Supplementary Table S1. Discriminatory OTUs found to be significantly different (q-value<0.05) in relative abundance in infant stool samples at 1 month based on maternal group B *Streptococcus* status, after adjusting for maternal race, prenatal antifungal use, and intrapartum antibiotics. Data are ordered by *P*-value.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **OTUa** | **Order** | **Family** | **Genus** | **Estimateb** | ***P*-value** |  |  |  |
| 4352318 | Clostridiales | *Clostridiaceae* |  | 5.15 | 8.04827E-39 |  |  |  |
| 177520 | Clostridiales | *Lachnospiraceae* | *Roseburia* | -1.7 | 5.03477E-22 |  |  |  |
| 4458576 | Clostridiales |  |  | 6.84 | 2.77067E-14 |  |  |  |
| 174840 | Clostridiales | *Lachnospiraceae* | *Roseburia* | -2.49 | 3.53506E-14 |  |  |  |
| 192711 | Clostridiales | *Lachnospiraceae* |  | -2.19 | 7.81573E-14 |  |  |  |
| 553611 | Bifidobacteriales | *Bifidobacteriaceae* | *Bifidobacterium* | -5.26 | 5.45172E-12 |  |  |  |
| New.ReferenceOTU16 |   |  |  | 1.82 | 1.29142E-11 |  |  |  |
| 4331360 | Clostridiales | *Lachnospiraceae* |  | 8.01 | 2.06485E-11 |  |  |  |
| New.ReferenceOTU1061 | Clostridiales |  |  | -4.06 | 4.68872E-11 |  |  |  |
| 125270 | Bacteroidales | *Bacteroidaceae* | *Bacteroides* | -4.78 | 6.68784E-11 |  |  |  |
| 28914 | Clostridiales | *Lachnospiraceae* | *Roseburia* | 3.98 | 2.43462E-10 |  |  |  |
| 195465 | Clostridiales | *Lachnospiraceae* |  | 2.34 | 2.81592E-10 |  |  |  |
| 269125 | Lactobacillales | *Lactobacillaceae* | *Lactobacillus* | 4.05 | 6.91232E-10 |  |  |  |
| New.CleanUp.ReferenceOTU180892 | Clostridiales | *Clostridiaceae* | *Clostridium* | 2.87 | 1.47289E-09 |  |  |  |
| New.CleanUp.ReferenceOTU54633 | Clostridiales | *[Tissierellaceae]* | *Anaerococcus* | 3.9 | 2.4302E-09 |  |  |  |
| 4442459 | Bacteroidales | *Porphyromonadaceae* | *Parabacteroides* | -6.63 | 2.54334E-09 |  |  |  |
| 181560 | Clostridiales | *Lachnospiraceae* | *Coprococcus* | 7.49 | 5.39006E-09 |  |  |  |
| New.CleanUp.ReferenceOTU44099 | Pseudomonadales | *Moraxellaceae* | *Acinetobacter* | 4.9 | 9.67744E-09 |  |  |  |
| 188008 | Clostridiales | *Lachnospiraceae* |  | -5.95 | 9.68157E-09 |  |  |  |
| 187891 | Clostridiales | *Lachnospiraceae* | *Blautia* | -2.48 | 3.04935E-08 |  |  |  |
| 192983 | Clostridiales | *Lachnospiraceae* |  | -0.76 | 3.71584E-08 |  |  |  |
| 3794053 | Clostridiales | *Lachnospiraceae* |  | 1.96 | 3.82509E-08 |  |  |  |
| 3200278 | Lactobacillales | *Lactobacillaceae* | *Lactobacillus* | 6.12 | 8.62061E-08 |  |  |  |
| 257909 | Actinomycetales | *Actinomycetaceae* | *Trueperella* | 0.28 | 1.00576E-07 |  |  |  |
| New.CleanUp.ReferenceOTU125457 | Pseudomonadales | *Pseudomonadaceae* | *Pseudomonas* | 6.8 | 1.17631E-07 |  |  |  |
| New.CleanUp.ReferenceOTU48512 | Erysipelotrichales | *Erysipelotrichaceae* |  | -3.19 | 1.43838E-07 |  |  |  |
| 420127 | Actinomycetales | *Corynebacteriaceae* | *Corynebacterium* | -3.82 | 2.19752E-07 |  |  |  |
