S4 Table. Differentially abundant genera between *Salmonella* shedders and non-shedders at each time point

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 weeks |   | 13 weeks |   | 16 weeks |   |  |  |  |  |
| Genus | P value | Genus | P value | Genus | P value |  |  |  |  |
| Acidaminococcus  | 1.32E-04 | Adlercreutzia  | 2.83E-05 | Acetivibrio  | 2.66E-06 |  |  |  |  |
| Allisonella  | 1.17E-06 | Allobaculum  | 8.29E-12 | Allobaculum  | 1.59E-05 |  |  |  |  |
| Anaerobacter  | 1.97E-04 | Anaerobacter  | 9.63E-41 | Anaerococcus  | 7.44E-09 |  |  |  |  |
| Anaerofilum  | 3.10E-12 | Anaerovibrio  | 1.77E-20 | Anaerofilum  | 0.003572613 |  |  |  |  |
| Bacteroides  | 1.07E-20 | Bifidobacterium  | 2.08E-07 | Anaerosporobacter  | 0.000244058 |  |  |  |  |
| Barnesiella  | 3.40E-36 | Butyricicoccus  | 3.32E-21 | Anaerovibrio  | 5.89E-05 |  |  |  |  |
| Bifidobacterium  | 2.60E-08 | Catenibacterium  | 1.66E-13 | Bacteroides  | 7.67E-24 |  |  |  |  |
| Campylobacter  | 1.30E-05 | Coprococcus  | 6.96E-06 | Barnesiella  | 2.82E-11 |  |  |  |  |
| Dialister  | 3.19E-22 | Dialister  | 2.51E-06 | Bifidobacterium  | 4.65E-19 |  |  |  |  |
| Dorea  | 5.98E-06 | Dorea  | 2.32E-06 | Blautia  | 2.02E-113 |  |  |  |  |
| Enterococcus  | 1.40E-06 | Erysipelothrix  | 4.92E-06 | Butyricicoccus  | 3.76E-52 |  |  |  |  |
| Erysipelothrix  | 4.24E-09 | Ethanoligenens  | 2.97E-08 | Catenibacterium  | 1.94E-09 |  |  |  |  |
| Escherichia/Shigella  | 8.50E-13 | Faecalibacterium  | 0.003030158 | Desulfovibrio  | 8.21E-21 |  |  |  |  |
| Fastidiosipila  | 3.76E-06 | Fastidiosipila  | 2.77E-05 | Dialister  | 1.49E-83 |  |  |  |  |
| Hallella  | 4.43E-69 | Geopsychrobacter  | 2.03E-08 | Eubacterium  | 5.83E-09 |  |  |  |  |
| Lactobacillus  | 8.68E-64 | Hydrogenoanaerobacterium  | 0.000976317 | Faecalibacterium  | 9.84E-117 |  |  |  |  |
| Megasphaera  | 4.15E-04 | Lactobacillus  | 3.39E-137 | Fastidiosipila  | 6.62E-20 |  |  |  |  |
| Oscillibacter  | 5.27E-38 | Megasphaera  | 3.74E-09 | Fibrobacter  | 0.001488944 |  |  |  |  |
| Prevotella  | 1.46E-208 | Prevotella  | 2.80E-08 | Hydrogenoanaerobacterium  | 0.004423505 |  |  |  |  |
| Pseudobutyrivibrio   | 1.71E-62 | Pseudobutyrivibrio  | 3.32E-138 | Megasphaera  | 7.11E-230 |  |  |  |  |
| Roseburia  | 1.00E-20 | Roseburia  | 2.09E-06 | Mitsuokella  | 0.00463386 |  |  |  |  |
| Sharpea  | 8.33E-06 | Selenomonas  | 1.12E-12 | Oscillibacter  | 4.99E-37 |  |  |  |  |
| Sporobacter  | 1.95E-03 | Spirochaeta  | 1.49E-08 | Peptococcus  | 0.003954287 |  |  |  |  |
| Succinivibrio  | 4.05E-07 | Sporacetigenium  | 0.000251638 | Pseudobutyrivibrio  | 4.92E-05 |  |  |  |  |
| Treponema  | 1.82E-08 | Succinivibrio  | 5.06E-18 | Ruminococcus  | 4.04E-07 |  |  |  |  |
|  |  | Sutterella  | 9.09E-25 | Sarcina  | 0.009036205 |  |  |  |  |
|  |  | Turicibacter  | 1.52E-05 | Spirochaeta  | 5.07E-05 |  |  |  |  |
|  |  | Veillonella  | 1.43E-10 | Sporacetigenium  | 4.50E-05 |  |  |  |  |
|  |  | Xylanibacter  | 0.000488134 | Subdoligranulum  | 0.000170081 |  |  |  |  |
|  |  |  | 0.0012784 | Succinivibrio  | 0.000417871 |  |  |  |  |
|  |  |  |  | Sutterella  | 8.09E-13 |  |  |  |  |
