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| **Table S6. Comparison of alpha diversity indexes between delivery modes in human milk and neonatal stool samples.** |  |
| Group | