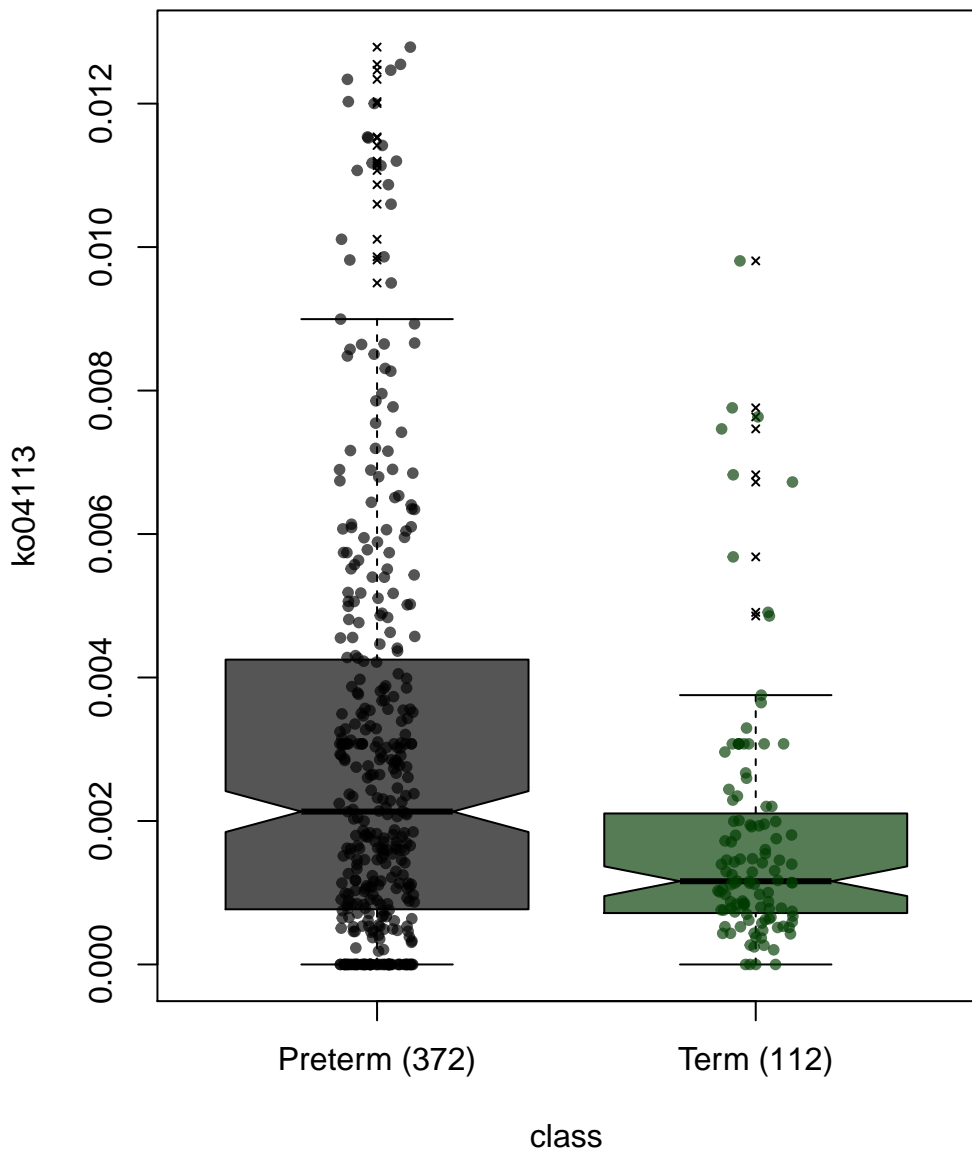
classTerm (0.0022 sd 0.00054, p=5.33e-05, q=8.55e-05)



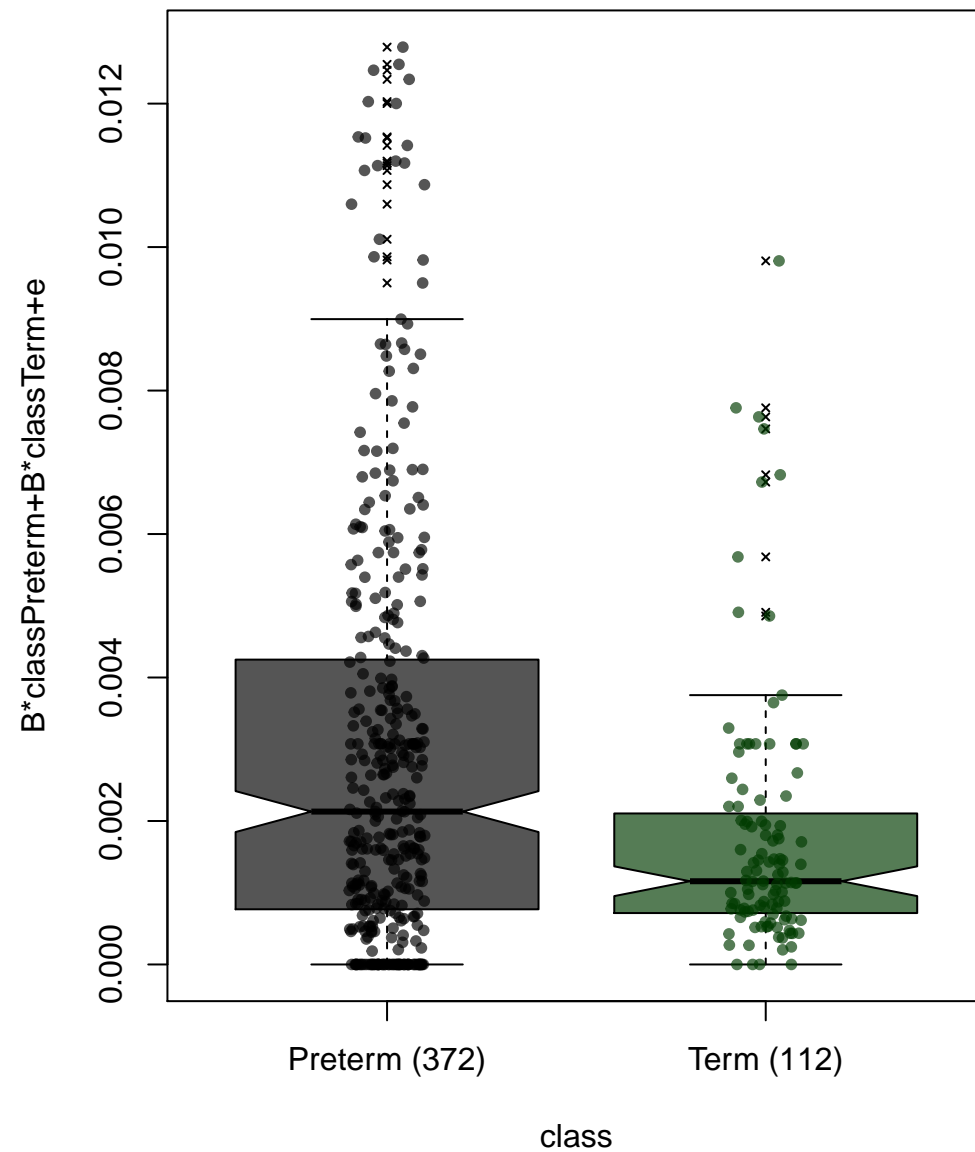
Partial Residual Plot



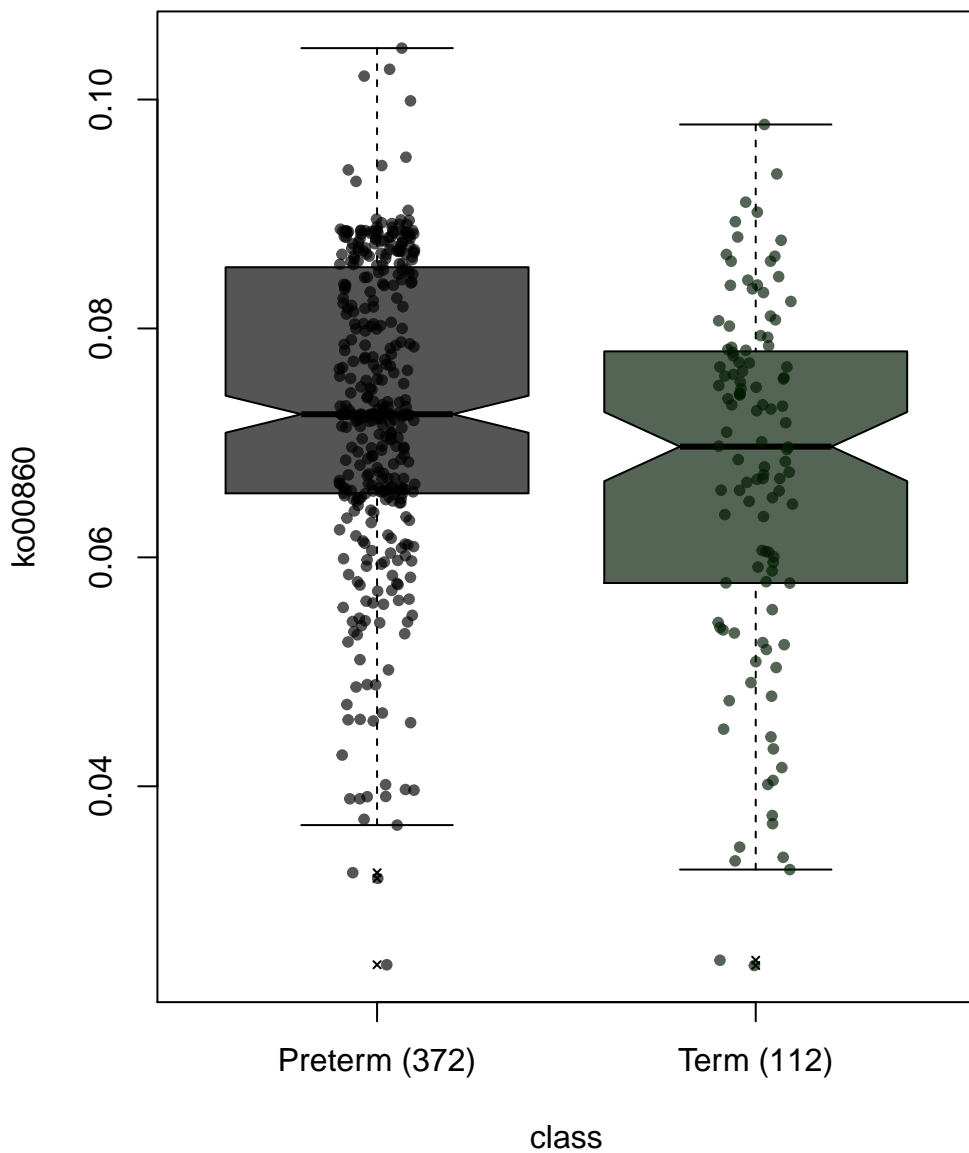
classTerm (−0.00119 sd 0.000293, p=5.33e−05, q=8.55e−05)



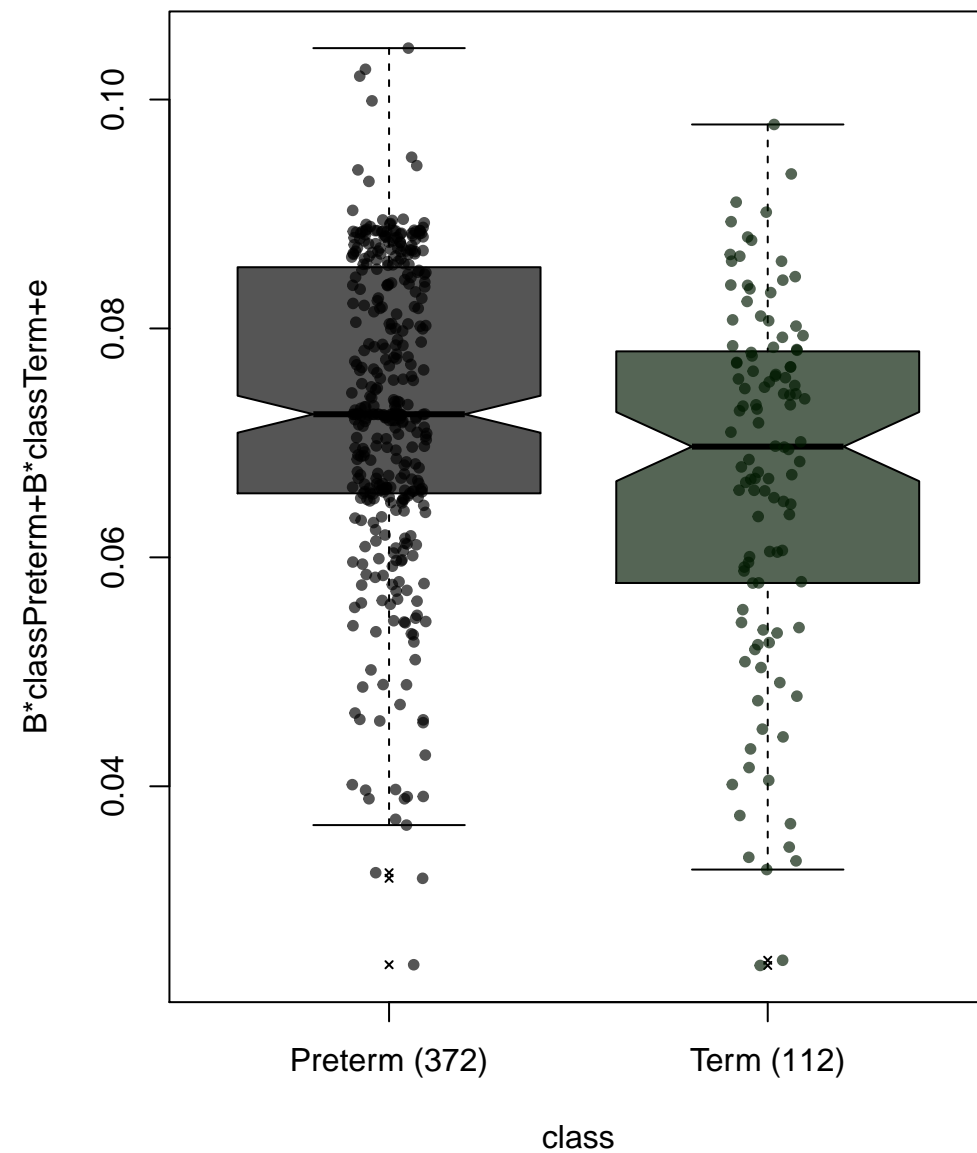
Partial Residual Plot



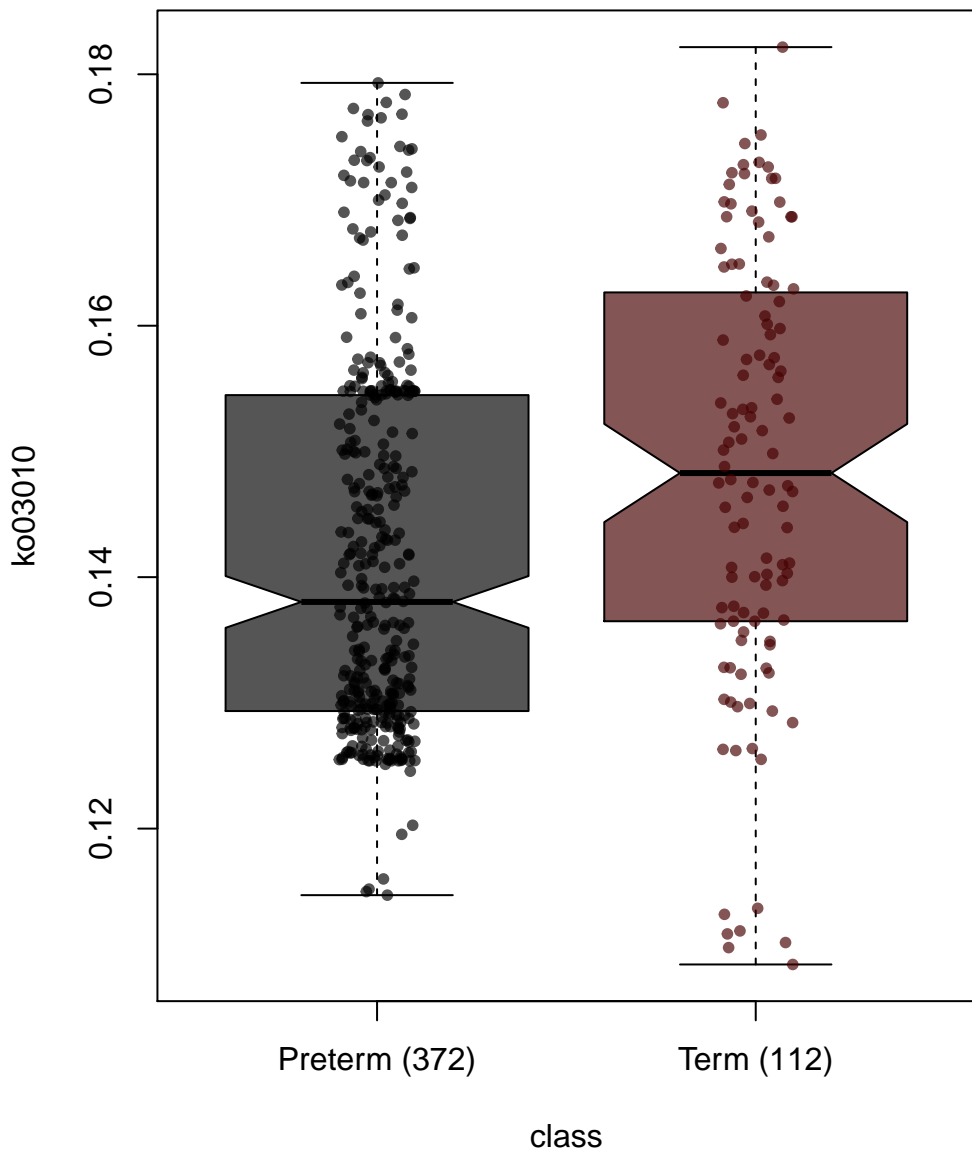
classTerm (-0.0061 sd 0.00151 , $p=6.14e-05$, $q=9.8e-05$)



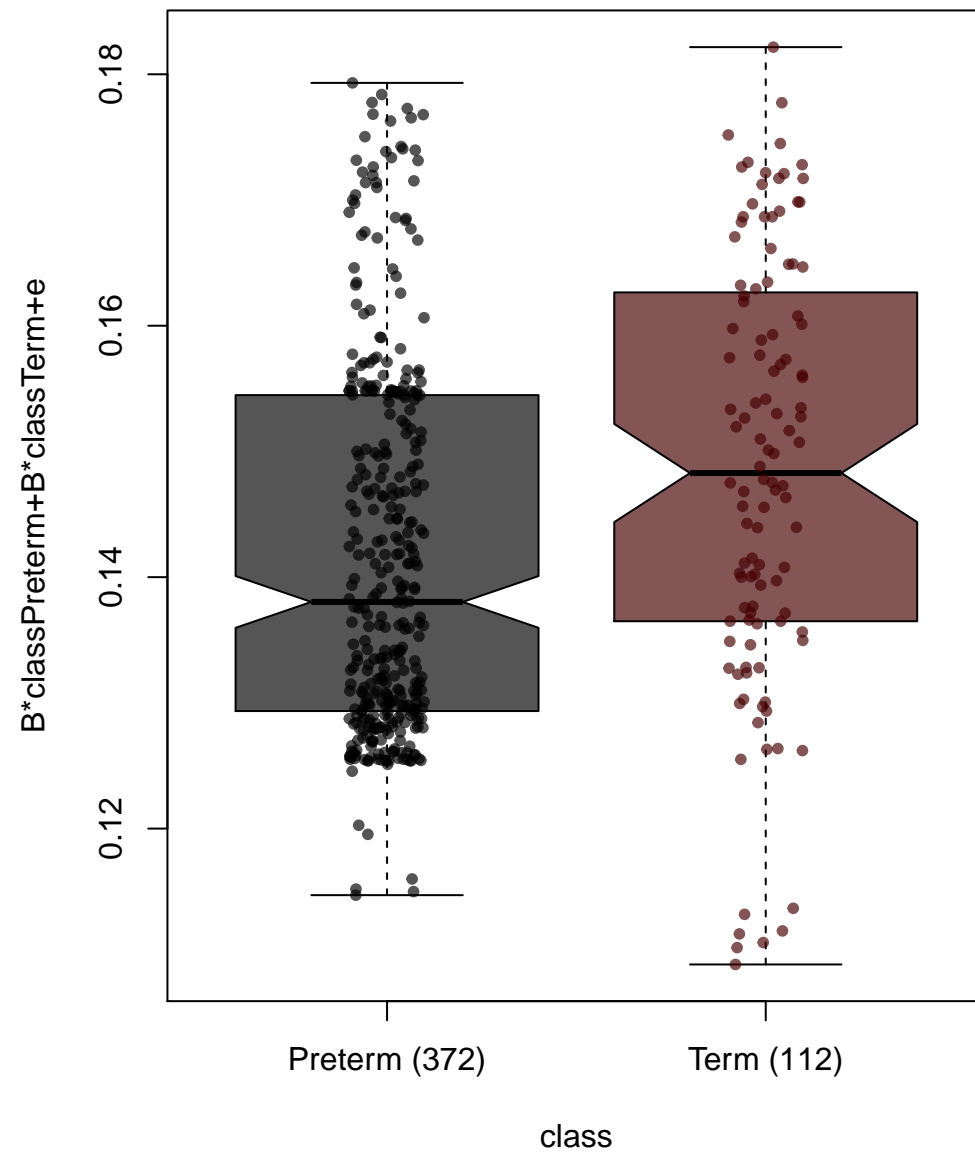
Partial Residual Plot



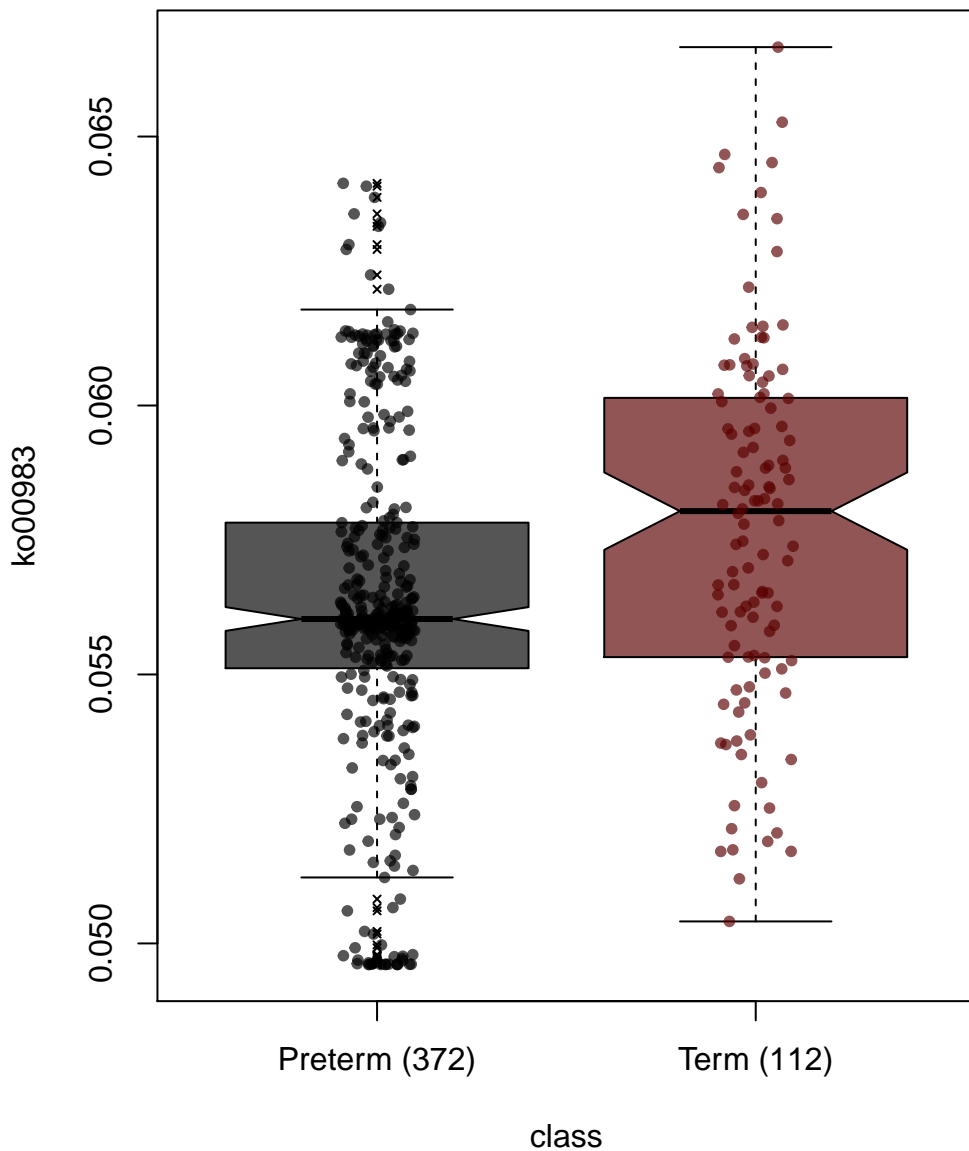
classTerm (0.00663 sd 0.00166, p=7.15e-05, q=0.000113)



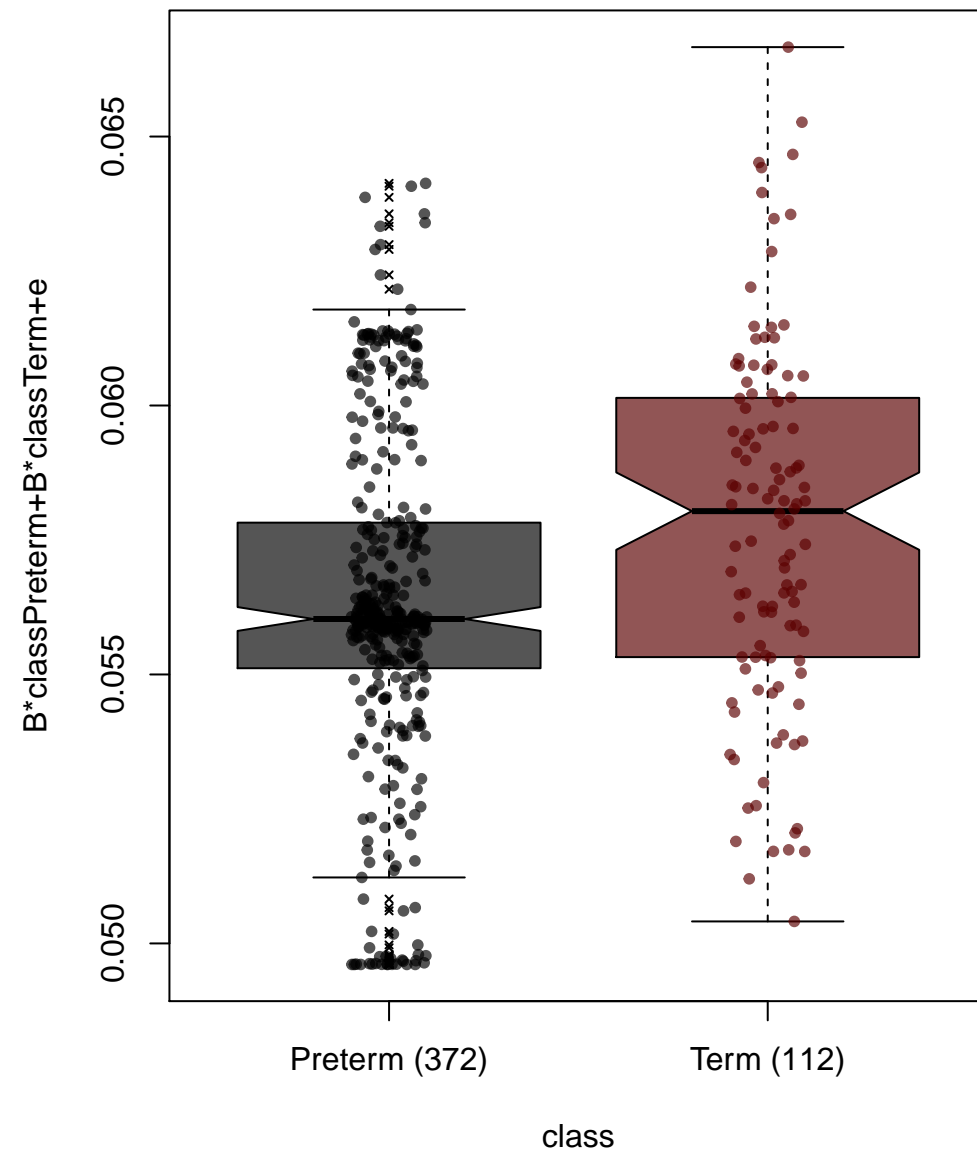
Partial Residual Plot



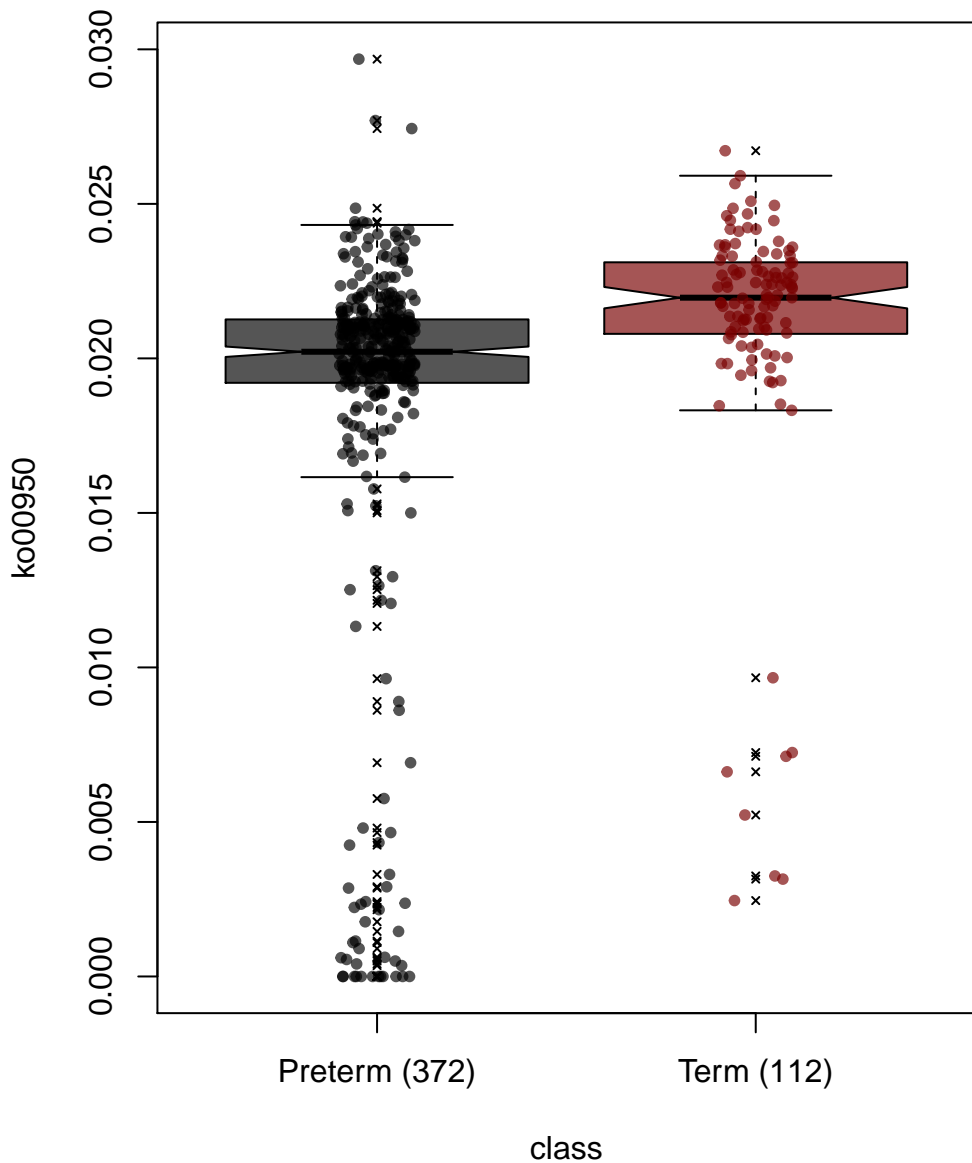
classTerm (0.0014 sd 0.00035, p=7.68e-05, q=0.000121)



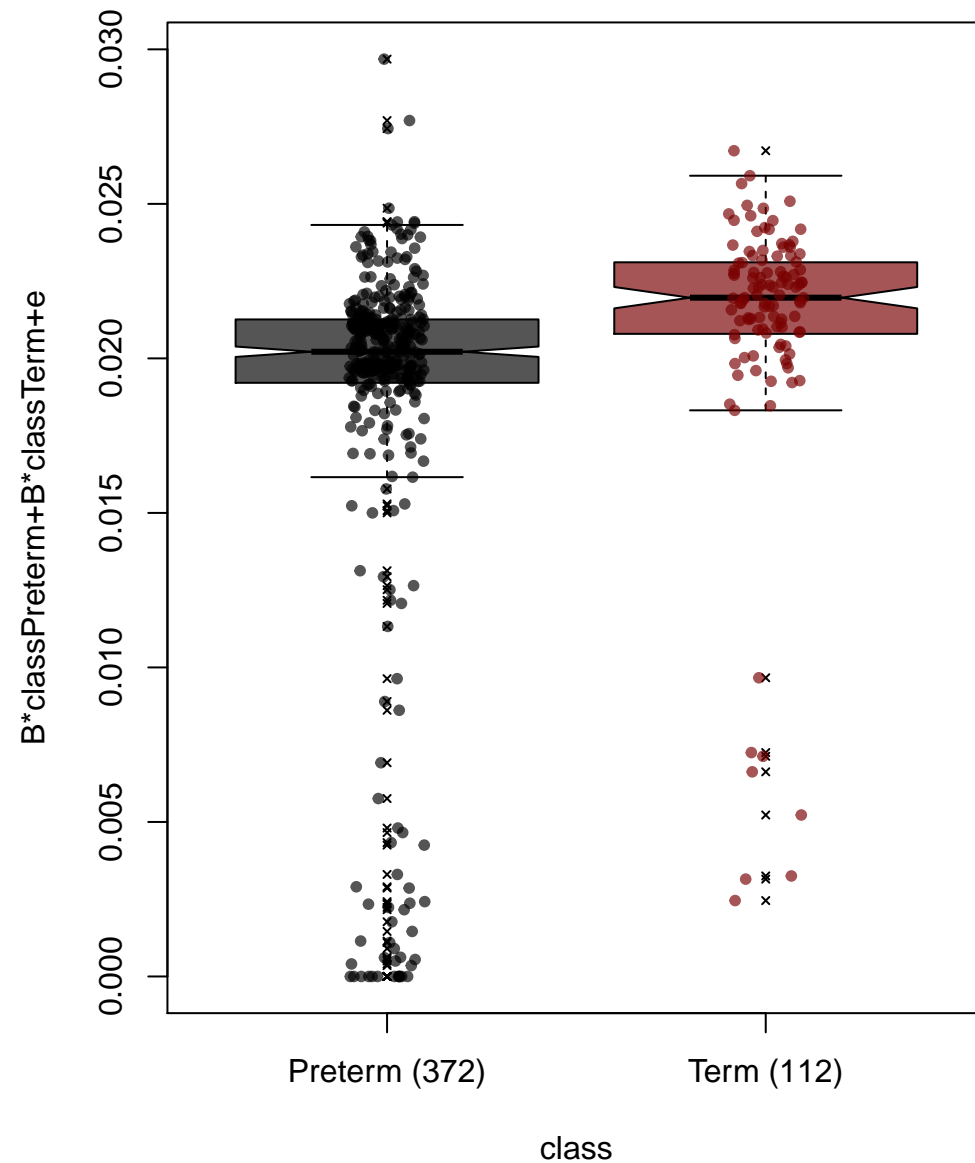
Partial Residual Plot



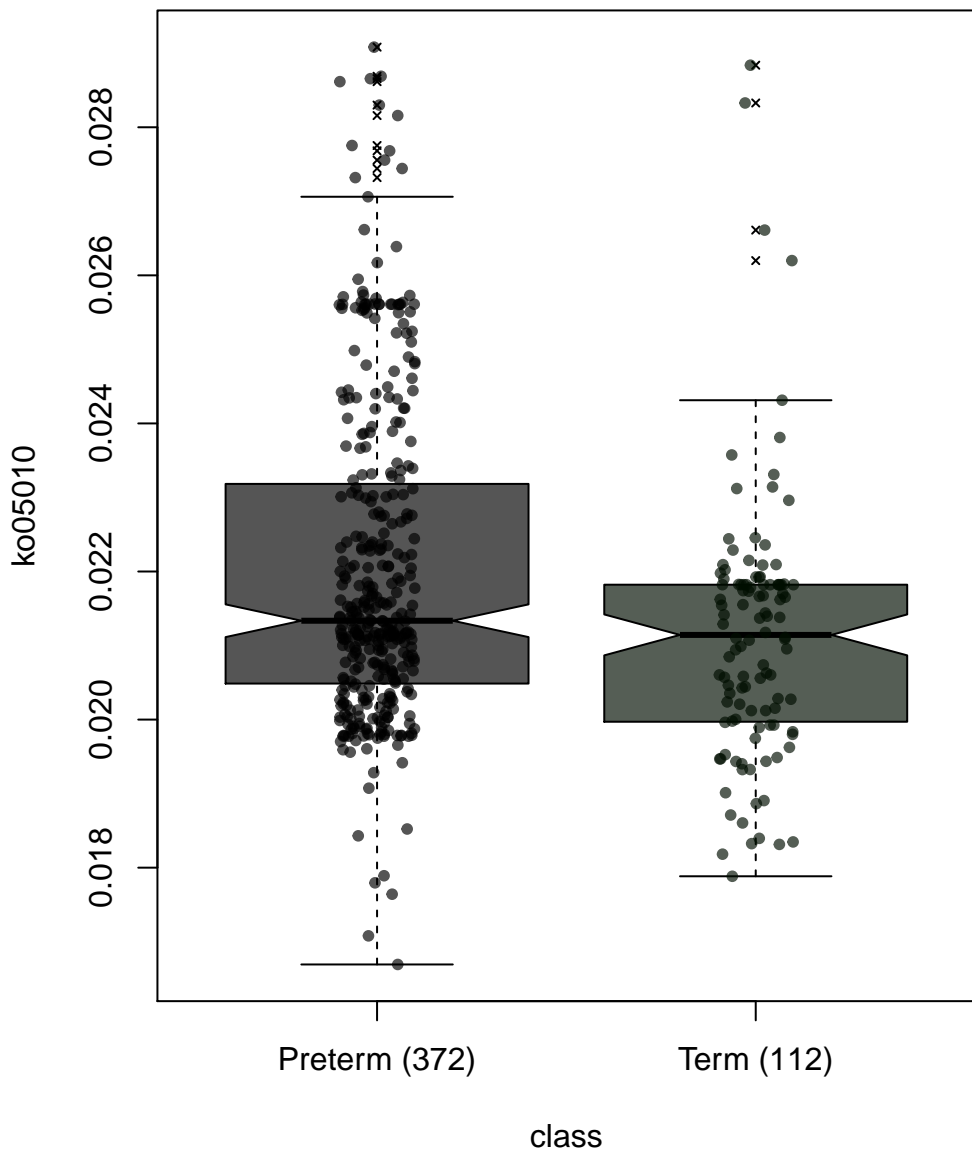
classTerm (0.00248 sd 0.000623, p=8.05e-05, q=0.000126)



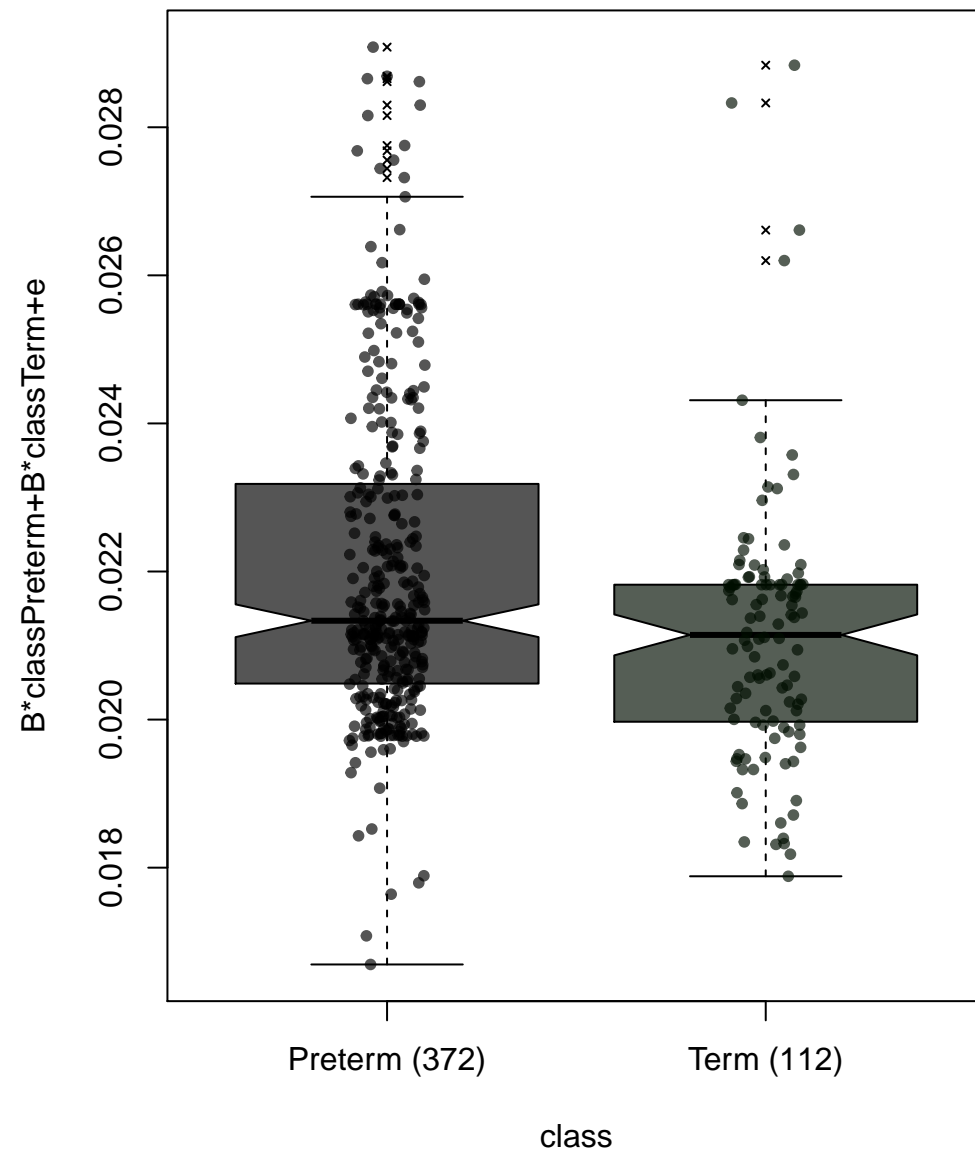
Partial Residual Plot



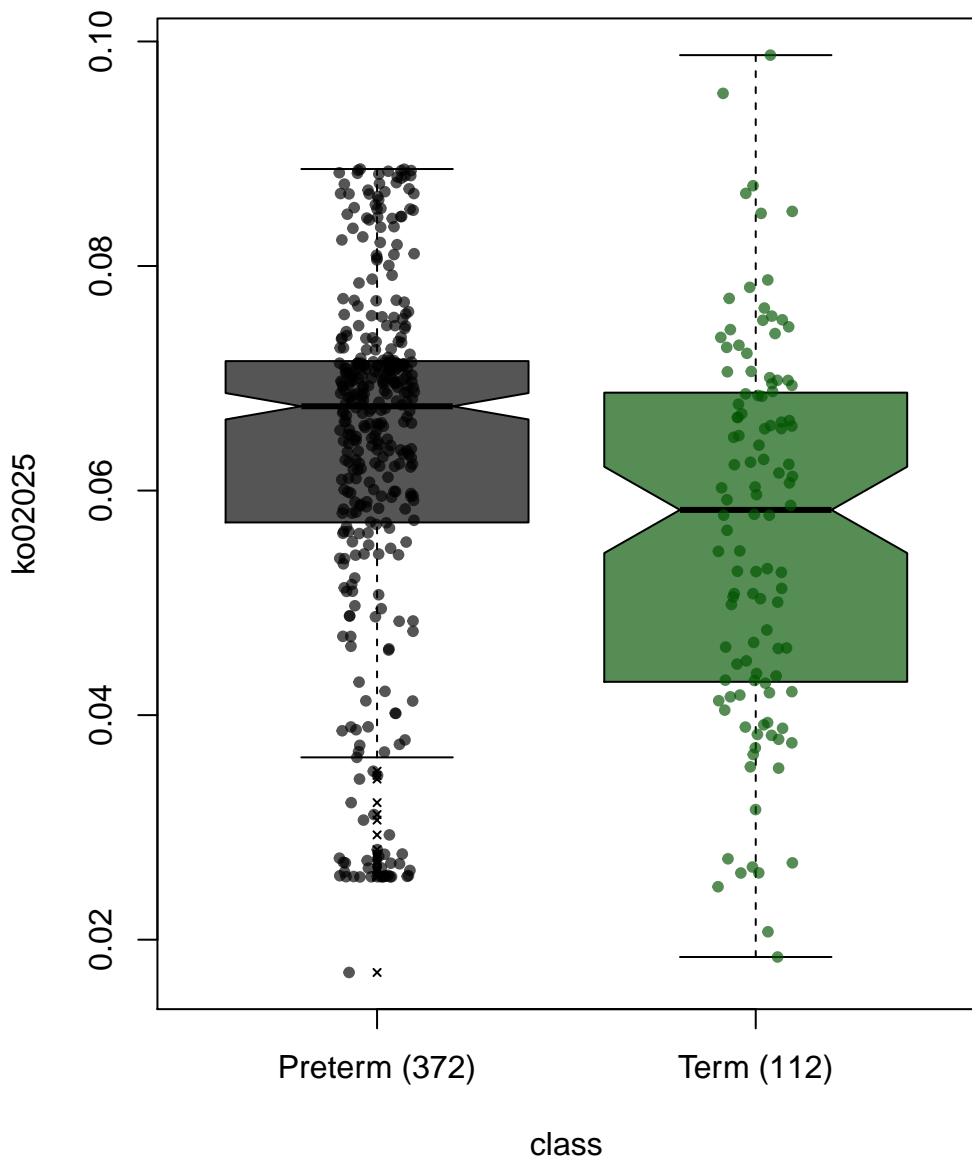
classTerm (−0.000884 sd 0.000226, p=0.000102, q=0.000159)



