## Summarizing heatmap FDR-values: < 0.001 = \*\*\*, < 0.01 = \*\*, < 0.1 = \* ASV483 Anaerofustis -ASV226 Marvinbryantia -ASV365 A2 ASV274 Pygmaiobacter ASV208 Defluviitaleaceae UCG-011 ASV199 Ruminococcaceae ASV252 Paludicola ASV231 Christensenellaceae ASV28 [Eubacterium] coprostanoligenes group ASV583 Butyricicoccus ASV6 Ruminococcus ASV127 Frisingicoccus Ds ASV714 Lachnospiraceae UCG-001 0.5 ASV114 GCA-900066575 Omics features ASV134 Dorea 0.0 ASV86 Lachnoclostridium -0.5ASV49 Lachnospiraceae ASV158 Incertae Sedis ASV115 UBA1819 Confounding status ASV40 Anaerostipes confounded ASV19 NK4A214 group deconfounded ASV298 Candidatus Saccharimonas ASV24 Roseburia ASV690 Caldicoprobacter -ASV460 [Clostridium] methylpentosum group -ASV359 Christensenellaceae R-7 group ASV42 [Eubacterium] siraeum group ASV203 Gastranaerophilales ASV58 Oscillibacter ASV451 Muribaculaceae ASV263 Monoglobus ASV299 Lactobacillus ASV2 Lachnospiraceae NK4A136 group -CCL20 Antibiotic NR2A SCFA\_BA CCL2 TNFR1 GAT1 Learning\_index\_Rmaze SCFA\_CA Treated\_CCL

Metadata variables