**Supplemental Digital Content 1.** Comparison of the microbiota compositions of the patients with (n=18) and without (n=16) recurrent Hirschsprung-associated enterocolitis.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Taxon | p-value | model | FoldChange | FDR-p-value |
| Actinobacteria\_Actinobacteria\_Corynebacteriales\_Nocardiaceae\_Rhodococcus | 0,045 | MASS::glm.nb | 0,353 | 0,227 |
| Actinobacteria\_Coriobacteriia\_Coriobacteriales\_Coriobacteriaceae\_Asaccharobacter | 0,044 | MASS::glm.nb | 4,355 | 0,227 |
| Bacteroidetes\_Bacteroidia\_Bacteroidales\_Prevotellaceae\_Prevotella | 0,001 | MASS::glm.nb | 0,048 | 0,010 |
| Firmicutes\_Bacilli\_Lactobacillales\_Carnobacteriaceae\_Granulicatella | 0,050 | MASS::glm.nb | 2,156 | 0,227 |
| Firmicutes\_Bacilli\_Lactobacillales\_Lactobacillaceae\_Lactobacillus | 0,001 | MASS::glm.nb | 5,938 | 0,015 |
| Firmicutes\_Clostridia\_Clostridiales\_Eubacteriaceae\_Anaerofustis | 0,048 | MASS::glm.nb | 0,356 | 0,227 |
| Firmicutes\_Clostridia\_Clostridiales\_Lachnospiraceae\_Butyrivibrio | 0,003 | MASS::glm.nb | 0,215 | 0,032 |
| Firmicutes\_Clostridia\_Clostridiales\_Ruminococcaceae\_Oscillospira | 0,029 | log nlme::gls | 0,443 | 0,227 |
| Firmicutes\_Clostridia\_Clostridiales\_Ruminococcaceae\_Ruminococcus | 0,036 | nlme::gls | 0,715 | 0,227 |
| Firmicutes\_Negativicutes\_Selenomonadales\_Acidaminococcaceae\_Phascolarctobacterium | 0,047 | MASS::glm.nb | 0,239 | 0,227 |
| Proteobacteria\_Betaproteobacteria\_Burkholderiales\_Alcaligenaceae\_Parasutterella | 0,016 | MASS::glm.nb | 5,667 | 0,140 |
| Proteobacteria\_Gammaproteobacteria\_Pasteurellales\_Pasteurellaceae\_Haemophilus | 0,034 | MASS::glm.nb | 3,616 | 0,227 |
| Actinobacteria\_Actinobacteria\_Corynebacteriales\_Nocardiaceae | 0,045 | MASS::glm.nb | 0,353 | 0,227 |
| Firmicutes\_Bacilli\_Lactobacillales\_Carnobacteriaceae | 0,050 | MASS::glm.nb | 2,156 | 0,227 |
| Firmicutes\_Bacilli\_Lactobacillales\_Lactobacillaceae | 0,001 | MASS::glm.nb | 5,938 | 0,015 |
| Proteobacteria\_Betaproteobacteria\_Burkholderiales\_Alcaligenaceae | 0,000 | MASS::glm.nb | 7,117 | 0,002 |
| Proteobacteria\_Gammaproteobacteria\_Pasteurellales\_Pasteurellaceae | 0,034 | MASS::glm.nb | 3,616 | 0,227 |
| Actinobacteria\_Actinobacteria\_Corynebacteriales | 0,045 | MASS::glm.nb | 0,353 | 0,227 |
| Firmicutes\_Bacilli\_Lactobacillales | 0,048 | MASS::glm.nb | 2,146 | 0,227 |
| Proteobacteria\_Betaproteobacteria\_Burkholderiales | 0,000 | MASS::glm.nb | 5,954 | 0,001 |
| Proteobacteria\_Gammaproteobacteria\_Pasteurellales | 0,034 | MASS::glm.nb | 3,616 | 0,227 |
| Firmicutes\_Bacilli | 0,036 | MASS::glm.nb | 2,150 | 0,227 |
| Proteobacteria\_Betaproteobacteria | 0,000 | MASS::glm.nb | 5,988 | 0,001 |