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| **Table S3.** **Relative abundance of bacterial families in human milk-neonatal stool pairs.** |
|  | **Human milk** | **Neonatal stool** |
| **Phylum** | **Family** | **n** | **% ± SD**  | **CV** | **Range****Min-Max** | **n** | **% ± SD**  | **CV** | **Range****Min-Max** |
| Actinobacteria | Propionibacteriaceae\* | 91.0 | 7.33 ± 7.7 | 1.1 | 0.0-30.8 | 37.3 | 6.30 ± 13.2 | 2.1 | 0.0-63.4 |
| Bifidobacteriaceae\* | 28.4 | 0.73 ± 1.6 | 2.2 | 0.0-11.1 | 70.2 | 9.49 ± 20.2 | 2.1 | 0.0-87.5 |
| Bacteroidetes | Weeksellaceae | 22.4 | 2.13 ± 9.8 | 4.6 | 0.0-74.8 | 6.0 | 1.23 ± 9.3 | 7.6 | 0.0-85.2 |
| Firmicutes | Staphylococcaceae\* | 82.1 | 15.10 ± 25.4 | 1.7 | 0.2-95.6 | 28.4 | 3.80 ± 13.9 | 3.7 | 0.0-84.7 |
| Streptococcaceae | 58.2 | 3.73 ± 10.4 | 2.8 | 0.0-79.0 | 38.8 | 2.72 ± 7.9 | 2.9 | 0.0-54.7 |
| Lachnospiraceae | 61.2 | 2.03 ± 6.1 | 3.0 | 0.0-49.3 | 41.8 | 2.35 ± 4.2 | 1.8 | 0.0-18.4 |
| Ruminococcaceae | 44.8 | 1.14 ± 3.5 | 3.1 | 0.0-28.3 | 3.0 | 1.46 ± 3.0 | 2.1 | 0.0-15.4 |
| Clostridiaceae\* | 31.3 | 0.64 ± 1.0 | 1.6 | 0.0- 4.3 | 61.2 | 15.5 ± 29.9 | 7.9 | 0.1-99.6 |
| Proteobacteria | Sphingomonadaceae\* | 88.1 | 13.2 ± 14.4 | 1.1 | 0.0-51.2 | 35.8 | 2.33 ± 4.0 | 1.7 | 0.0-15.4 |
| Pseudomonadaceae\* | 71.6 | 9.64 ± 18.6 | 1.9 | 0.1-73.6 | 77.6 | 24.5 ± 30.5 | 1.2 | 0.0-95.9 |
| Rhodobacteraceae\* | 61.2 | 9.16 ± 20.7 | 2.3 | 0.0-82.2 | 28.4 | 0.42 ± 0.84 | 2.0 | 0.0-3.9 |
| Bradyrhizobiaceae\* | 68.7 | 6.74 ± 8.7 | 1.3 | 0.0-30.0 | 31.3 | 2.05 ± 5.2 | 2.5 | 0.0-32.0 |
| Phyllobacteriaceae\* | 59.7 | 3.35 ± 10.1 | 3.0 | 0.0-73.0 | 16.4 | 0.37 ± 1.1 | 3.0 | 0.0-7.4 |
| Enterobacteriaceae\* | 44.8 | 1.61 ± 3.7 | 2.3 | 0.0-20.2 | 70.2 | 4.05 ± 9.1 | 2.2 | 0.0-13.7 |
| n, % of number of samples where taxa has a frequency > 0.5; %, percentage of relative abundance of each taxon; SD, standard deviation; CV, coefficient of variation; Range, denotes the minimum and maximum values in the relative abundance for each taxon. \*Comparison between human milk and neonatal stool using nonparametric t-test, *p*<0.005. Data were calculated using SPSS v23. |