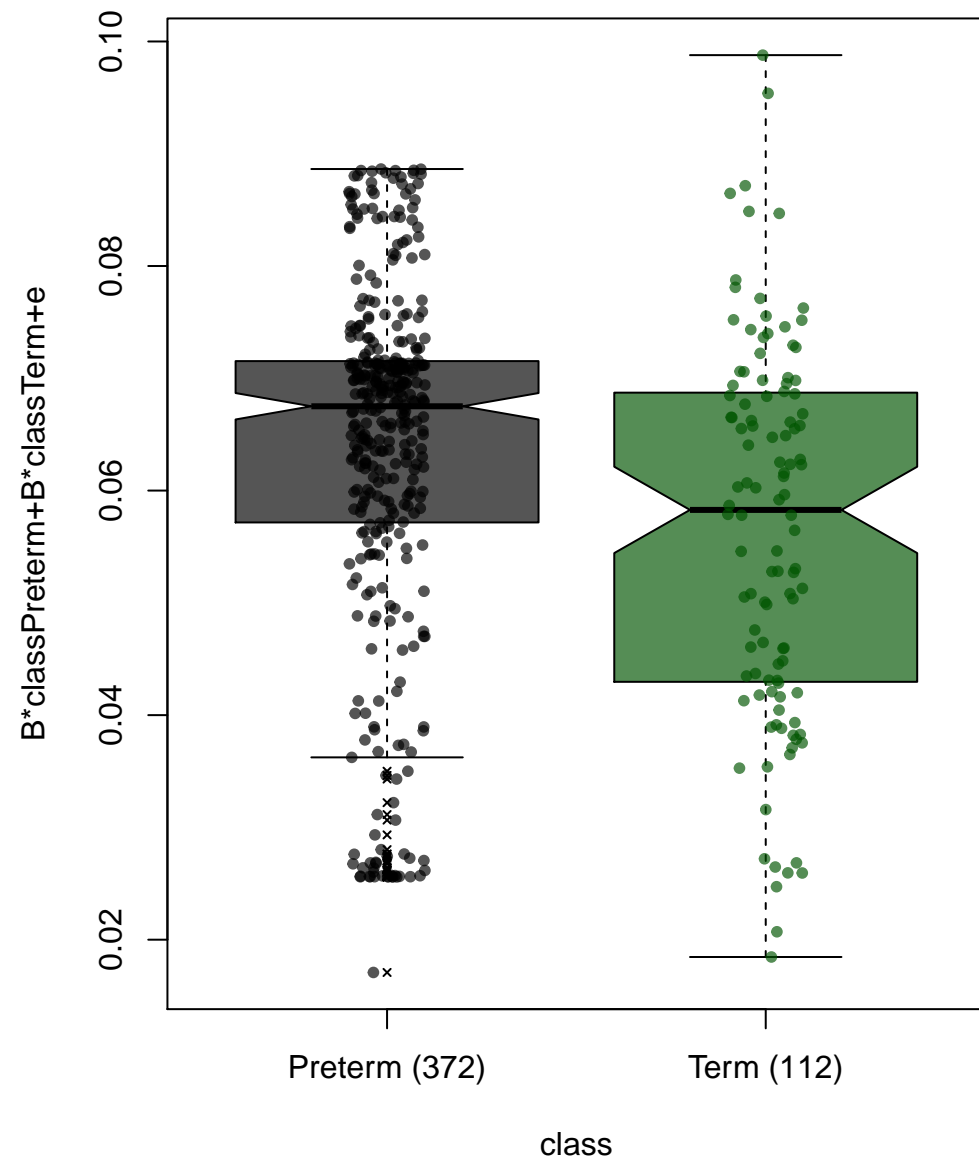
Partial Residual Plot



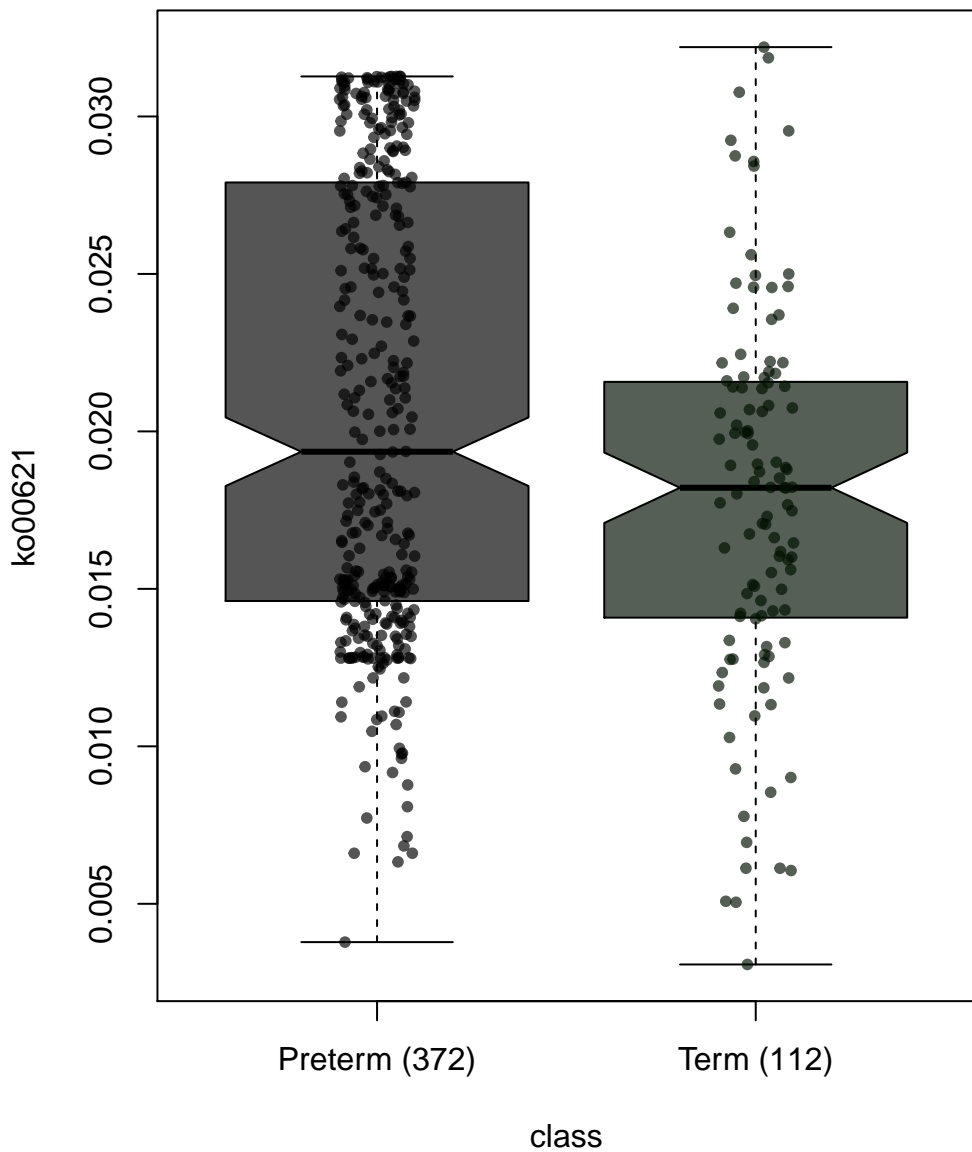
classTerm (−0.00691 sd 0.00178, p=0.00012, q=0.000186)



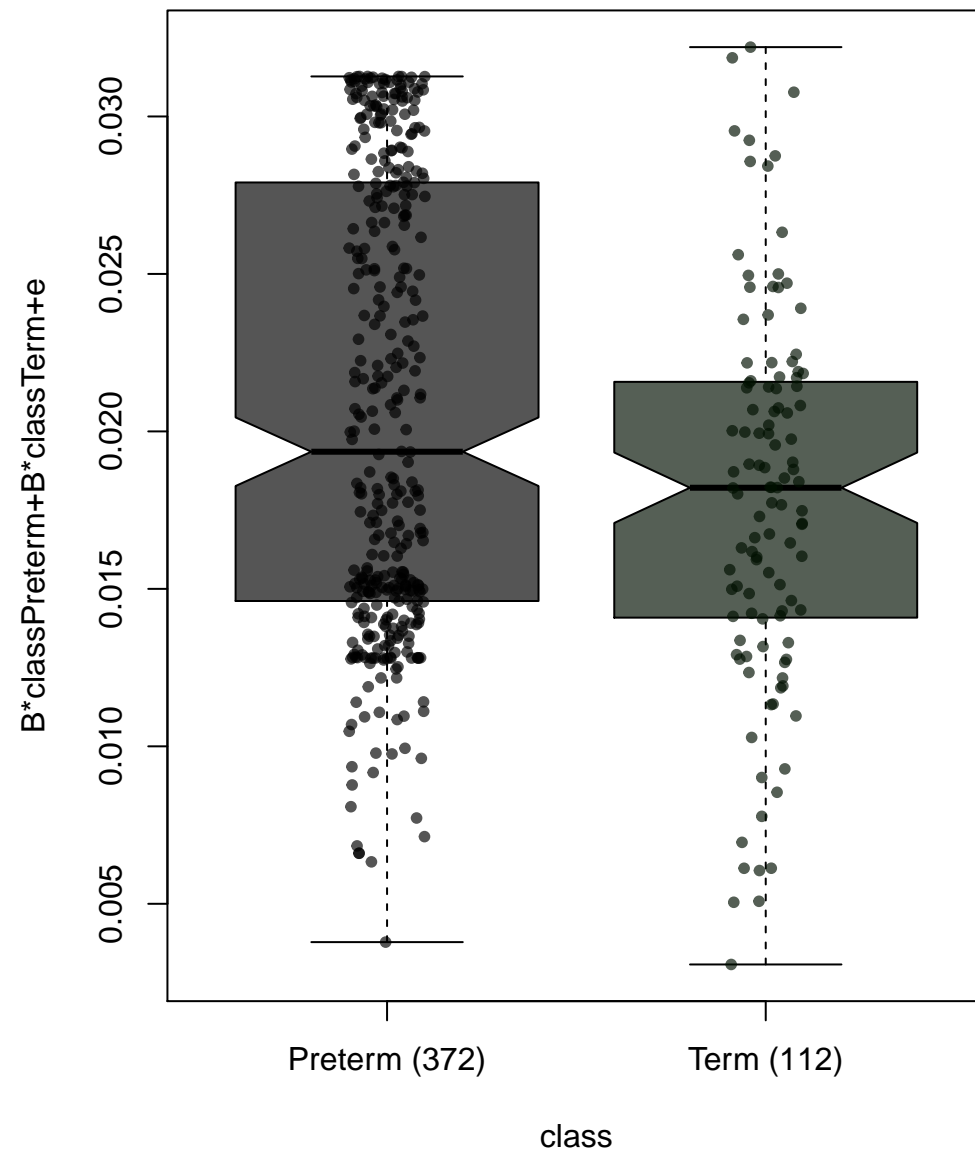
Partial Residual Plot



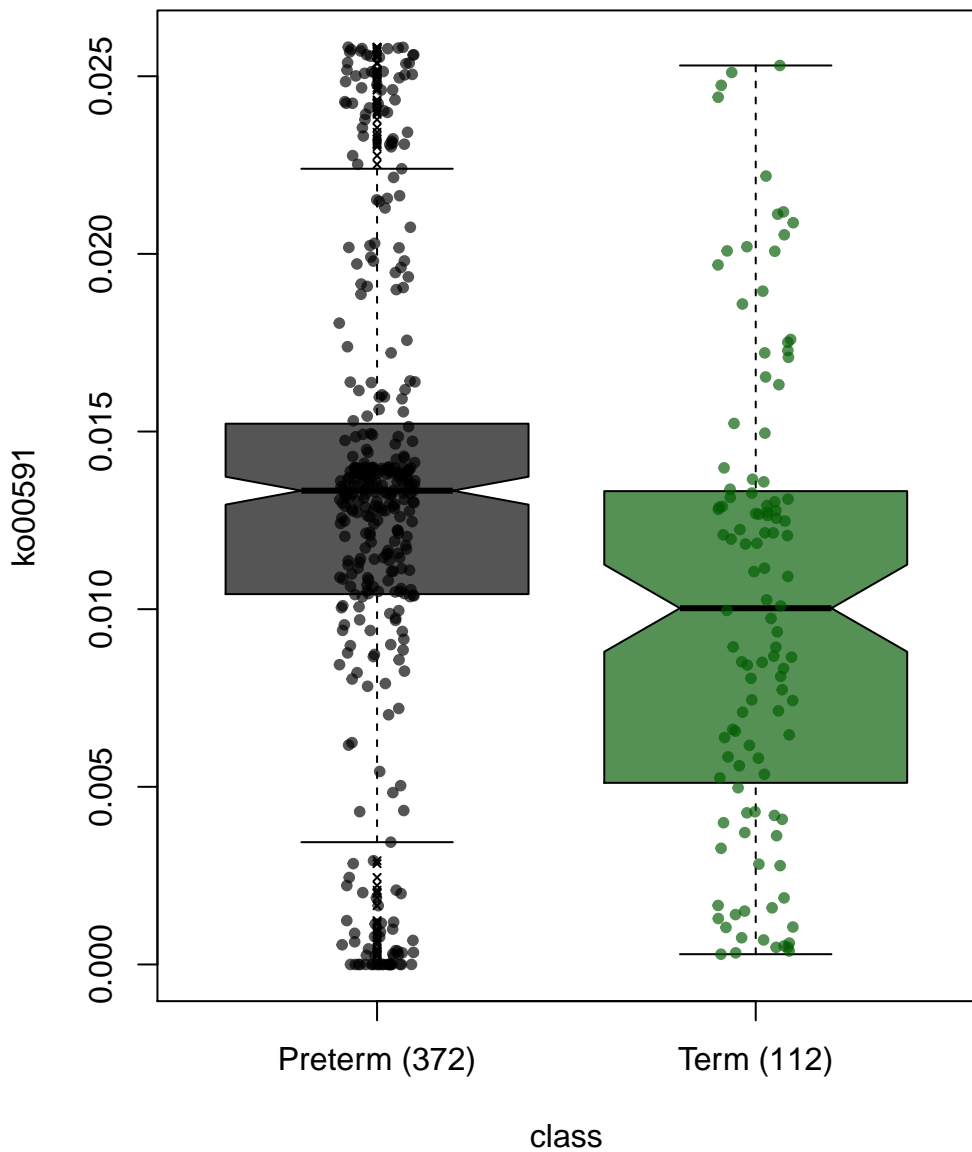
classTerm (-0.00289 sd 0.000747, p=0.000125, q=0.000193)



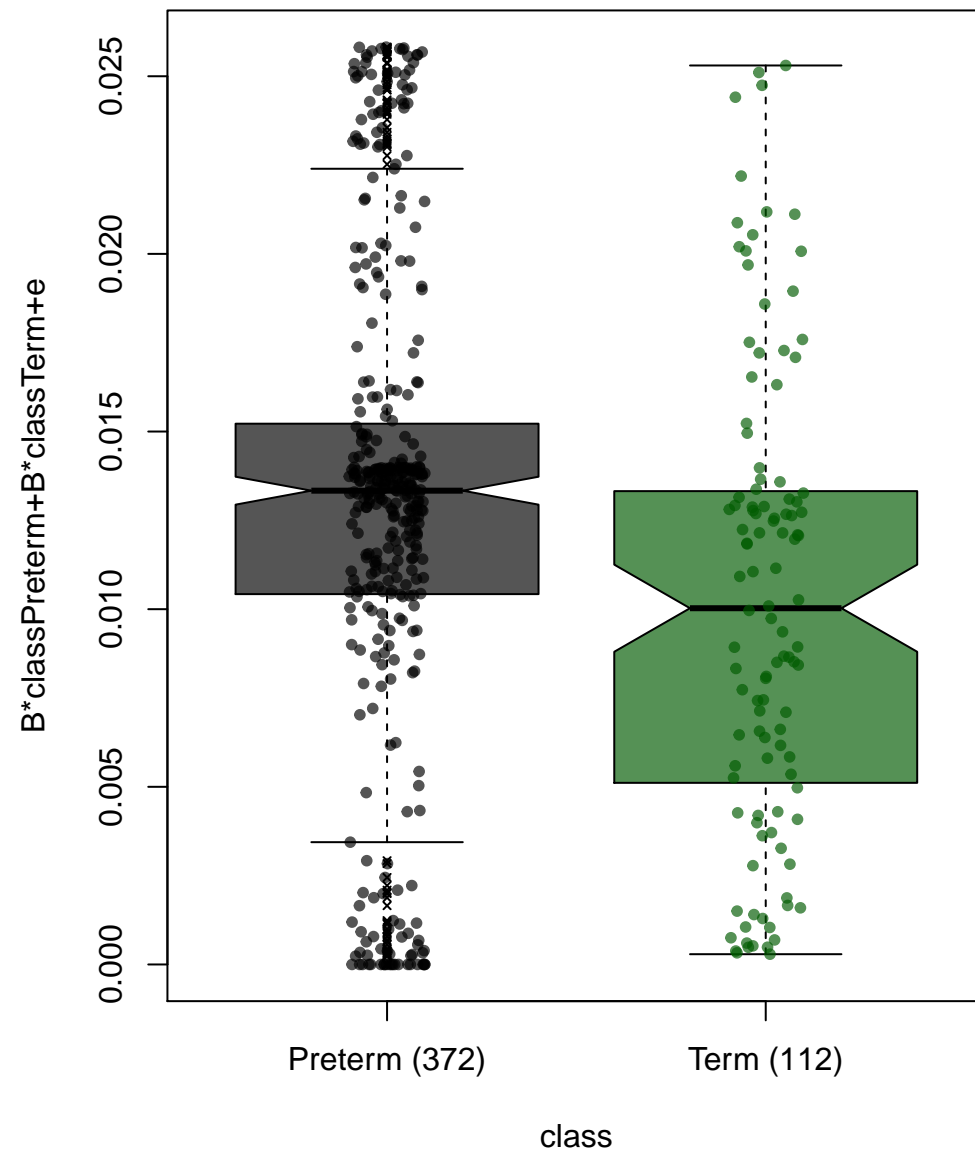
Partial Residual Plot



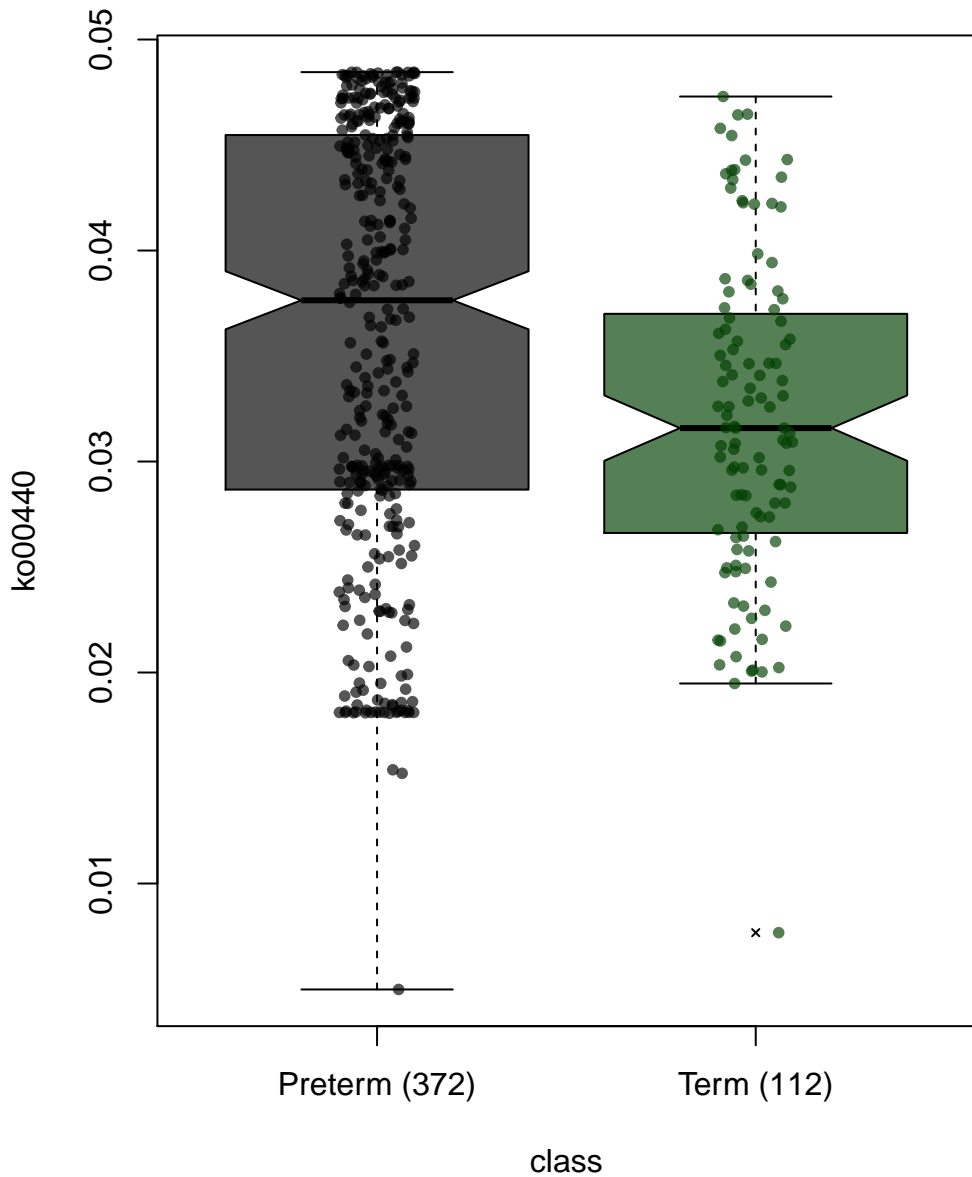
classTerm (−0.00282 sd 0.000735, p=0.000143, q=0.000219)



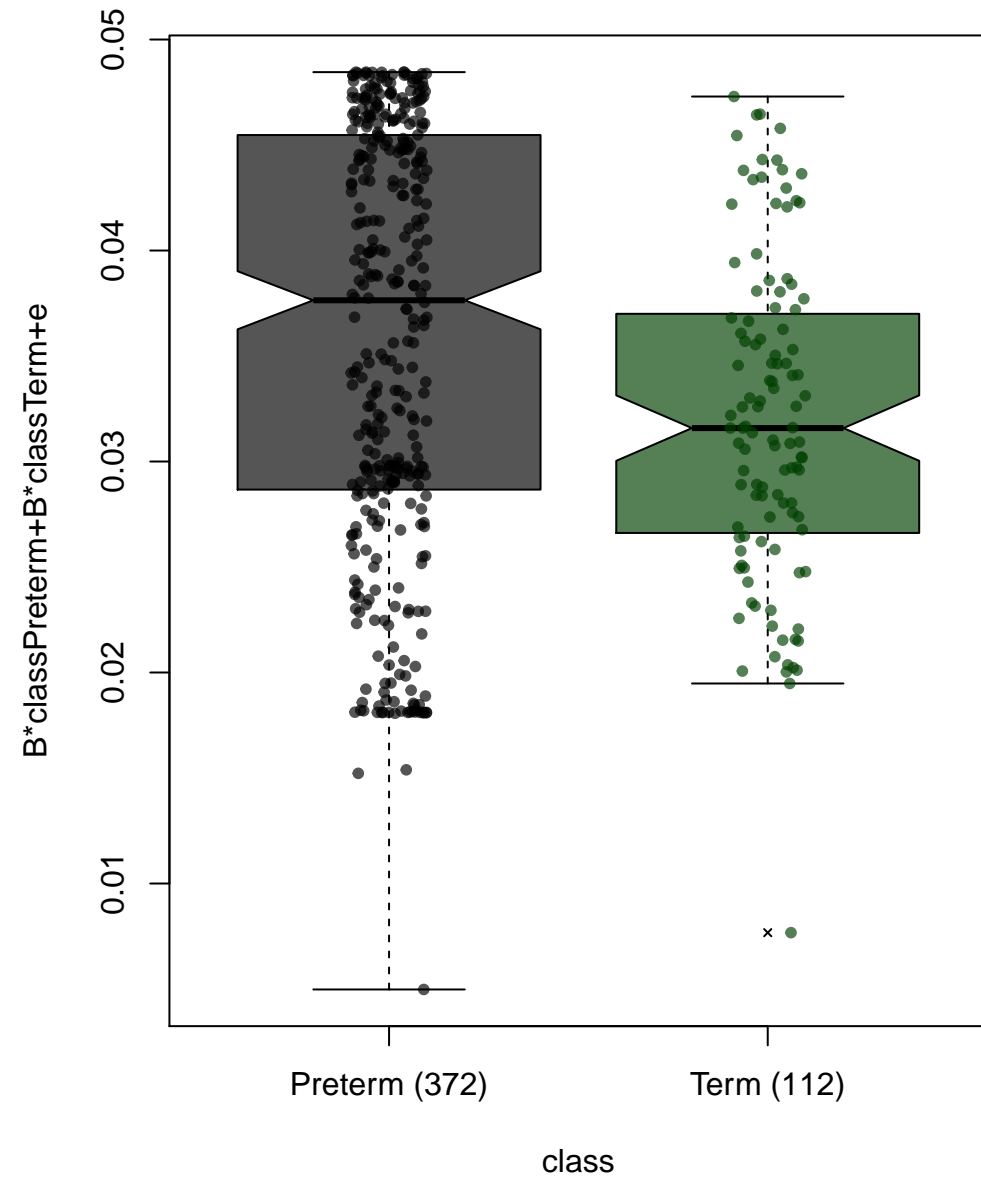
Partial Residual Plot



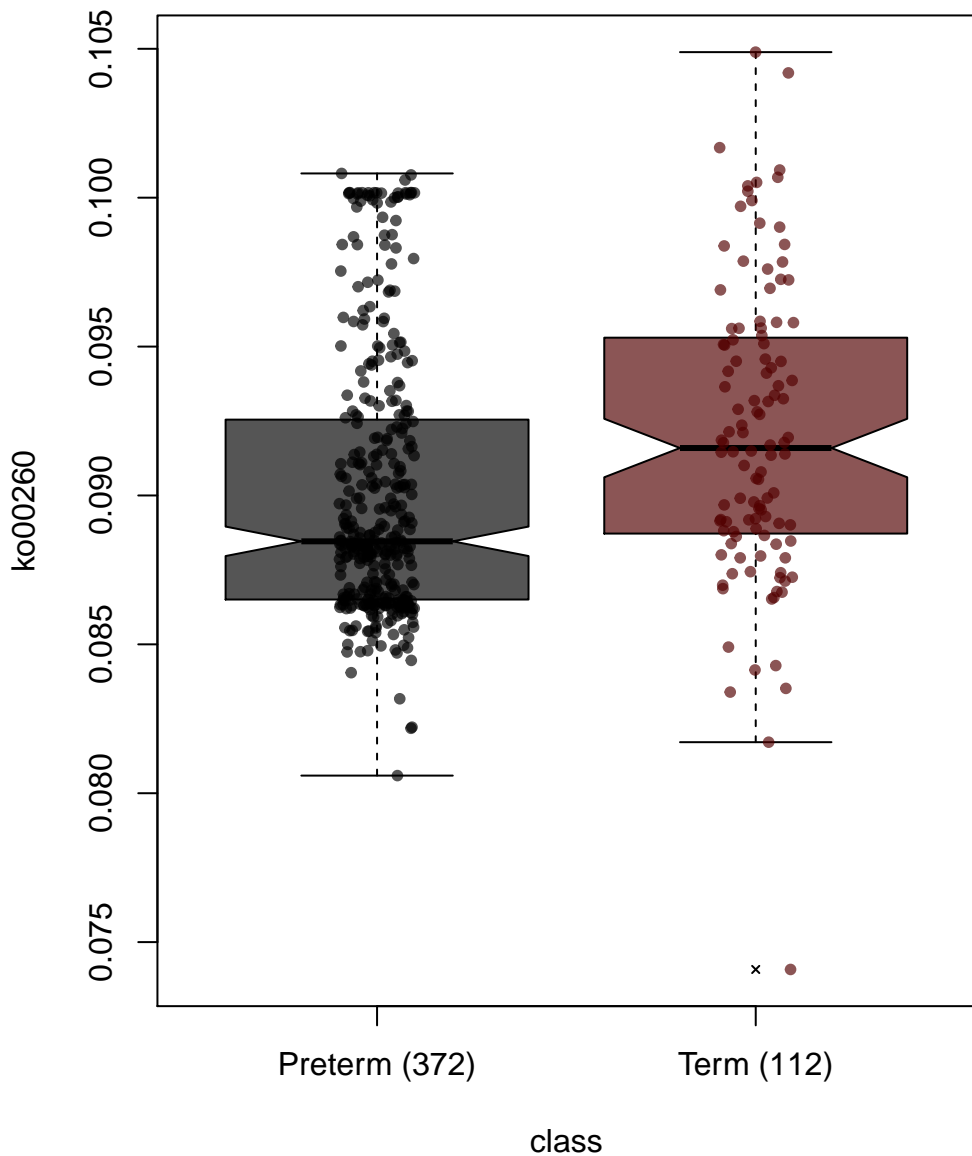
classTerm (-0.00387 sd 0.00103 , $p=0.000185$, $q=0.000281$)



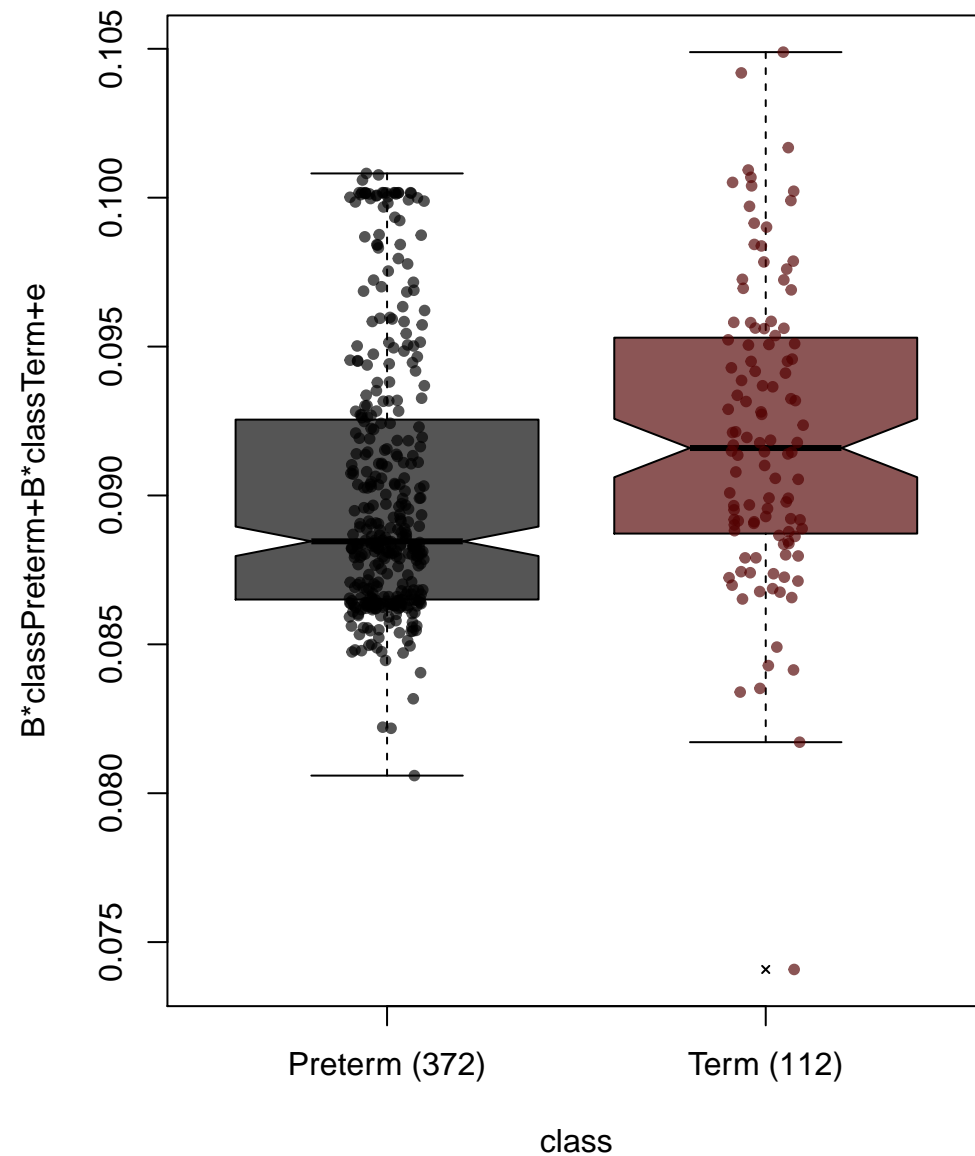
Partial Residual Plot



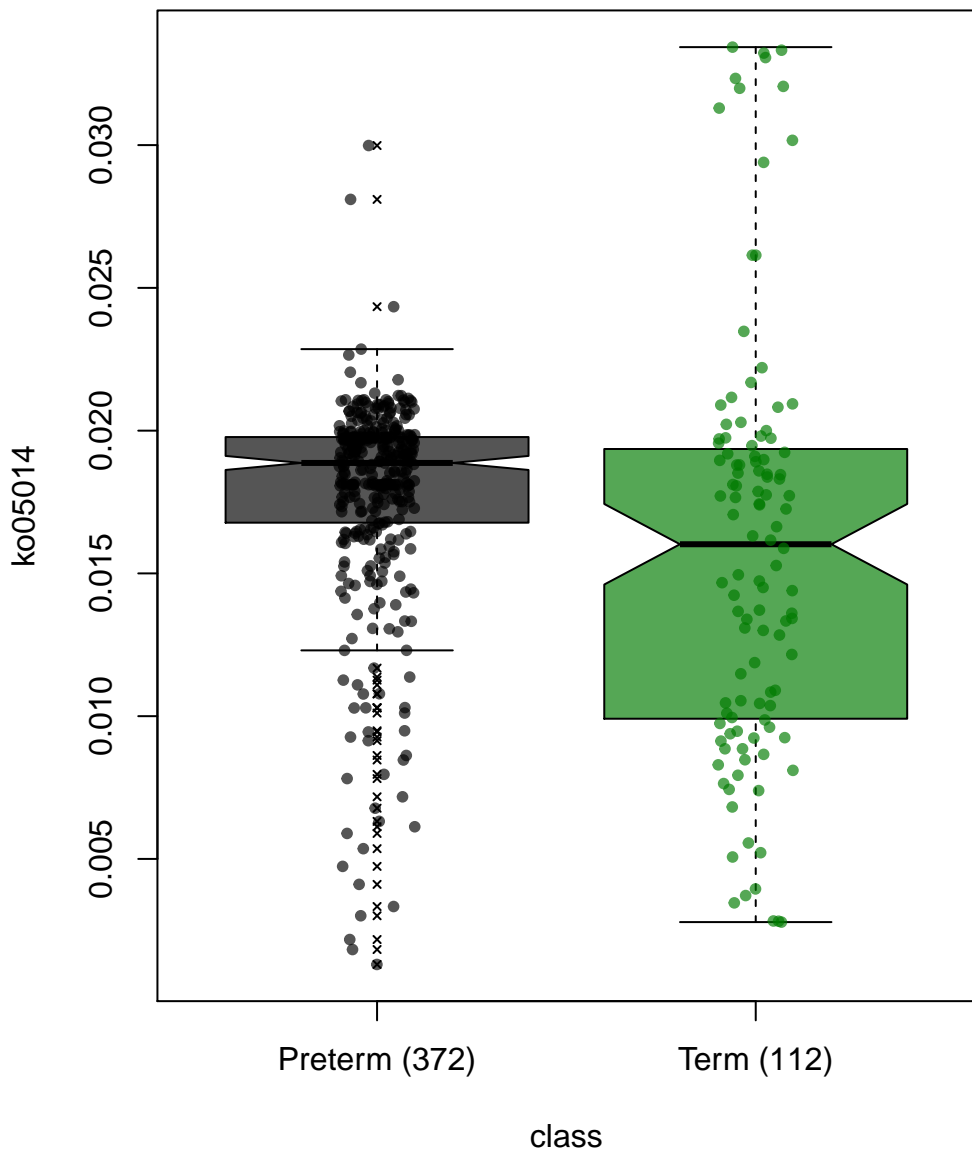
classTerm (0.00189 sd 0.000501, p=0.000186, q=0.000281)



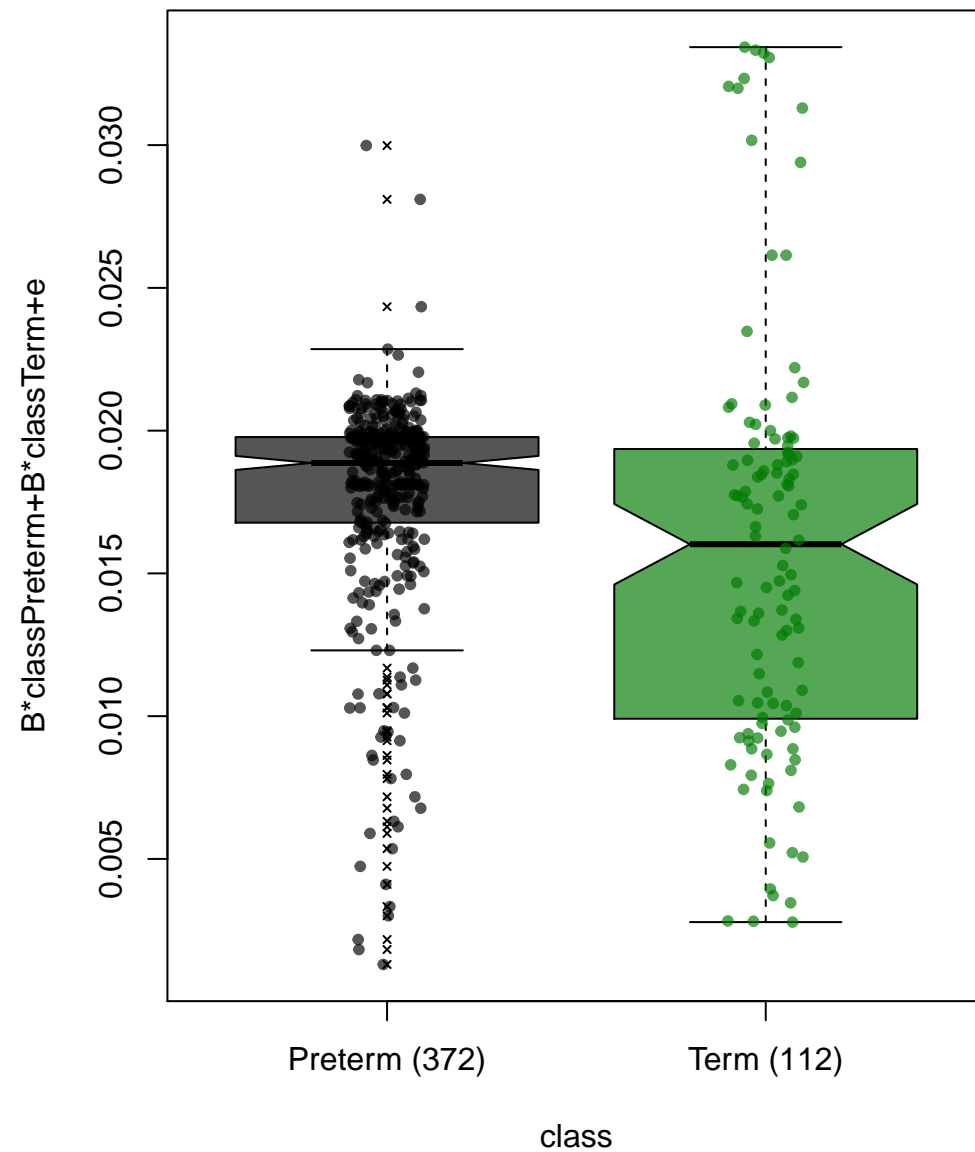
Partial Residual Plot



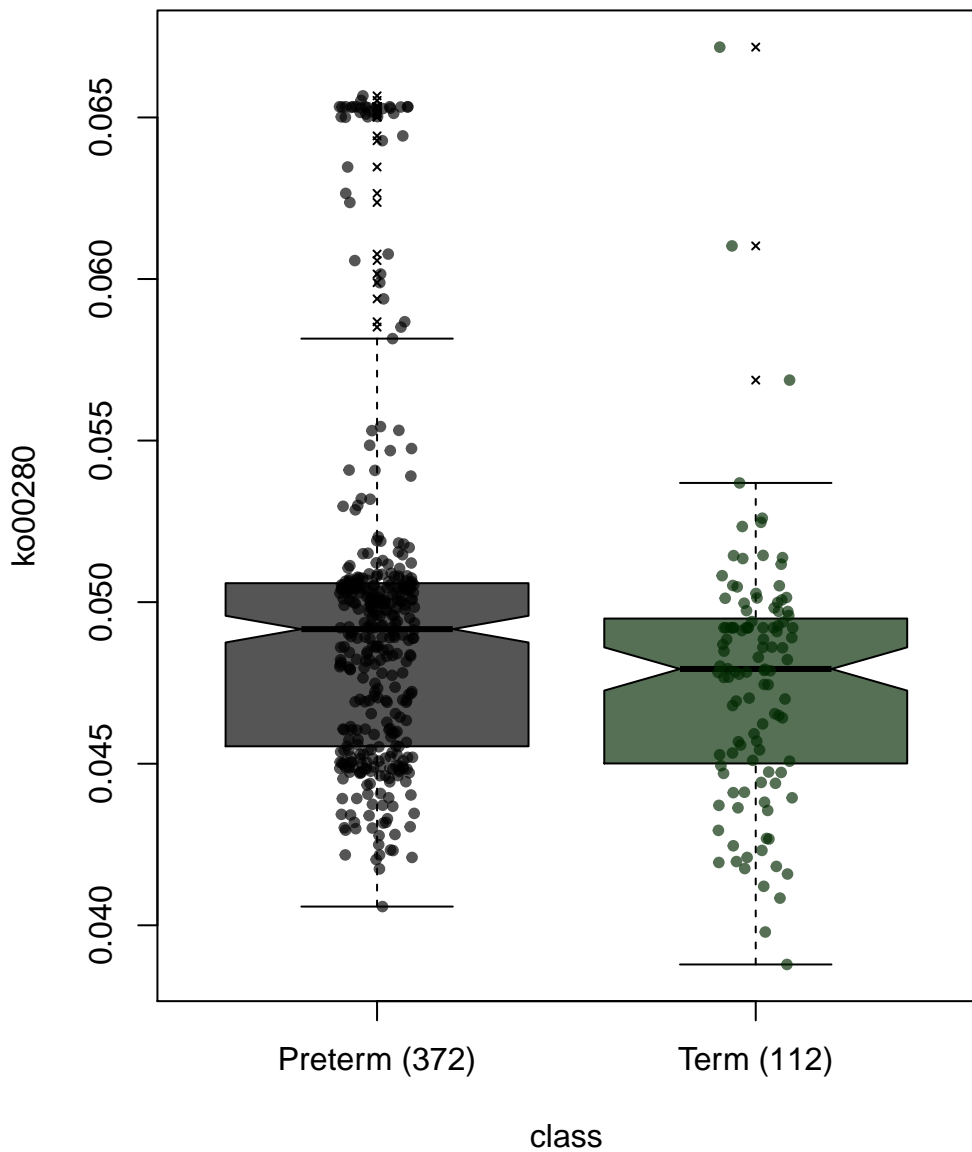
classTerm (−0.00196 sd 0.000523, p=0.000204, q=0.000308)



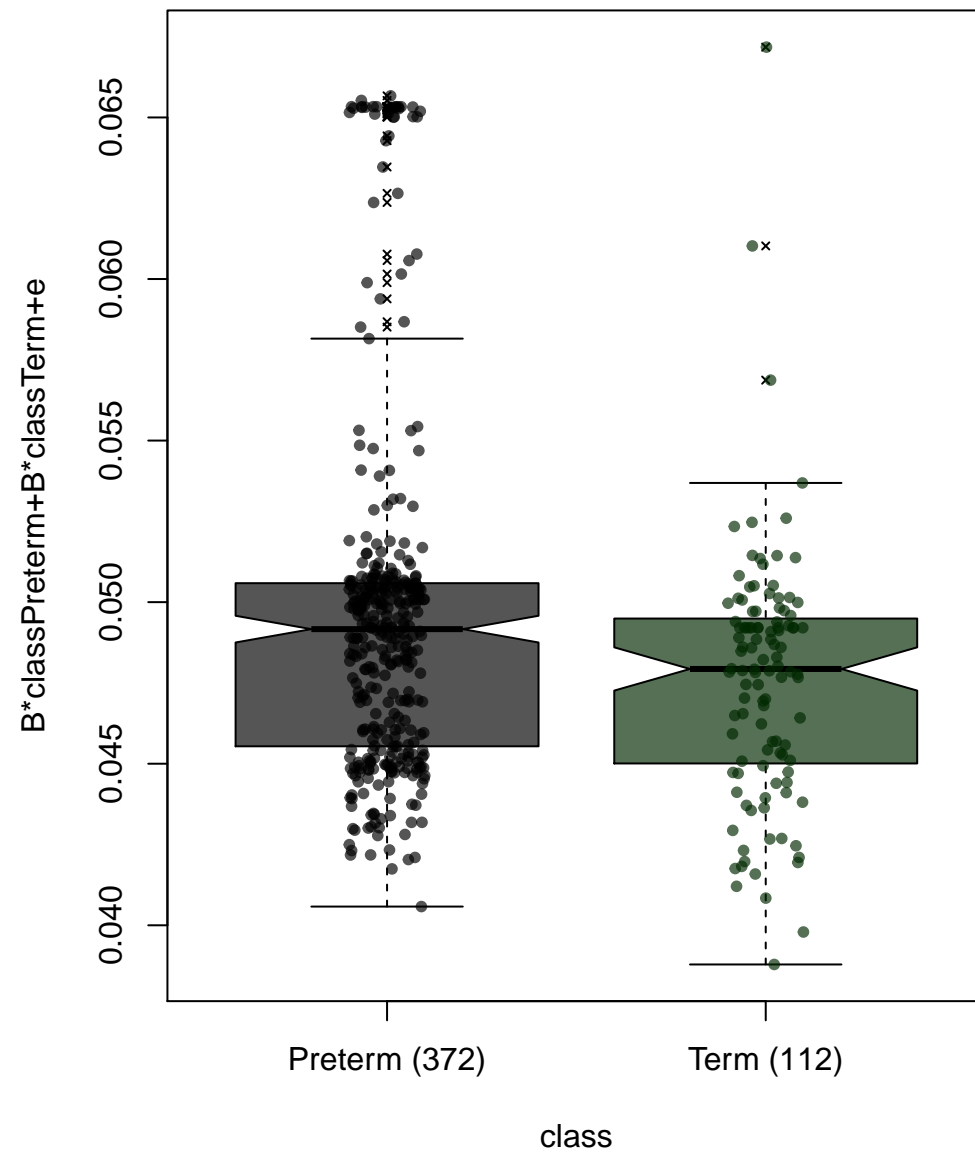
Partial Residual Plot



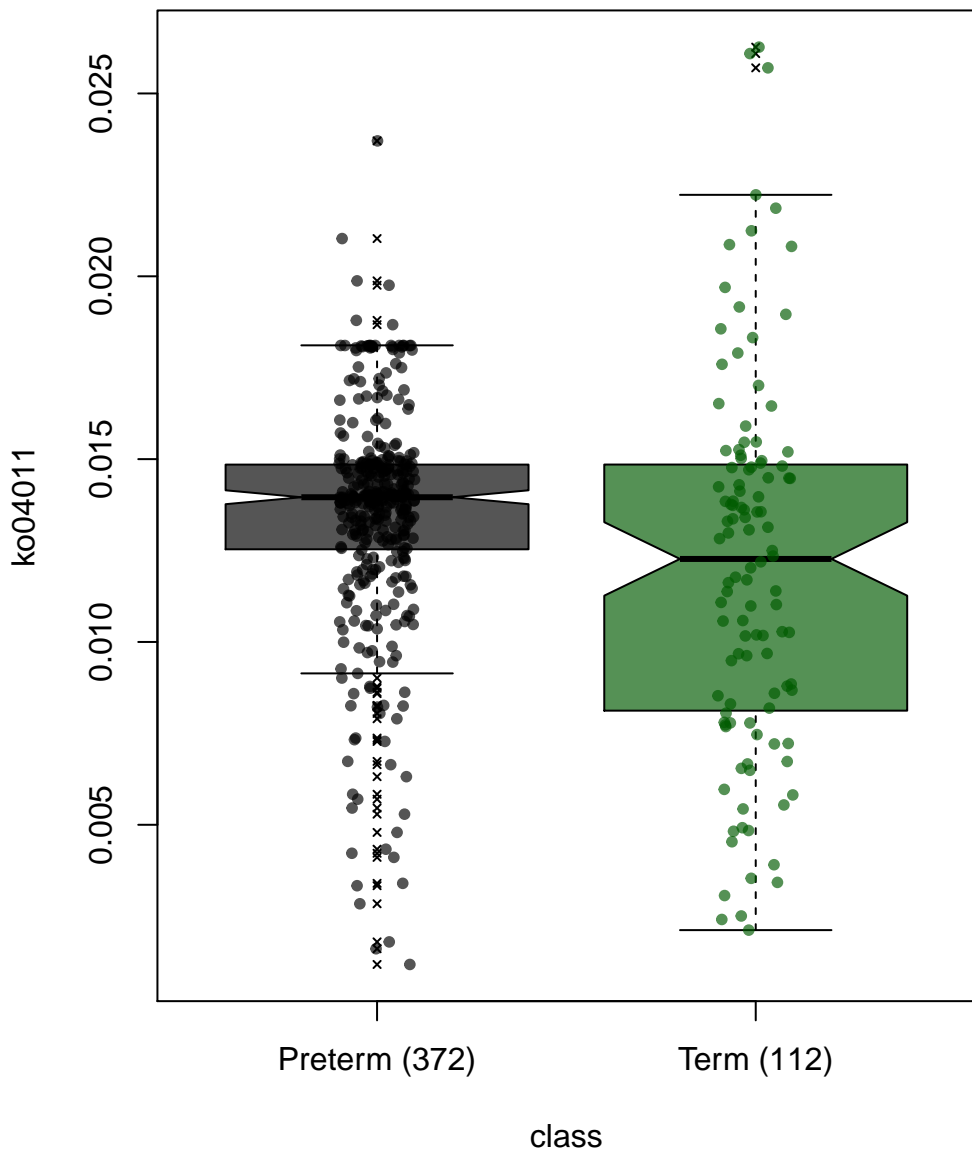
classTerm (-0.00209 sd 0.000571, p=0.000285, q=0.000427)



