Table S5a**:** Ileum genera altered by diet in growing pigs provided inulin.1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Taxonomy2* | | | Inu Relative to Con | |
| Phylum | Family | Genus | Fold Difference3 | *P*4 |
| Firmicutes | Turicibacteraceae | Turicibacter | -3.70 | ≤0.01 |
| Firmicutes | Peptostreptococcaceae |  | -1.91 | ≤0.01 |
| Firmicutes | Streptococcaceae | Streptococcus | 2.33 | ≤0.01 |
| Firmicutes | Veillonellaceae | Veillonella | 4.29 | ≤0.01 |
| Proteobacteria | Enterobacteriaceae | Escherichia\_Shigella | 5.08 | ≤0.01 |
| Firmicutes | Gemella | Gemella | 7.23 | ≤0.01 |

1 Pairwise comparisons of diet group using Negative Binomial Wald Test. Empty data cells represent non-significant data.

2 Taxonomy assignments based on Silva Database. Empty cells indicate sequences that cannot be confidently assigned at a given taxonomic level.

3 Log2 fold differences.

4 Benjamini and Hochberg FDR correction.

Table S5b**:** Cecum genera altered by diet in growing pigs provided inulin.1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Taxonomy2* | | | Inu Relative to Con | |
| Phylum | Family | Genus | Fold Difference3 | *P*4 |
| Firmicutes | Lachnospiraceae | Shuttleworthia | -5.11 | ≤0.01 |
| Firmicutes | Erysipelotrichaceae | Turicibacter | -4.08 | ≤0.01 |
| Candidatus Saccharibacteria |  | Candidatus\_Saccharimonas | -3.19 | ≤0.05 |
| Firmicutes | Lachnospiraceae | Lachnospira | -3.06 | ≤0.01 |
| Firmicutes | Ruminococcaceae | Anaerotruncus | -2.64 | ≤0.05 |
| Firmicutes | Erysipelotrichaceae | Catenibacterium | -2.11 | ≤0.01 |
| Firmicutes | Ruminococcaceae |  | -2.23 | ≤0.05 |
| Firmicutes | Erysipelotrichaceae |  | -1.97 | ≤0.05 |
| Firmicutes | Ruminococcaceae |  | 2.20 | ≤0.01 |
| Firmicutes | Lachnospiraceae | Lachnospiraceae\_incertae\_sedis | 2.31 | ≤0.05 |
| Bacteroidetes | Prevotellaceae | Prevotella | 3.60 | ≤0.01 |
| Firmicutes | Ruminococcaceae | Faecalibacterium | 4.07 | ≤0.01 |
| Firmicutes | Veillonellaceae | Megasphaera | 4.21 | ≤0.01 |
| Proteobacteria | Enterobacteriaceae | Escherichia\_Shigella | 4.56 | ≤0.01 |
| Firmicutes | Veillonellaceae | Dialister | 5.15 | ≤0.01 |
| Firmicutes | Clostridiaceae | Clostridium\_sensu\_stricto\_1 | 5.25 | ≤0.01 |
| Proteobacteria | Succinivibrionaceae | Succinivibrio | 5.35 | ≤0.01 |

1 Pairwise comparisons of diet group using Negative Binomial Wald Test. Empty data cells represent non-significant data.

2 Taxonomy assignments based on Silva Database. Empty cells indicate sequences that cannot be confidently assigned at a given taxonomic level.

3 Log2 fold differences.

4 Benjamini and Hochberg FDR correction.

Table S5c**:** Colon genera altered by diet in growing pigs provided inulin.1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Taxonomy2* | | | Inu Relative to Con | |
| Phylum | Family | Genus | Fold Difference3 | *P*4 |
| Proteobacteria | Chromobacteriaceae | Leeia | -7.53 | ≤0.01 |
| Firmicutes | Selenomonadaceae | Anaerovibrio | -5.76 | ≤0.01 |
| Firmicutes | Acidaminococcaceae | Phascolarctobacterium | -3.85 | ≤0.05 |
| Firmicutes | Lachnospiraceae | Lachnospira | -3.45 | ≤0.01 |
| Firmicutes | Ruminococcaceae | Ruminococcus | -3.25 | ≤0.05 |
| Firmicutes | Intestinimonas |  | -2.07 | ≤0.01 |
| Firmicutes | Erysipelotrichaceae | Turicibacter | -1.20 | ≤0.05 |
| Firmicutes | Lachnospiraceae | Dorea | 1.41 | ≤0.05 |
| Firmicutes | Lachnospiraceae | Lachnospiraceae\_incertae\_sedis | 1.41 | ≤0.01 |
| Firmicutes | Ruminococcaceae | Faecalibacterium | 1.51 | ≤0.05 |
| Firmicutes | Ruminococcaceae | Subdoligranulum | 1.63 | ≤0.05 |
| Bacteroidetes | Lachnospiraceae | Blautia | 2.56 | ≤0.01 |
| Firmicutes | Peptococcaceae | Peptococcus | 3.32 | ≤0.01 |
| Firmicutes | Selenomonadaceae | Mitsuokella | 4.33 | ≤0.01 |
| Proteobacteria | Lachnospiraceae | Butyrivibrio | 4.61 | ≤0.05 |
| Firmicutes | Veillonellaceae | Dialister | 5.15 | ≤0.01 |
| Firmicutes | Erysipelotrichaceae | Catenibacterium | 7.81 | ≤0.01 |
| Proteobacteria | Lachnospiraceae | Syntrophococcus | 8.52 | ≤0.01 |

1 Pairwise comparisons of diet group using Negative Binomial Wald Test. Empty data cells represent non-significant data.

2 Taxonomy assignments based on Silva Database. Empty cells indicate sequences that cannot be confidently assigned at a given taxonomic level.

3 Log2 fold differences.

4 Benjamini and Hochberg FDR correction.