|  |  |  |  | Tannerella  | 6.71E-05 |  |  |  |  |
|  |  |  |  | Treponema  | 9.25E-43 |  |  |  |  |
|  |  |  |  | Turicibacter  | 2.81E-10 |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |
| 19 weeks |   | 22 weeks |   |  |  |  |  |  |  |
| Genus | P value | Genus | P value |  |  |  |  |  |  |
| Anaerobacter  | 2.84E-59 | Acetanaerobacterium  | 6.69E-16 |  |  |  |  |  |  |
| Anaerofilum  | 8.65E-06 | Acetivibrio  | 1.94E-09 |  |  |  |  |  |  |
| Anaeroplasma  | 0.000244013 | Acidaminococcus  | 0.003905878 |  |  |  |  |  |  |
| Anaerovibrio  | 0.000312937 | Acinetobacter  | 0.007811922 |  |  |  |  |  |  |
| Atopobium  | 0.001512296 | Adlercreutzia  | 2.07E-05 |  |  |  |  |  |  |
| Bacteroides  | 1.03E-05 | Aerococcus  | 4.87E-06 |  |  |  |  |  |  |
| Barnesiella  | 9.71E-24 | Akkermansia  | 2.67E-06 |  |  |  |  |  |  |
| Blautia  | 1.23E-14 | Allisonella  | 7.22E-07 |  |  |  |  |  |  |
| Campylobacter  | 0.000121996 | Allobaculum  | 3.69E-05 |  |  |  |  |  |  |
| Coprococcus  | 0.000493979 | Alysiella  | 0.003905878 |  |  |  |  |  |  |
| Desulfovibrio  | 0.000315539 | Anaerobacter  | 8.19E-223 |  |  |  |  |  |  |
| Dialister  | 3.68E-52 | Anaerobiospirillum  | 0.003905878 |  |  |  |  |  |  |
| Faecalibacterium  | 1.12E-23 | Anaerofilum  | 1.10E-15 |  |  |  |  |  |  |
| Fastidiosipila  | 1.71E-18 | Anaerosporobacter  | 6.27E-50 |  |  |  |  |  |  |
| Hallella  | 7.83E-15 | Anaerotruncus  | 0.000820971 |  |  |  |  |  |  |
| Lactobacillus  | 1.86E-134 | Anaerovibrio  | 1.27E-18 |  |  |  |  |  |  |
| Megasphaera  | 5.87E-120 | Bacteroides  | 1.36E-28 |  |  |  |  |  |  |
| Mitsuokella  | 1.67E-14 | Barnesiella  | 7.14E-08 |  |  |  |  |  |  |
| Oscillibacter  | 2.58E-05 | Bifidobacterium  | 1.13E-53 |  |  |  |  |  |  |
| Parasporobacterium  | 9.99E-23 | Blautia  | 7.04E-266 |  |  |  |  |  |  |
| Prevotella  | 2.15E-15 | Butyricicoccus  | 7.05E-57 |  |  |  |  |  |  |
| Pseudobutyrivibrio  | 2.62E-57 | Butyrivibrio  | 8.33E-121 |  |  |  |  |  |  |
| Roseburia  | 4.19E-75 | Campylobacter  | 4.05E-07 |  |  |  |  |  |  |
| Spirochaeta  | 3.81E-06 | Catenibacterium  | 2.47E-06 |  |  |  |  |  |  |
| Sporacetigenium  | 2.69E-28 | Clostridium  | 4.24E-93 |  |  |  |  |  |  |
| Streptococcus  | 2.24E-205 | Coprococcus  | 0.00E+00 |   |   |   |   | Xylanibacter  | 1.61E-17 |
| Subdoligranulum  | 7.30E-08 | Corynebacterium  | 0.000402321 |  |  |  |  |  |  |
| Tannerella  | 5.83E-15 | Desulfovibrio  | 5.46E-20 |  |  |  |  |  |  |
| Treponema  | 1.31E-88 | Dialister  | 1.36E-171 |  |  |  |  |  |  |
| Xylanibacter  | 2.54E-18 | Dorea  | 4.15E-27 |  |  |  |  |  |  |
|  |  | Eggerthella  | 0.006984871 |  |  |  |  |  |  |
|  |  | Erysipelothrix  | 3.88E-56 |  |  |  |  |  |  |
|  |  | Escherichia/Shigella  | 2.50E-10 |  |  |  |  |  |  |
|  |  | Ethanoligenens  | 5.48E-13 |  |  |  |  |  |  |
|  |  | Eubacterium  | 3.22E-05 |  |  |  |  |  |  |
|  |  | Faecalibacterium  | 1.73E-81 |  |  |  |  |  |  |
|  |  | Fastidiosipila  | 7.70E-97 |  |  |  |  |  |  |
|  |  | Gordonibacter  | 2.98E-09 |  |  |  |  |  |  |

Statistically significant at p<0.05. Arrows represent an increase or decrease in each genera compared to pigs not shedding *S. enterica*