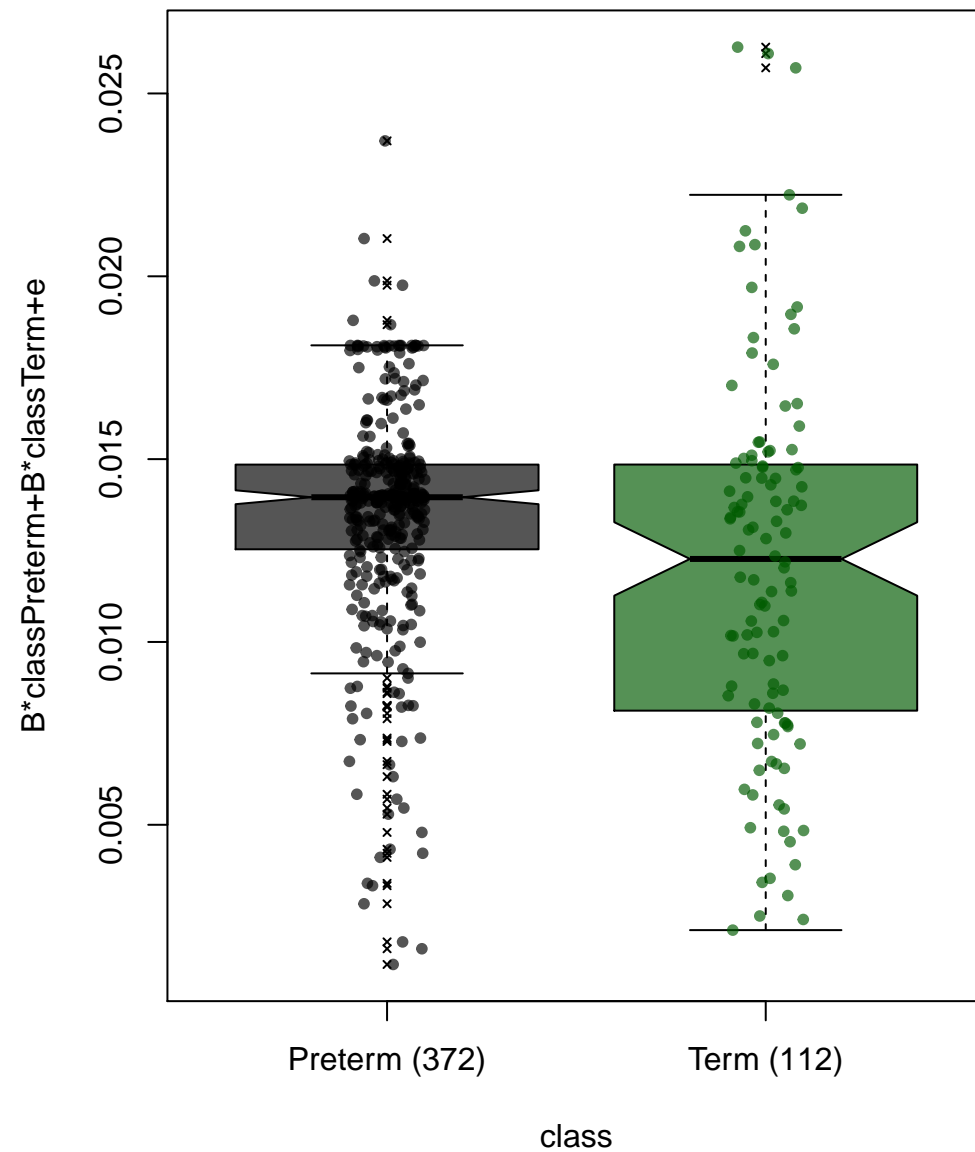
Partial Residual Plot



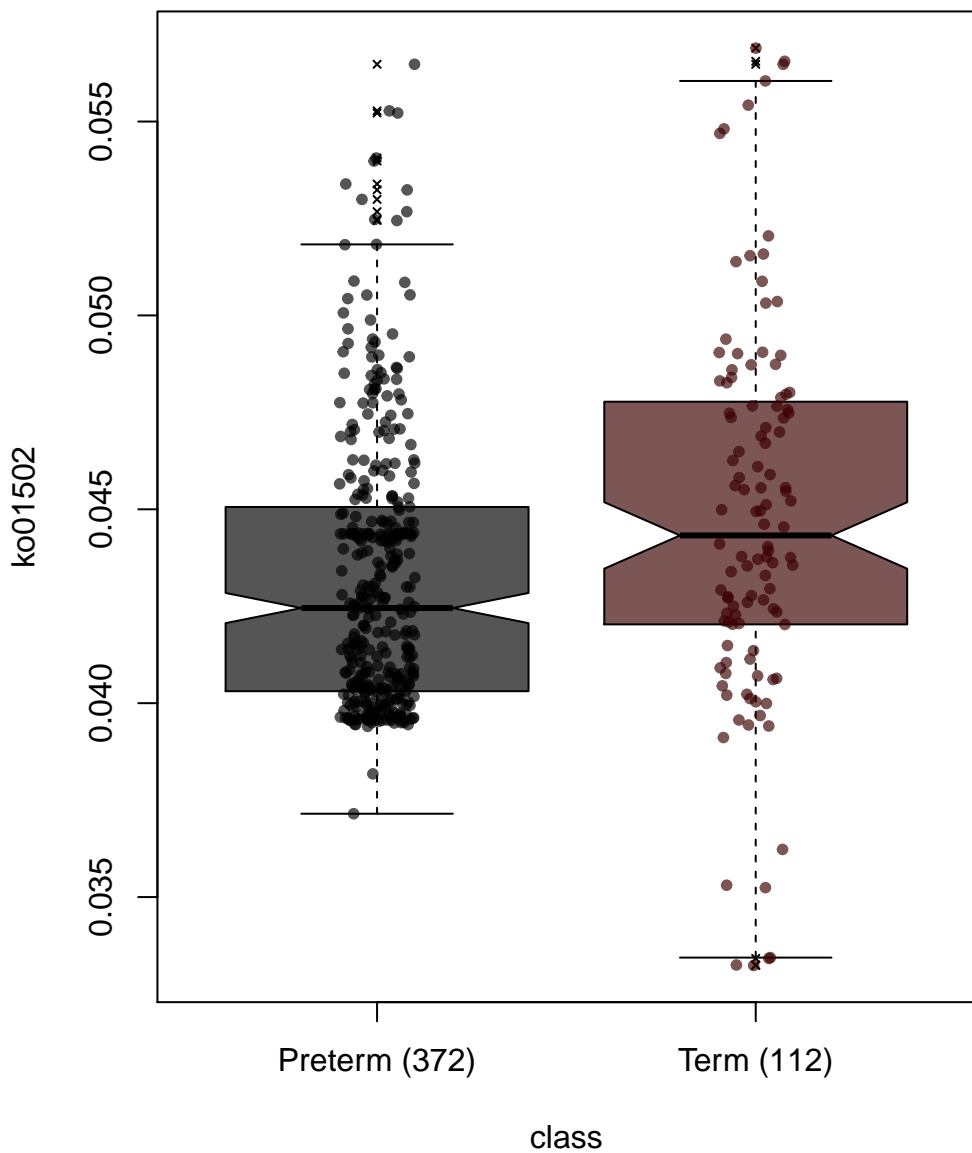
classTerm (-0.00144 sd 0.000396, p=0.000306, q=0.000456)



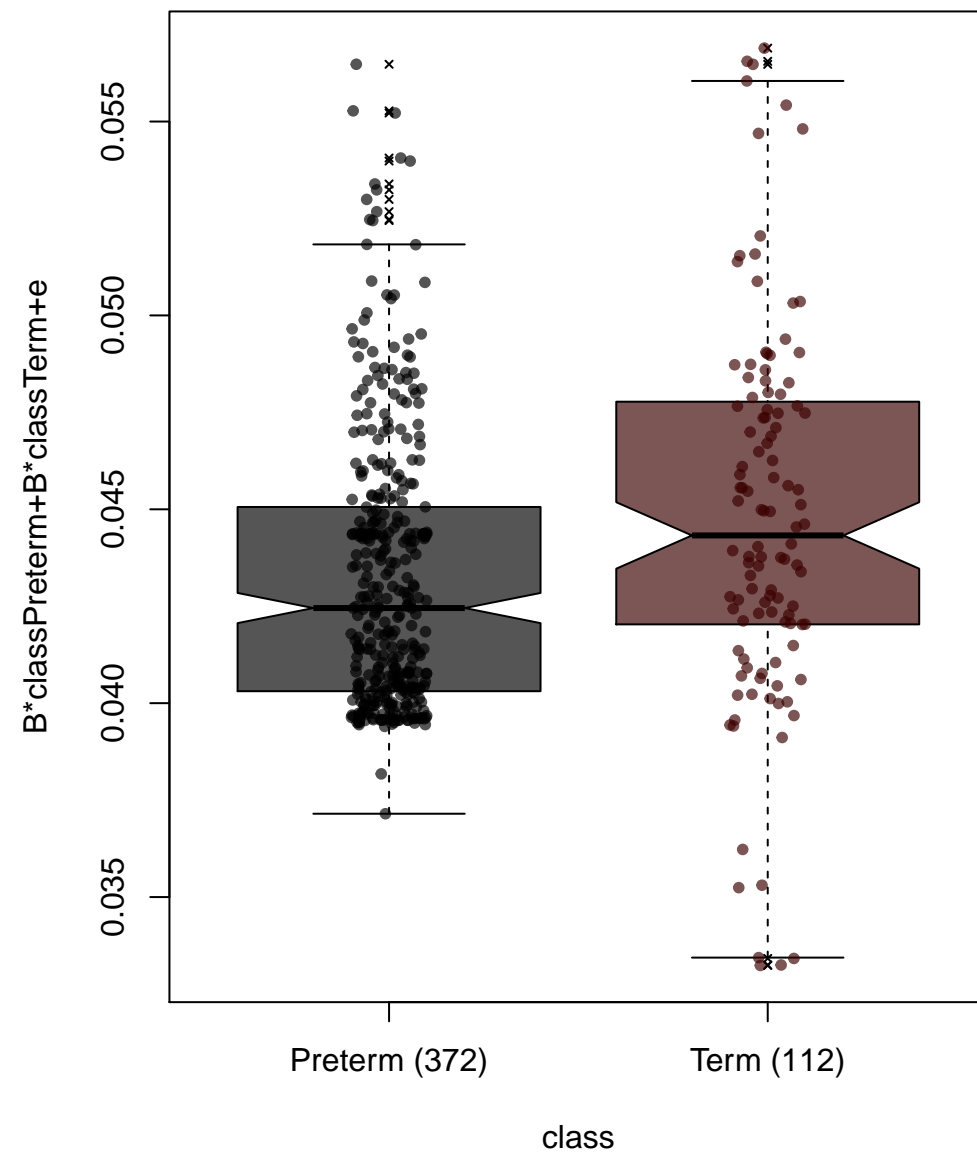
Partial Residual Plot



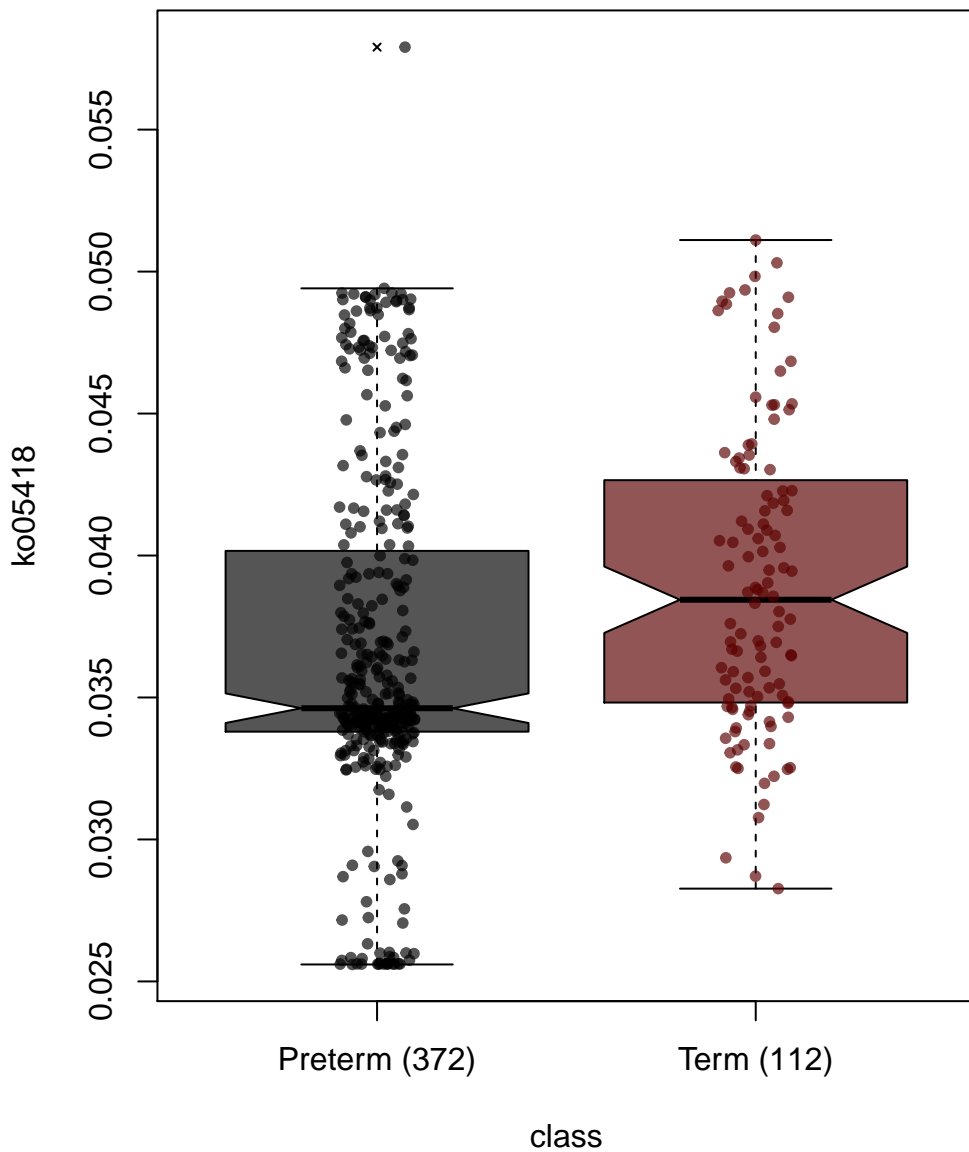
classTerm (0.00152 sd 0.000423, p=0.000364, q=0.00054)



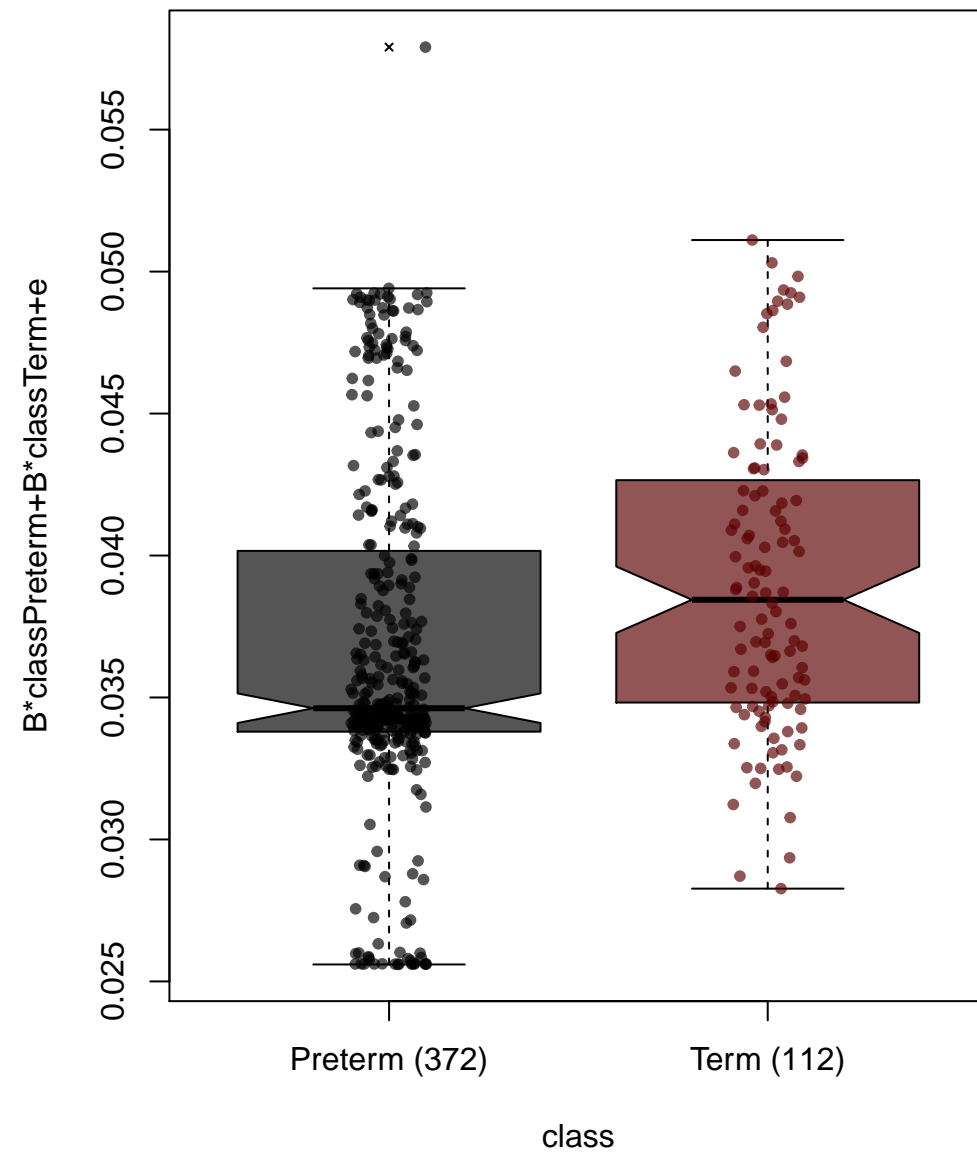
Partial Residual Plot



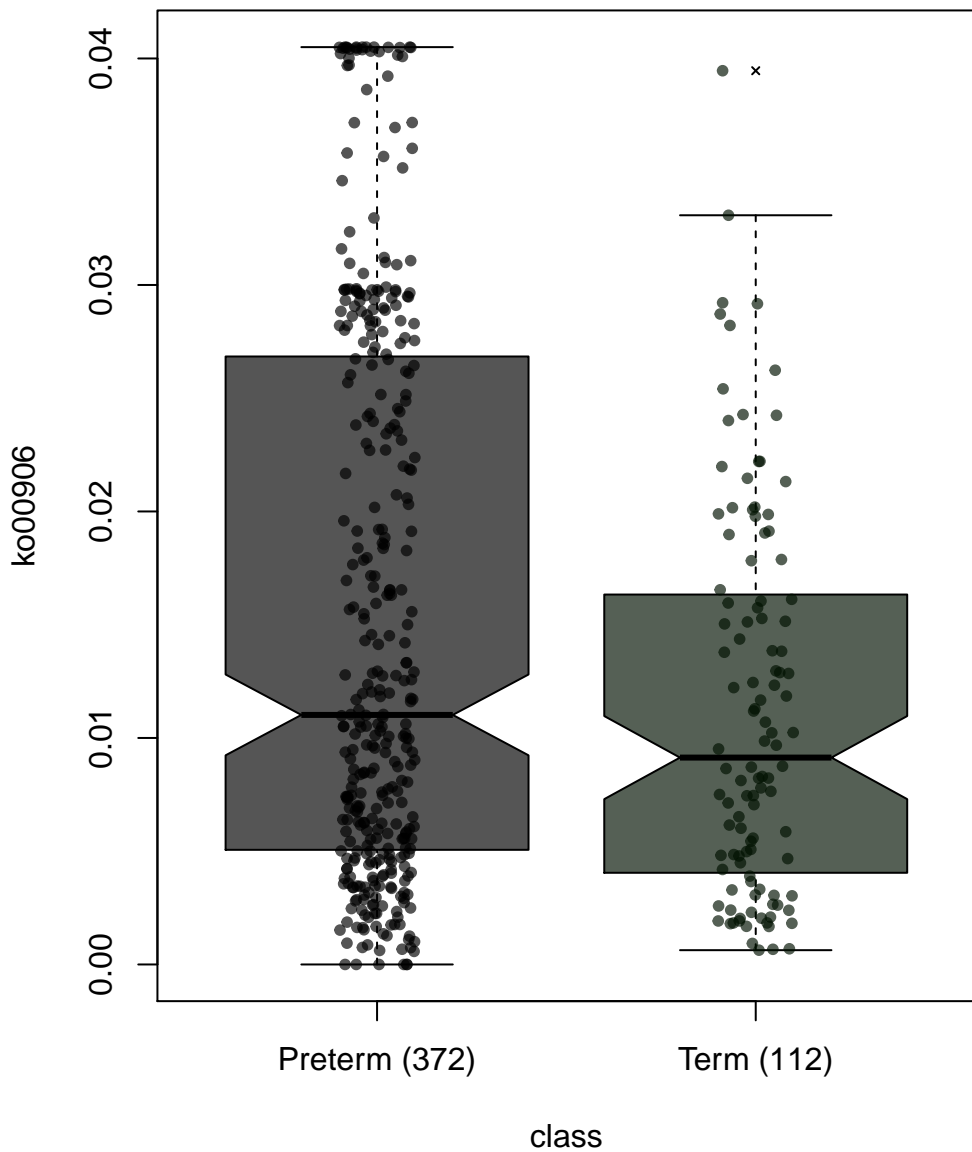
classTerm (0.00226 sd 0.000644, p=0.000498, q=0.000735)



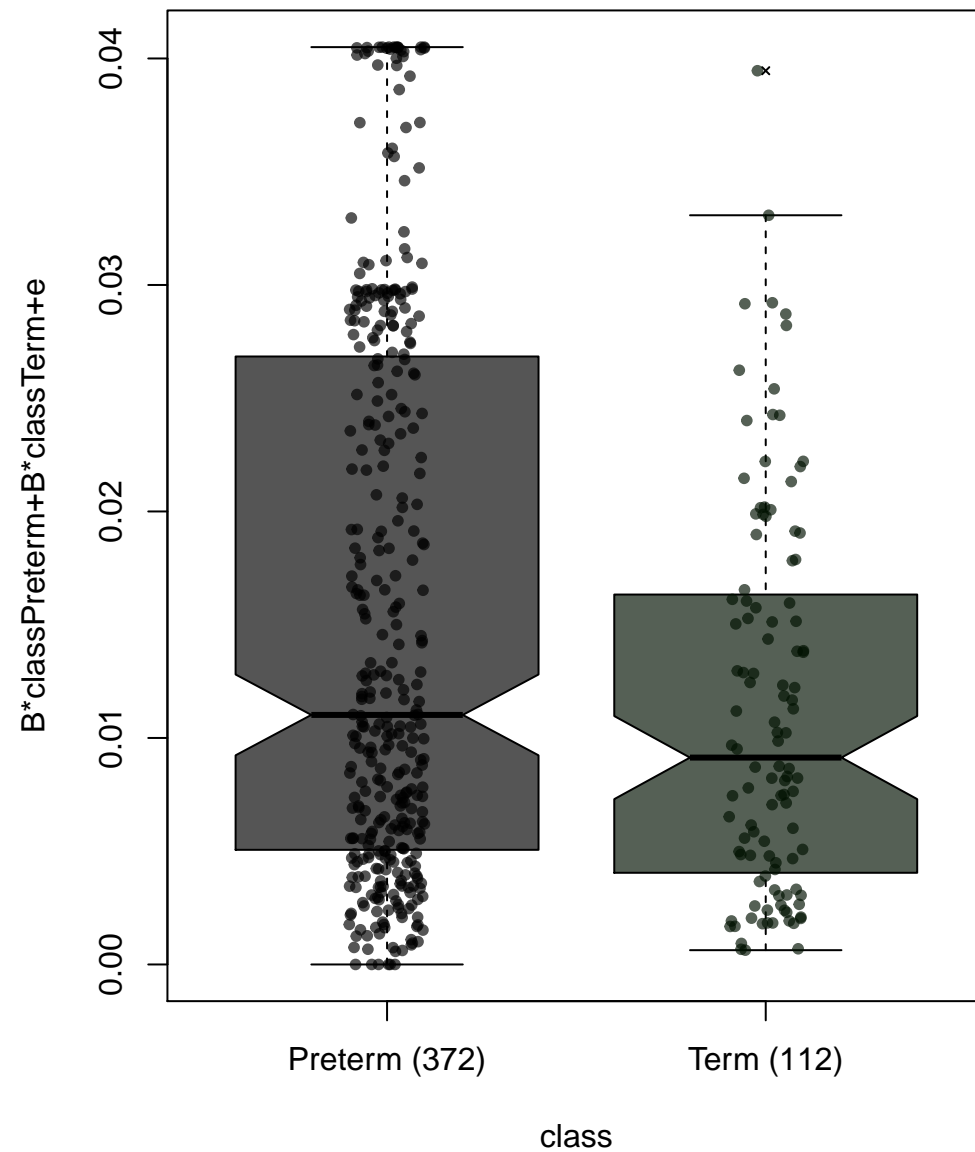
Partial Residual Plot



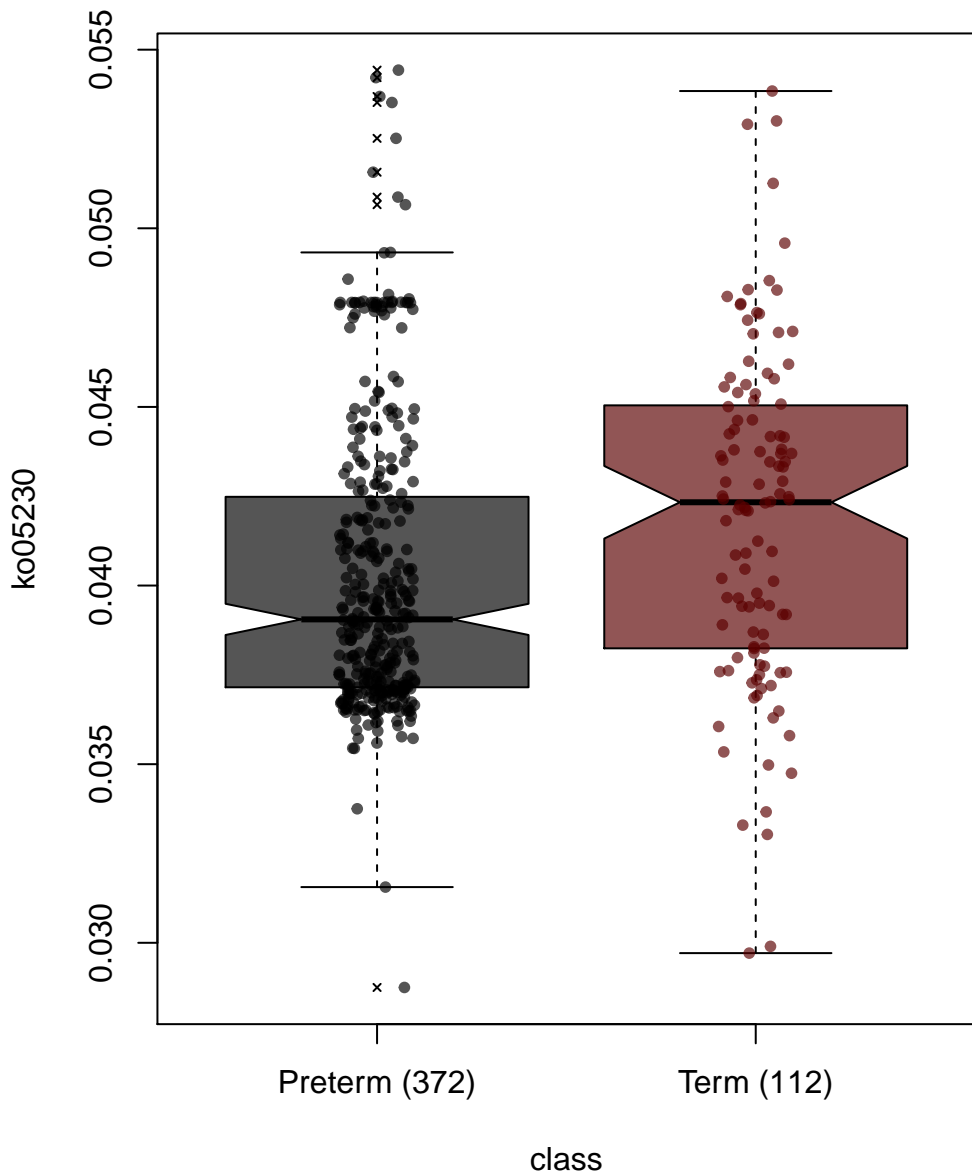
classTerm (-0.00427 sd 0.00123 , $p=0.00055$, $q=0.000808$)



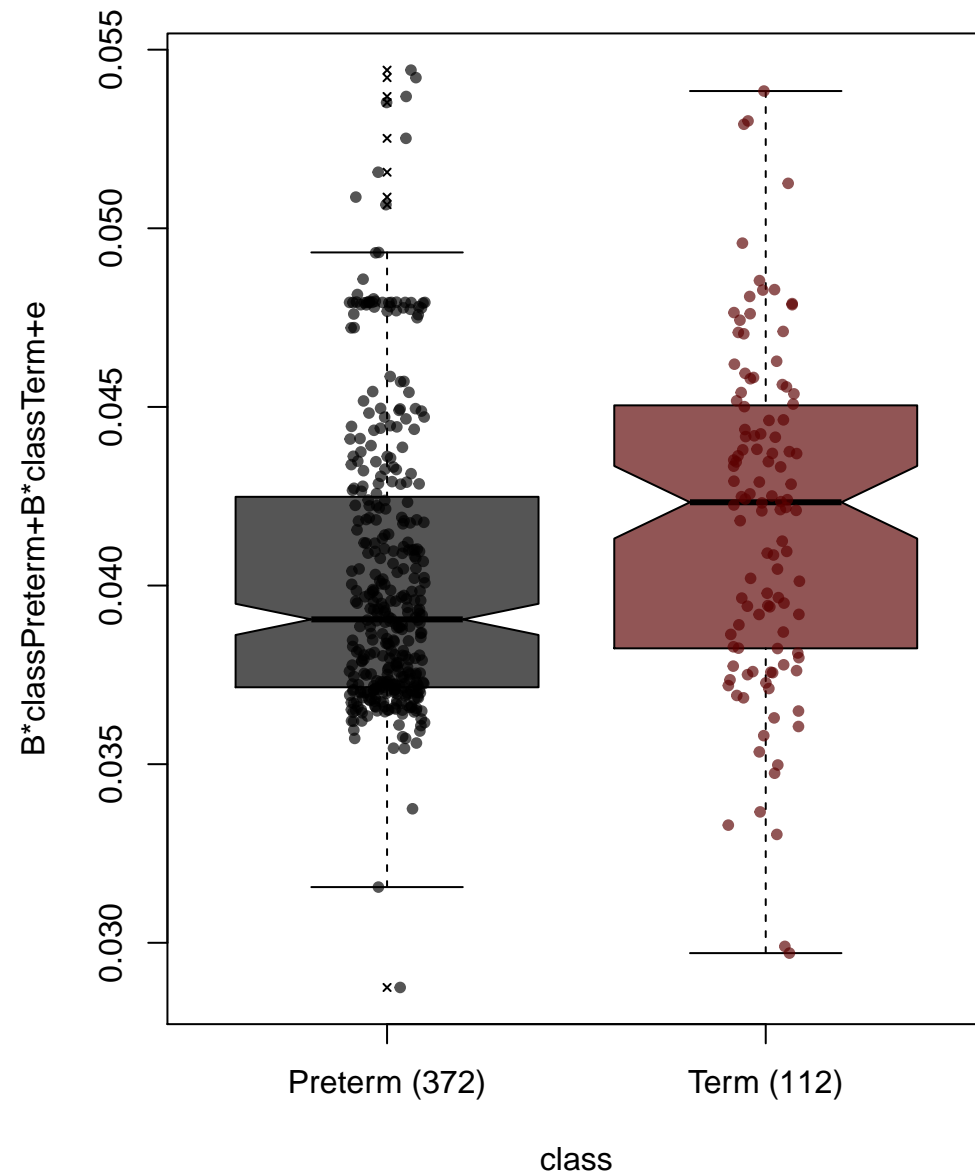
Partial Residual Plot



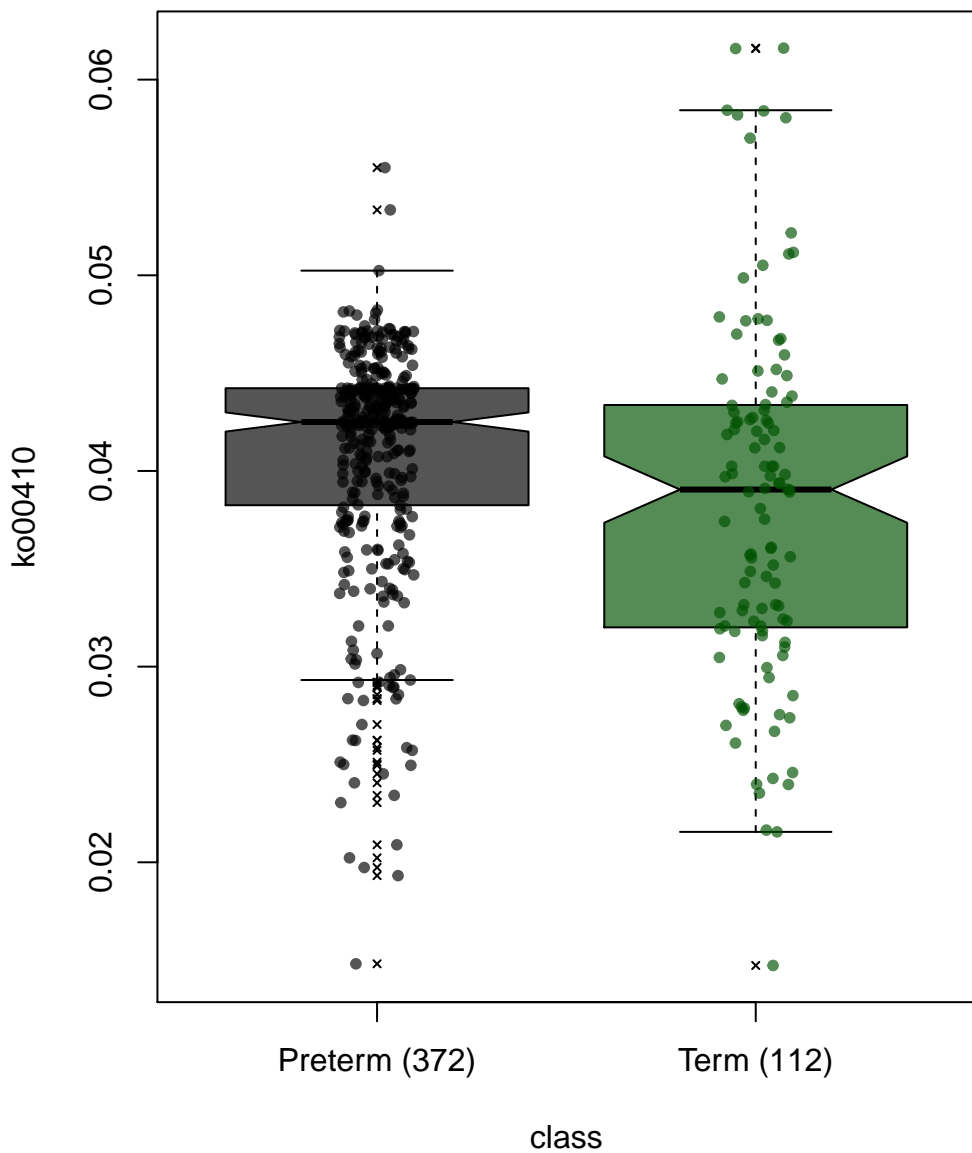
classTerm (0.00158 sd 0.000455, p=0.000581, q=0.000849)



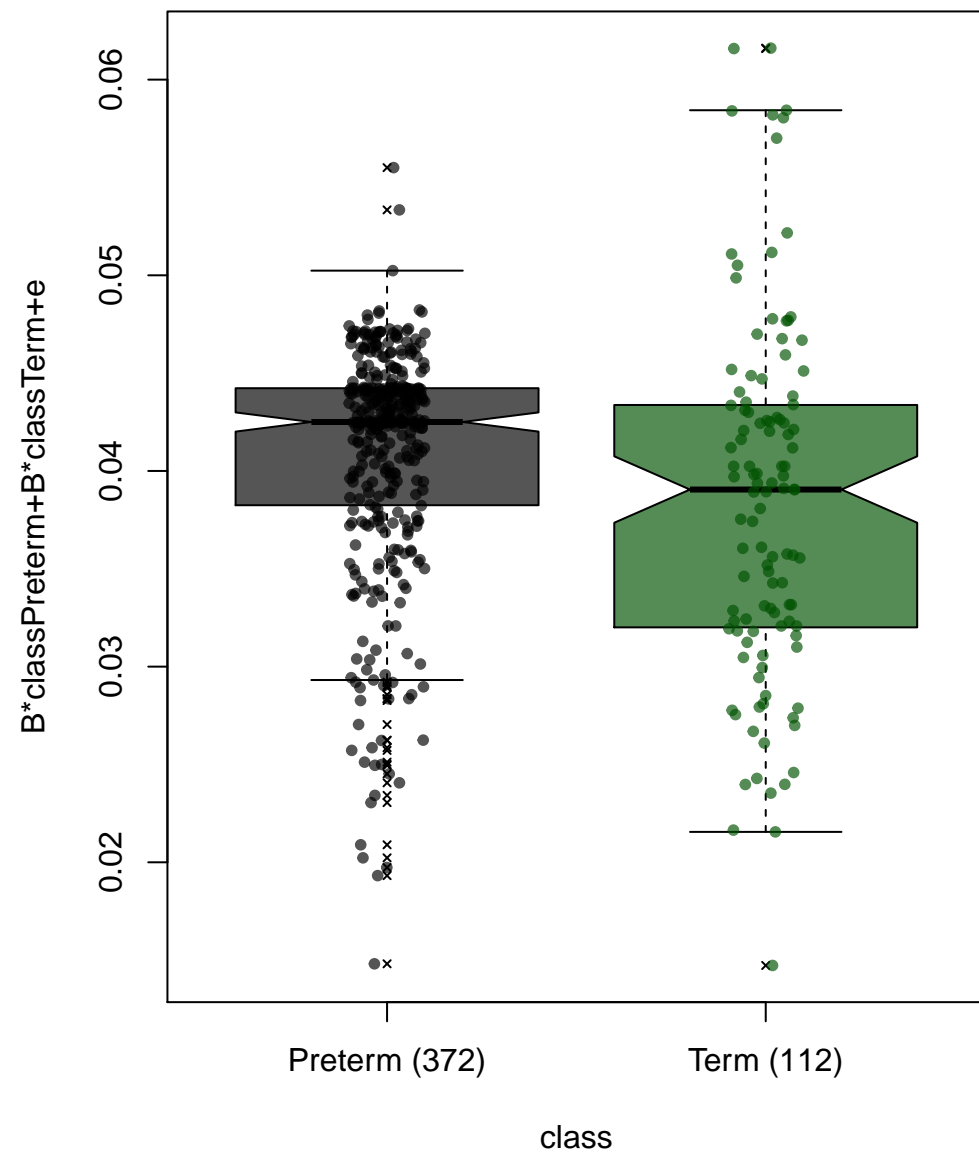
Partial Residual Plot



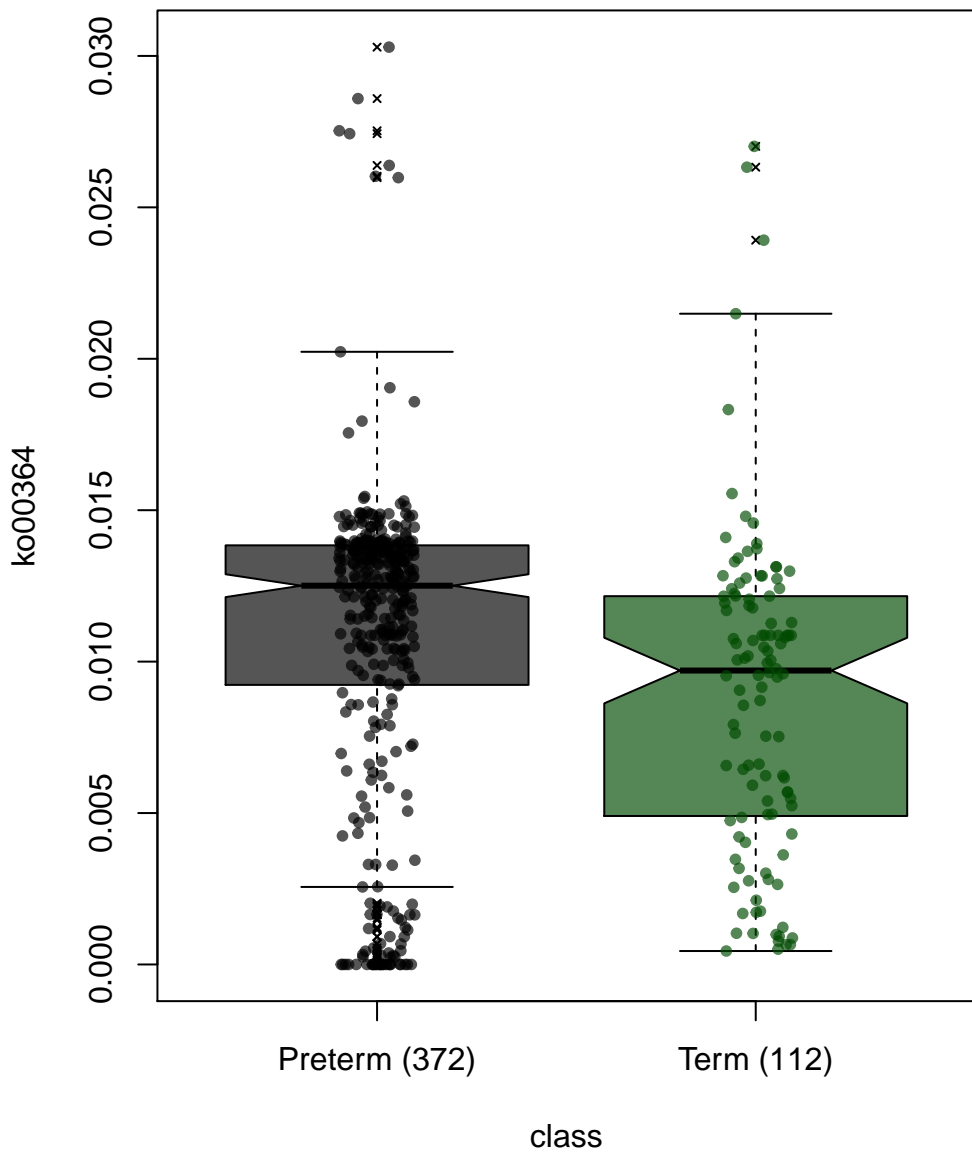
classTerm (-0.00247 sd 0.00074 , $p=0.000902$, $q=0.00131$)



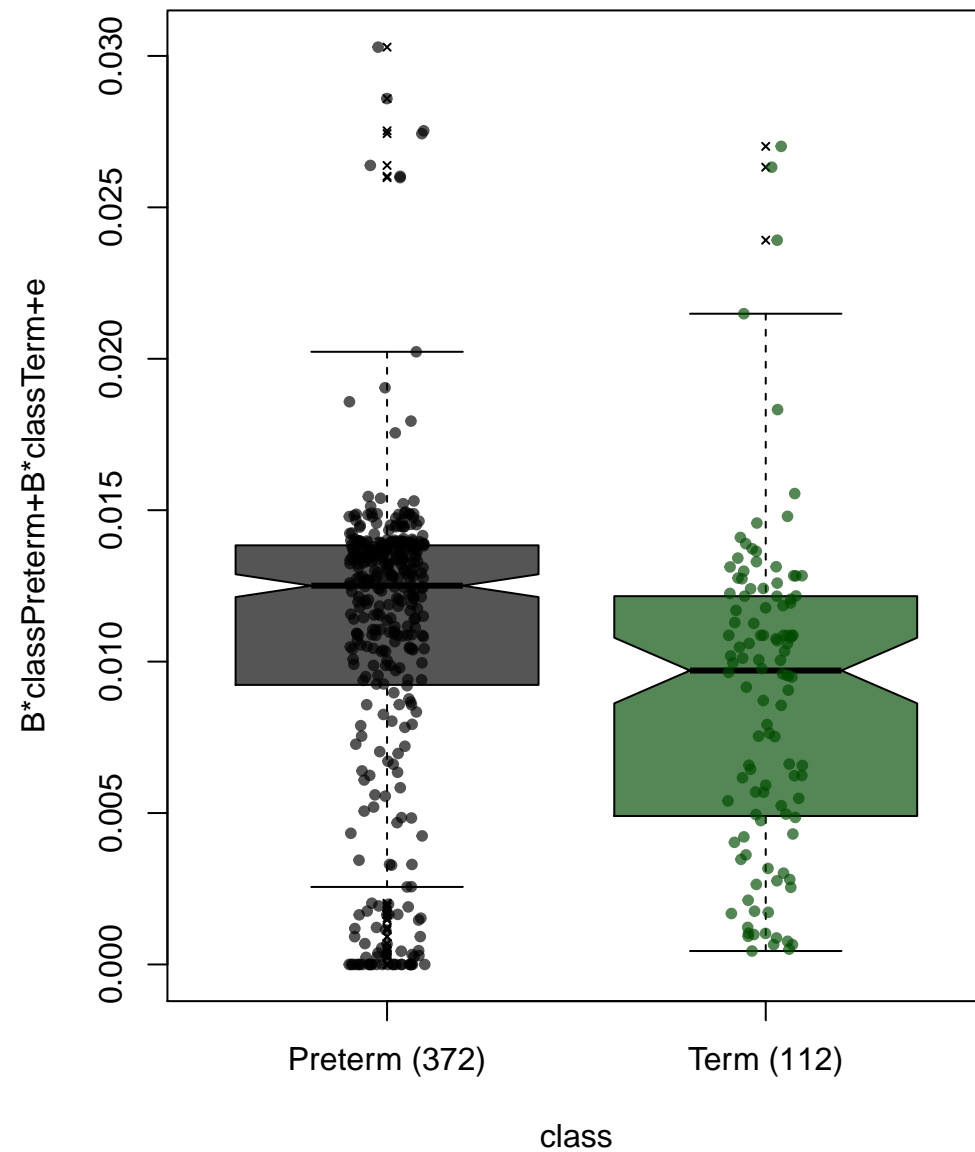
Partial Residual Plot



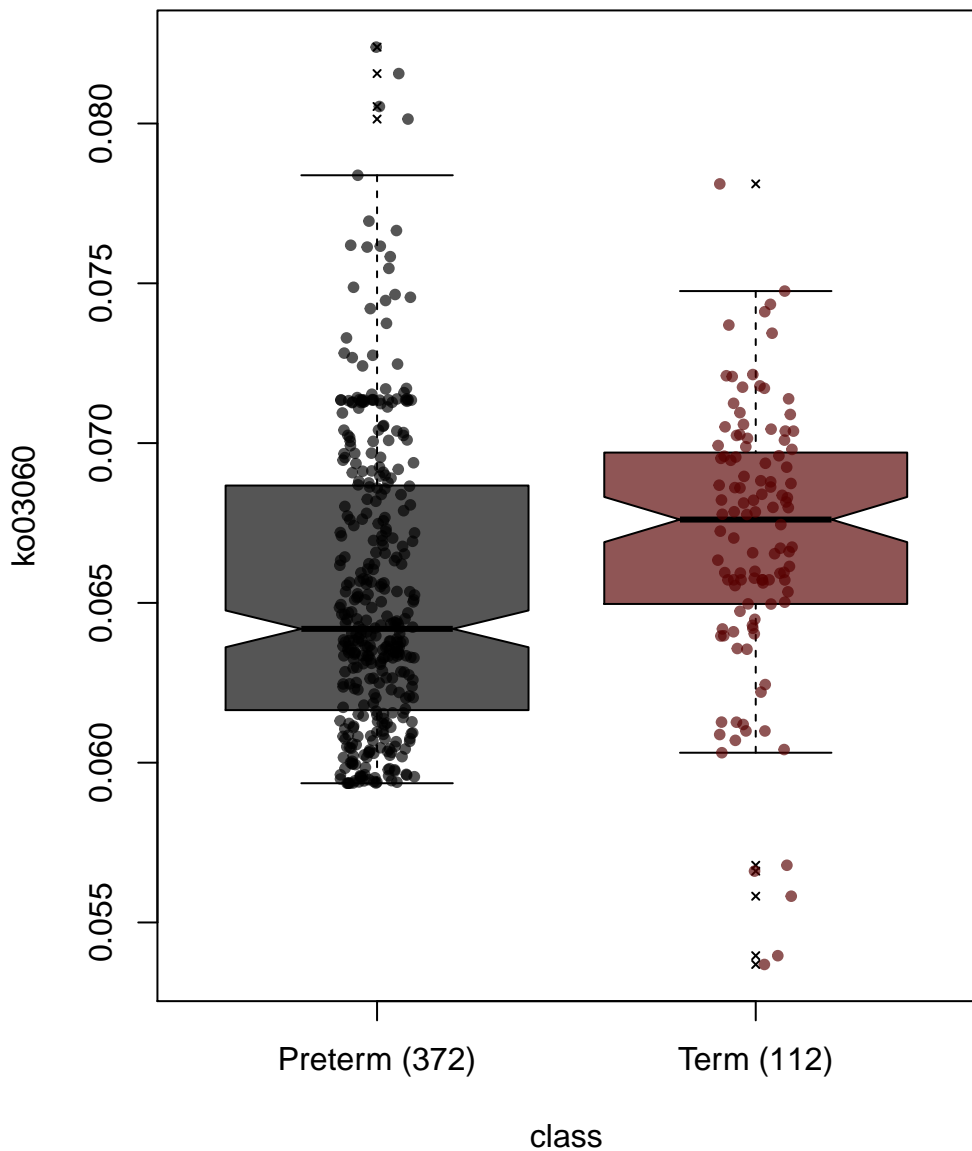
classTerm (-0.0019 sd 0.000573, p=0.00097, q=0.0014)