| 170462 | Clostridiales | *Lachnospiraceae* | *[Ruminococcus]* | 5.98 | 2.49996E-07 |  |  |  |
| 2565100 | Clostridiales | *Lachnospiraceae* | *Roseburia* | 2.45 | 2.76169E-07 |  |  |  |
| 4356080 | Bacteroidales | *[Barnesiellaceae]* |  | -5.14 | 3.03573E-07 |  |  |  |
| New.ReferenceOTU1010 | Clostridiales | *Lachnospiraceae* | *Epulopiscium* | -1.74 | 3.61239E-07 |  |  |  |
| New.CleanUp.ReferenceOTU183985 | Clostridiales | *Veillonellaceae* |  | -5.29 | 4.51829E-07 |  |  |  |
| 176381 | Clostridiales | *Lachnospiraceae* | *Blautia* | 5.63 | 5.92915E-07 |  |  |  |
| 4347520 | Clostridiales | *Lachnospiraceae* |  | 9.11 | 6.44883E-07 |  |  |  |
| 336372 | Bacteroidales | *Prevotellaceae* | *Prevotella* | 3.6 | 7.28411E-07 |  |  |  |
| 191153 | Clostridiales | *Ruminococcaceae* | *Faecalibacterium* | 7.69 | 9.07019E-07 |  |  |  |
| 194297 | Clostridiales | *Ruminococcaceae* | *Ruminococcus* | 4.71 | 9.72173E-07 |  |  |  |
| 1021043 | Lactobacillales | *Streptococcaceae* | *Streptococcus* | 3.35 | 1.06654E-06 |  |  |  |
| 3327894 | Bacteroidales | *Bacteroidaceae* | *Bacteroides* | -5.35 | 1.54107E-06 |  |  |  |
| 211935 | Clostridiales | *Lachnospiraceae* |  | 2.27 | 1.84132E-06 |  |  |  |
| 167950 | Enterobacteriales | *Enterobacteriaceae* |  | 2.54 | 2.09484E-06 |  |  |  |
| New.CleanUp.ReferenceOTU133917 | Clostridiales |  |  | -4.23 | 3.64518E-06 |  |  |  |
| 693231 | Lactobacillales | *Enterococcaceae* |  | 2.53 | 4.33256E-06 |  |  |  |
| 4377715 | Clostridiales | *Lachnospiraceae* | *Epulopiscium* | 0.48 | 4.34727E-06 |  |  |  |
| 302352 | Clostridiales | *Lachnospiraceae* |  | 3.55 | 4.72793E-06 |  |  |  |
| 190320 | Clostridiales | *Lachnospiraceae* | *Roseburia* | 1.86 | 4.8034E-06 |  |  |  |
| 186389 | Clostridiales | *Lachnospiraceae* |  | -4.73 | 4.84156E-06 |  |  |  |
| 495396 | Clostridiales | *[Tissierellaceae]* | *Anaerococcus* | 1.98 | 4.85066E-06 |  |  |  |
| 4363066 | Pasteurellales | *Pasteurellaceae* | *Aggregatibacter* | -5.28 | 7.81608E-06 |  |  |  |
| 258785 | Enterobacteriales | *Enterobacteriaceae* |  | 1.6 | 1.02182E-05 |  |  |  |
| 193606 | Clostridiales | *Lachnospiraceae* |  | -1.93 | 1.08083E-05 |  |  |  |
| 703635 | Enterobacteriales | *Enterobacteriaceae* | *Citrobacter* | 3.17 | 1.28408E-05 |  |  |  |
| New.CleanUp.ReferenceOTU181831 |   |  |  | -4.51 | 1.53696E-05 |  |  |  |
| 288784 | Lactobacillales | *Lactobacillaceae* | *Lactobacillus* | -4.49 | 1.65672E-05 |  |  |  |
| 814442 | Enterobacteriales | *Enterobacteriaceae* | *Citrobacter* | 3.41 | 1.76567E-05 |  |  |  |
| 4452633 | Clostridiales | *Clostridiaceae* | *Clostridium* | 5.14 | 1.93135E-05 |  |  |  |
| New.ReferenceOTU253 | Clostridiales |  |  | -2.57 | 2.62312E-05 |  |  |  |
| 192225 | Clostridiales | *Lachnospiraceae* | *Coprococcus* | 4.83 | 2.70906E-05 |  |  |  |
| 2037235 | Bacteroidales | *Prevotellaceae* | *Prevotella* | 4.98 | 2.73499E-05 |  |  |  |
| 554163 | Enterobacteriales | *Enterobacteriaceae* |  | 4.2 | 2.95338E-05 |  |  |  |
