ANCOM-BC2: Summary table of pairwise comparisons of abundant taxa (4mo, controls) Ifc\_DietWatts Ifc\_DietZIRC Ifc\_DietZIRC\_DietWatts se\_DietZIRC se\_DietZIRC bietWatts w\_DietZIRC p\_DietZIRC p\_DietZIRC p\_DietZIRC p\_DietZIRC p\_DietZIRC w\_DietZIRC w\_Di Cetobacterium FALSE FALSE 0.012 -0.000 0.142 0.145 0.190 0.084 -0.002 **FALSE** \_\_\_\_ TRUE FALSE ZOR0006 0.148 0.151 0.196 5.651 -3.215 0.000 0.000 0.005 \_\_\_\_ TRUE TRUE Aeromonas 0.162 \_\_\_\_ Plesiomonas -0.379 -0.725 0.211 0.214 FALSE TRUE -0.346 0.252 -1.796 0.072 0.466 FALSE -3.391 -1.374 0.170 0.272 0.003 \_\_\_\_ TRUE FALSE Shewanella 0.204 -1.350 -0.065 -6.626 0.000 0.245 5.235 0.000 0.000 0.000 \_\_\_\_ TRUE FALSE 0.363 0.395 5.109 Comamonadaceae\_Genus 2.303 1.498 TRUE TRUE 5.228 0.441 0.471 0.240 Crenobacter TRUE 0.338 -10.213 Flavobacterium TRUE FALSE 0.297 0.300 1.276 0.635 -0.641 4.292 0.000 0.333 0.054 0.000 0.148 \_\_\_\_ Sutterellaceae\_Genus -1.849 -0.434 TRUE FALSE 0.400 1.415 0.431 -4.624 0.001 0.000 0.004 \_\_\_\_ Gemmobacter -0.597 -0.403 FALSE FALSE 0.294 0.193 0.330 -2.029 0.587 1.000 1.000 FALSE TRUE Acinetobacter 0.312 1.931 0.511 0.539 0.612 0.010 \_\_\_\_ Chitinibacter 0.175 0.178 TRUE TRUE 0.220 -33.107 0.000 **FALSE** -33.033 -0.390 \_\_\_\_ FALSE FALSE 0.538 0.566 1.121 Fluviicola 0.603 -1.236 0.262 0.722 0.083 0.005 -3.250 0.001 -2.286 \_\_\_\_ Cloacibacterium FALSE TRUE 0.447 -0.908 \_\_\_\_ Cerasicoccus TRUE FALSE 0.400 1.198 0.783 -0.414 2.992 -0.960 0.013 0.926 TRUE FALSE Chitinibacteraceae\_Genus 1.549 0.125 0.340 0.373 4.563 0.000 FALSE FALSE 0.488 -1.037 0.300 Pseudomonas 0.824 3.236 \_\_\_\_ FALSE FALSE Mycobacterium -0.039 -0.357 -0.318 0.395 0.426 -0.099 1.000 -0.898 -0.746 Exiguobacterium FALSE FALSE 0.430 0.460 2.049 \_\_\_\_ Phreatobacter FALSE TRUE 0.390 0.392 0.421 0.343 3.726 0.732 0.000 0.001 Rhizobiales\_Family\_Genus -0.135 0.131 FALSE FALSE 0.224 0.264 -0.605 Aurantisolimonas 0.266 1.506 0.283 0.286 FALSE TRUE 0.319 0.941 0.000 0.953 0.000 0.000 1.240 0.347 3.887 \_\_\_\_ Cellvibrio 1.553 0.286 0.289 TRUE FALSE 5.430 0.000 0.322 0.000 -4.293 \_\_\_\_ Haliscomenobacter FALSE FALSE 0.232 0.243 Dinghuibacter FALSE FALSE 0.430 0.191 -0.157 0.445 FALSE -0.348 0.460 -0.756 -0.363 FALSE FALSE 0.374 Rhodobacteraceae\_Genus 1.000 FALSE FALSE 0.083 0.274 0.277 0.310 -1.302 -0.989 Microscillaceae\_Genus 1.376 0.115 0.000 TRUE FALSE -1.261 0.294 0.297 0.330 4.675 0.388 0.000 0.698 0.000 0.000 1.000 -3.823 \_\_\_\_ Defluviimonas 0.022 -0.476 FALSE FALSE -0.498 0.312 0.315 0.347 0.069 -1.512 -1.435 1.000 1.000 \_\_\_\_ Bosea 0.277 0.033 1.000 FALSE FALSE -0.244 0.199 0.202 0.241 1.392 0.165 1.000 1.000 1.000 -1.011 1.000 1.000 FALSE \_\_\_\_ Tabrizicola 1.139 0.284 -0.855 0.279 0.282 0.315 4.085 1.010 -2.712 0.000 TRUE FALSE \_\_\_\_ 0.266 4.884 0.940 TRUE FALSE Luteimonas 1.103 0.215 -0.888 0.226 0.229 -3.342 0.000 0.347 0.001 0.000 0.955 0.003 \_\_\_\_ Nocardiaceae\_Genus 0.079 -0.239 FALSE FALSE -0.318 0.235 0.238 0.275 0.335 -1.004 FALSE -1.159 1.000 Nocardia 0.630 0.028 FALSE FALSE -0.601 0.237 0.240 0.276 2.655 -2.177 1.000

0.040 1.000

-0.622 1.000 1.000

0.249 -0.712 -0.655

0.228 -1.223 -1.960

0.252 4.617

1.000 FALSE FALSE

1.000 FALSE FALSE

TRUE FALSE

FALSE

1.000 1.000

1.000 1.000 1.000

1.000

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Longivirga -0.147 -0.137

Peptostreptococcus 0.973 0.371

lamia -0.225 -0.366

0.010 0.207 0.210

-0.602 0.211 0.214

-0.141 0.184 0.187