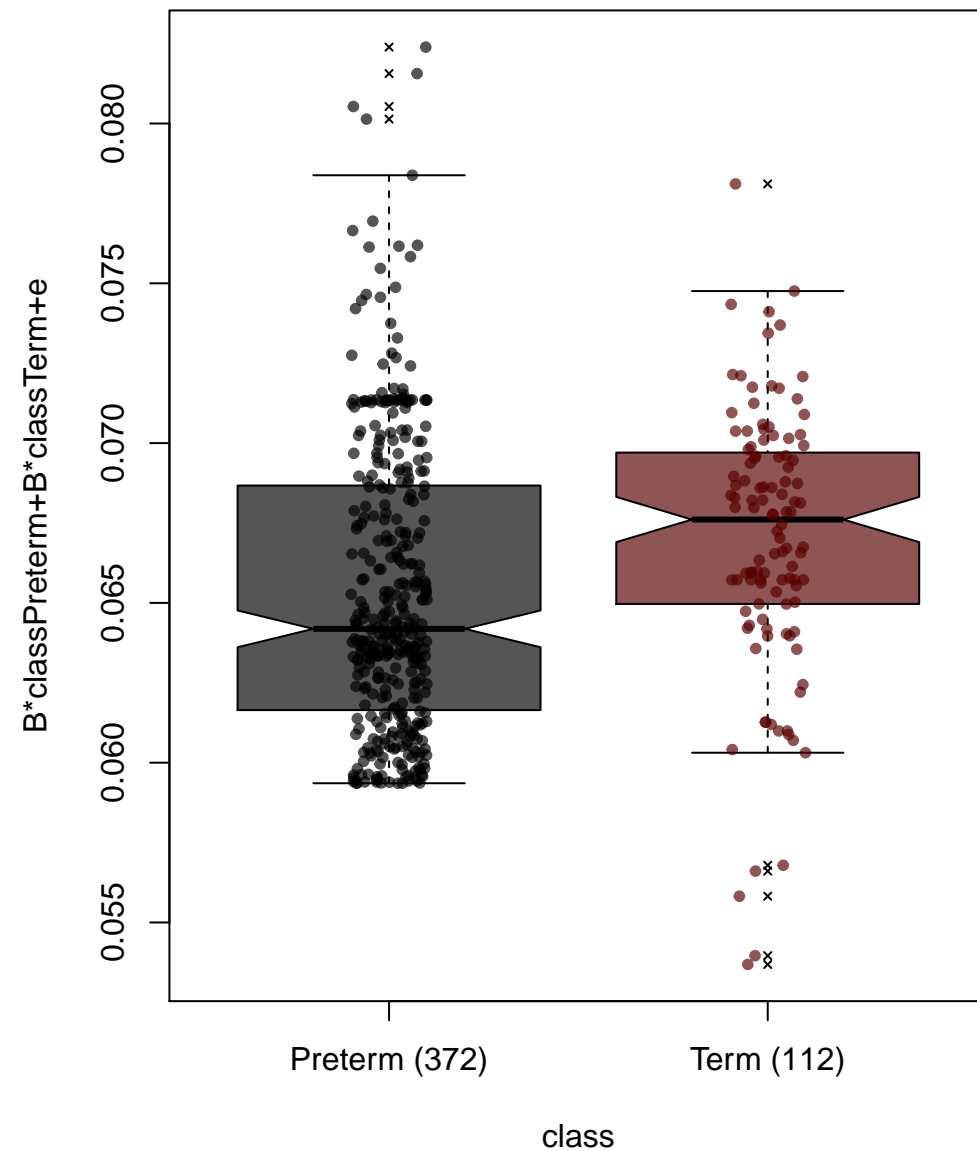
Partial Residual Plot



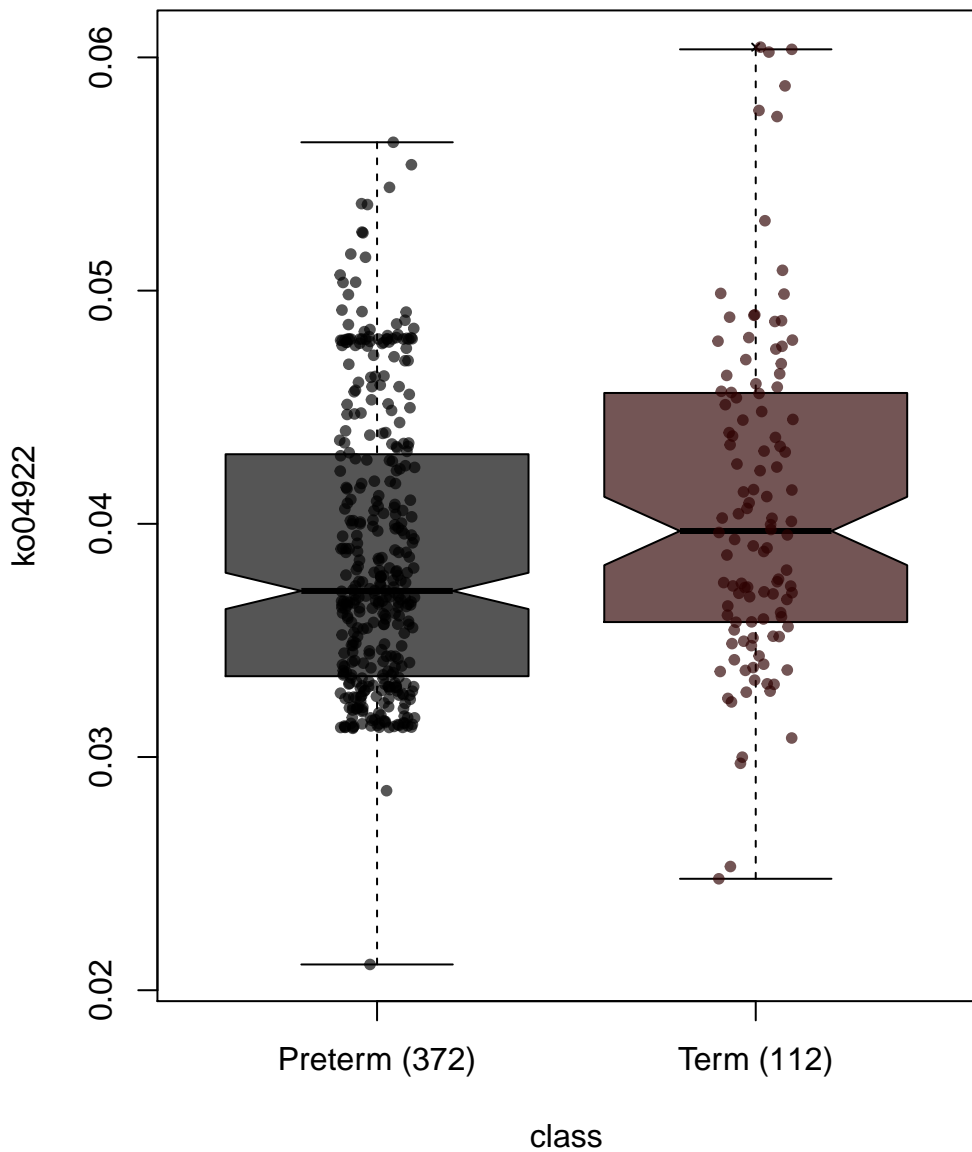
classTerm (0.00159 sd 0.000485, p=0.00114, q=0.00164)



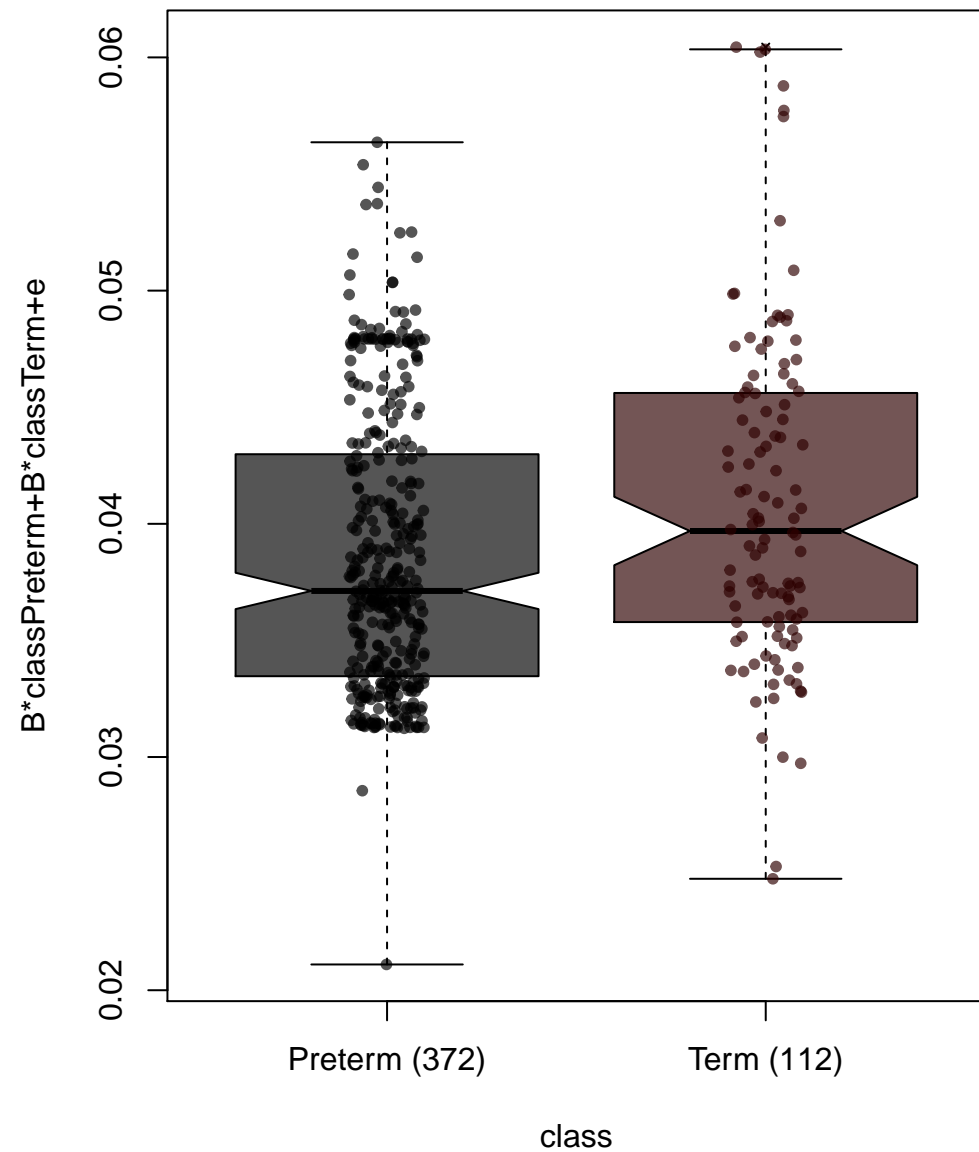
Partial Residual Plot



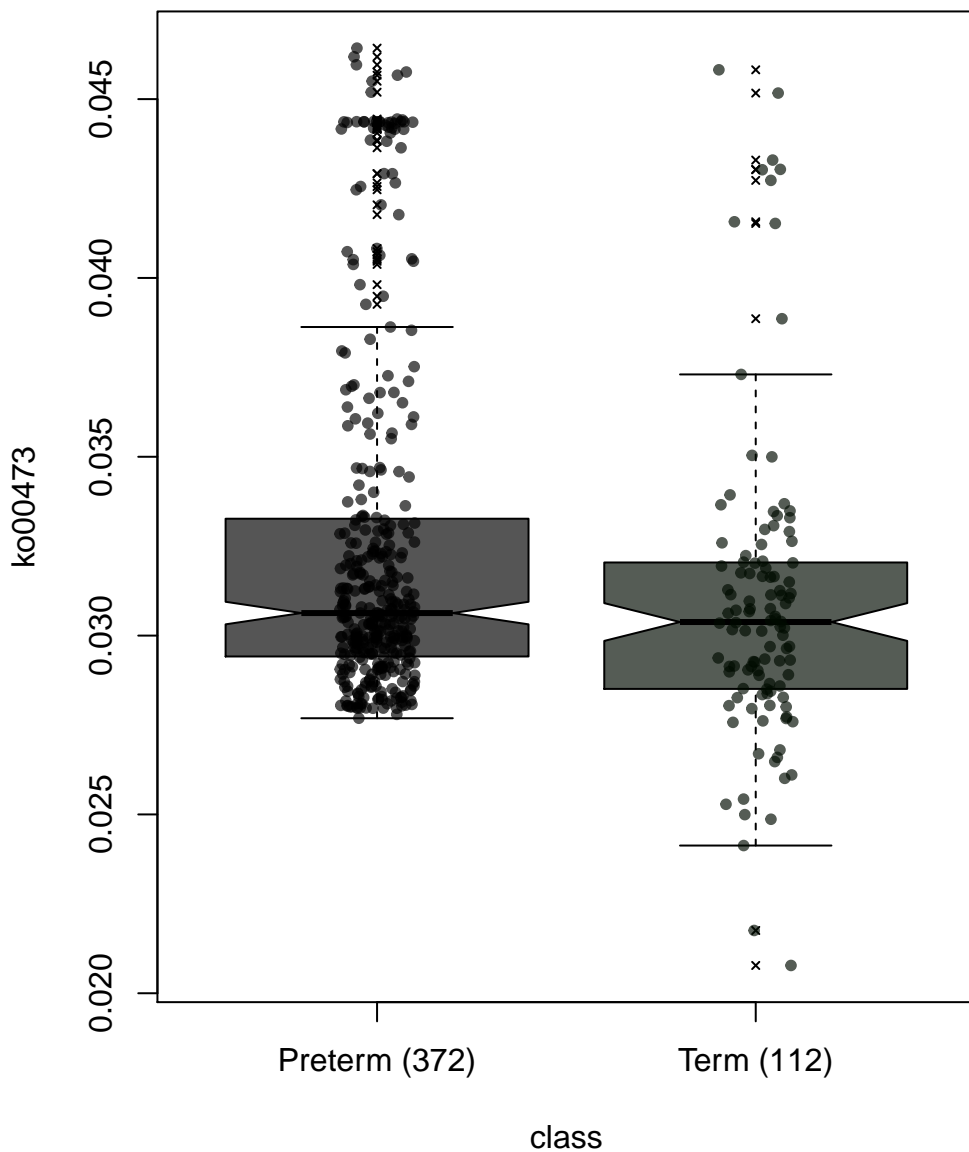
classTerm (0.00221 sd 0.000678, p=0.00119, q=0.0017)



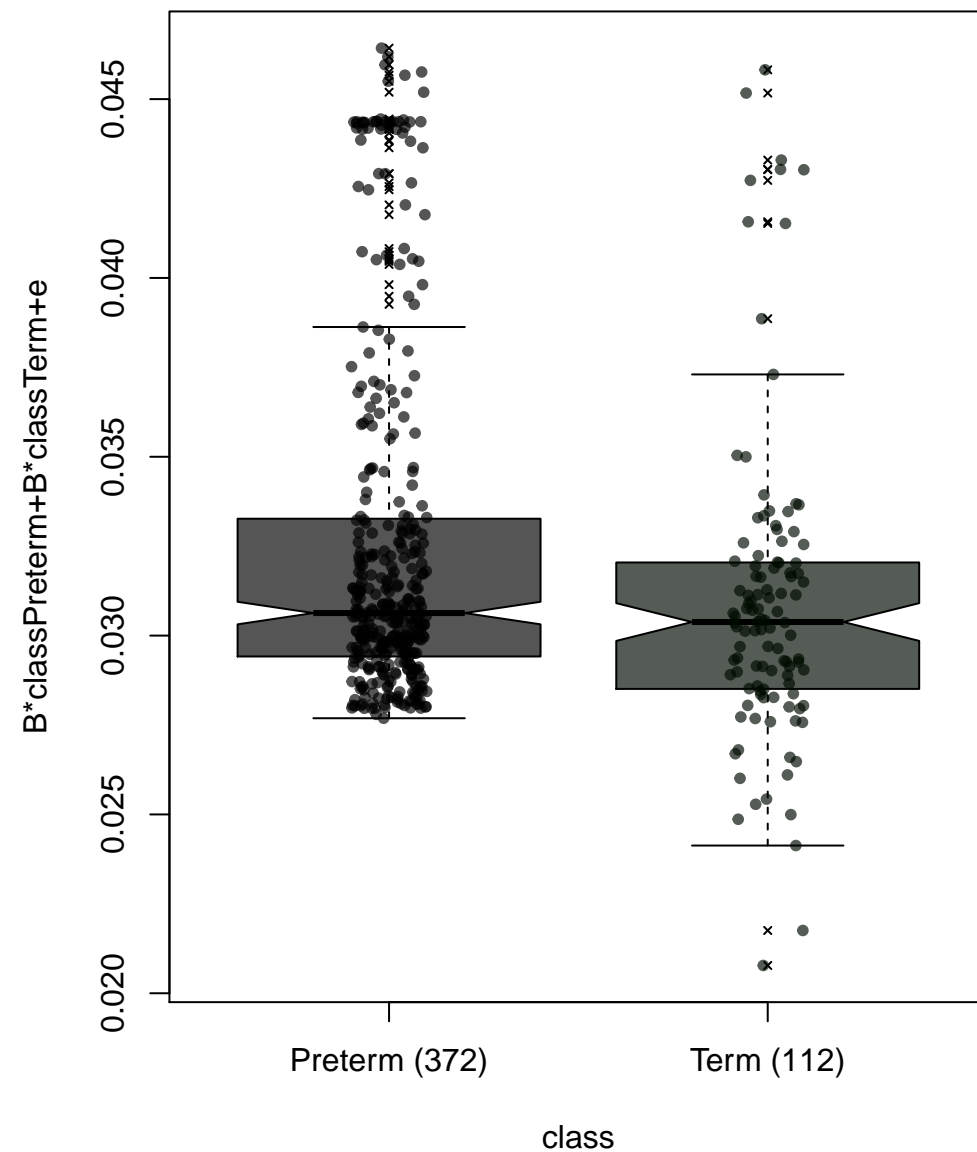
Partial Residual Plot



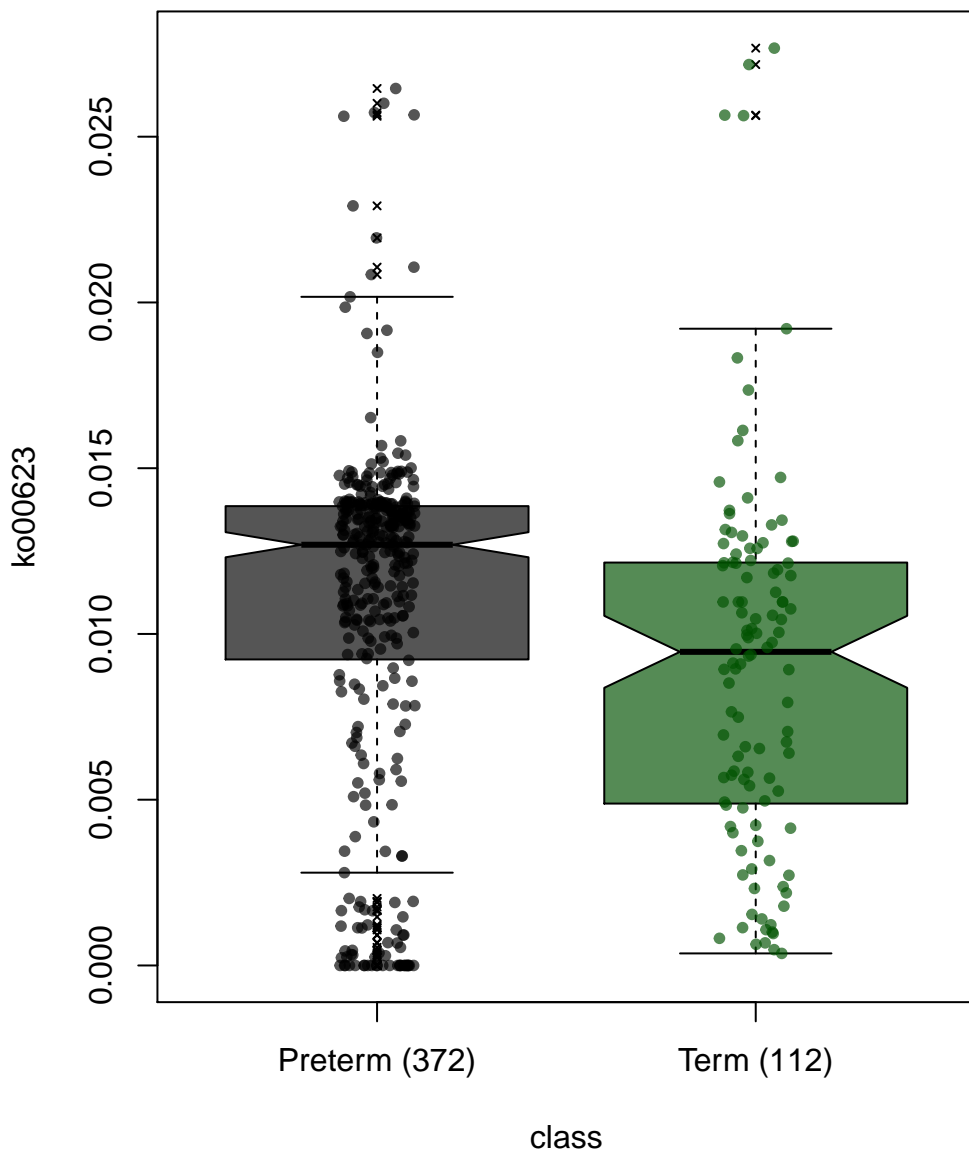
classTerm (-0.00167 sd 0.00052 , $p=0.00143$, $q=0.00203$)



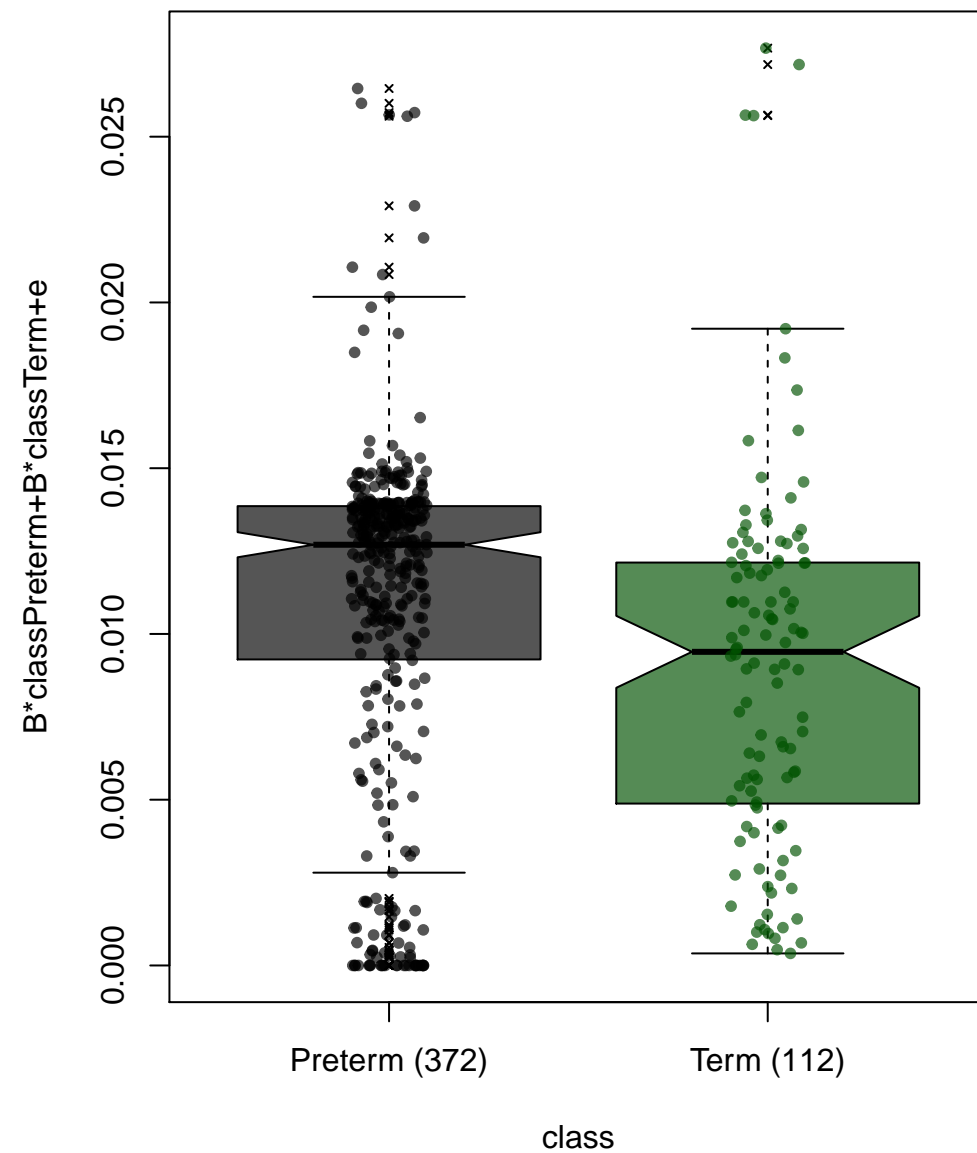
Partial Residual Plot



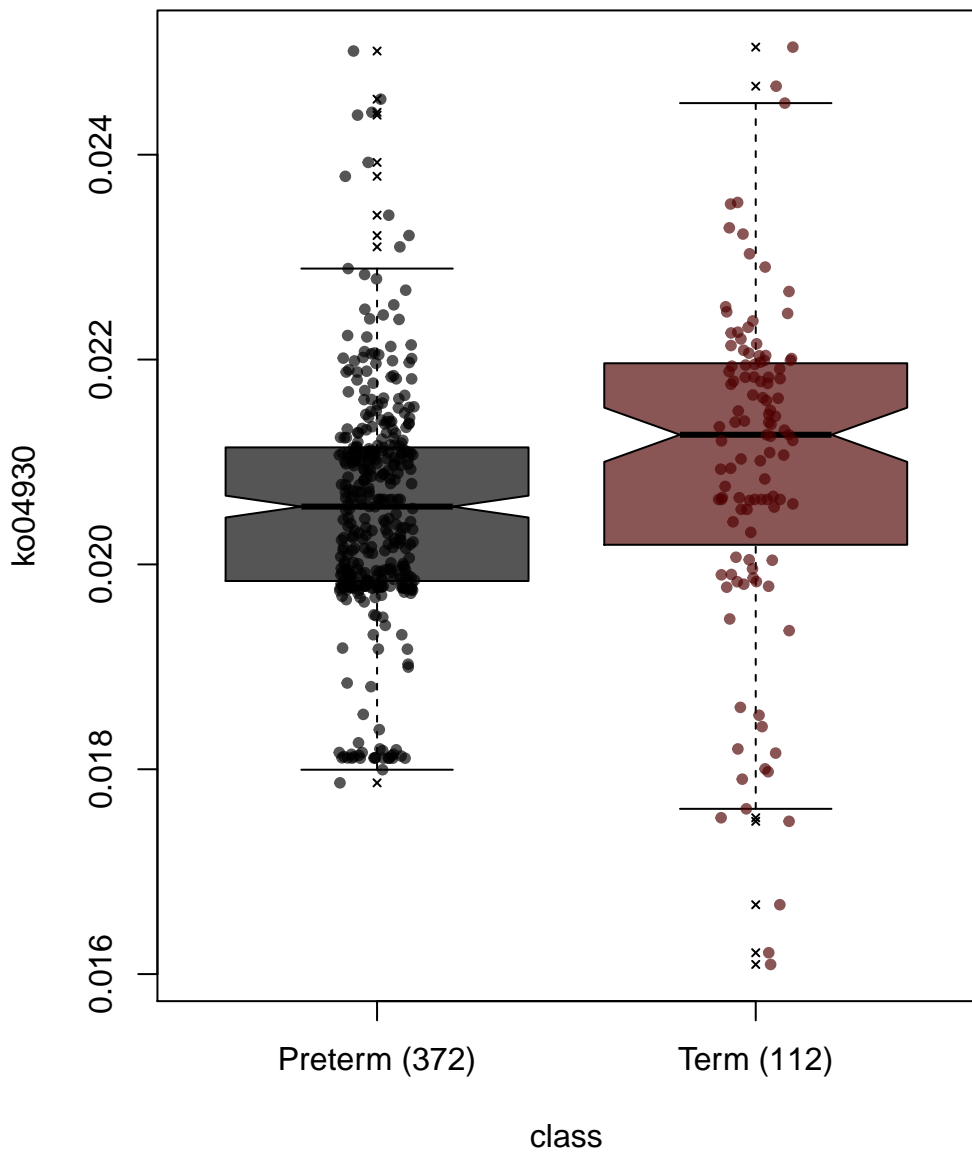
classTerm (-0.00182 sd 0.000576 , $p=0.00169$, $q=0.0024$)



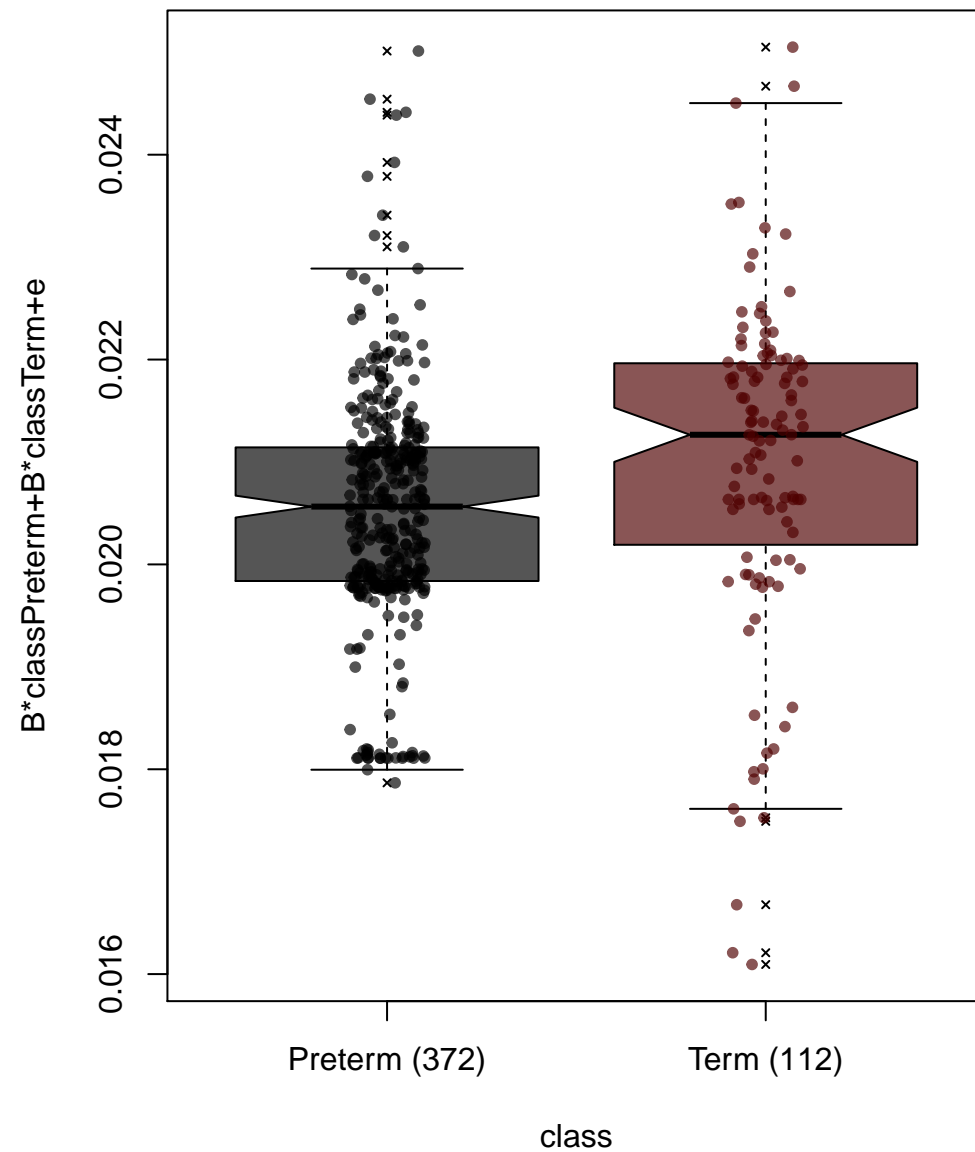
Partial Residual Plot



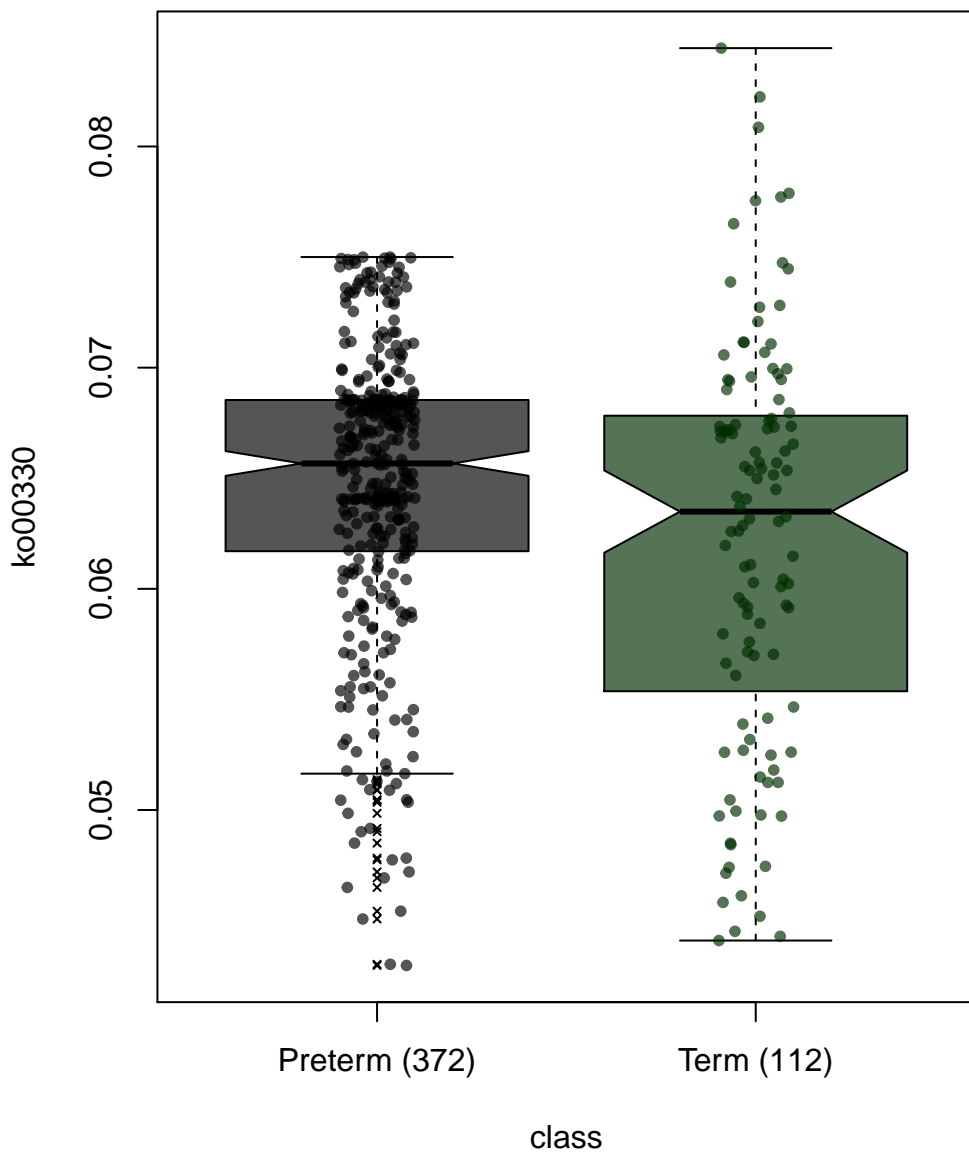
classTerm (0.000436 sd 0.000138, p=0.00171, q=0.0024)



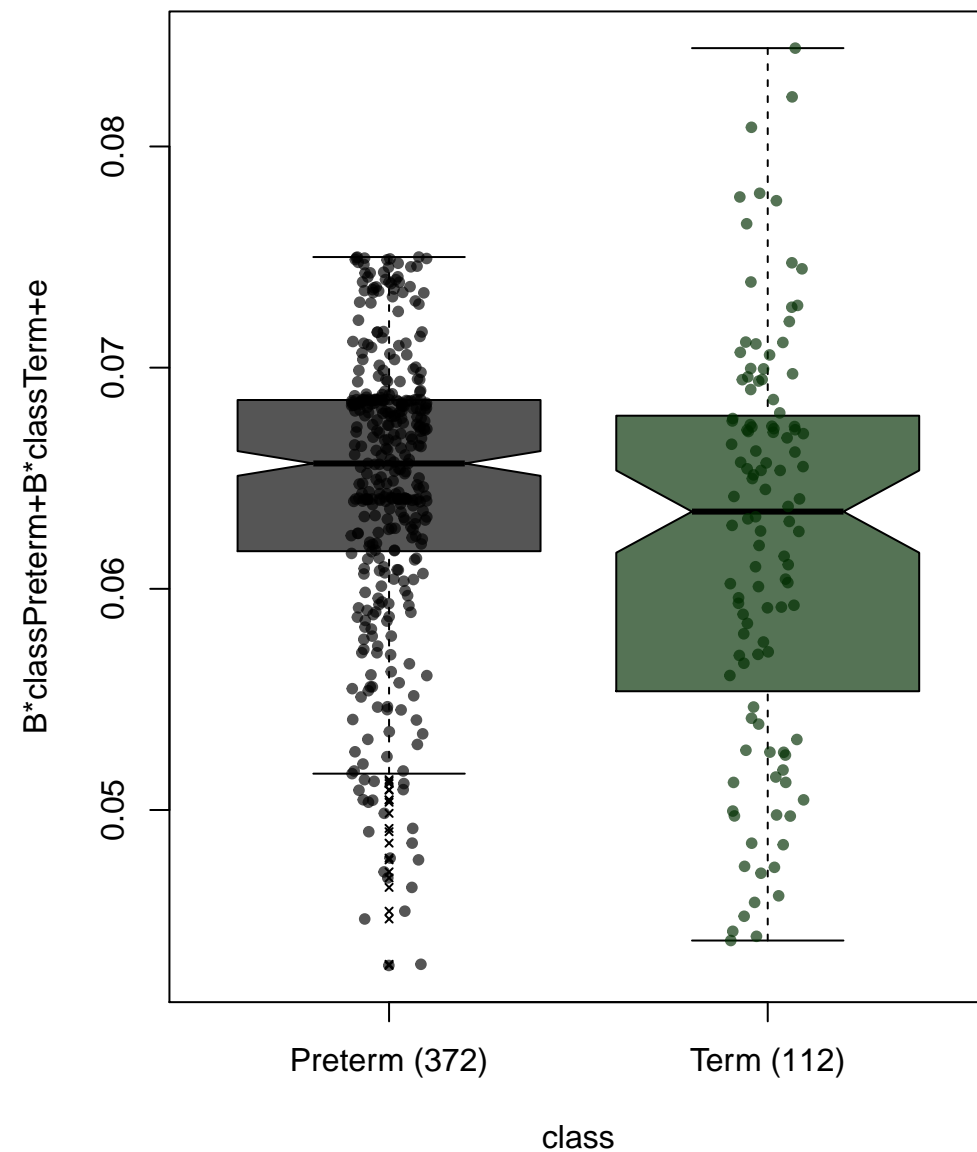
Partial Residual Plot



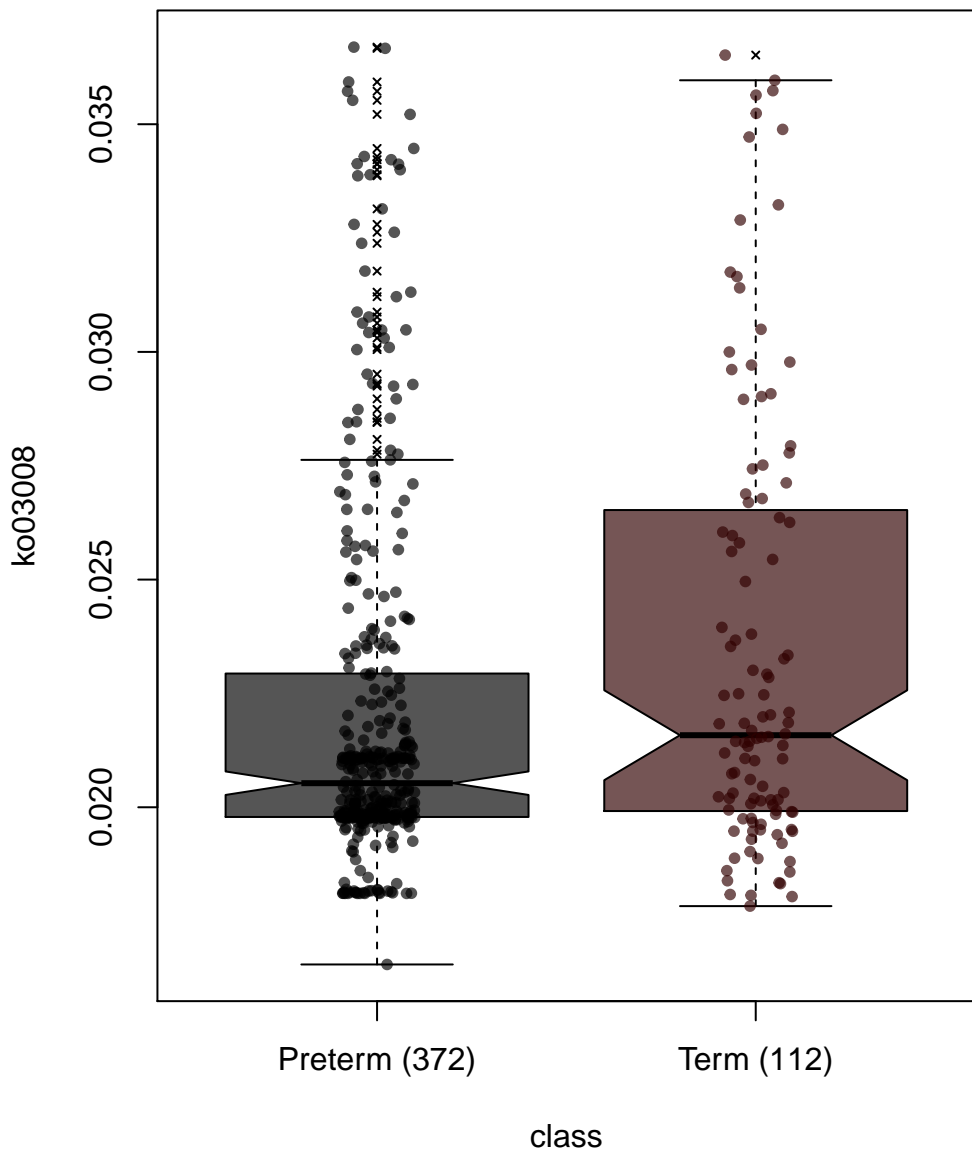
classTerm (−0.00243 sd 0.00078, p=0.00198, q=0.00278)



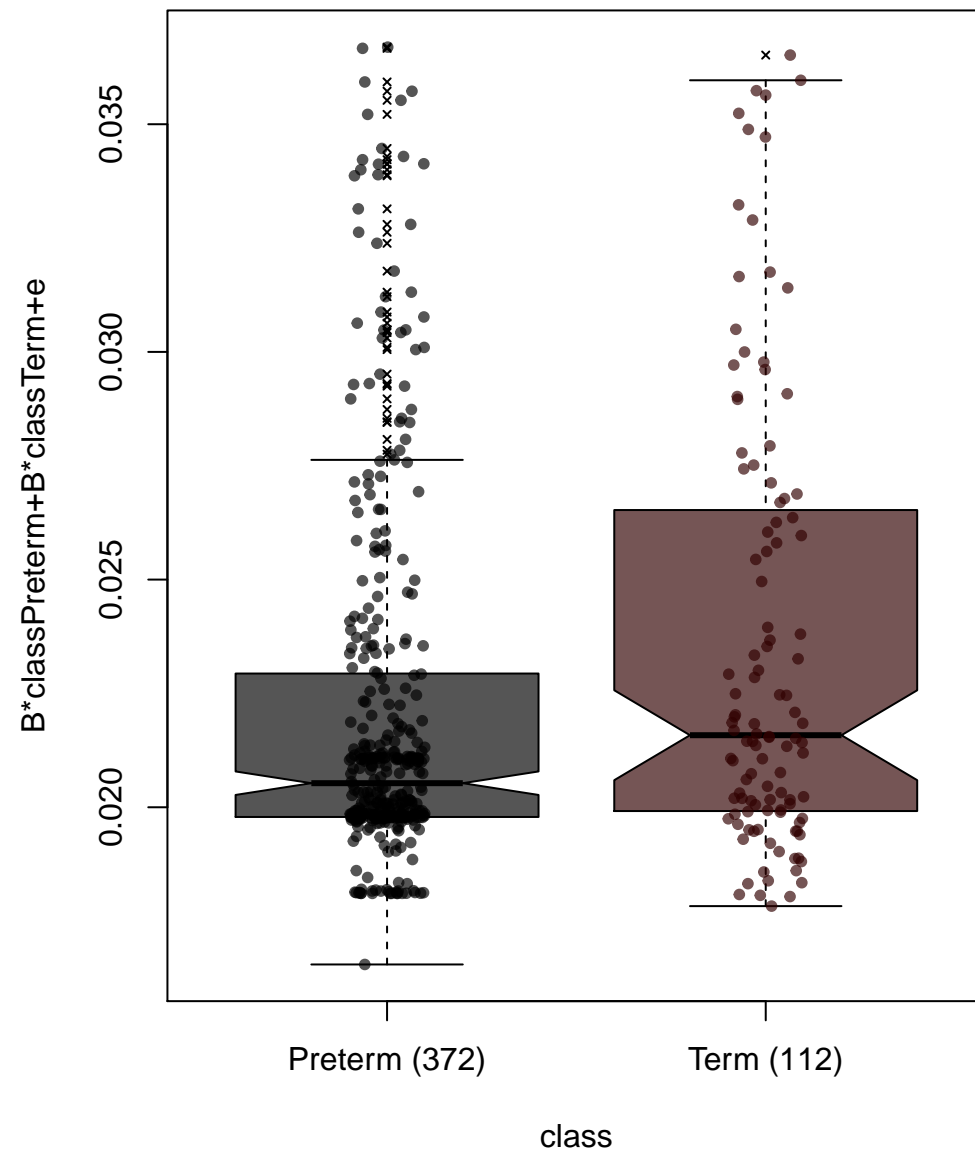
Partial Residual Plot



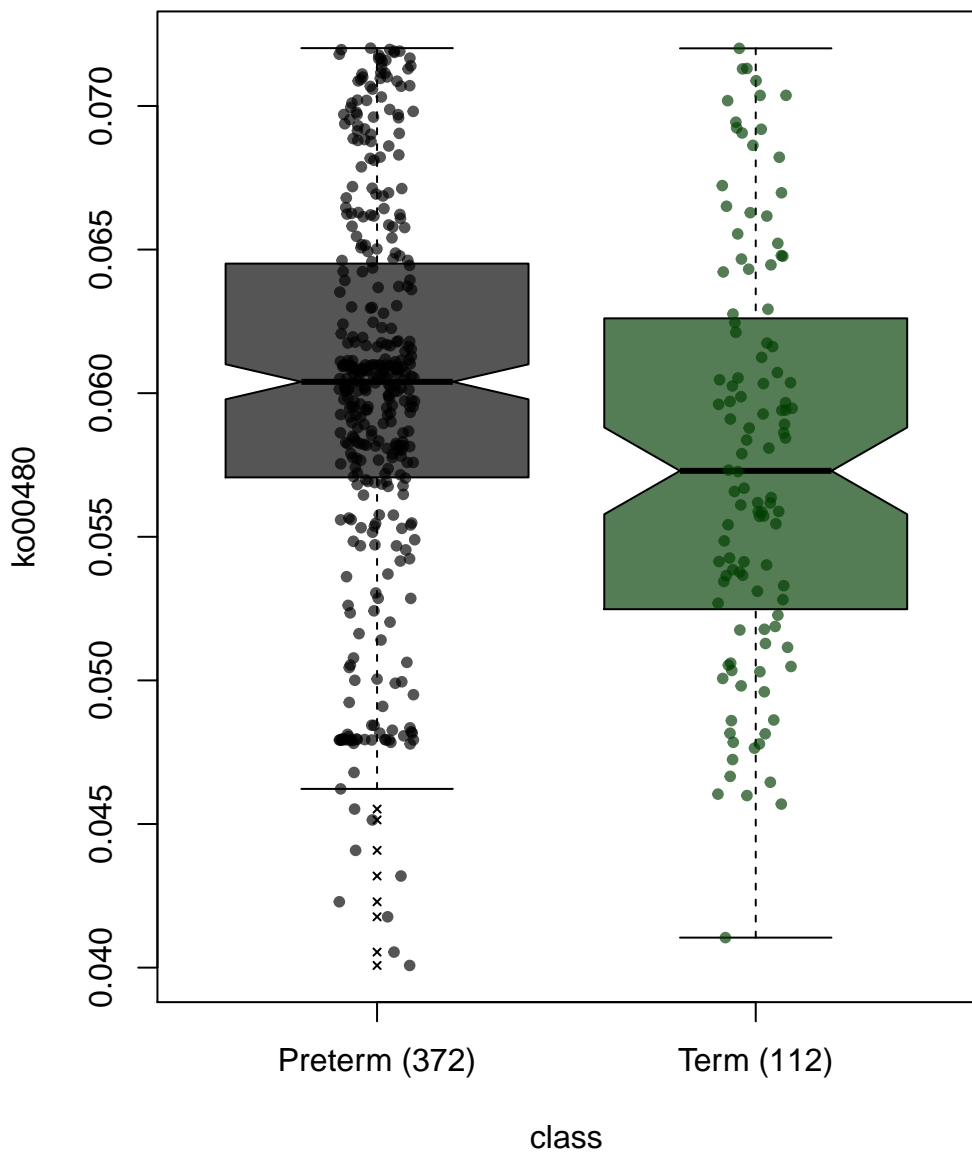
classTerm (0.00142 sd 0.000459, p=0.00215, q=0.00299)