| 186358 | Bacteroidales | *Bacteroidaceae* | *Bacteroides* | 6.82 | 3.01132E-05 |  |  |  |
| 3571896 | Clostridiales | *Clostridiaceae* |  | -1.7 | 3.8394E-05 |  |  |  |
| New.ReferenceOTU310 | Clostridiales |  |  | 4.88 | 3.87541E-05 |  |  |  |
| New.CleanUp.ReferenceOTU12296 | Clostridiales | *Lachnospiraceae* |  | -2.62 | 4.49987E-05 |  |  |  |
| 196100 | Clostridiales | *Lachnospiraceae* | *Blautia* | -3.46 | 4.5575E-05 |  |  |  |
| 190913 | Bacteroidales | *Porphyromonadaceae* | *Parabacteroides* | 3.15 | 5.07581E-05 |  |  |  |
| New.CleanUp.ReferenceOTU190161 | Bifidobacteriales | *Bifidobacteriaceae* | *Bifidobacterium* | 2.88 | 5.13467E-05 |  |  |  |
| New.CleanUp.ReferenceOTU93004 | Bacteroidales |  |  | -1.8 | 6.25715E-05 |  |  |  |
| 186263 | Clostridiales | *Lachnospiraceae* | *Roseburia* | 4 | 7.10123E-05 |  |  |  |
| 148003 | Enterobacteriales | *Enterobacteriaceae* |  | 4.79 | 7.16349E-05 |  |  |  |
| 309391 | Clostridiales | *Lachnospiraceae* | *Blautia* | -5.1 | 8.42386E-05 |  |  |  |
| 519673 |  |  |  | -5.17 | 9.12101E-05 |  |  |  |
| 3244896 | Lactobacillales | *Streptococcaceae* | *Streptococcus* | -3.72 | 9.86714E-05 |  |  |  |
| 193972 | Clostridiales | *Lachnospiraceae* |  | -4.47 | 9.99684E-05 |  |  |  |
| 301253 | Bacteroidales | *Prevotellaceae* | *Prevotella* | 2.47 | 0.00011341 |  |  |  |
| New.CleanUp.ReferenceOTU148491 |  |  |  | 1.96 | 0.000119581 |  |  |  |
| 528421 | Enterobacteriales | *Enterobacteriaceae* |  | 1.27 | 0.000131123 |  |  |  |
| New.CleanUp.ReferenceOTU159424 |  |  |  | -2.35 | 0.000136047 |  |  |  |
| New.ReferenceOTU178 | Clostridiales | *Veillonellaceae* | *Megasphaera* | 4.78 | 0.000137618 |  |  |  |
| New.ReferenceOTU4 | Bacteroidales | *Bacteroidaceae* | *Bacteroides* | 2.95 | 0.00014446 |  |  |  |
| 183169 | Clostridiales | *Lachnospiraceae* | *Blautia* | -2.38 | 0.000147868 |  |  |  |
| 174147 | Clostridiales | *Ruminococcaceae* | *Ruminococcus* | 7.94 | 0.000148156 |  |  |  |
| 4227110 | Enterobacteriales | *Enterobacteriaceae* | *Citrobacter* | 3.24 | 0.000151329 |  |  |  |
| 187702 | Clostridiales | *Lachnospiraceae* | *Blautia* | -2.42 | 0.000168831 |  |  |  |
| New.ReferenceOTU414 | Bacteroidales | *Bacteroidaceae* | *Bacteroides* | -4.63 | 0.000187578 |  |  |  |
| 235262 | Bifidobacteriales | *Bifidobacteriaceae* | *Bifidobacterium* | 3.2 | 0.000239283 |  |  |  |
| 191718 | Erysipelotrichales | *Erysipelotrichaceae* |  | -3.2 | 0.000256827 |  |  |  |
| 197072 | Bacteroidales | *Bacteroidaceae* | *Bacteroides* | -4.17 | 0.000258206 |  |  |  |
| 1147925 | Clostridiales | *Clostridiaceae* |  | 4.59 | 0.000262787 |  |  |  |
| 186687 | Clostridiales | *Lachnospiraceae* | *Coprococcus* | 3.02 | 0.000270952 |  |  |  |
| 4428313 | Lactobacillales | *Lactobacillaceae* | *Lactobacillus* | -3.37 | 0.000288178 |  |  |  |
| 233220 | Enterobacteriales | *Enterobacteriaceae* |  | 2.89 | 0.000305977 |  |  |  |
| 103166 | Enterobacteriales | *Enterobacteriaceae* | *Citrobacter* | 2.21 | 0.000320921 |  |  |  |
