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| **Table S4.** **Linear discriminant analysis (LDA) effect size (LEfSe) analysis per groups.** |
| **Group** | **Taxa** | **LDA score** | ***p*-value** | ***q*-value\*** |
| Human milk | *g*\_*Staphylococcus* | 4.8401 | 7.80E-11 | 2.06E-08 |
| *g\_Kaistobacter* | 4.6520 | 2.70E-11 | 1.27E-08 |
| *g\_Paracoccus* | 4.6141 | 1.39-09 | 1.84E-07 |
| *g\_Pseudomonas* | 4.5569 | 1.30E-11 | 1.27E-08 |
| *g\_Bradyrhizobium* | 4.2760 | 1.05E-09 | 1.58E-07 |
| f\_Phyllobacteriaceae | 4.1827 | 2.83E-10 | 4.99E-08 |
| *g\_Methylobacterium* | 4.0943 | 2.53E-10 | 4.99E-08 |
| *g\_Acinetobacter* | 3.9678 | 3.74E-07 | 3.60E-05 |
| *g\_Propionibacterium* | 3.9547 | 5.24E-06 | 3.70E-04 |
| *g\_Corynebacterium* | 3.7748 | 5.32E-08 | 5.63E-06 |
| o\_Streptophyta | 3.7489 | 4.97E-07 | 4.04E-05 |
| f\_Sphingomonadaceae | 3.6330 | 3.60E-11 | 1.27E-08 |
| *g\_Microbacterium* | 3.5203 | 2.18E-08 | 2.56E-06 |
| f\_Gemellaceae | 3.5193 | 4.29E-07 | 3.78E-05 |
| Neonatal stool | f\_Pseudomonadaceae | 5.0538 | 1.74E-06 | 1.31E-04 |
| *g\_Bifidobacterium* | 4.5921 | 1.26E-05 | 8.30E-04 |
| *g\_Clostridium* | 4.5867 | 0.0002 | 8.27E-03 |
| *g\_Bacteroides* | 4.5855 | 7.75E-05 | 4.44E-03 |
| f\_Clostridiaceae | 4.3524 | 4.62E-05 | 2.87E-03 |
| f\_Enterobacteriaceae | 3.9386 | 7.99E-05 | 4.44E-03 |
| The threshold on the logarithmic LDA score was set to 3.5. *p* and *q* values < 0.05 were considered statistically significant. \**p*-value was adjusted with Benjamini-Hochberg method and generated FDR value (*q*-value). The name of each taxon level appears in abbreviation before its taxon. “f”, family; “g”, genus. “LDA” Linear discriminant analysis. |