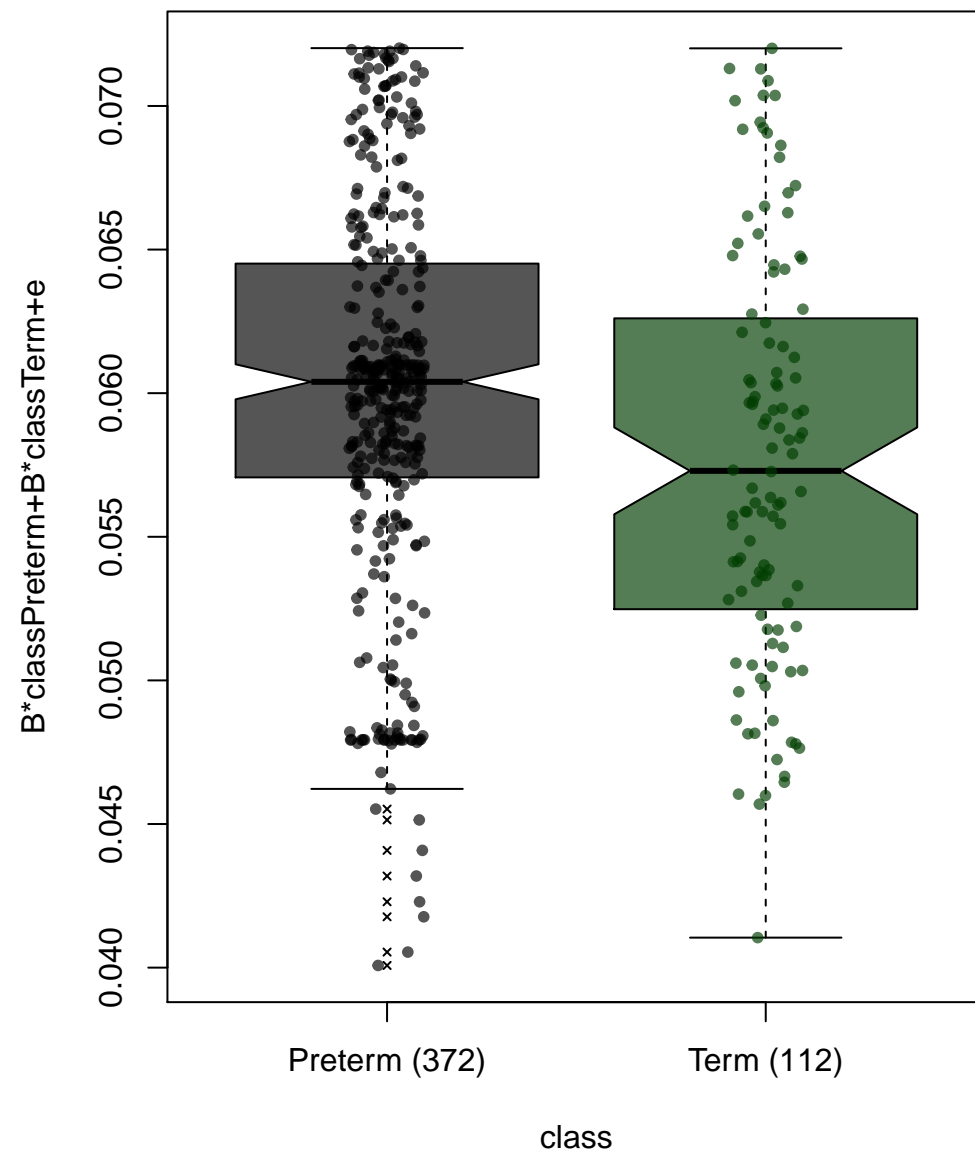
Partial Residual Plot



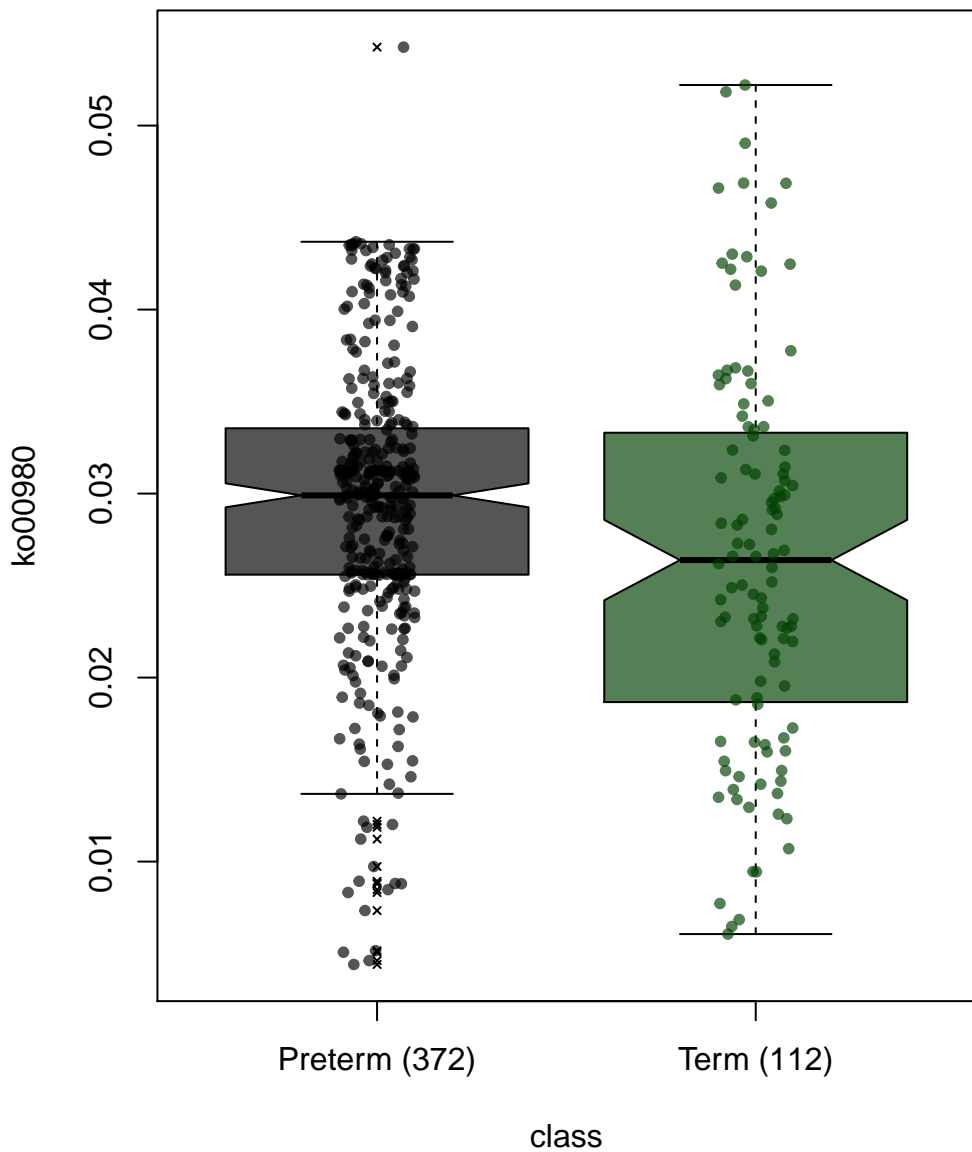
classTerm (-0.00228 sd 0.000745 , $p=0.00232$, $q=0.00323$)



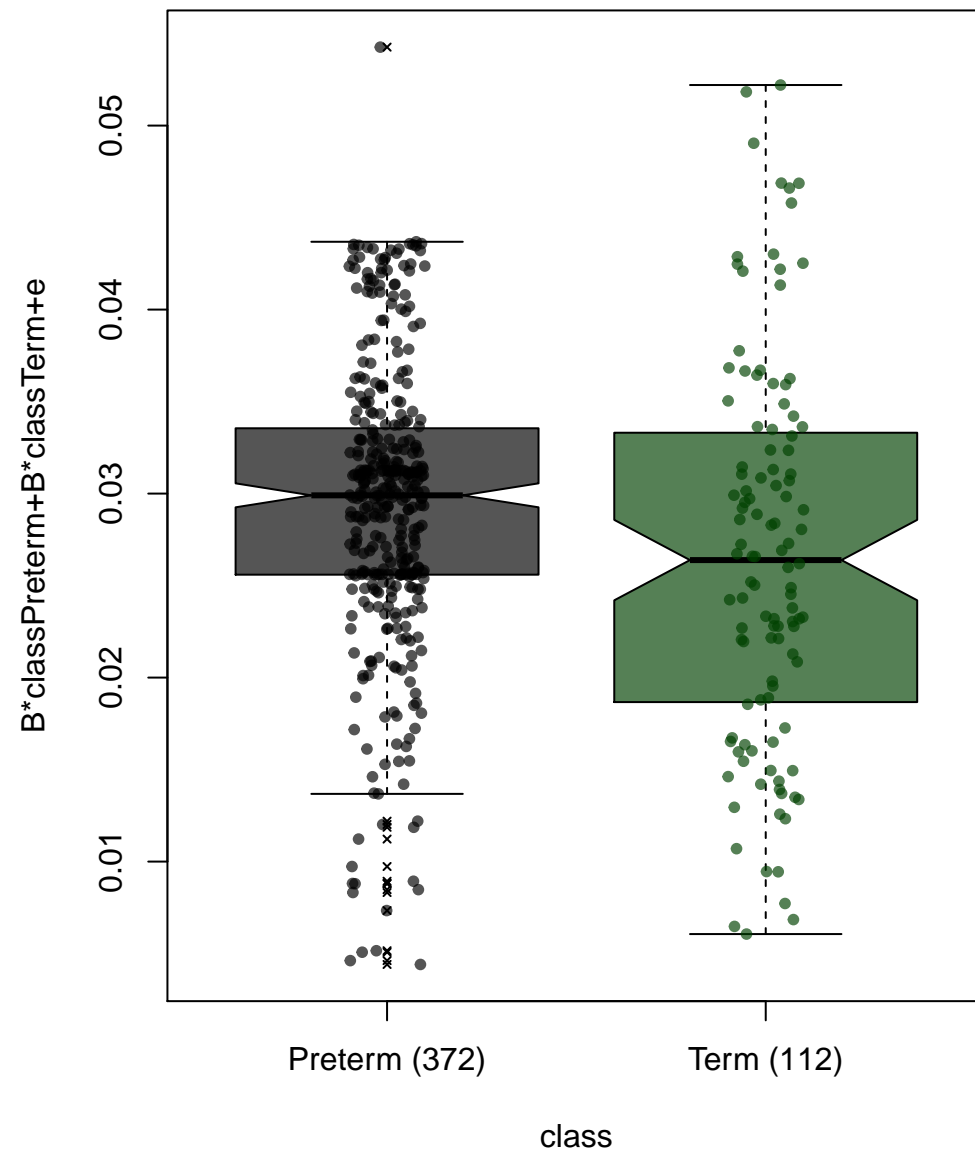
Partial Residual Plot



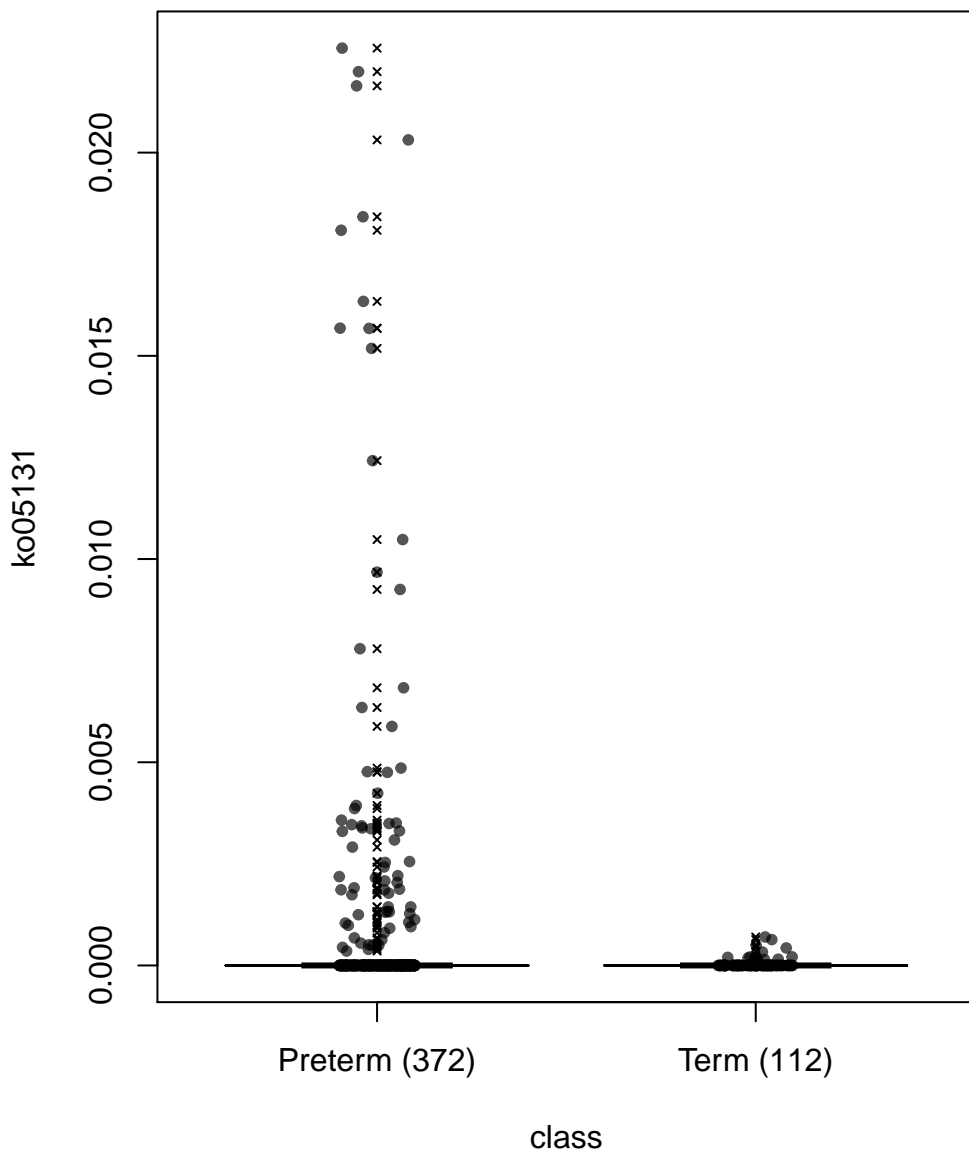
classTerm (-0.00285 sd 0.000933 , $p=0.00237$, $q=0.00327$)



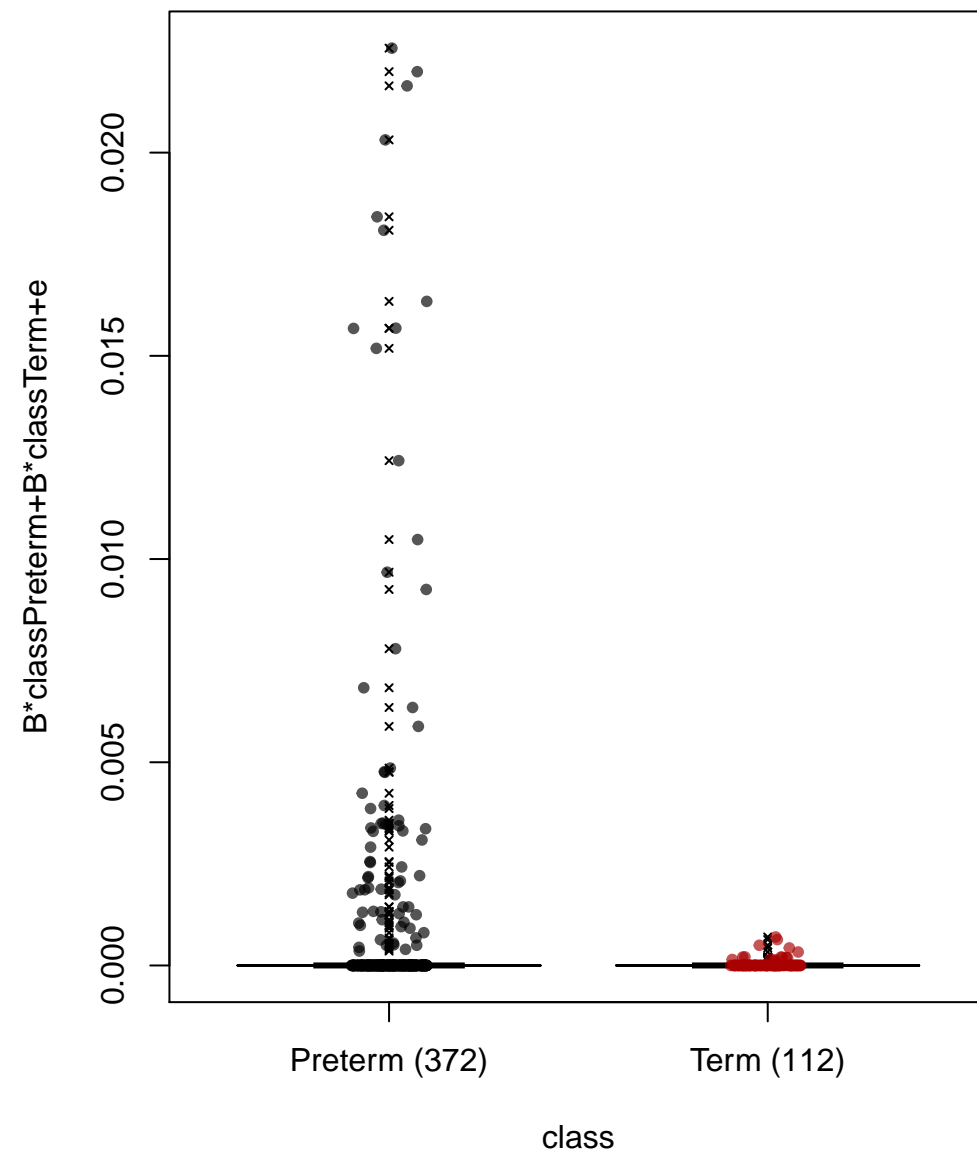
Partial Residual Plot



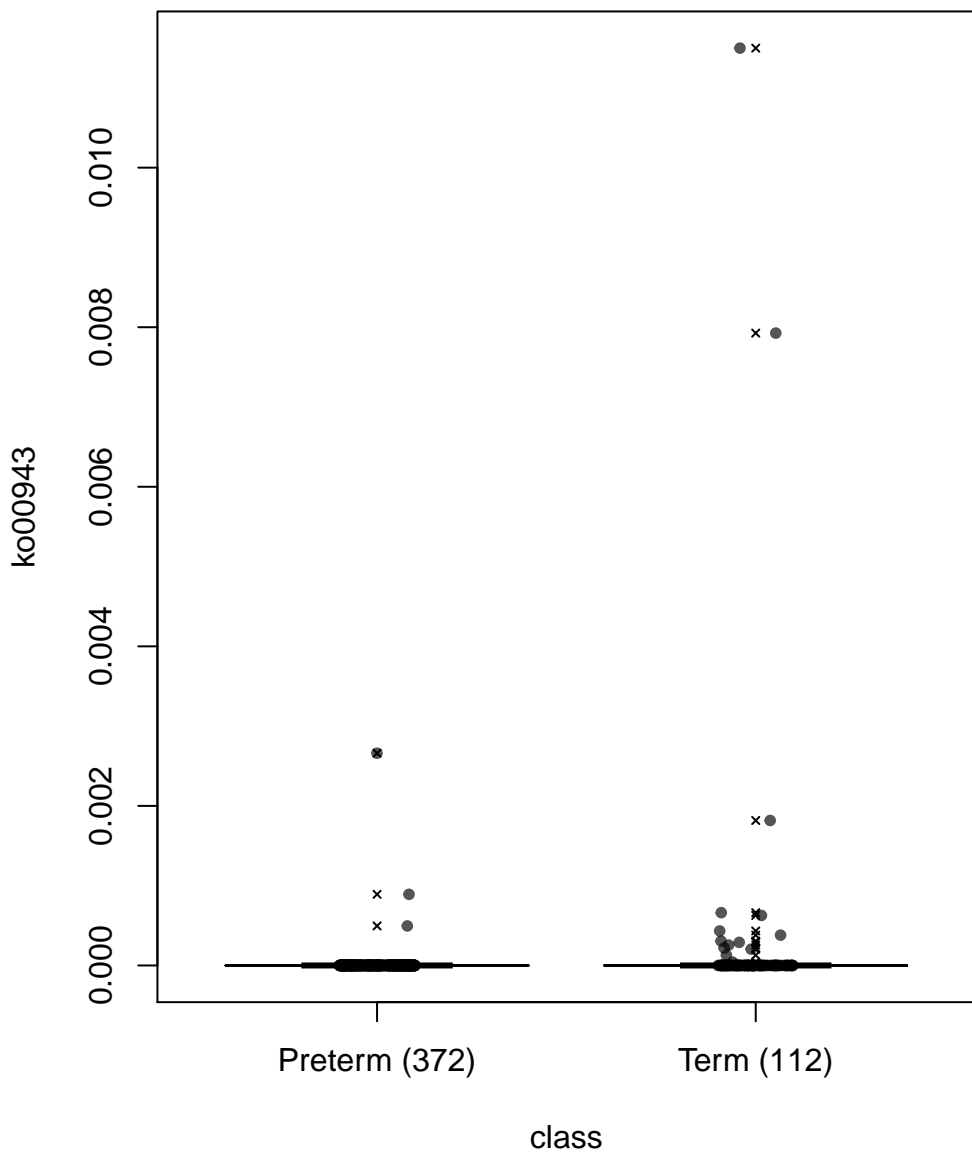
classTerm (−0.00095 sd 0.000315, p=0.0027, q=0.00371)



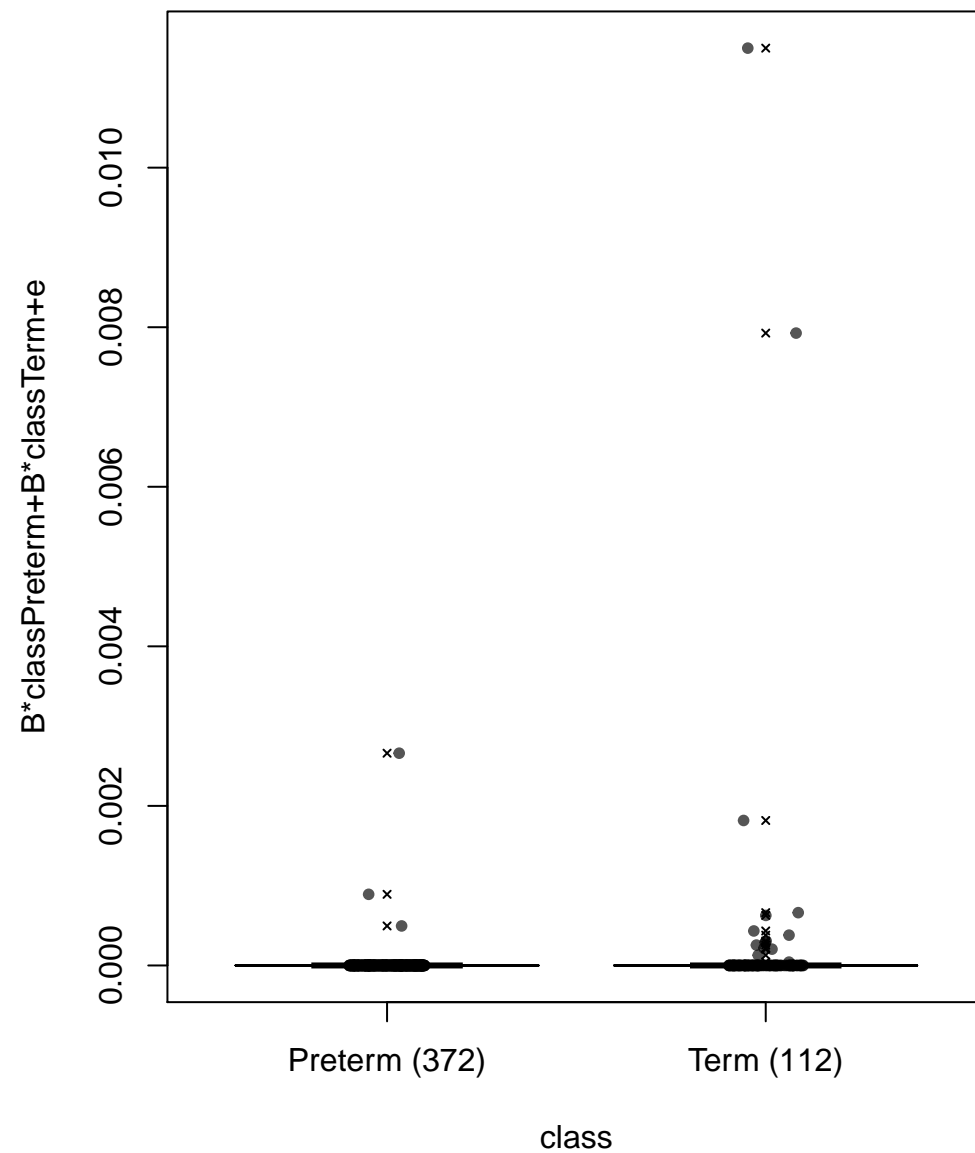
Partial Residual Plot



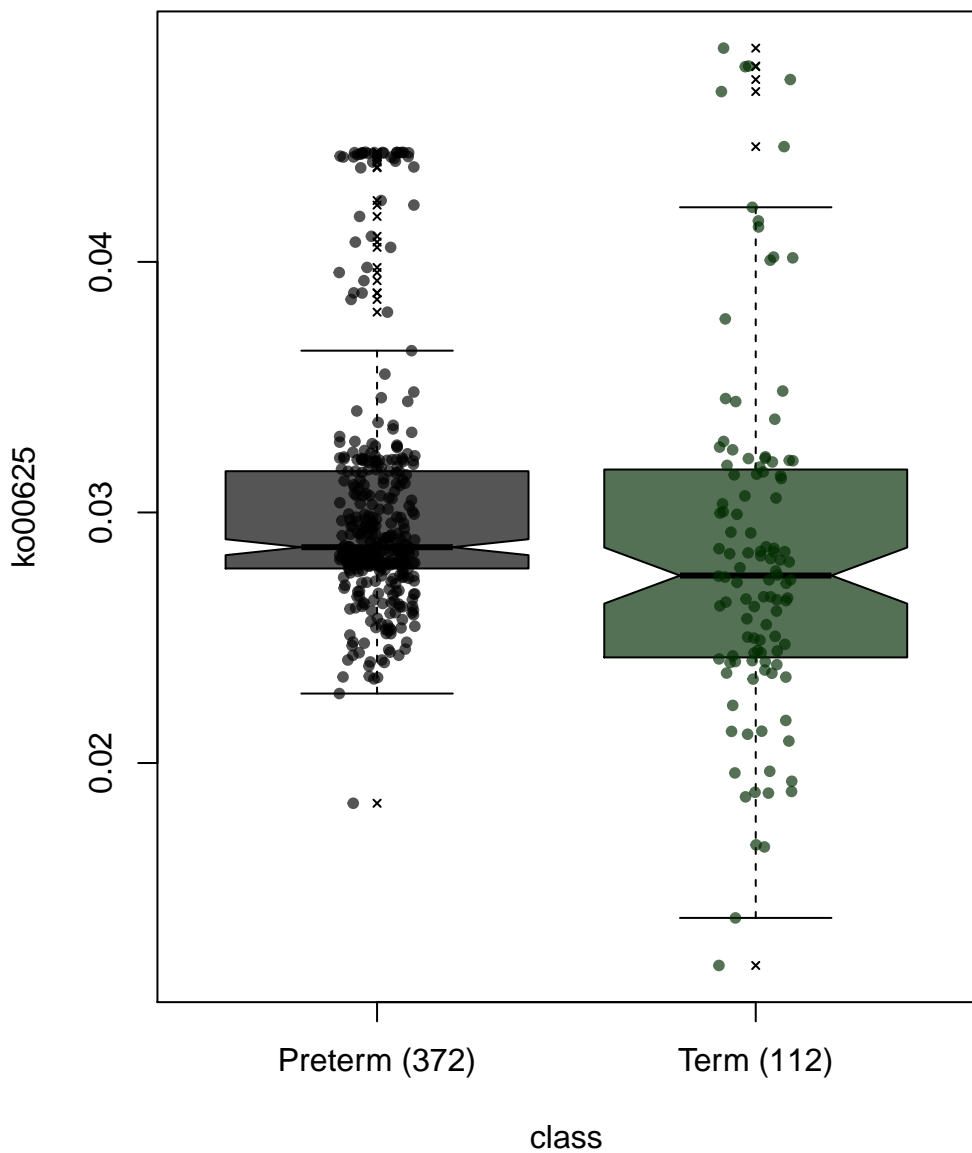
classTerm (0.00021 sd 6.99e-05, p=0.00272, q=0.00373)



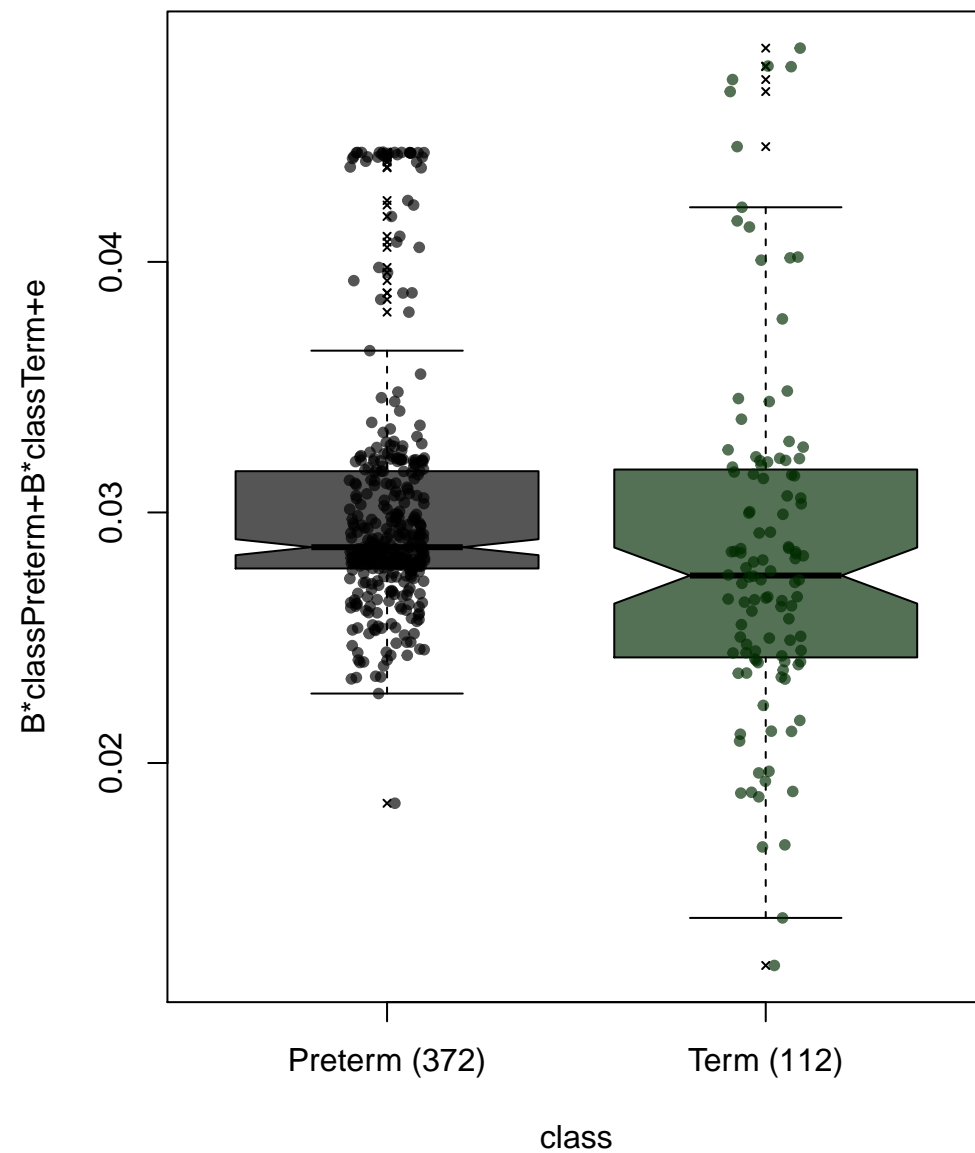
Partial Residual Plot



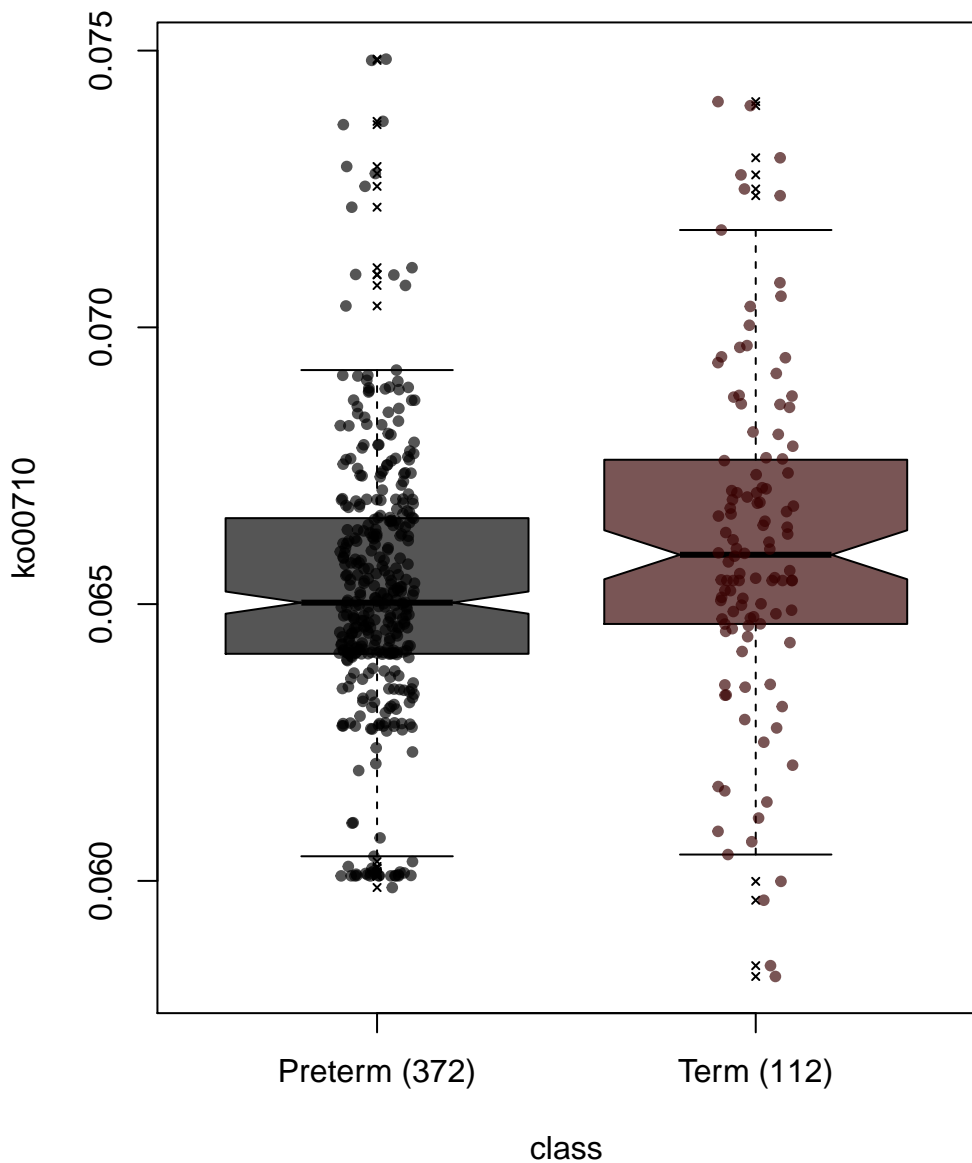
classTerm (-0.00175 sd 0.000596, p=0.00351, q=0.00477)



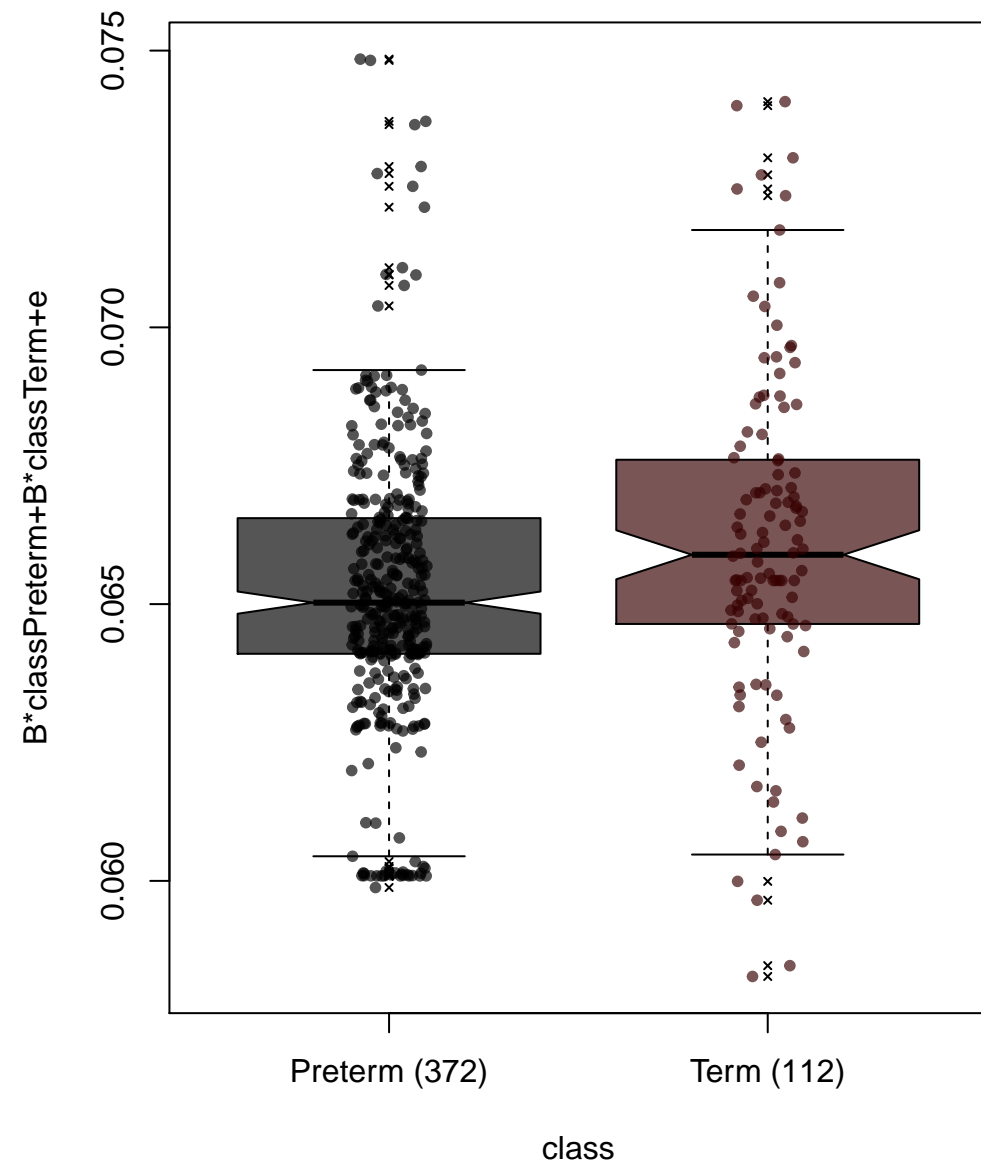
Partial Residual Plot



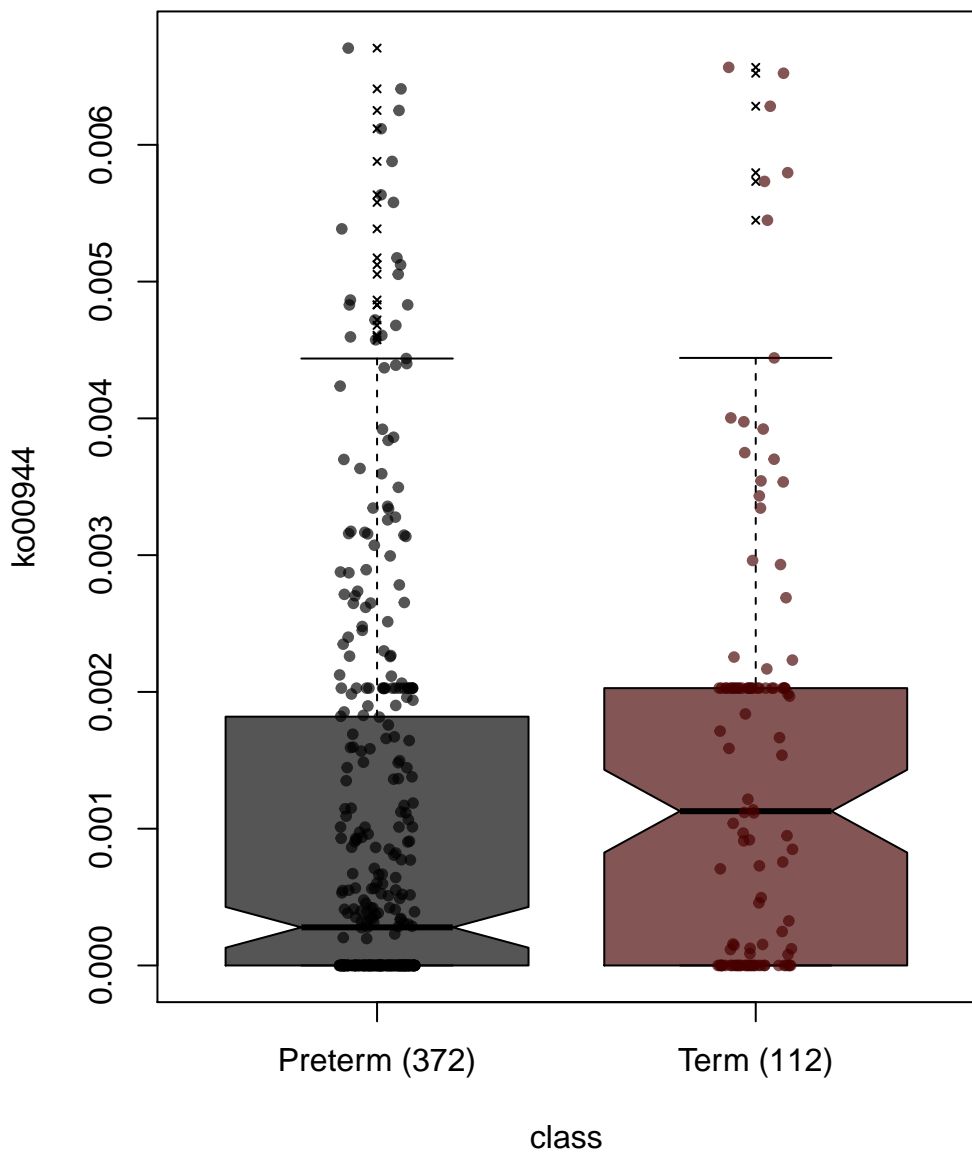
classTerm (0.000833 sd 0.000286, p=0.00374, q=0.00507)



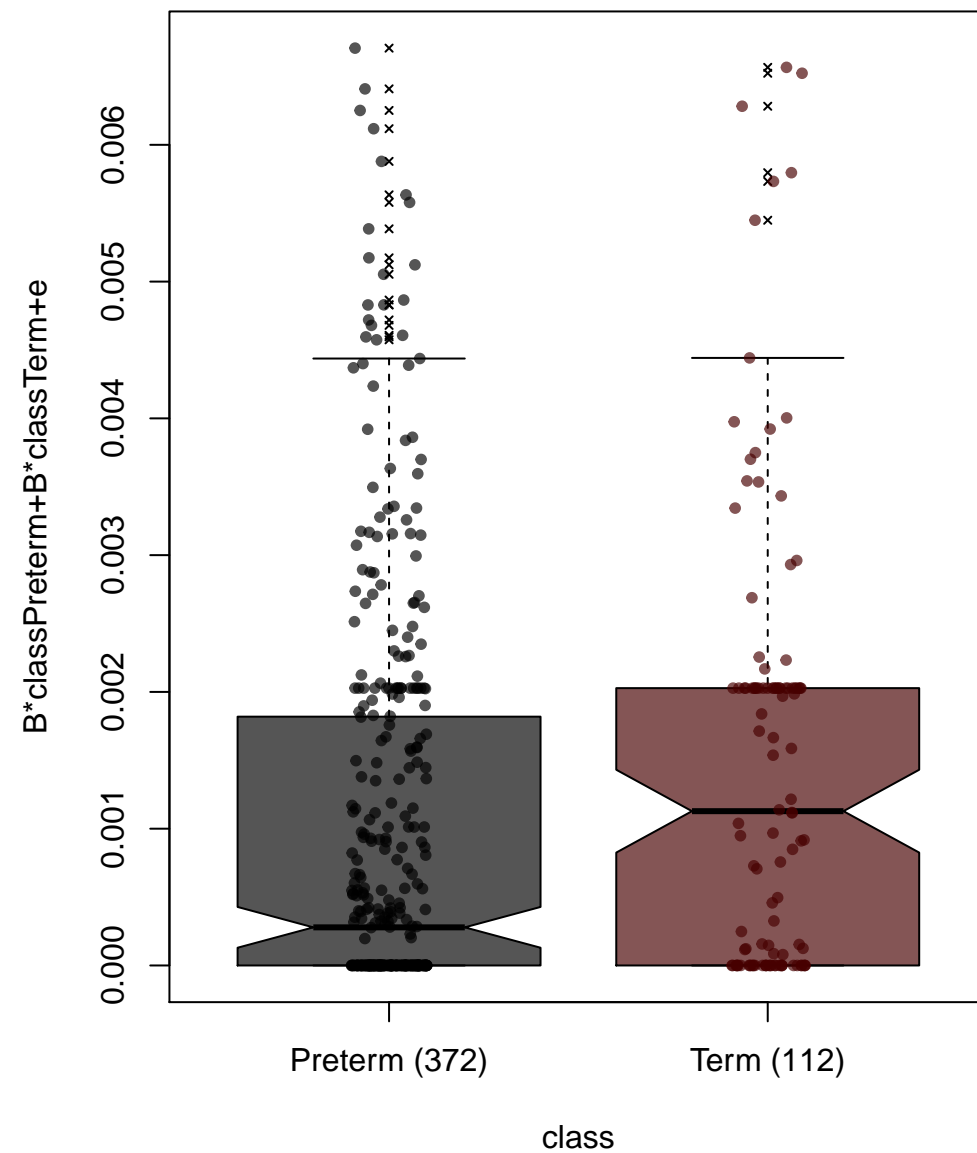
Partial Residual Plot



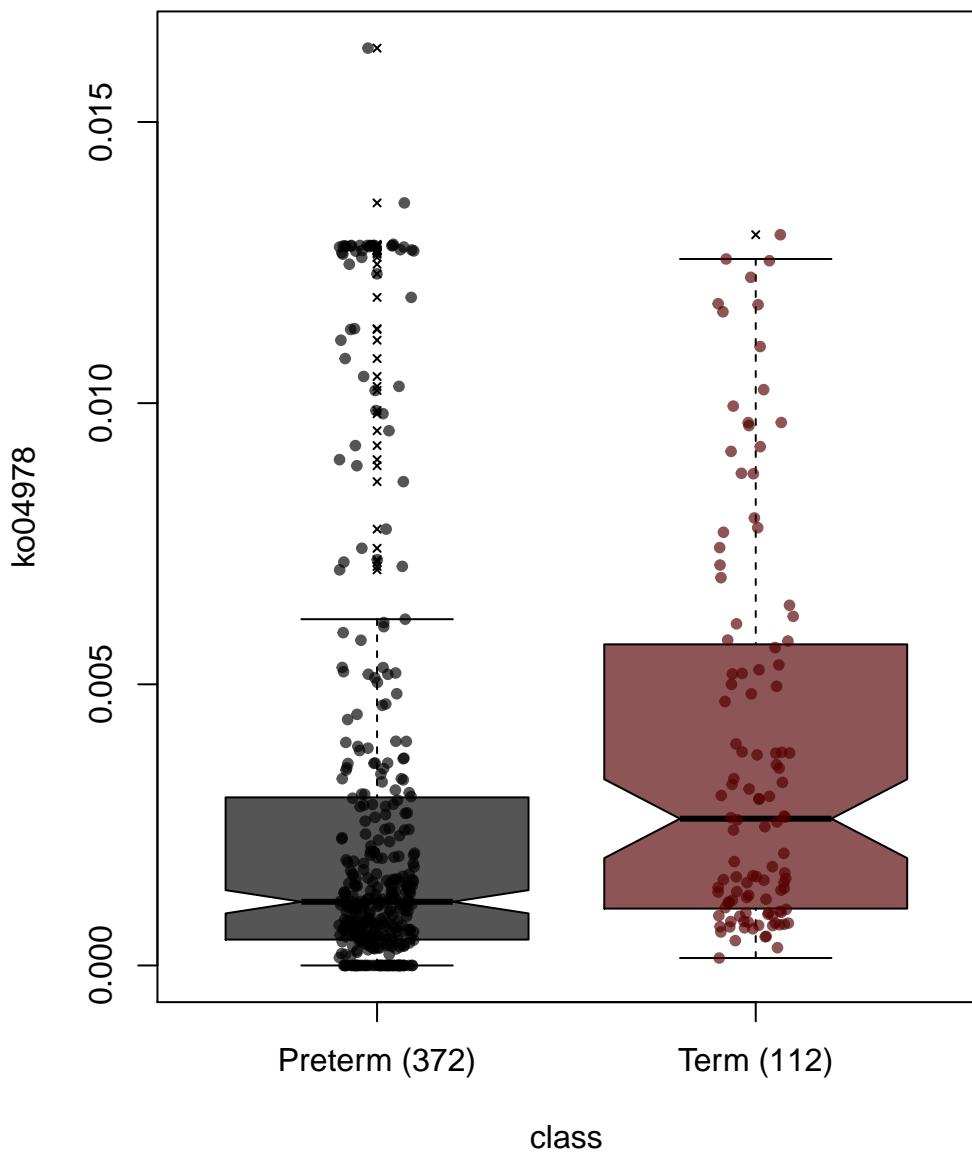
classTerm (0.000475 sd 0.000164, p=0.00381, q=0.00514)