| 182196 | Clostridiales | *Lachnospiraceae* | *Blautia* | -1.35 | 0.000335907 |  |  |  |
| 4388775 | Clostridiales | *Veillonellaceae* | *Veillonella* | -2.17 | 0.000360118 |  |  |  |
| New.ReferenceOTU210 | Clostridiales | *Clostridiaceae* |  | 3.34 | 0.000370334 |  |  |  |
| 194089 | Clostridiales | *Lachnospiraceae* | *Blautia* | -4.62 | 0.000387927 |  |  |  |
| New.ReferenceOTU1518 | Clostridiales | *Lachnospiraceae* | *Blautia* | -4.84 | 0.000390852 |  |  |  |
| 201772 | Clostridiales |  |  | -2.18 | 0.00041861 |  |  |  |
| New.CleanUp.ReferenceOTU71772 | Actinomycetales | *Actinomycetaceae* | *Varibaculum* | -3.89 | 0.000429746 |  |  |  |
| 4329571 | Bacteroidales | *Porphyromonadaceae* | *Parabacteroides* | -4.27 | 0.000437356 |  |  |  |
| 242298 | Clostridiales | *Peptostreptococcaceae* |  | 8 | 0.000461203 |  |  |  |
| 4318671 | Clostridiales | *Veillonellaceae* | *Veillonella* | -2.24 | 0.00047075 |  |  |  |
| 3450453 | Clostridiales | *Lachnospiraceae* | *Blautia* | -3.25 | 0.000493002 |  |  |  |
| New.CleanUp.ReferenceOTU138743 | Clostridiales | *Lachnospiraceae* | *Epulopiscium* | 1.74 | 0.000513954 |  |  |  |
| 28218 | Clostridiales | *Lachnospiraceae* | *Blautia* | -2.81 | 0.000514773 |  |  |  |
| 332588 | Bacteroidales | *Bacteroidaceae* | *Bacteroides* | -4.85 | 0.000573834 |  |  |  |
| 332718 | Lactobacillales | *Streptococcaceae* | *Streptococcus* | -4.85 | 0.000579079 |  |  |  |
| New.ReferenceOTU1490 |   |  |  | -2.99 | 0.000595165 |  |  |  |
| 175650 | Clostridiales | *Lachnospiraceae* | *Roseburia* | -1.88 | 0.000643771 |  |  |  |
| 4396877 | Erysipelotrichales | *Erysipelotrichaceae* | *[Eubacterium]* | -5.21 | 0.000655503 |  |  |  |
| 192070 | Bacteroidales | *Bacteroidaceae* | *Bacteroides* | 6.74 | 0.000656471 |  |  |  |
| New.ReferenceOTU939 | Clostridiales | *Veillonellaceae* | *Veillonella* | -3.64 | 0.00066728 |  |  |  |
| 232696 | Enterobacteriales | *Enterobacteriaceae* | *Citrobacter* | 3.22 | 0.000736911 |  |  |  |
| New.ReferenceOTU885 | Coriobacteriales | *Coriobacteriaceae* | *Collinsella* | -3.04 | 0.000740663 |  |  |  |
| New.CleanUp.ReferenceOTU37268 | Clostridiales | *Clostridiaceae* | *Clostridium* | 4.44 | 0.00074726 |  |  |  |
| 194733 | Clostridiales | *Lachnospiraceae* |  | -1.23 | 0.000775232 |  |  |  |
| 4457427 | Clostridiales | *Lachnospiraceae* | *Lachnospira* | 3.04 | 0.000789537 |  |  |  |
| 552376 | Enterobacteriales | *Enterobacteriaceae* |  | 1.57 | 0.000803984 |  |  |  |
| 184037 | Clostridiales | *Lachnospiraceae* | *Coprococcus* | 2.88 | 0.000809507 |  |  |  |
| New.ReferenceOTU449 | Bacteroidales | *Bacteroidaceae* | *Bacteroides* | 4.93 | 0.00080972 |  |  |  |

aGreengenes Database V.13\_5

bParameter estimate interpreted as difference in log mean OTU abundance, comparing infants with GBS+ mothers to infants with GBS- mothers (0: no association, >0: enriched in infants with GBS+ mothers, <0: diminished in infants with GBS+ mothers)