Summarizing heatmap FDR-values: < 0.001 = ***, < 0.01 = **, < 0.1 = *ASV351 [Eubacterium] xylanophilum group -ASV302 Roseburia -ASV727 RF39 ASV646 Anaerotruncus ASV58 Muribaculaceae ASV169 Oscillospiraceae ASV226 Desulfovibrionaceae ASV196 UBA1819 ASV65 Muribaculaceae ASV38 Muribaculaceae ASV484 Lachnoclostridium ASV223 Dorea ASV206 Lachnospiraceae ASV269 Muribaculaceae ASV324 Defluviitaleaceae UCG-011 ASV104 Prevotellaceae UCG-001 ASV440 Lachnospiraceae ASV148 Lachnospiraceae ASV523 Lachnoclostridium ASV182 Muribaculaceae ASV242 Erysipelatoclostridium ASV109 Muribaculaceae ASV109 Muribaculaceae ASV665 Anaerofustis ASV203 caecimuris ASV170 Oscillospiraceae ASV126 Muribaculaceae ASV126 Acceptida (1000) Ds ASV61 Clostridia UCG-014 ASV49 [Eubacterium] coprostanoligenes group ASV456 Clostridia UCG-014 1.0 ASV456 Clostridia UCG-014 ASV772 Butyricicoccus ASV379 Paludicola ASV211 [Eubacterium] coprostanoligenes group ASV192 GCA-900066575 ASV25 Muribaculaceae ASV377 Lachnospiraceae 0.5 Omics features 0.0 ASV375 Colidextribacter ASV569 GCA-900066575 -0.5ASV394 Enterorhabdus ASV227 Ruminococcus ASV648 Clostridia vadinBB60 group ASV504 Paludicola ASV17 Ruminococcus ASV355 Marvinbryantia -1.0ASV34 Ruminococcus Confounding status ASV157 goldsteinii ASV754 Parabacteroides ASV430 bacterium confounded ASV538 A2 ASV243 Clostridia UCG-014 ASV45 Roseburia ASV512 faecalis deconfounded ASV551 Clostridia UCG-014 ASV446 Lachnospiraceae ASV310 Clostridia UCG-014 ASV310 Clostridia UCG-014 ASV300 Clostridia UCG-014 ASV300 Clostridia UCG-014 ASV264 Clostridia UCG-014 ASV326 Gastranaerophilales ASV160 Lachnospiraceae NK4A136 group ASV190 Clostridia UCG-014 ASV40 Clostridia UCG-014 ASV468 Candidatus Saccharimonas ASV844 Clostridia UCG-014 ASV542 Clostridia UCG-014 ASV542 Clostridia UCG-014 ASV501 Streptococcus ASV339 RF39 ASV146 Clostridia UCG-014 ASV20 Ruminococcus ASV44 Roseburia ASV265 Clostridia UCG-014 ASV162 Enterorhabdus ASV162 EINBIOIRIADUS -ASV179 Clostridia UCG-014 -ASV69 [Eubacterium] coprostanoligenes group -ASV684 RF39 -ASV186 Clostridia UCG-014 -ASV142 Clostridia UCG-014 -

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