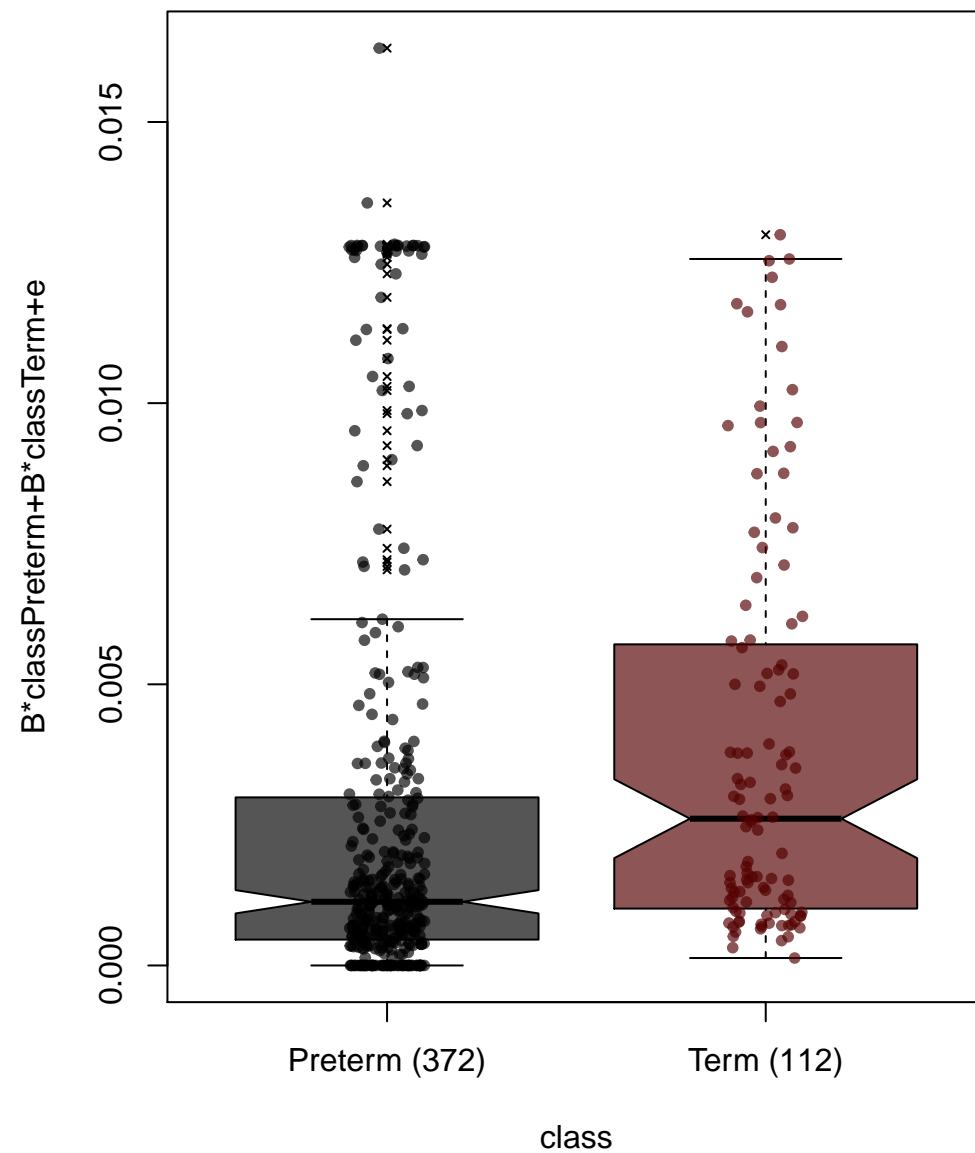
Partial Residual Plot



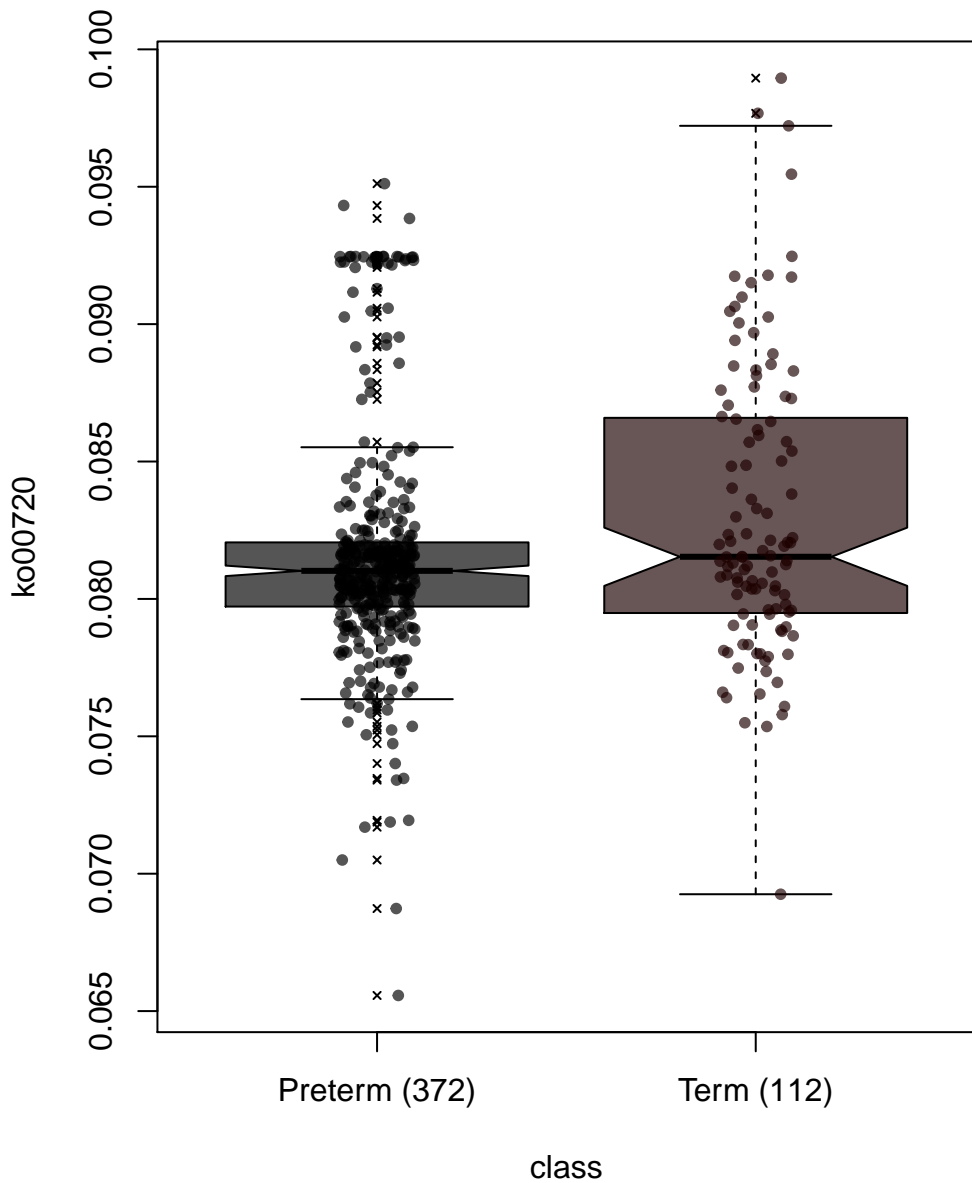
classTerm (0.00115 sd 0.000398, p=0.00415, q=0.00556)



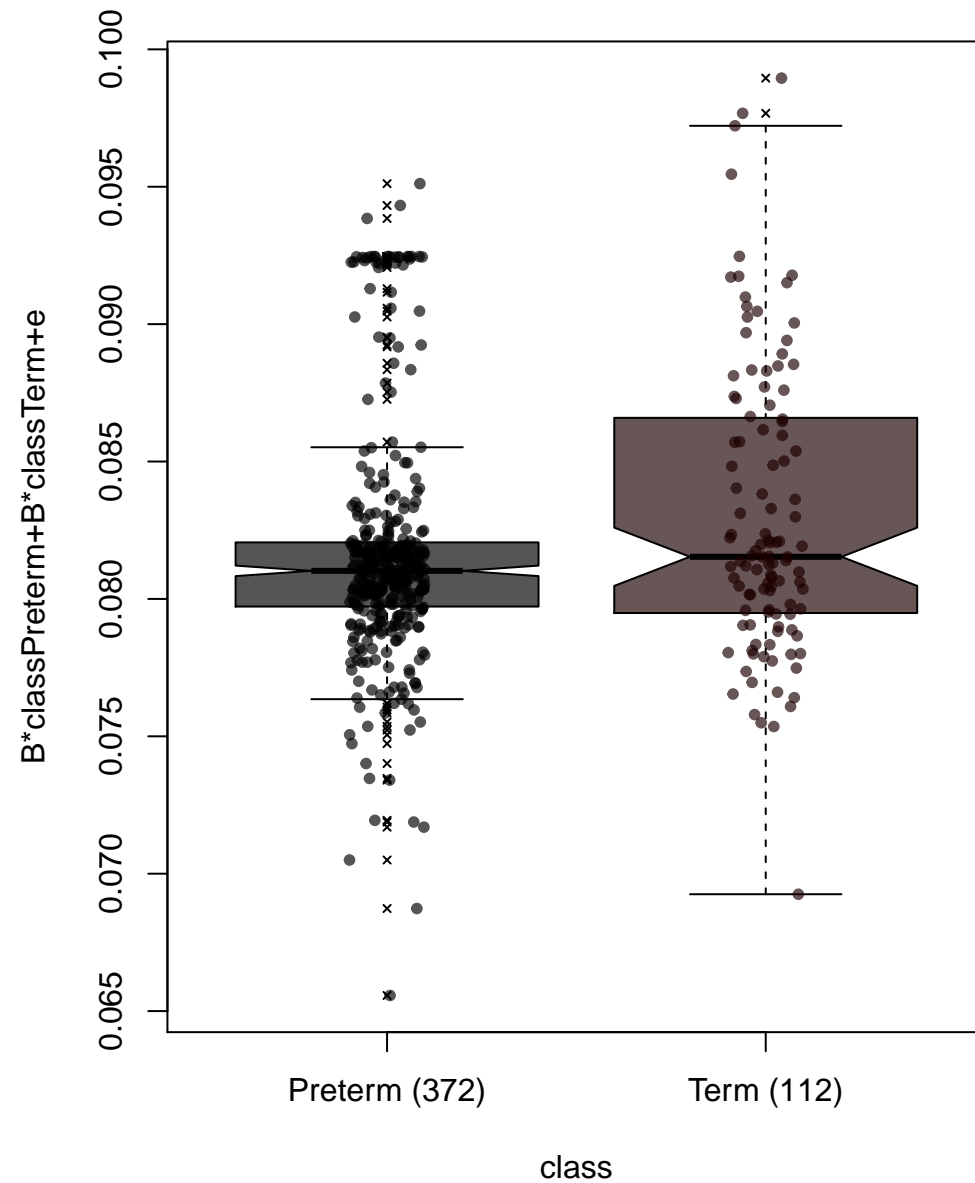
Partial Residual Plot



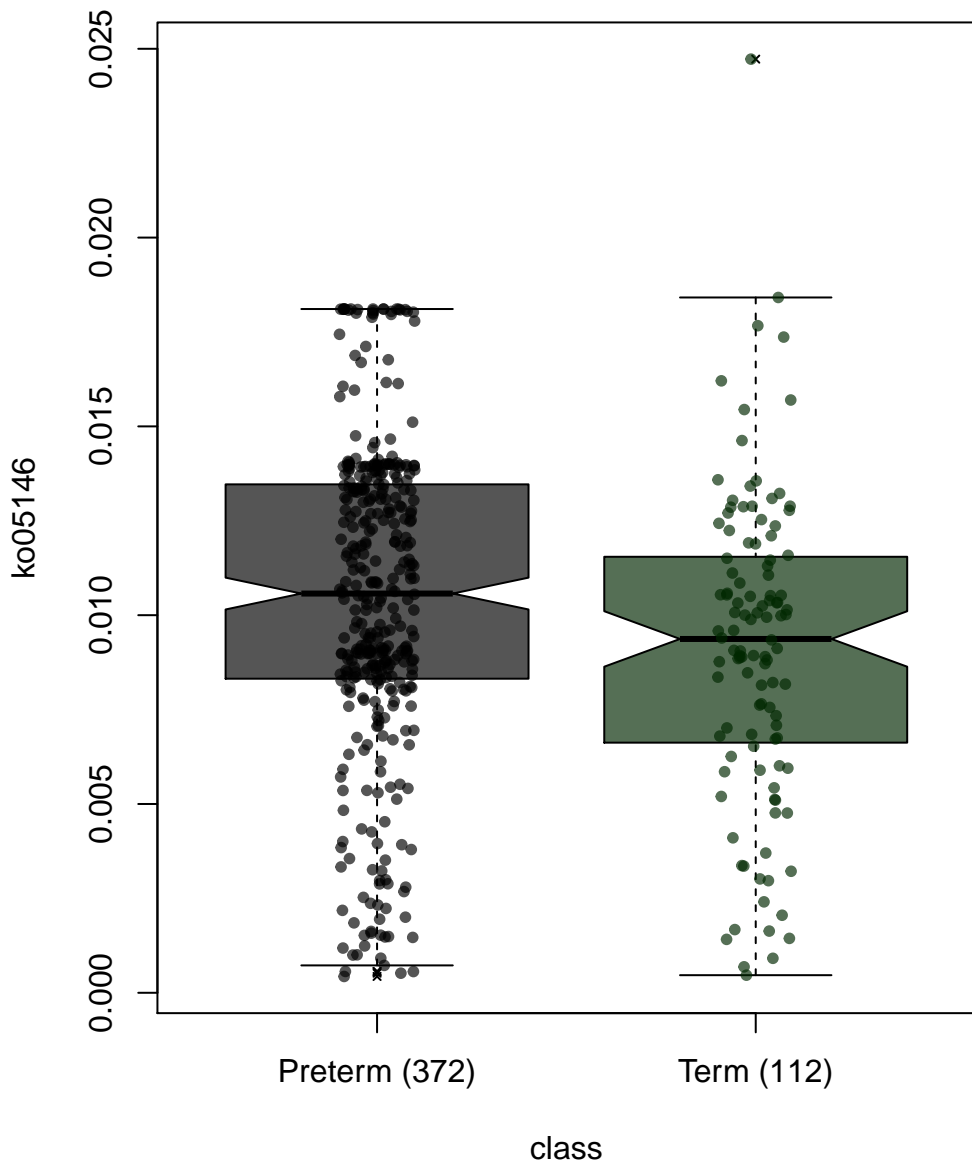
classTerm (0.00141 sd 0.000492, p=0.00434, q=0.00579)



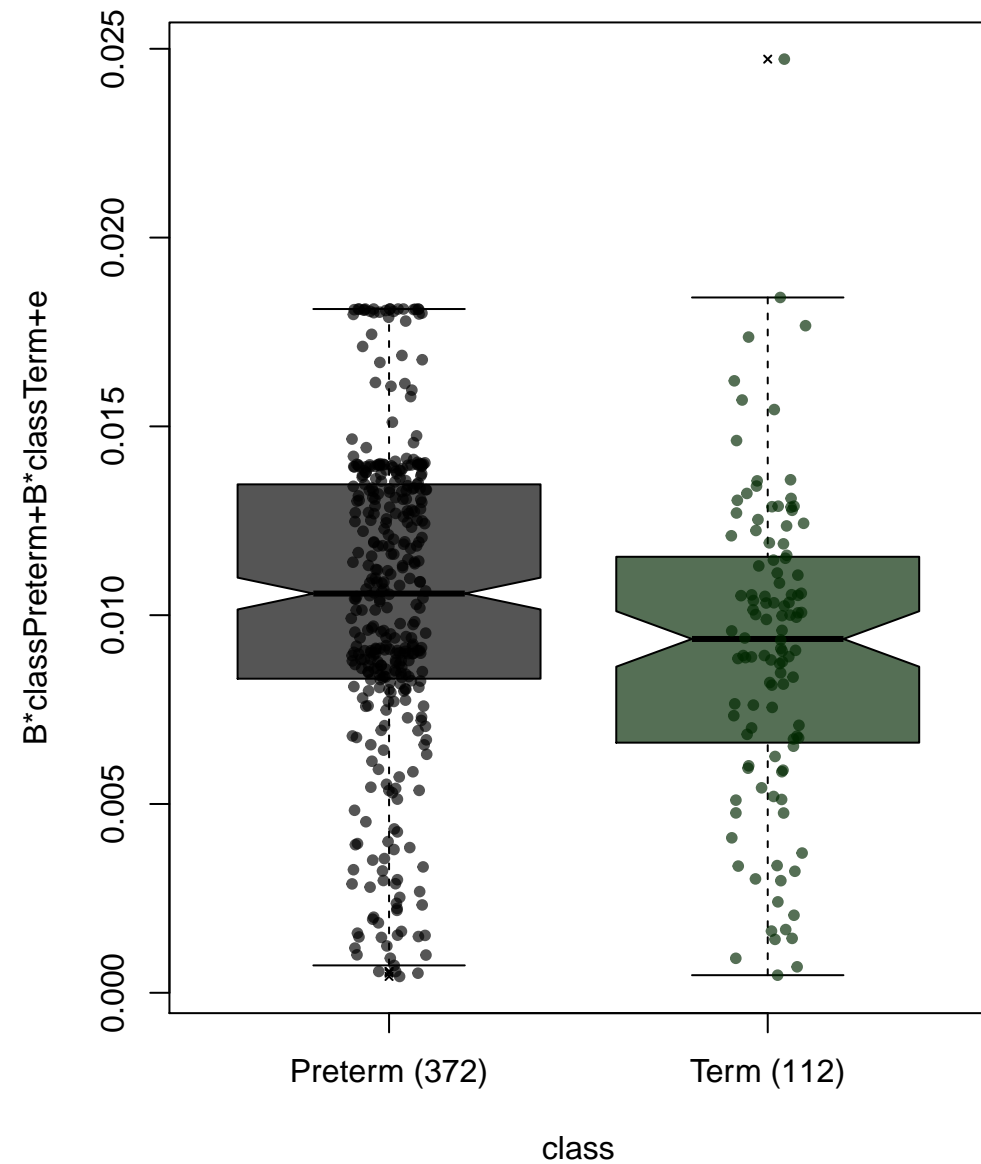
Partial Residual Plot



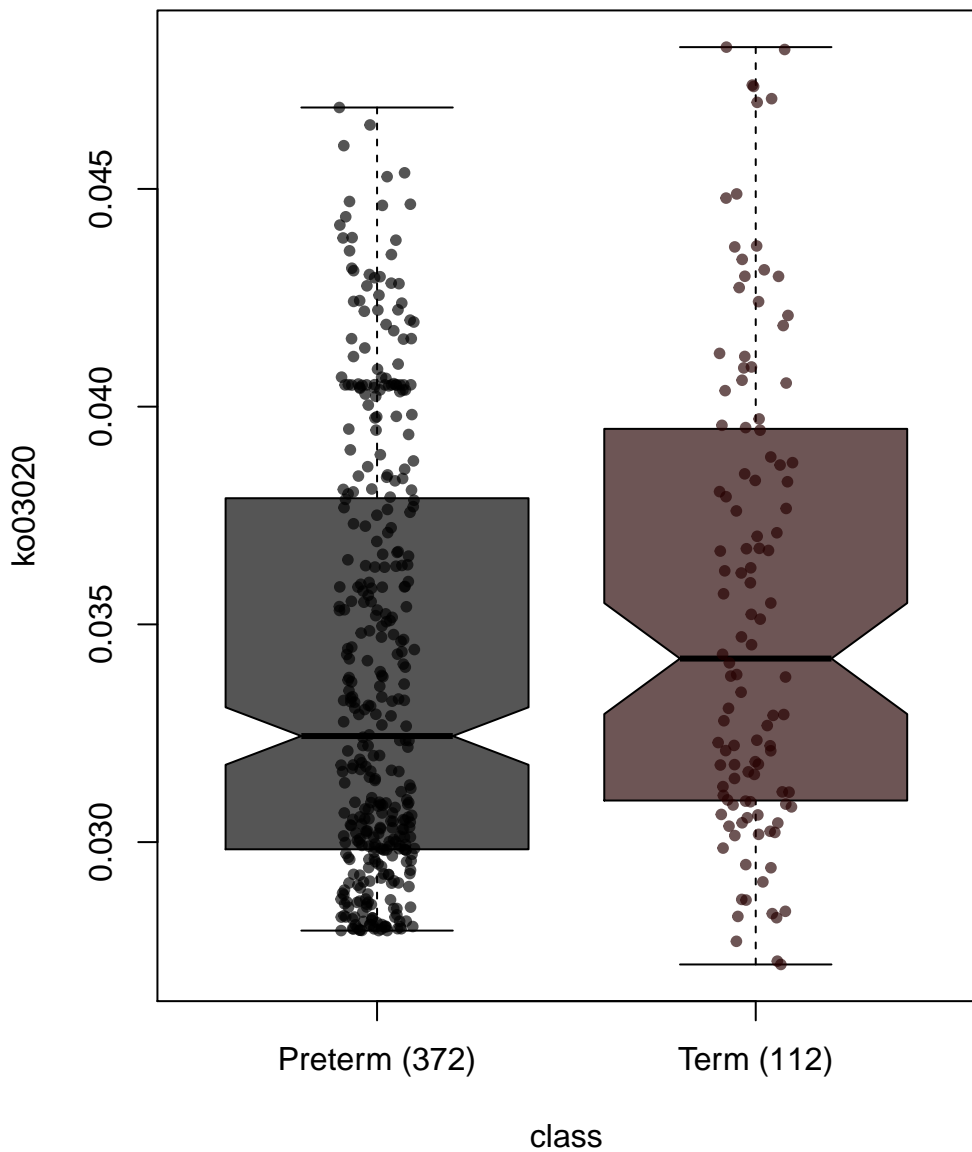
classTerm (−0.0013 sd 0.000454, p=0.00449, q=0.00596)



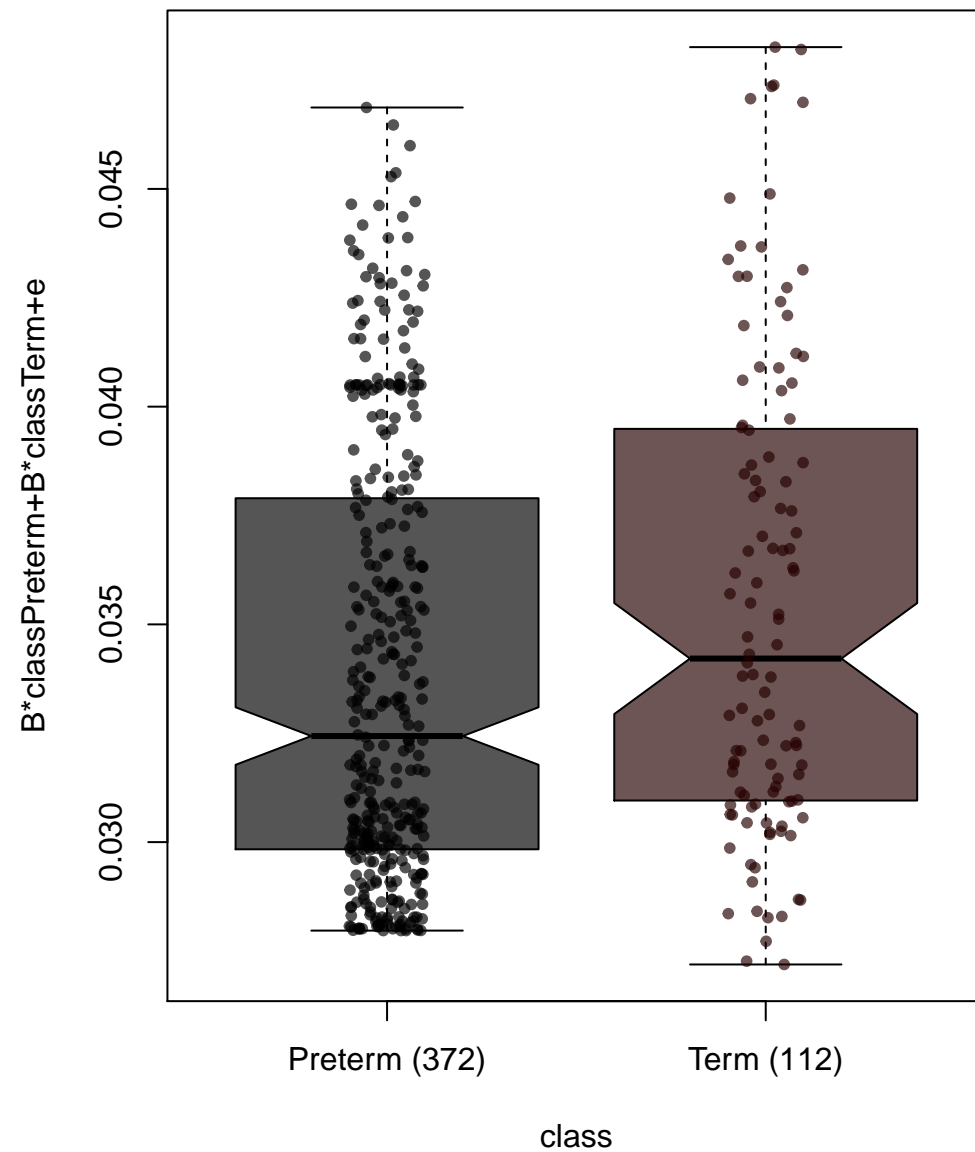
Partial Residual Plot



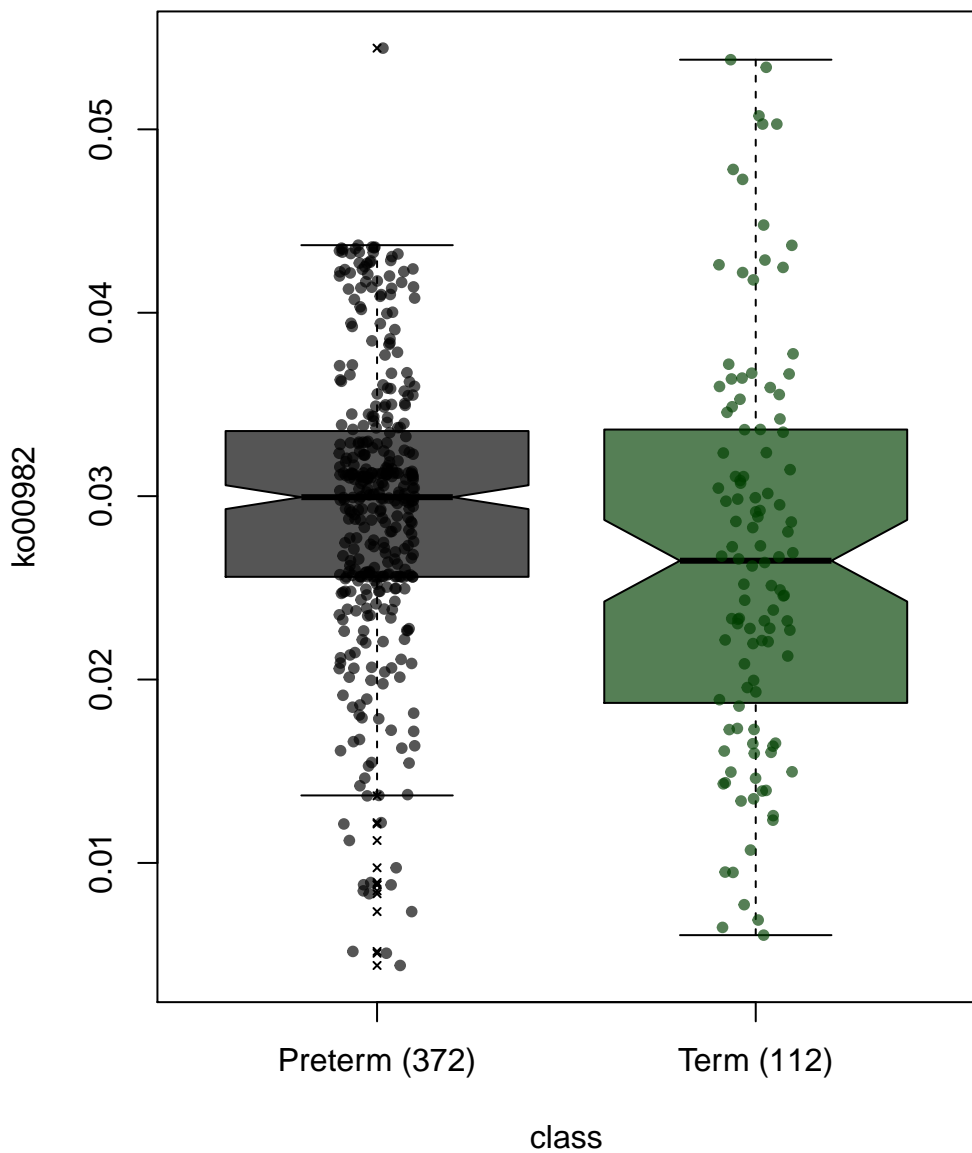
classTerm (0.00155 sd 0.000548, p=0.00485, q=0.00641)



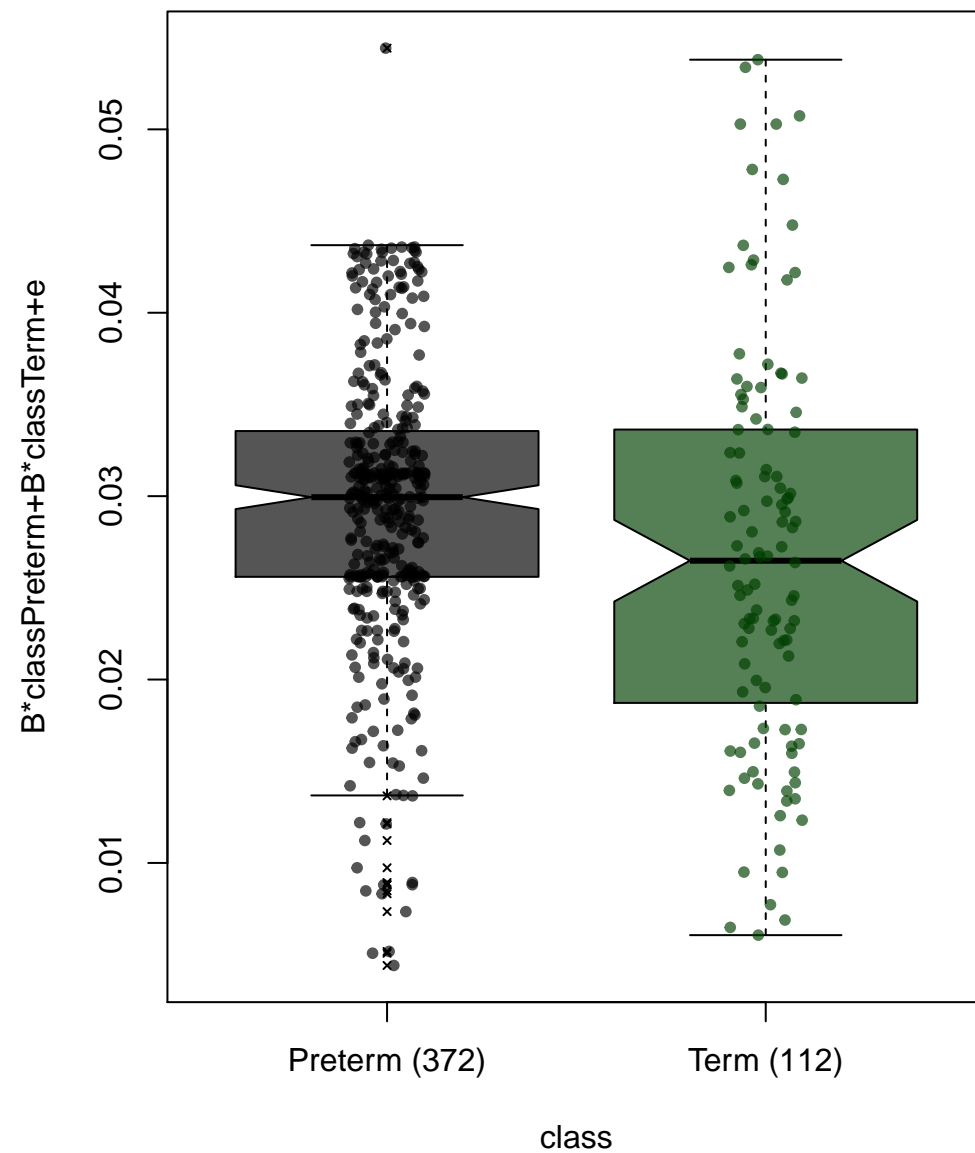
Partial Residual Plot



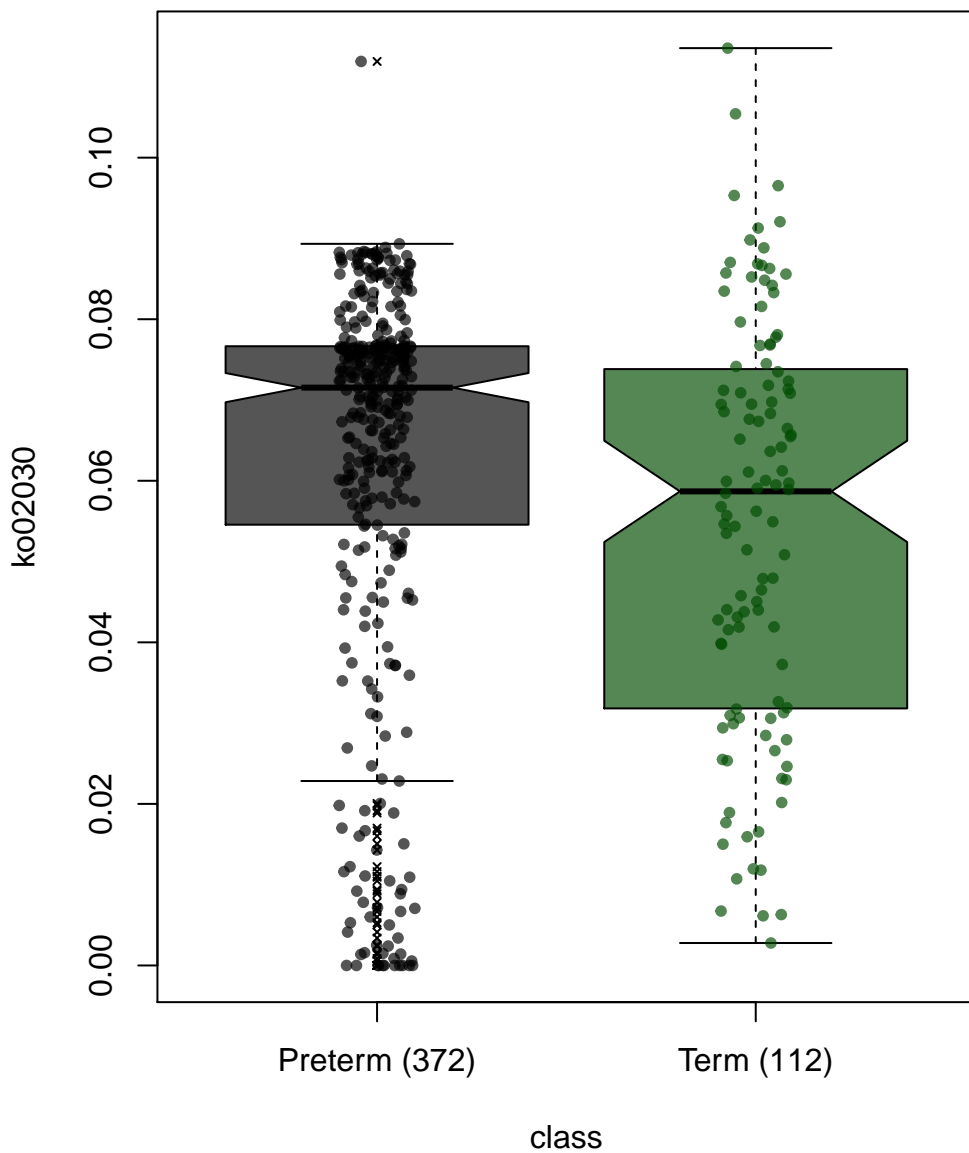
classTerm (-0.00262 sd 0.000937 , $p=0.00538$, $q=0.00708$)



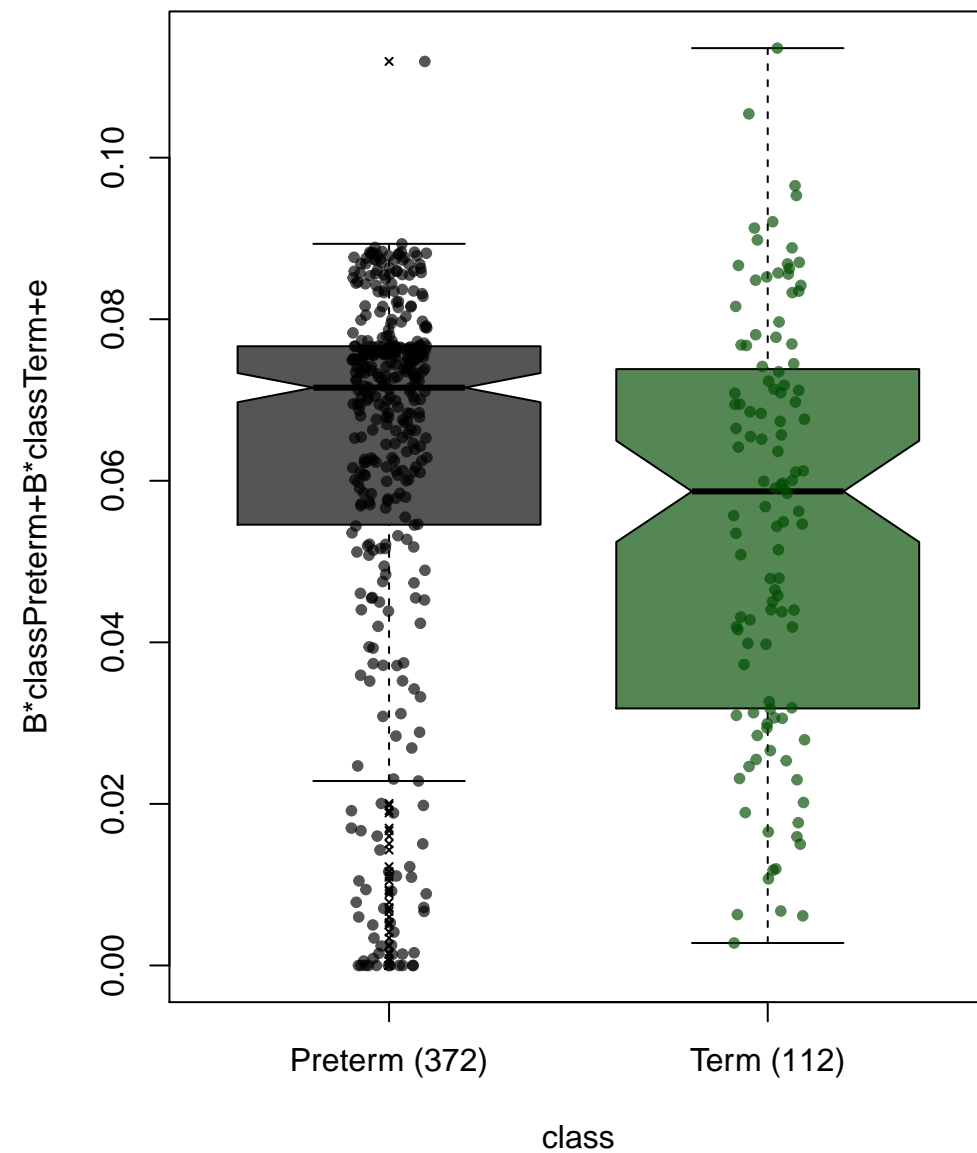
Partial Residual Plot



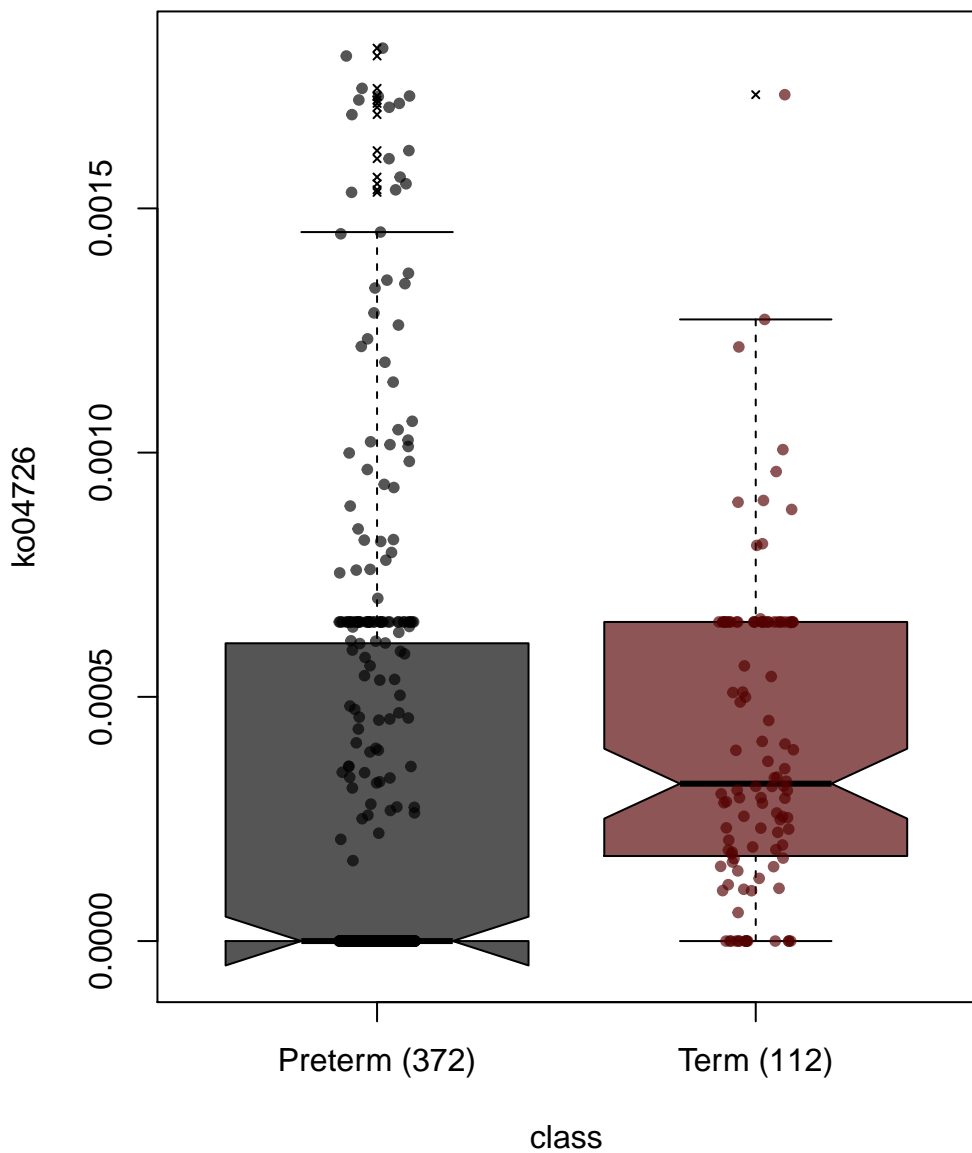
classTerm (-0.00727 sd 0.00268 , $p=0.00695$, $q=0.00902$)



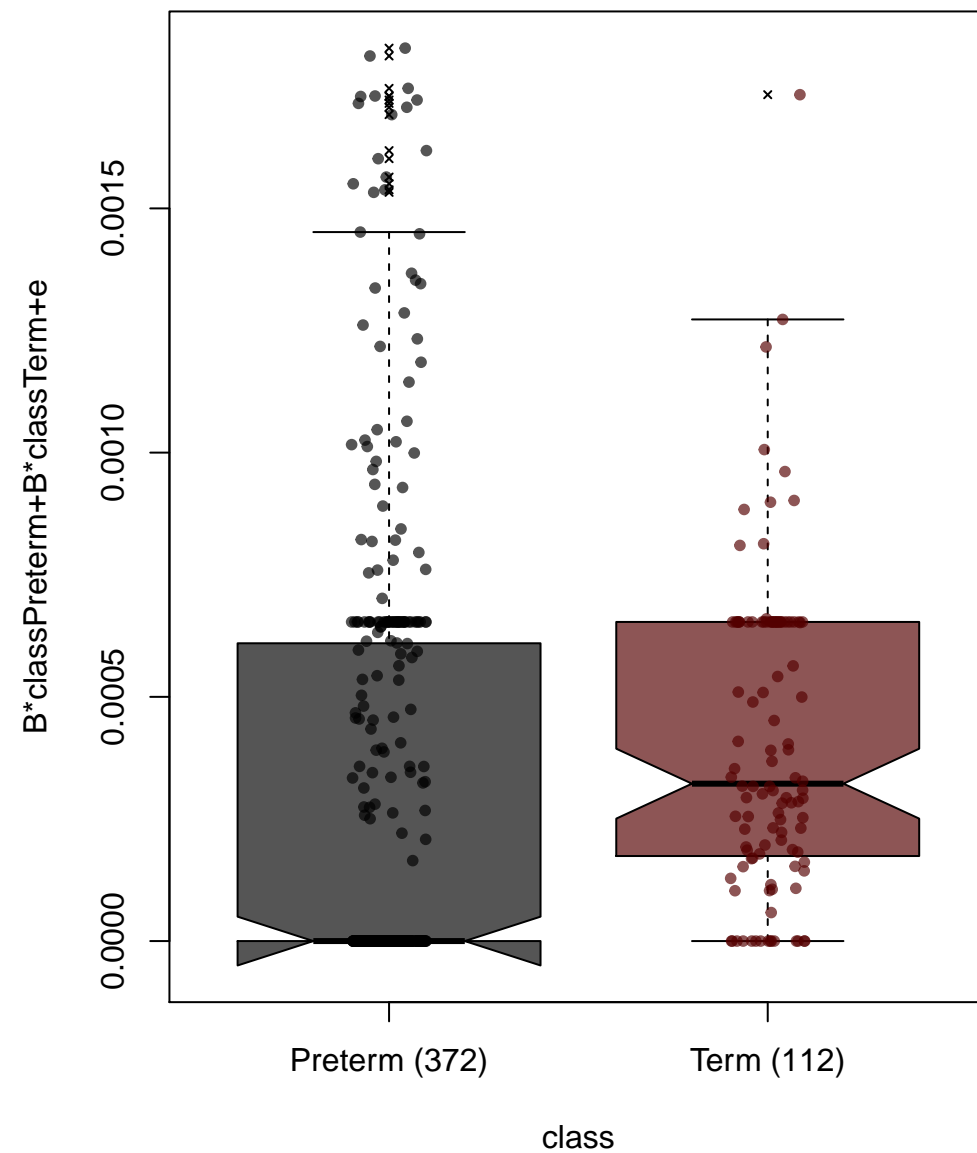
Partial Residual Plot



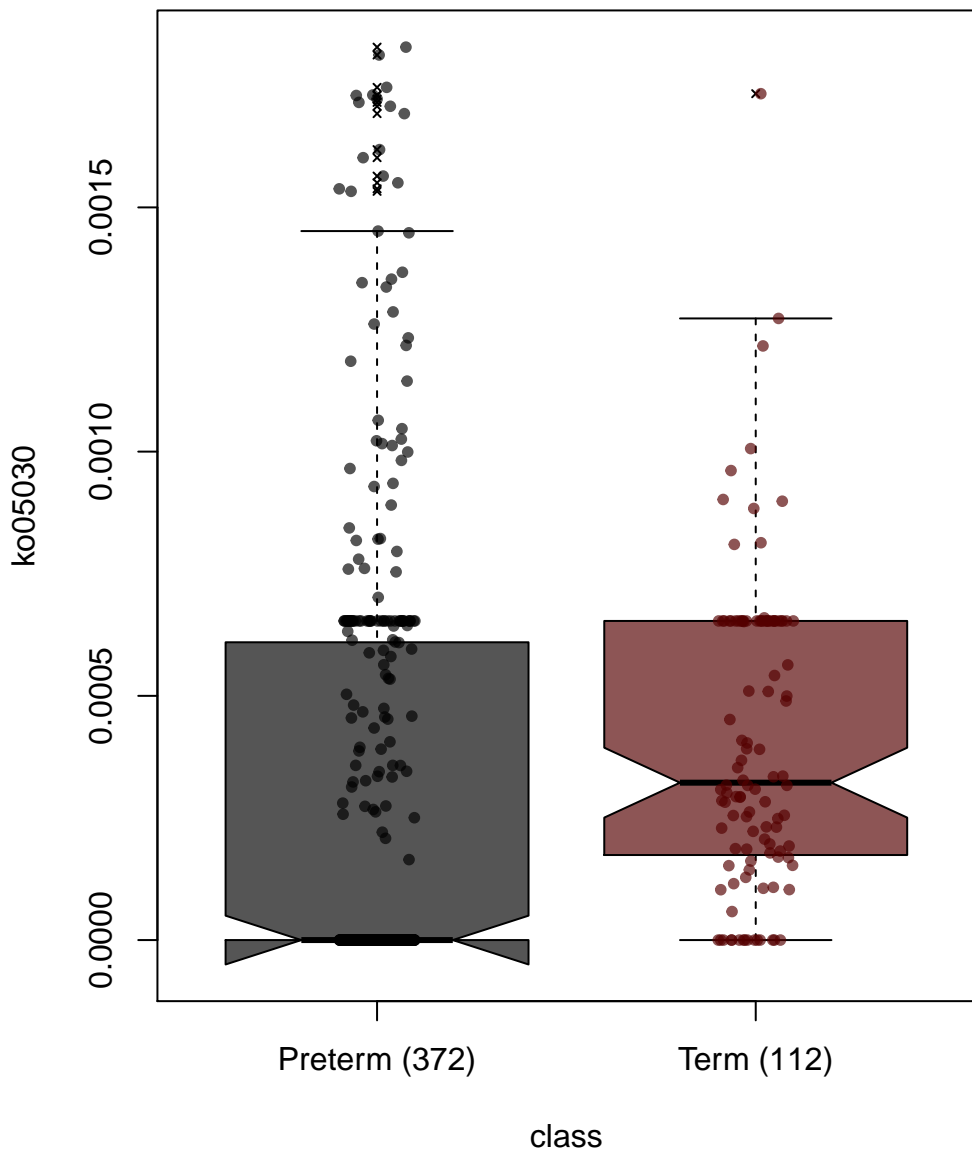
classTerm (0.000124 sd 4.59e-05, p=0.00701, q=0.00902)



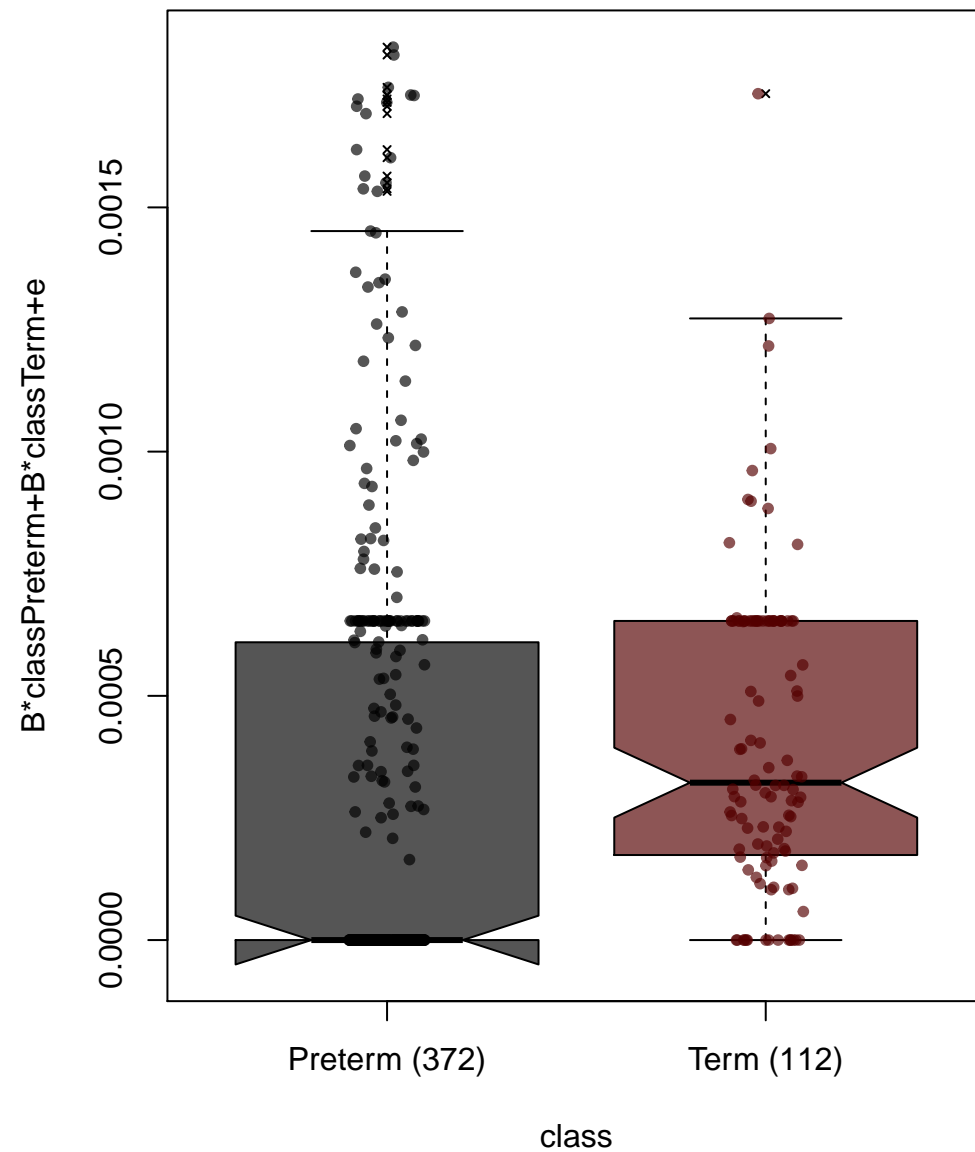
Partial Residual Plot



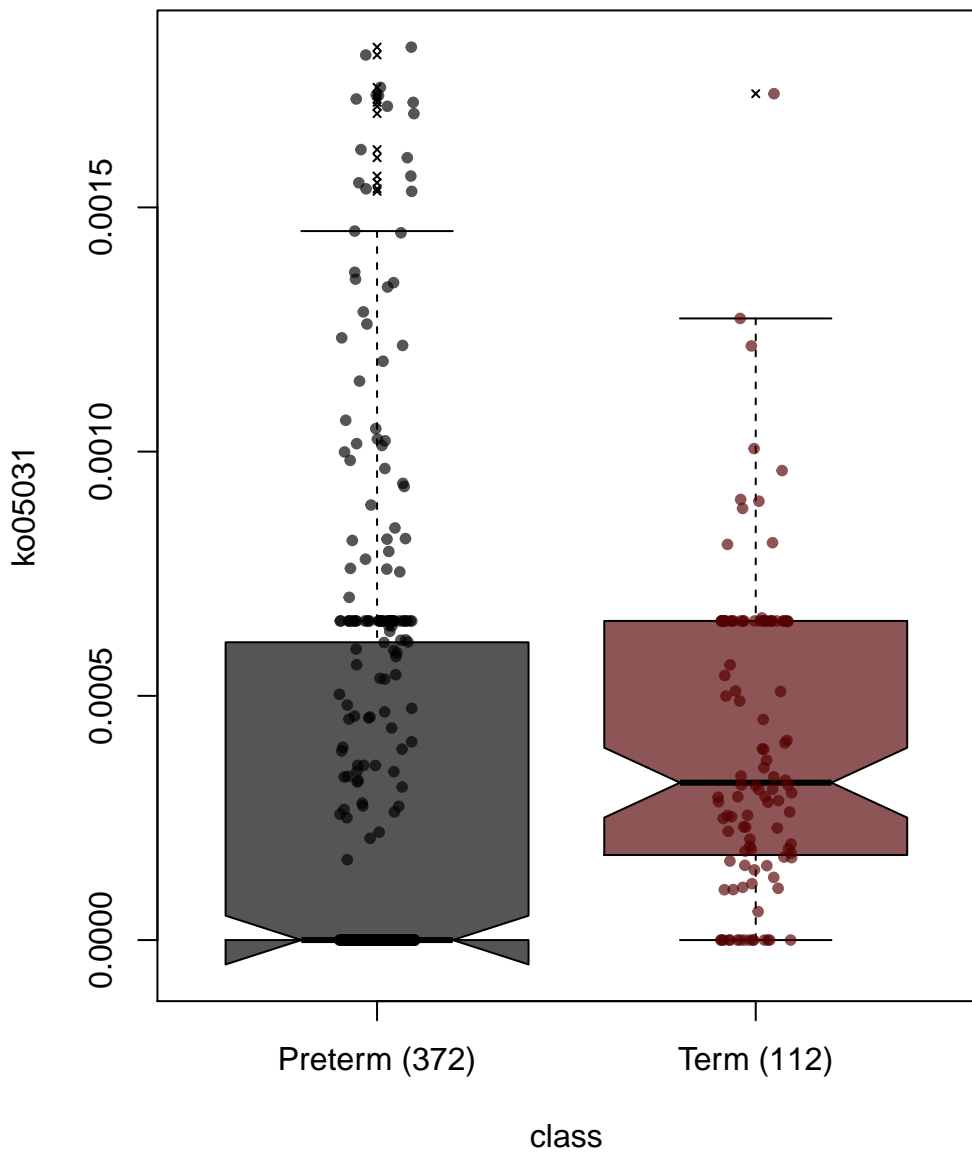
classTerm (0.000124 sd 4.59e-05, p=0.00701, q=0.00902)



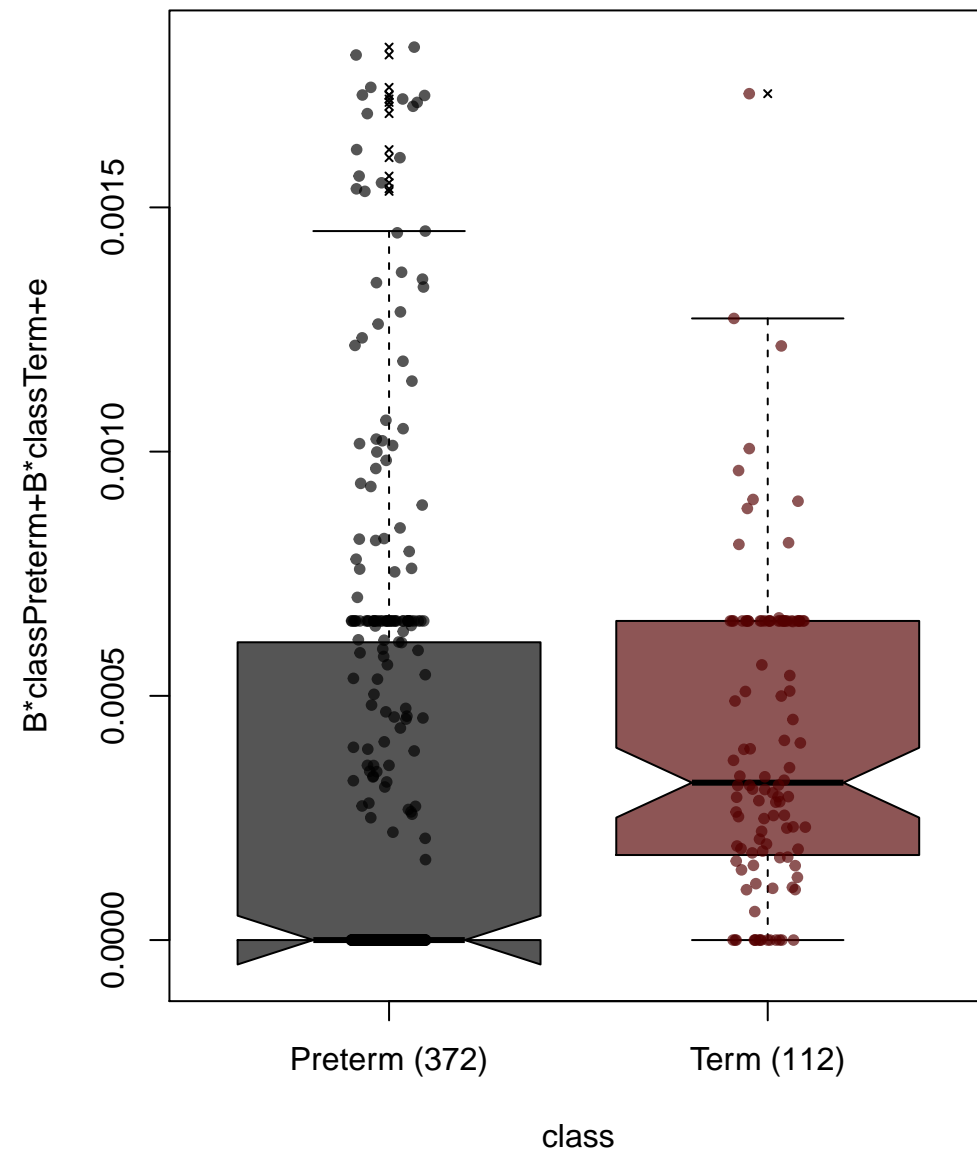
Partial Residual Plot



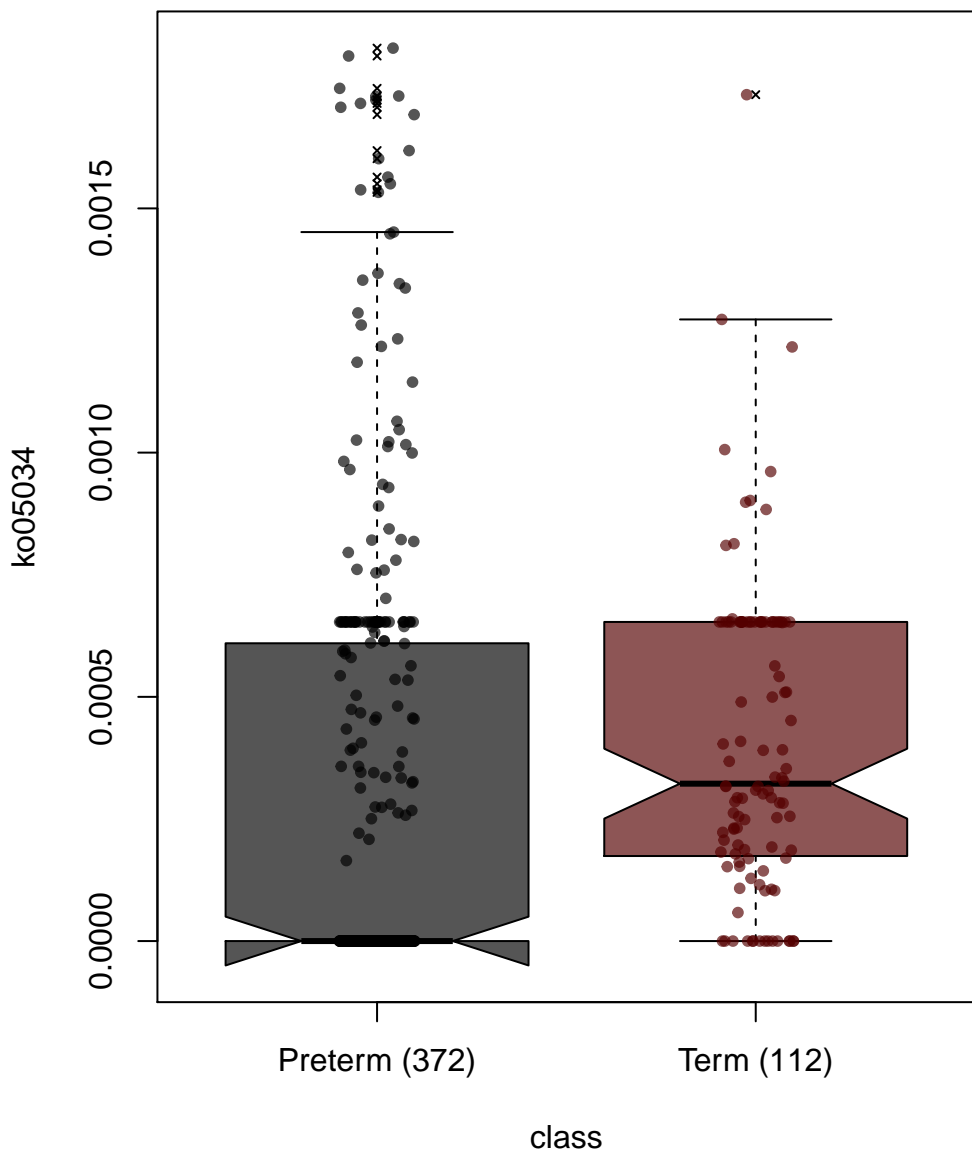
classTerm (0.000124 sd 4.59e-05, p=0.00701, q=0.00902)



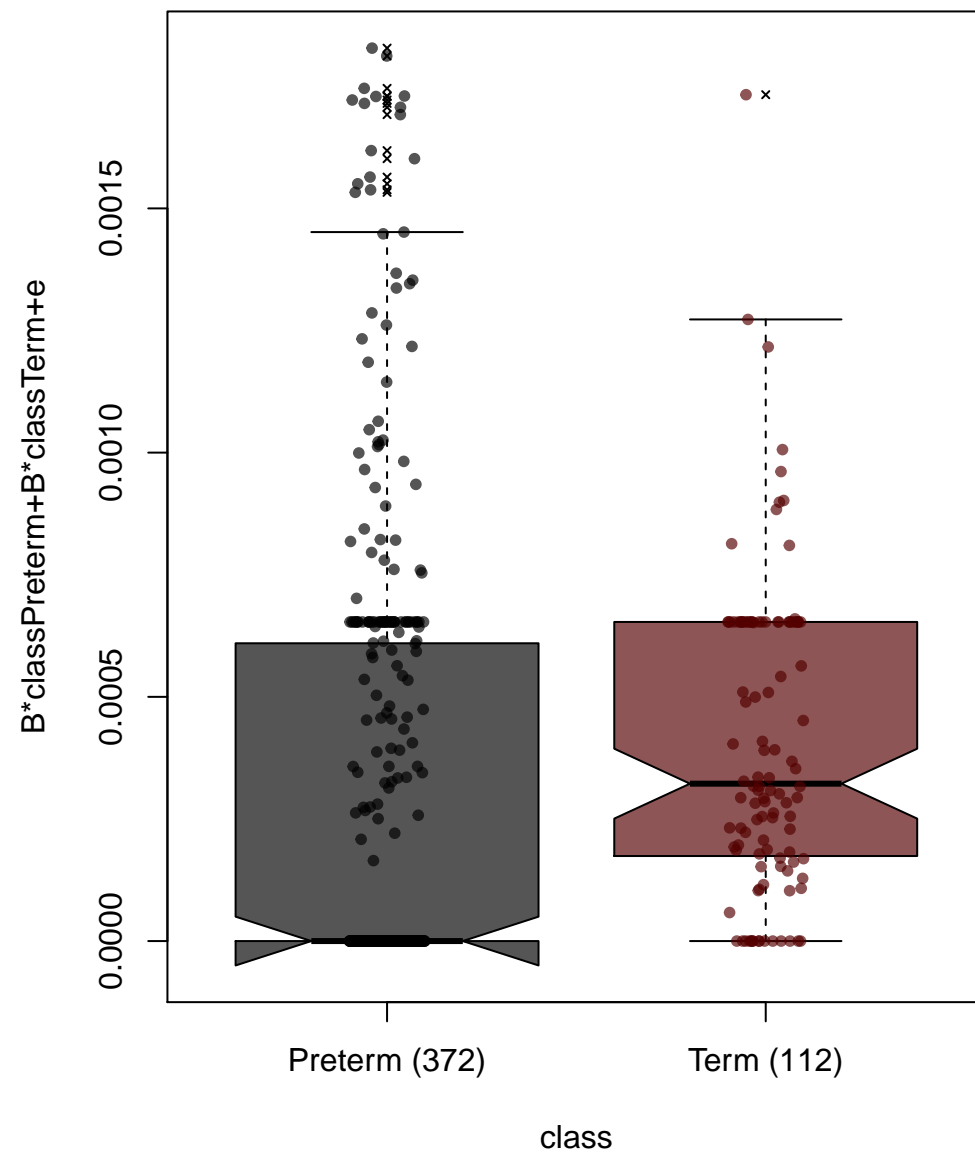
Partial Residual Plot



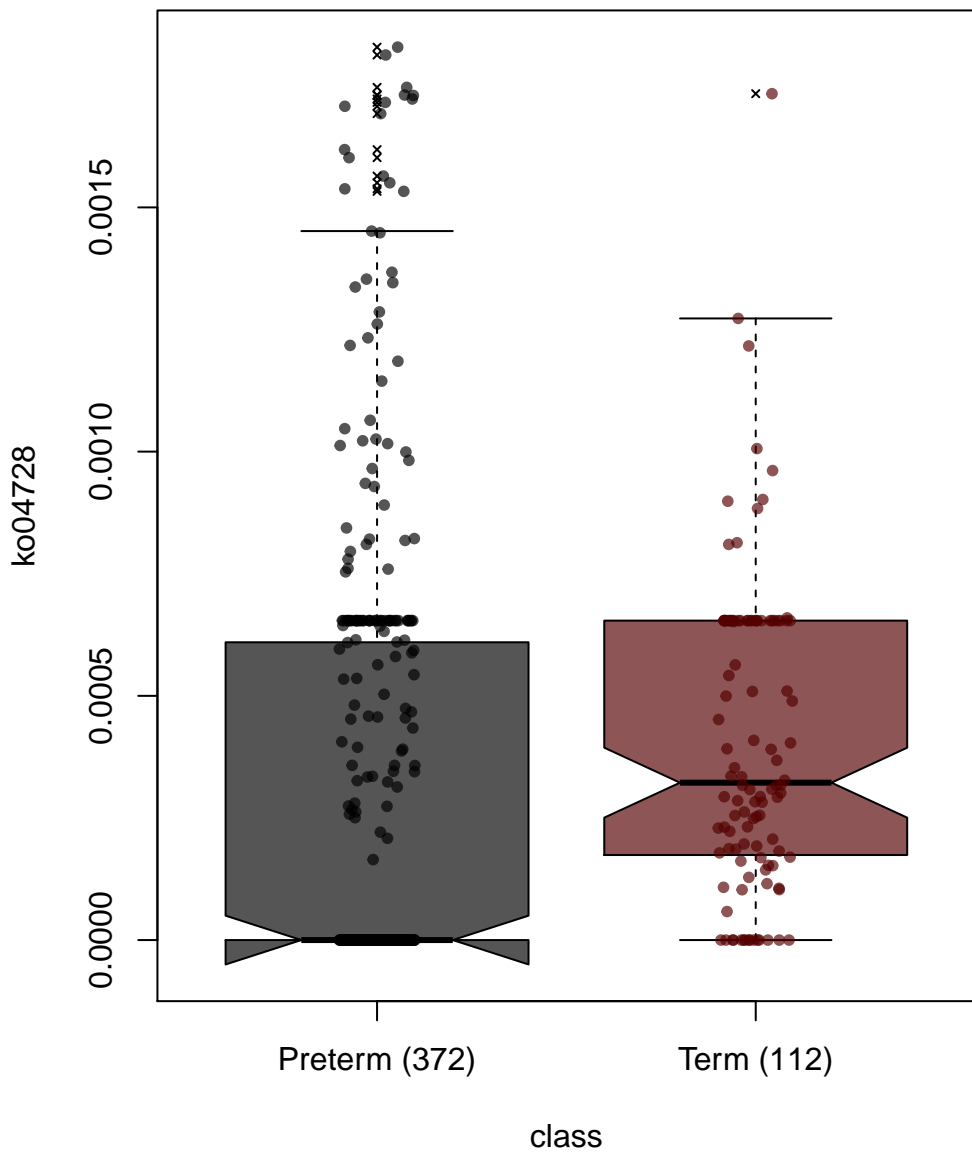
classTerm (0.000124 sd 4.59e-05, p=0.00701, q=0.00902)



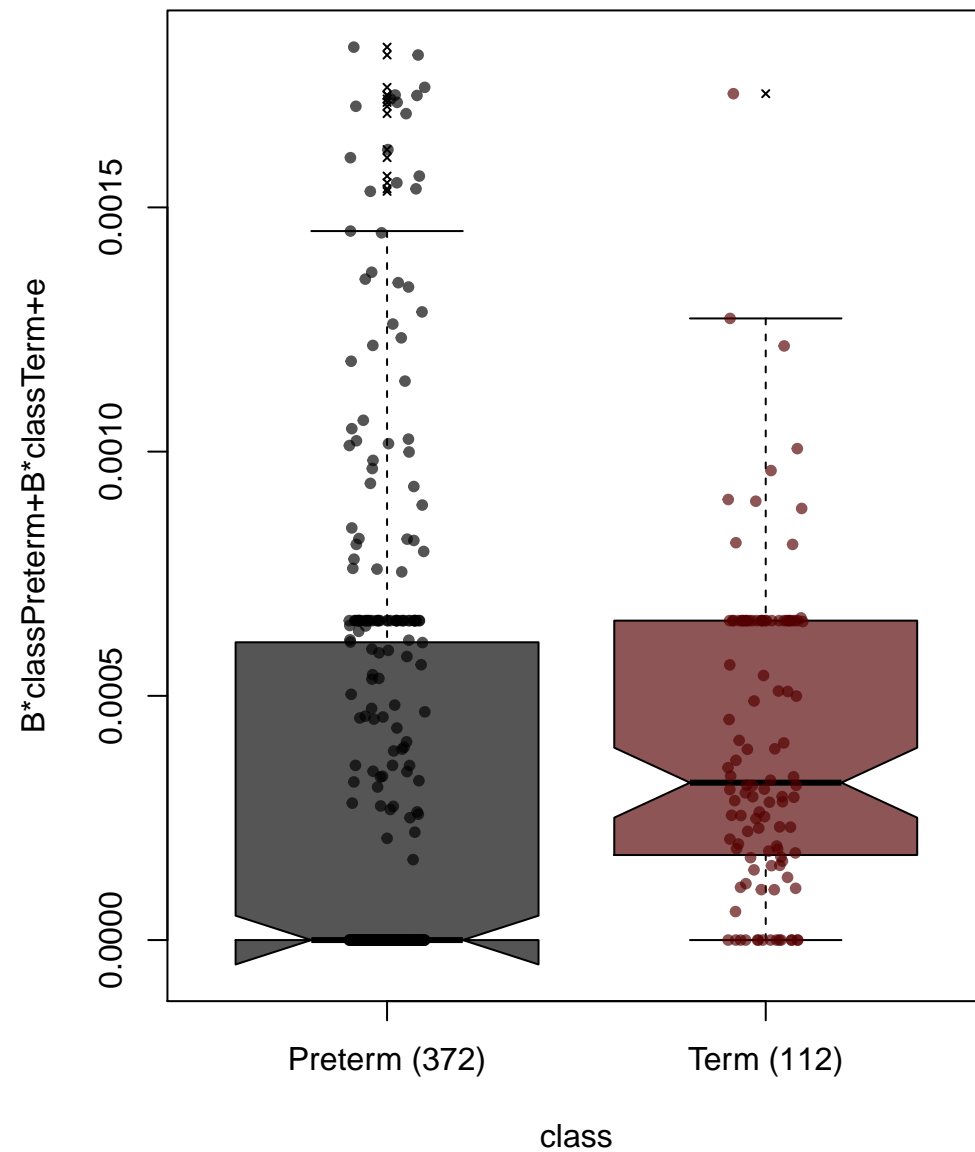
Partial Residual Plot



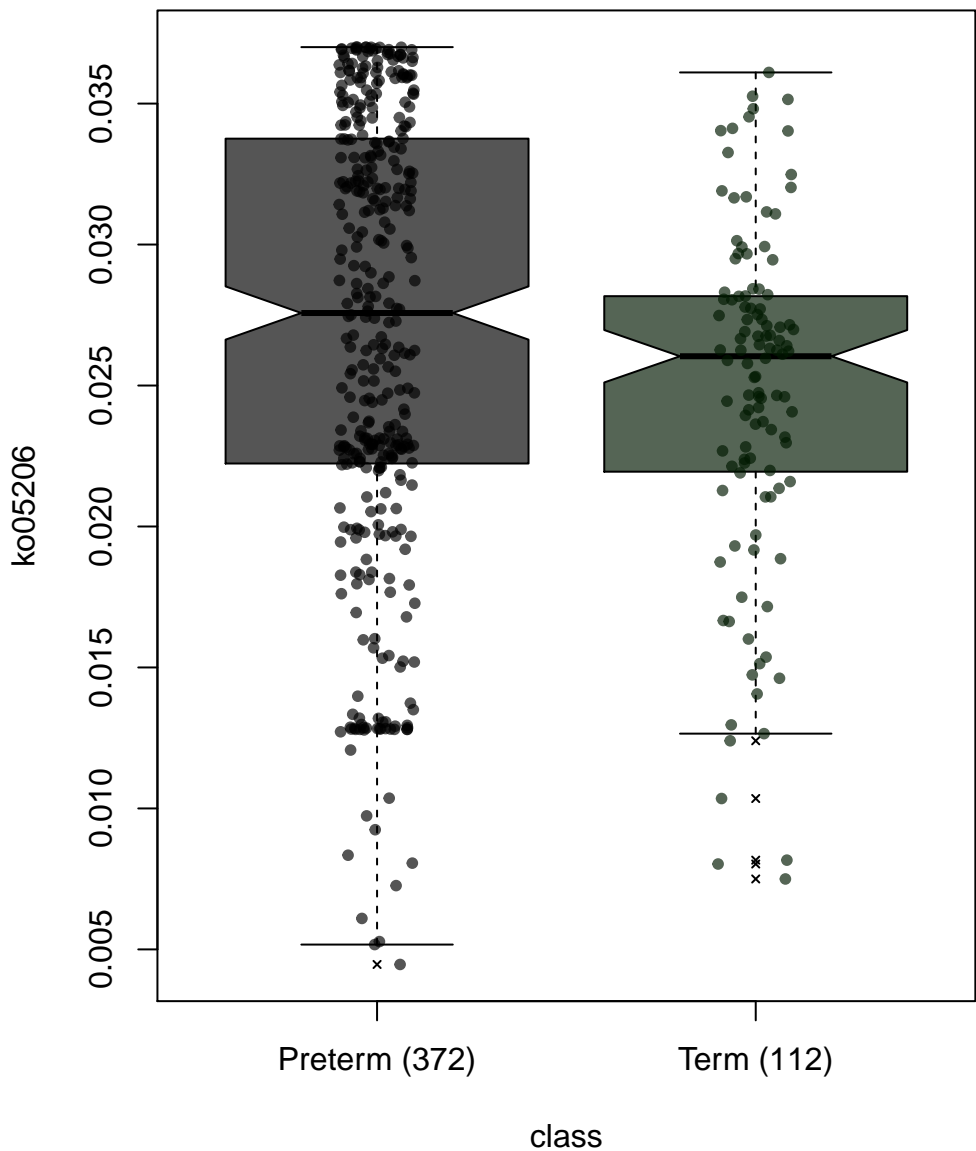
classTerm (0.000124 sd 4.59e-05, p=0.00714, q=0.00914)



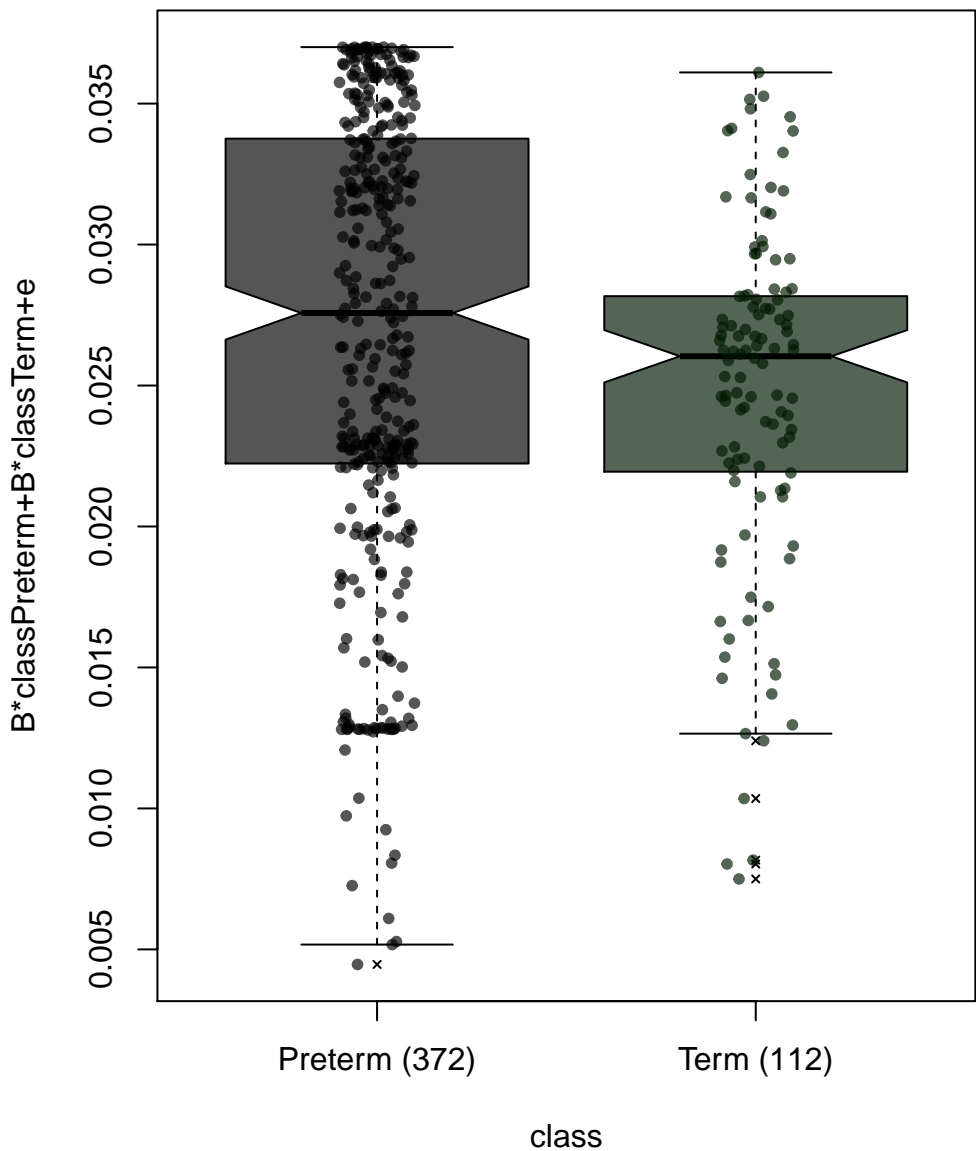
Partial Residual Plot



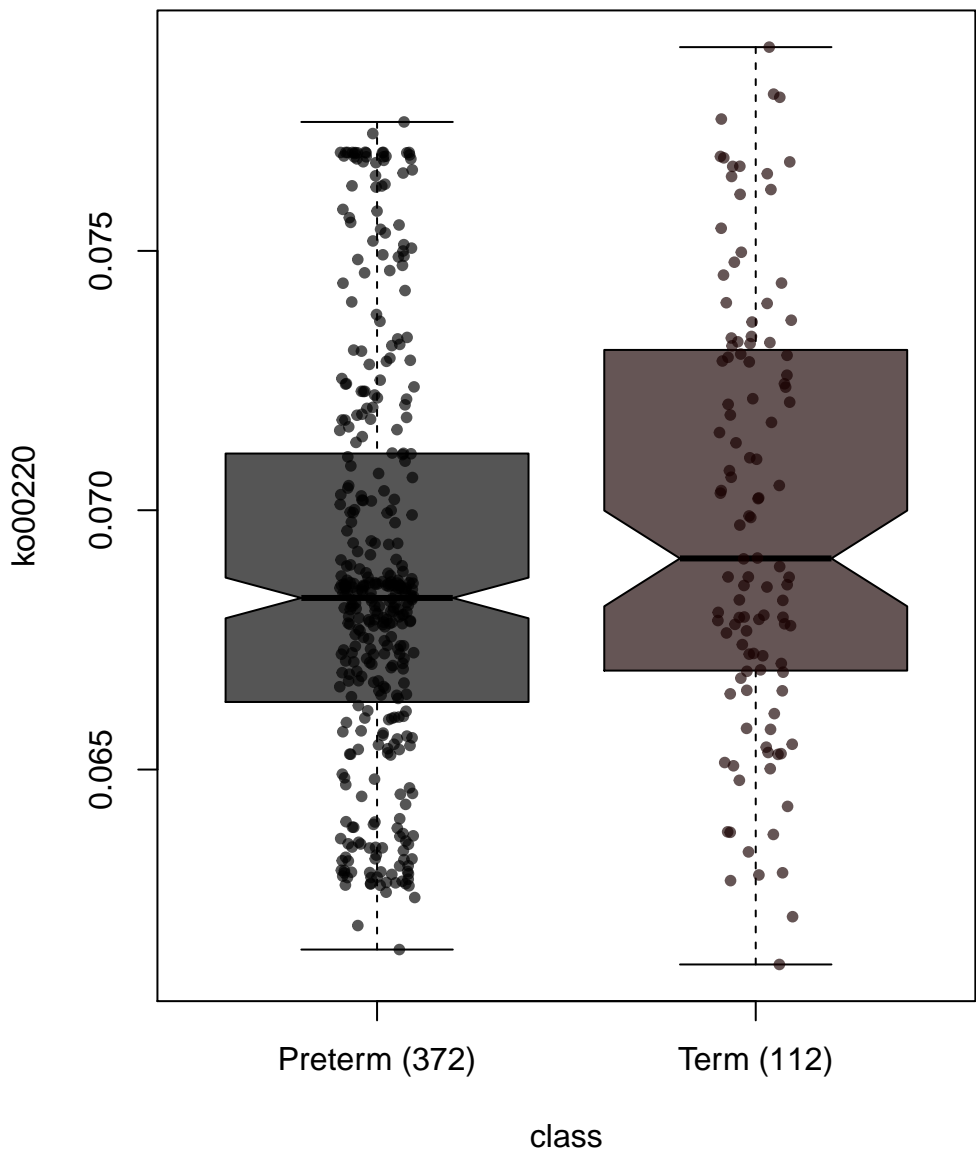
classTerm (−0.0021 sd 0.000819, p=0.0106, q=0.0135)



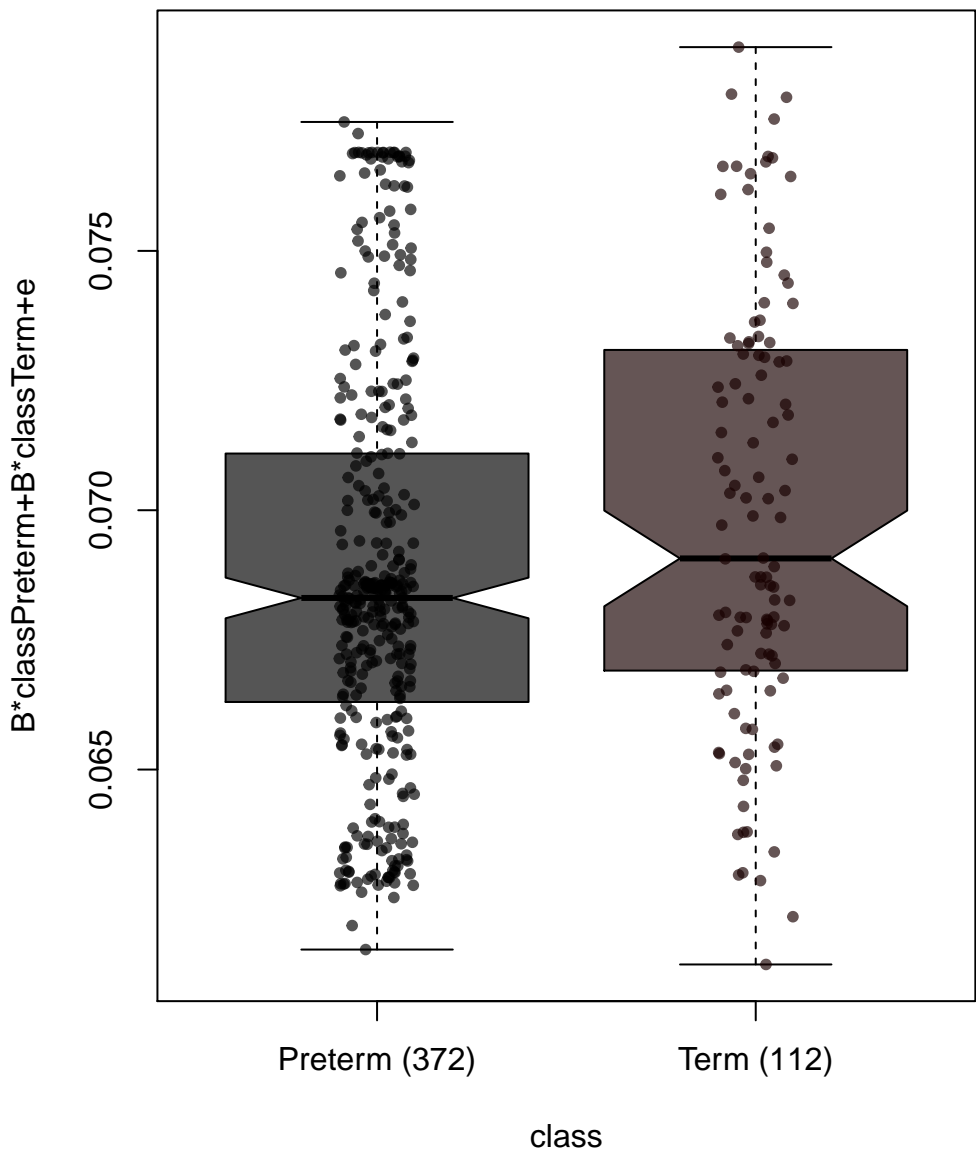
Partial Residual Plot



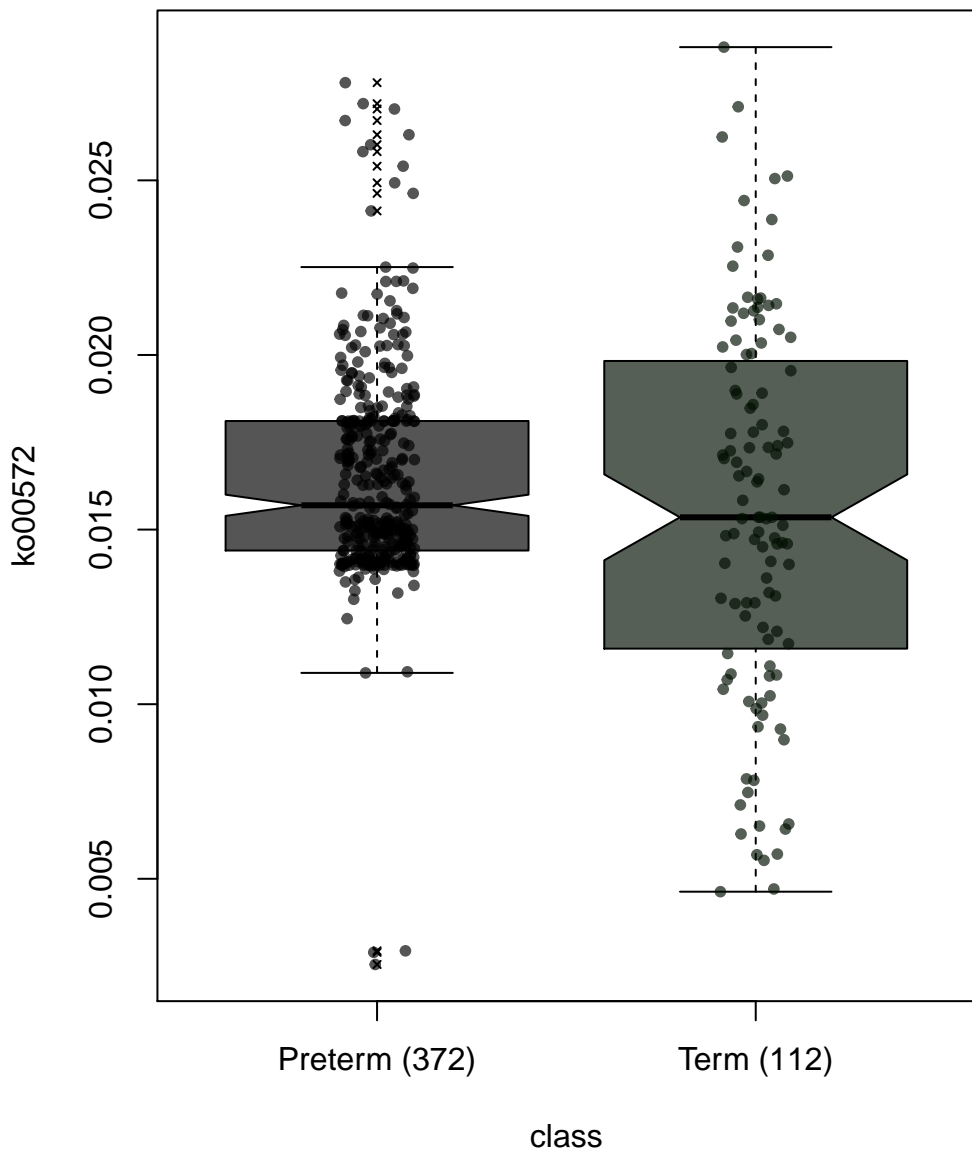
classTerm (0.00109 sd 0.000433, p=0.0123, q=0.0156)



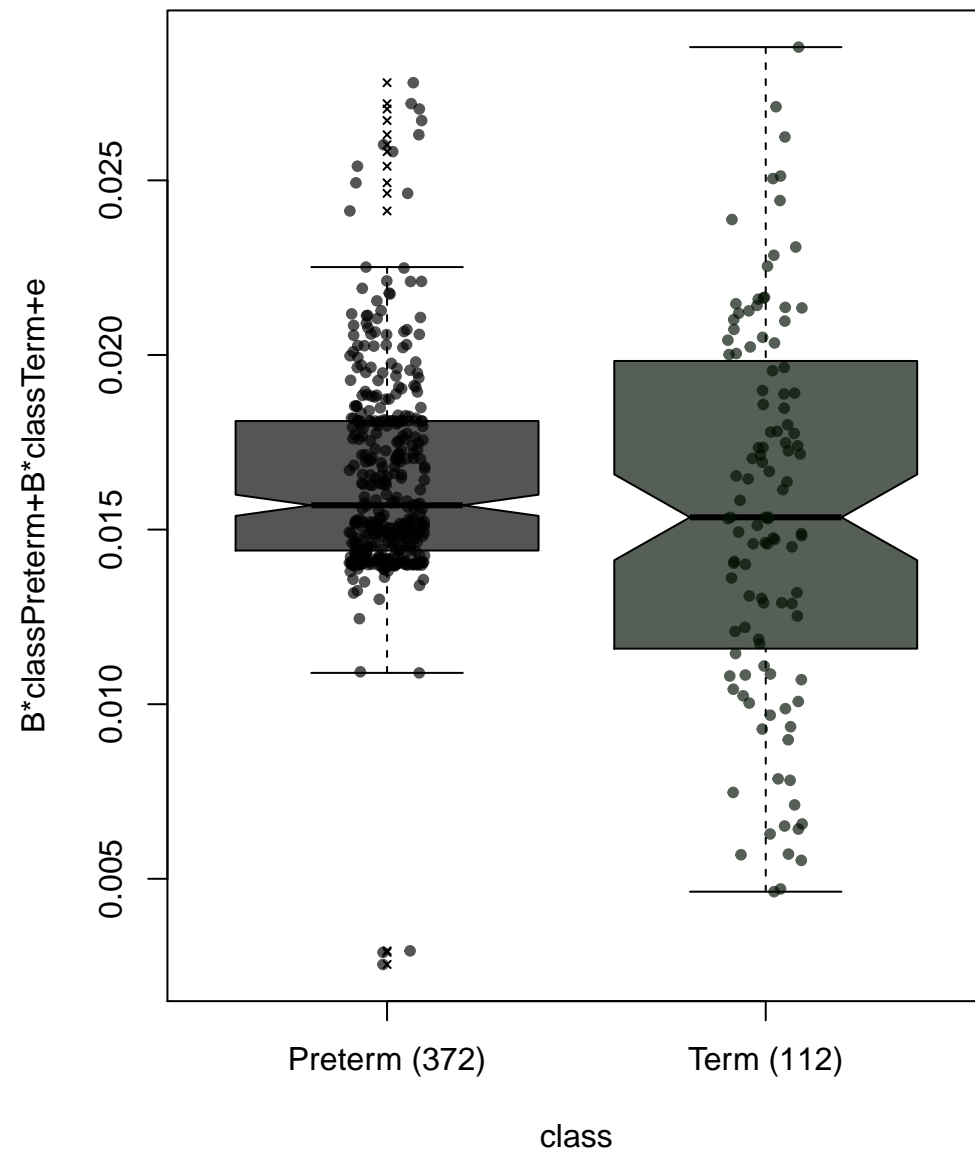
Partial Residual Plot



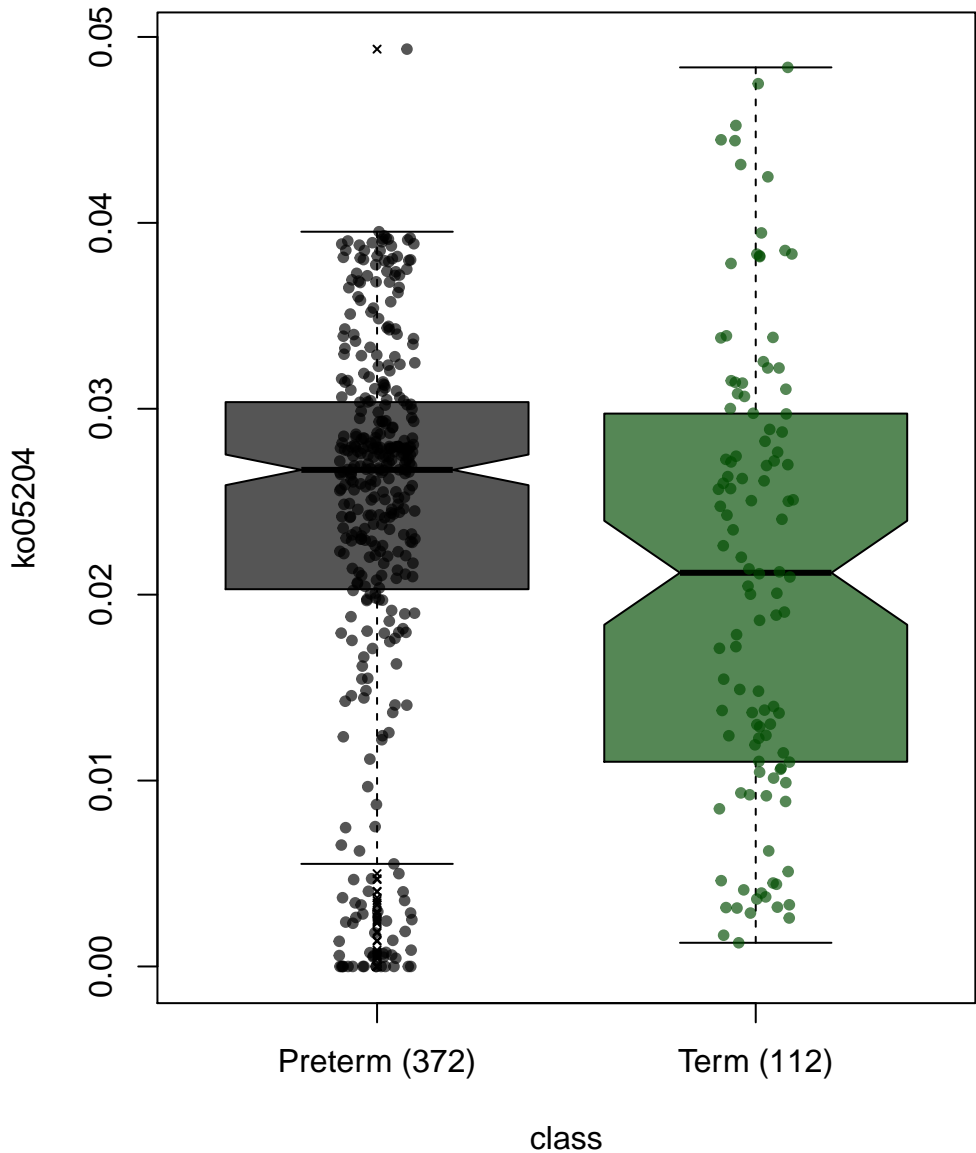
classTerm (-0.001 sd 0.000402, p=0.0129, q=0.0163)



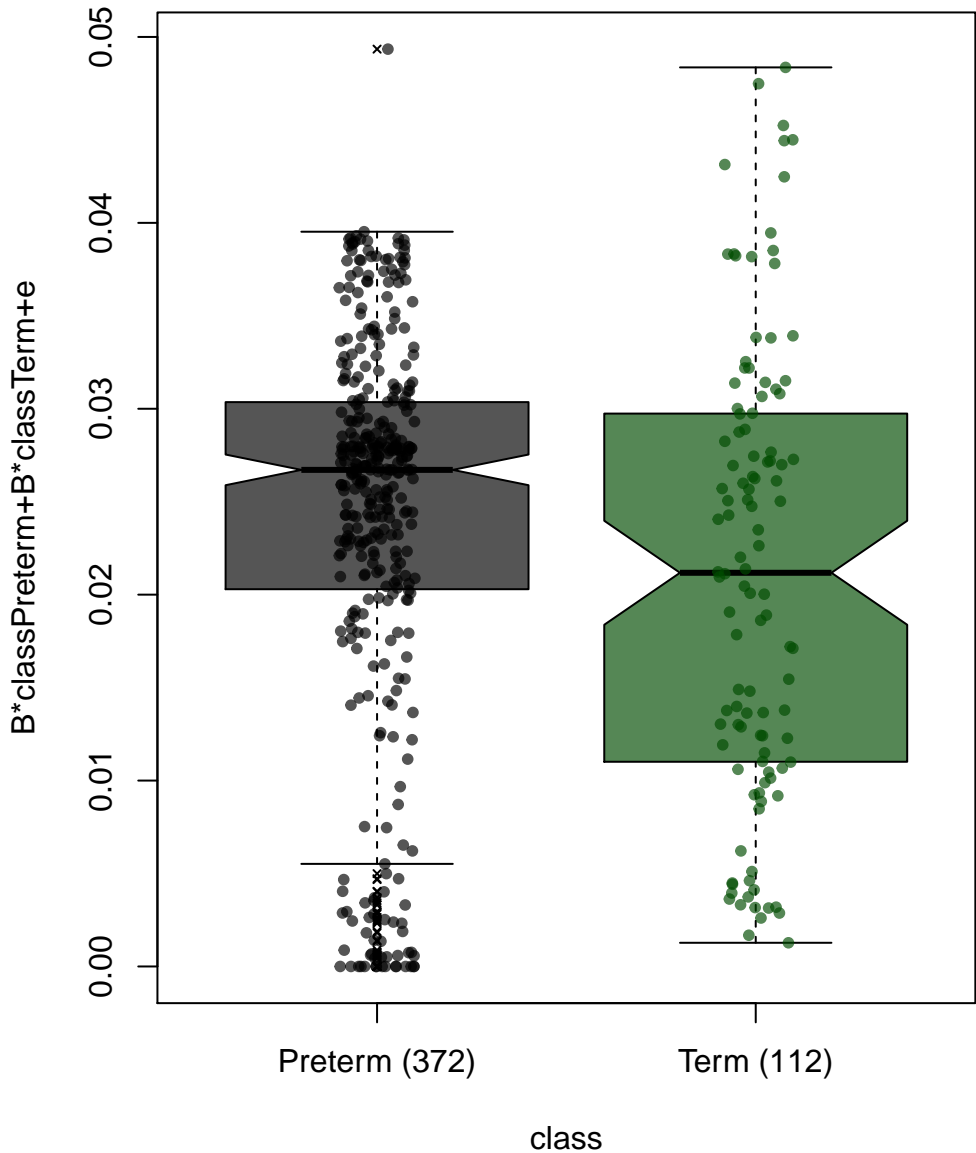
Partial Residual Plot



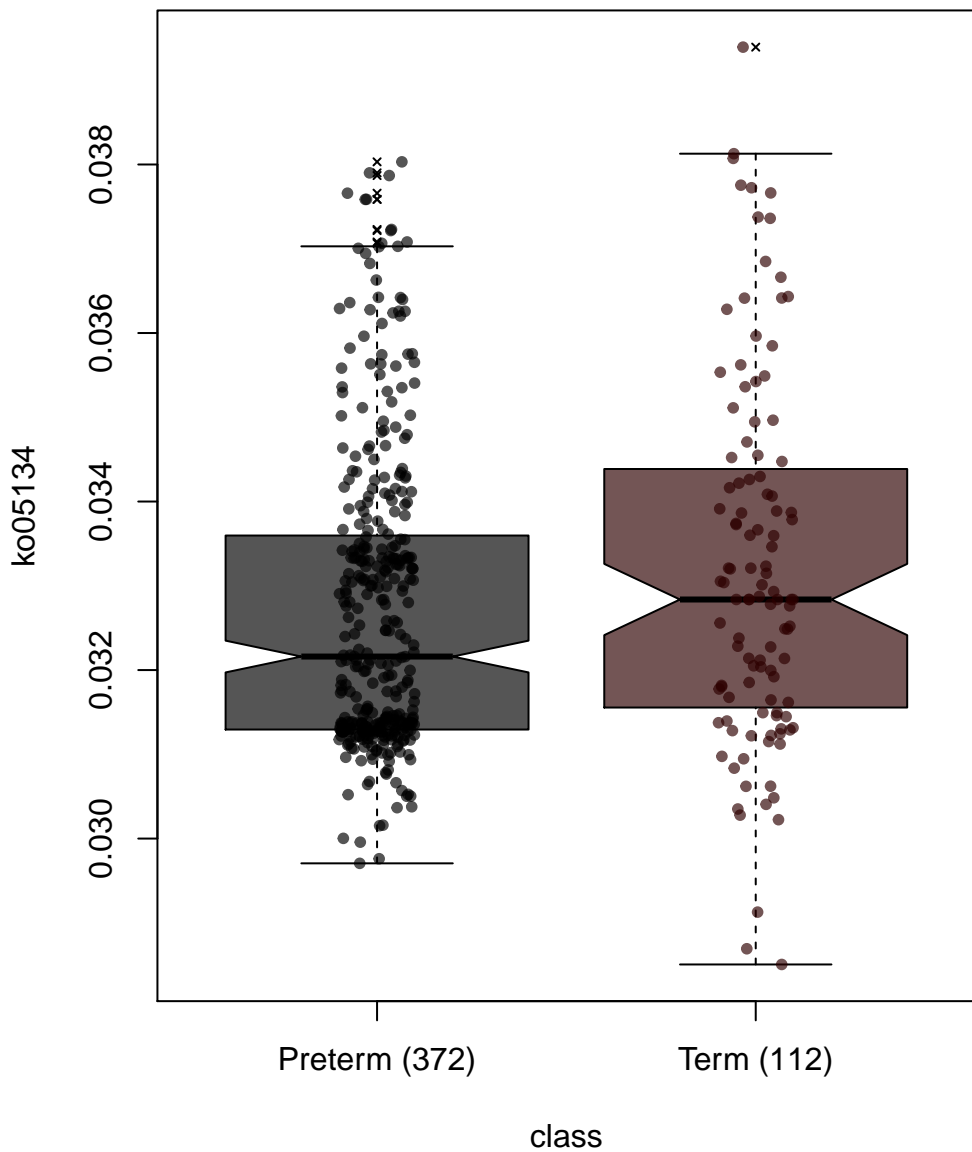
classTerm (−0.00292 sd 0.00119, p=0.0144, q=0.0182)



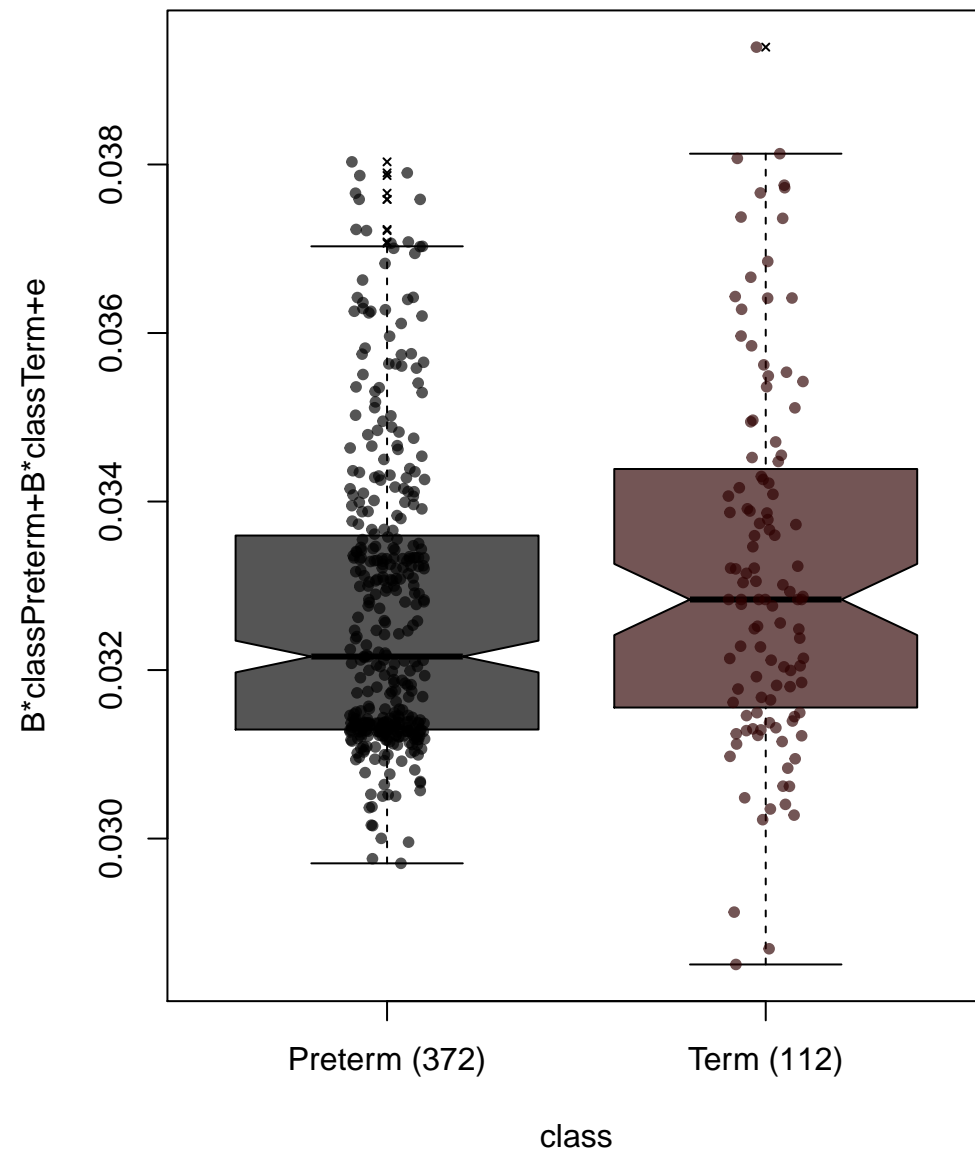
Partial Residual Plot



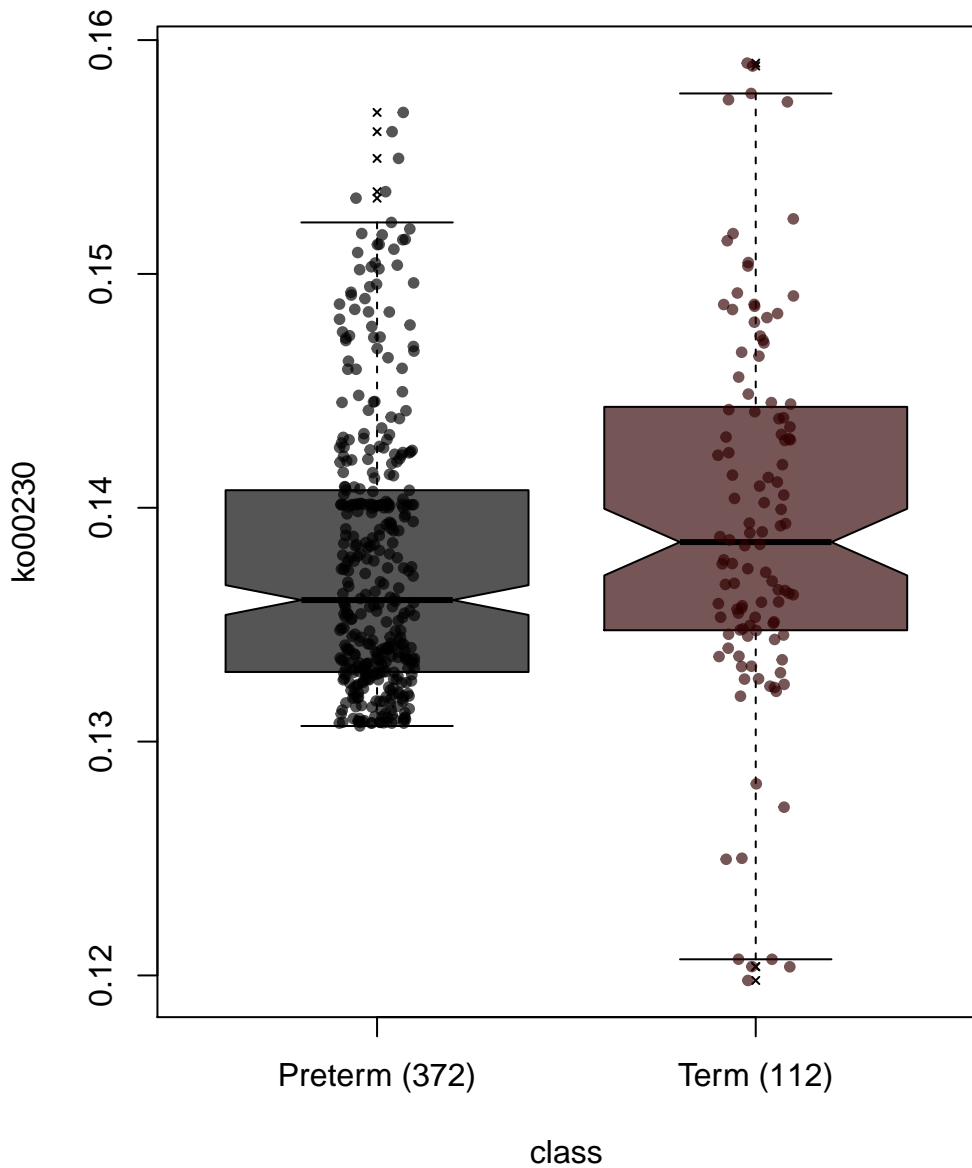
classTerm (0.000493 sd 0.000202, p=0.0153, q=0.0191)



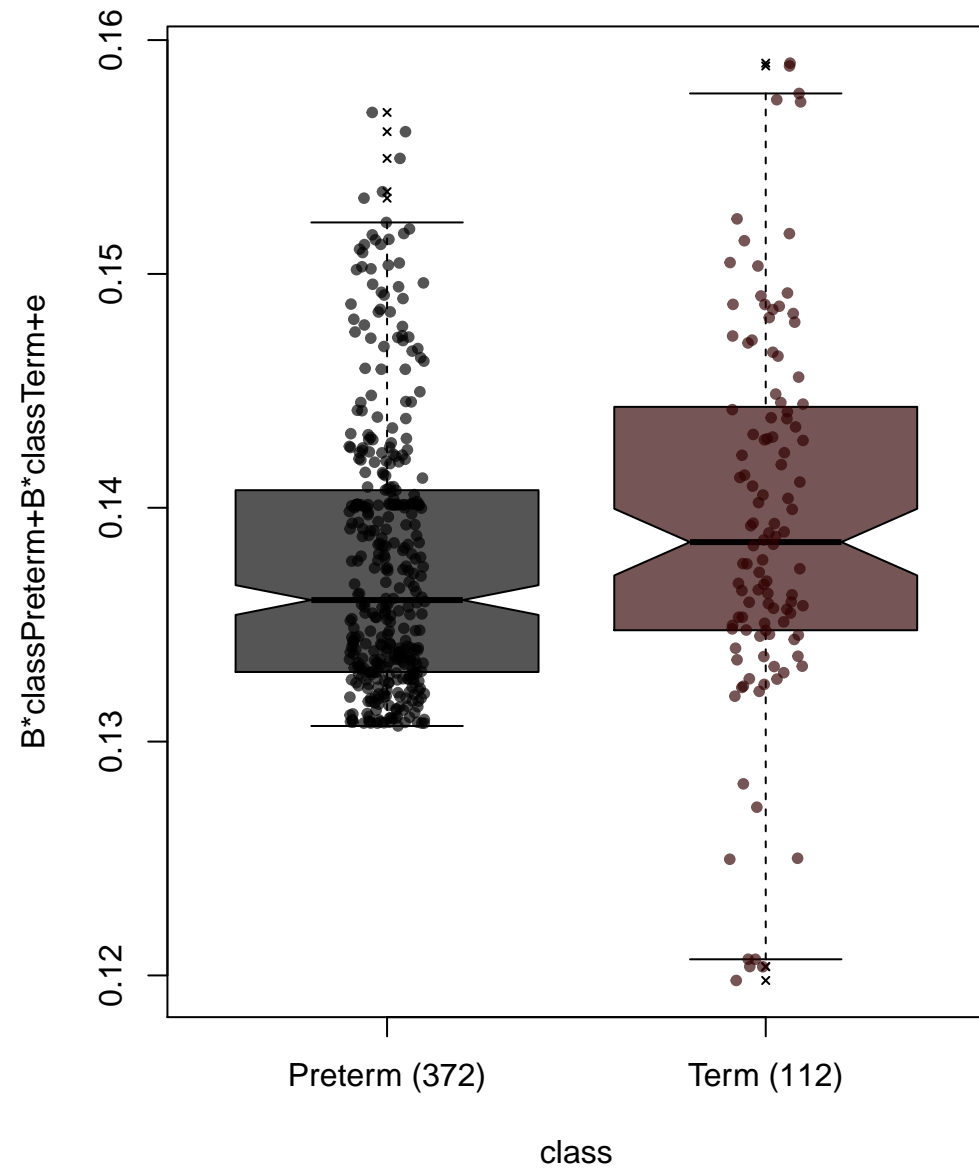
Partial Residual Plot



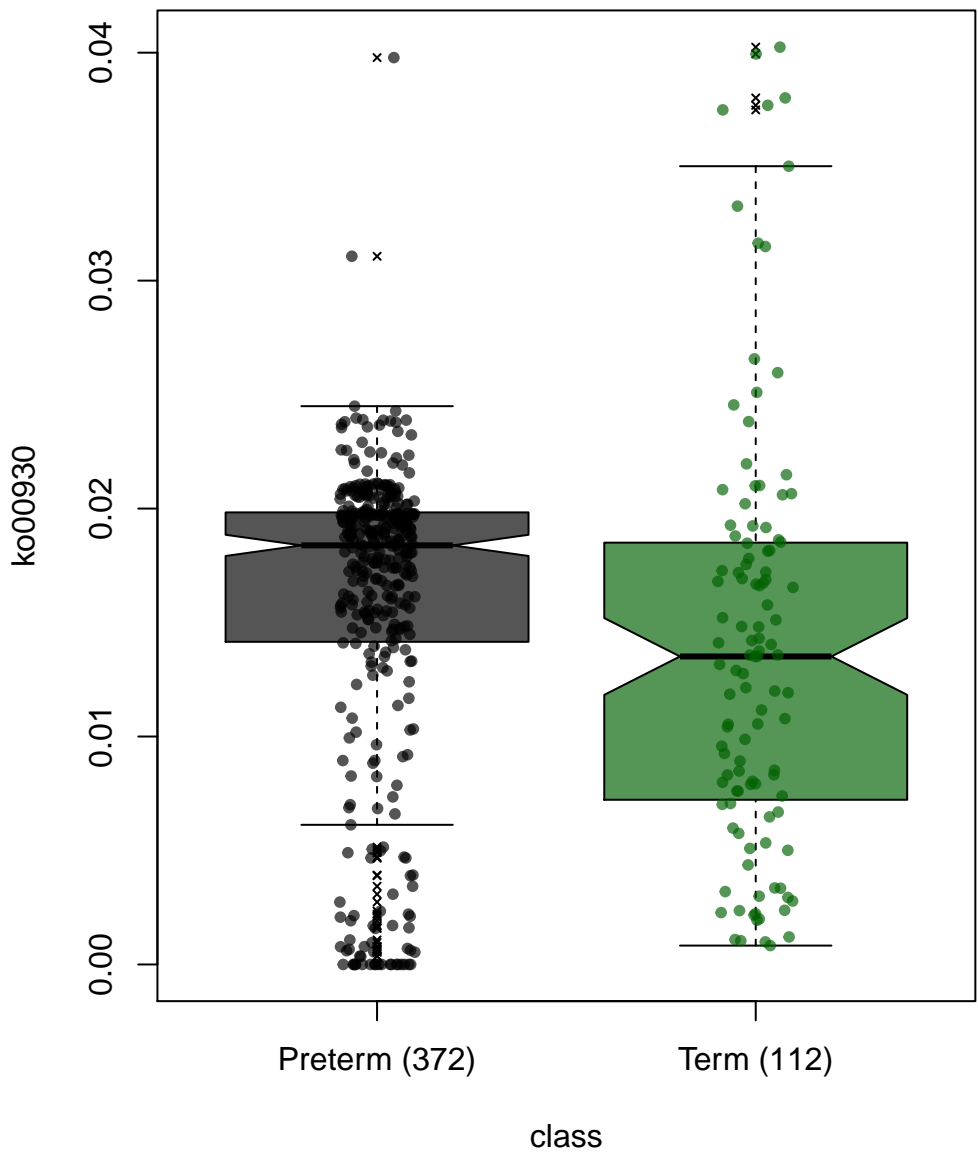
classTerm (0.00167 sd 0.000697, p=0.0167, q=0.0208)



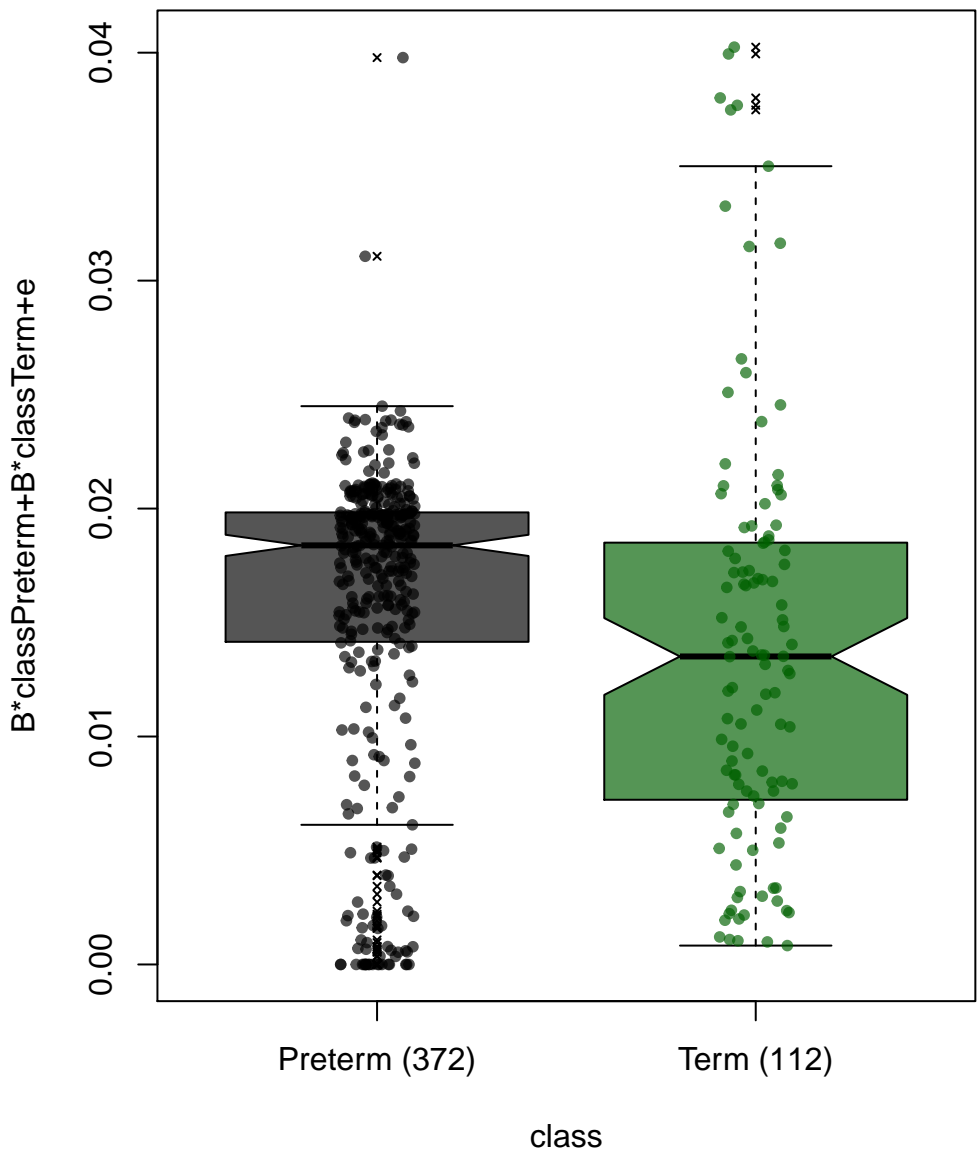
Partial Residual Plot



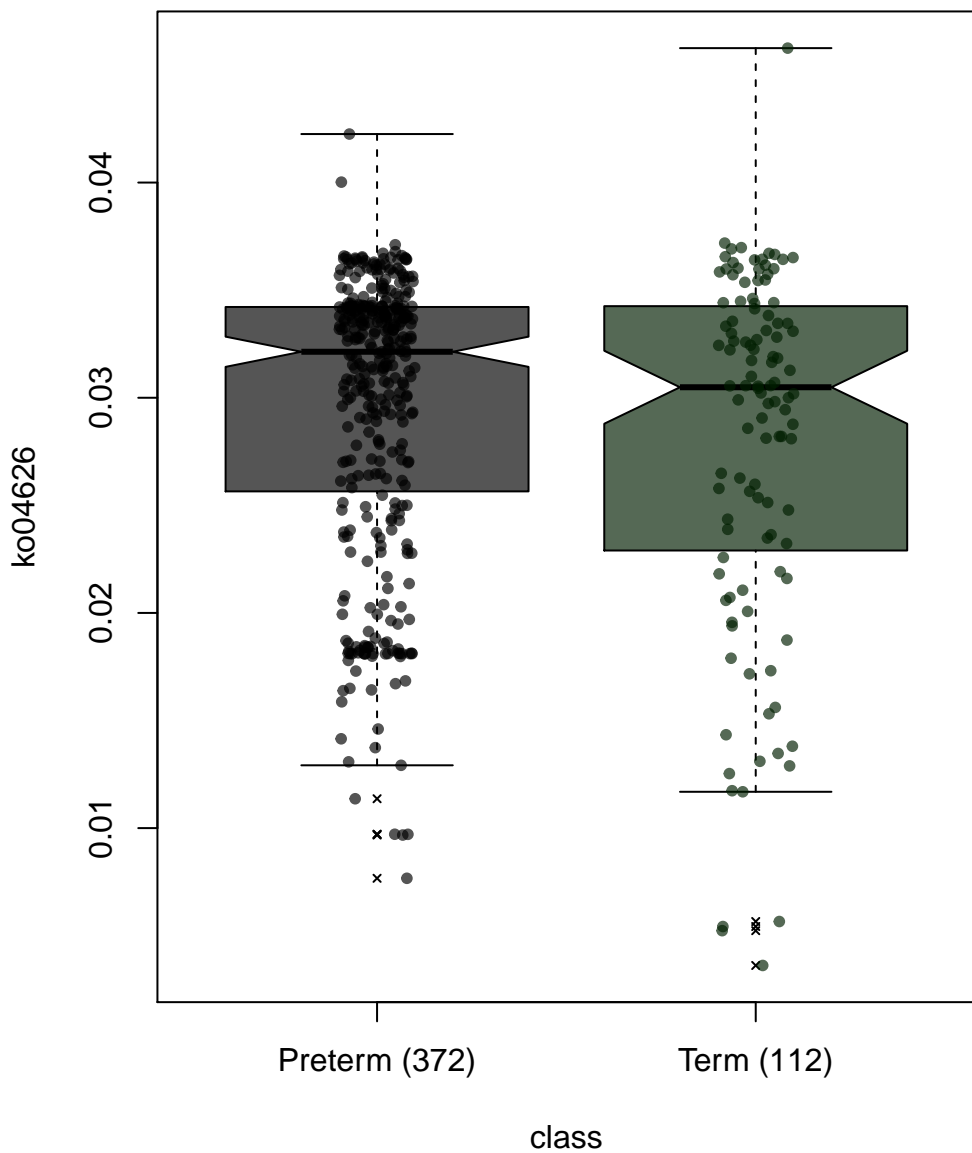
classTerm (−0.00187 sd 0.000806, p=0.0209, q=0.026)



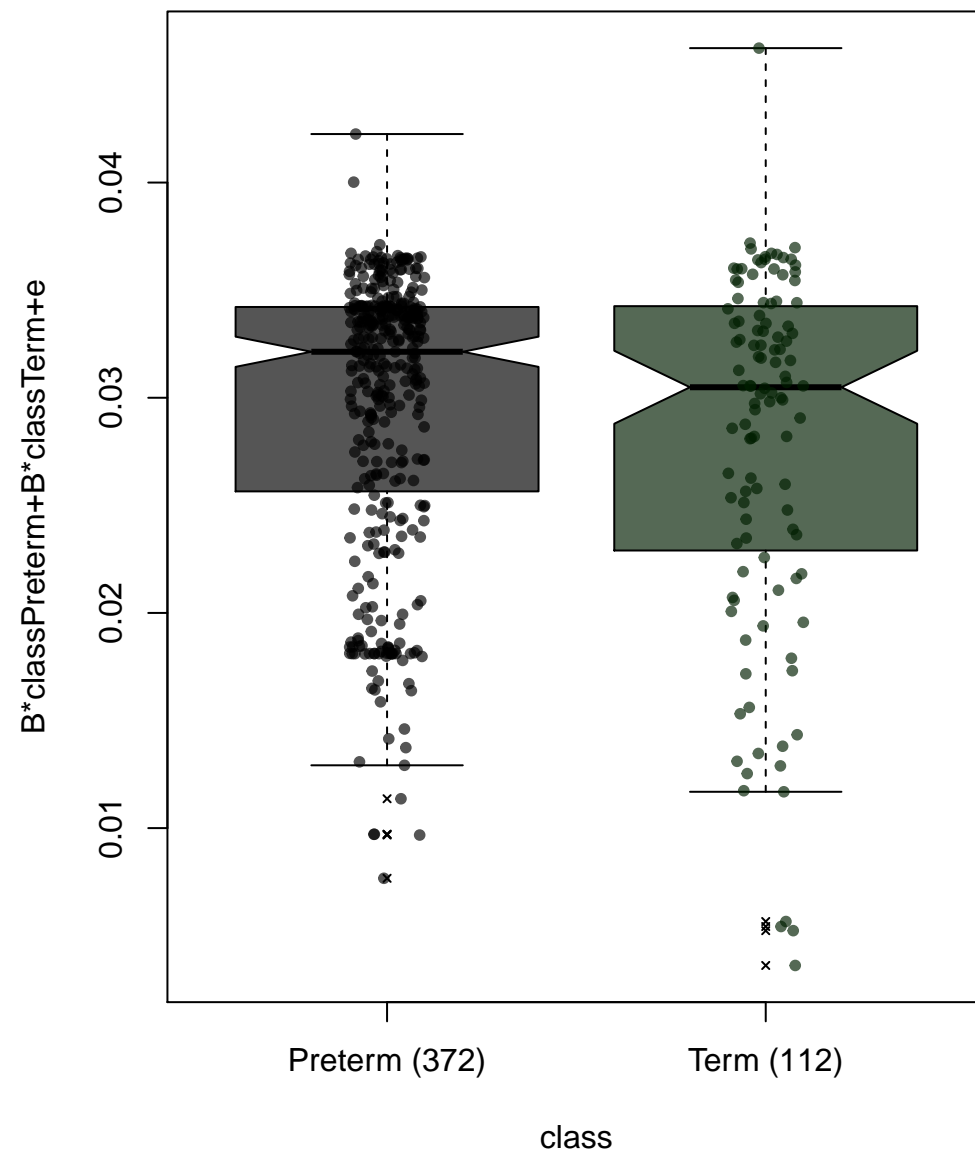
Partial Residual Plot



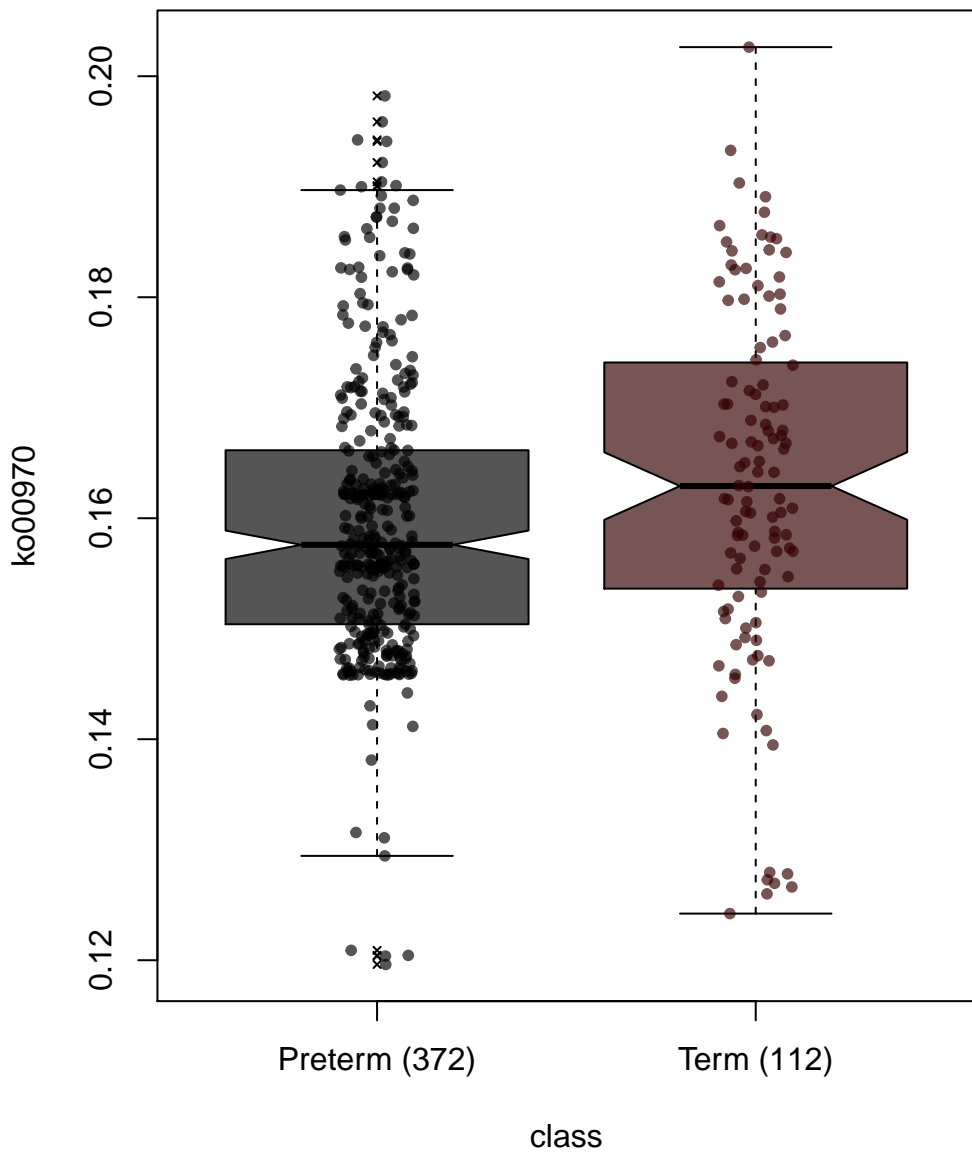
classTerm (-0.00168 sd 0.000762, p=0.0276, q=0.0341)



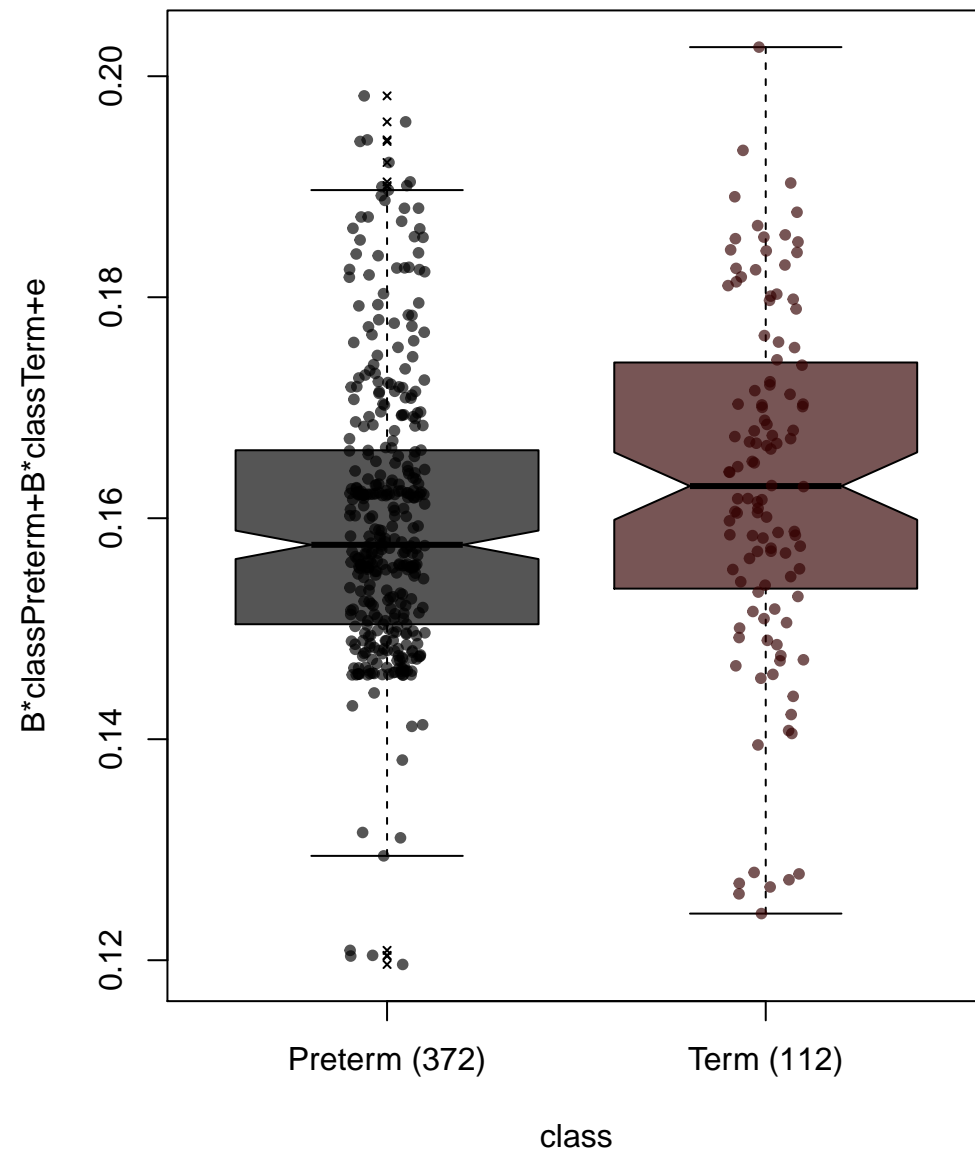
Partial Residual Plot



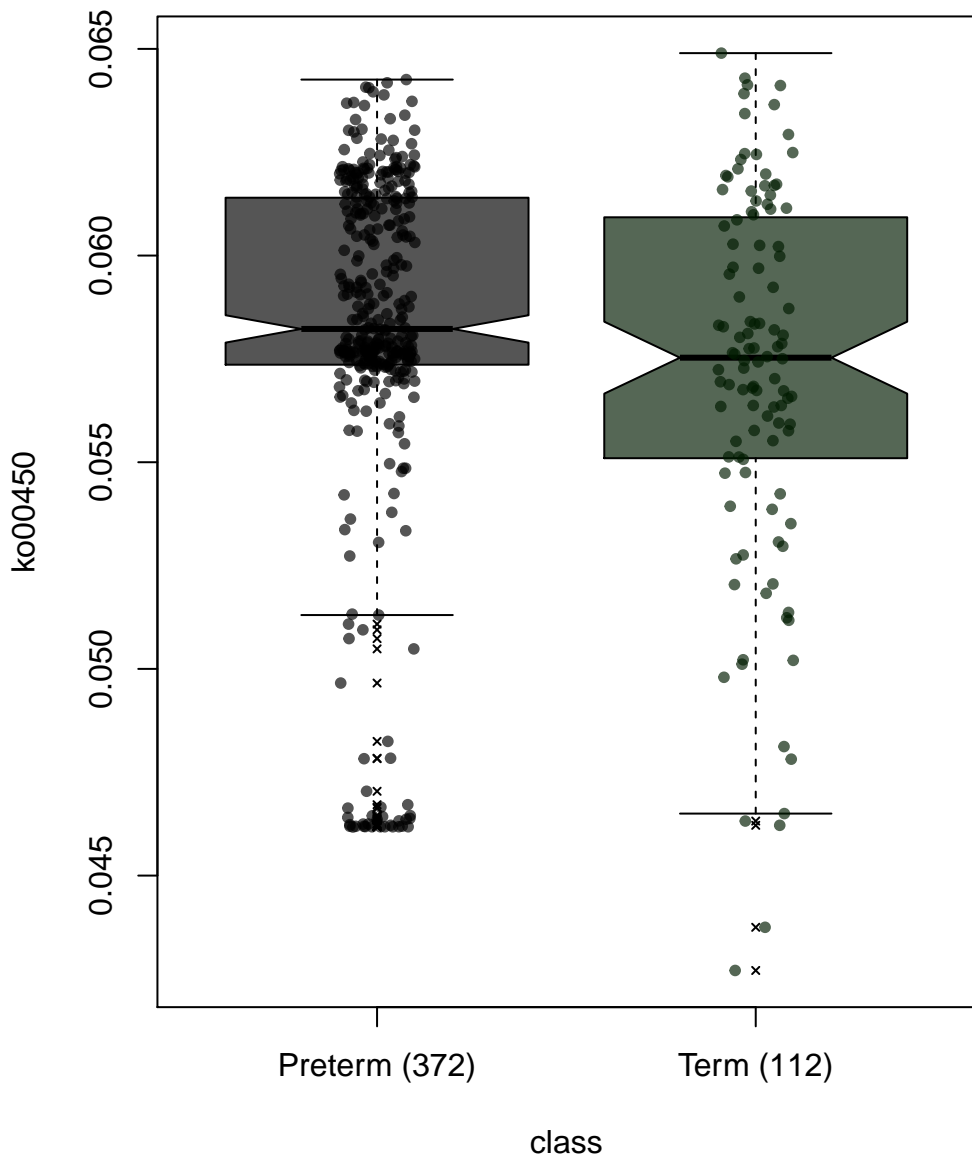
classTerm (0.00319 sd 0.00147, p=0.0308, q=0.0378)



Partial Residual Plot



classTerm (−0.000996 sd 0.000473, p=0.0357, q=0.0437)



Partial Residual Plot

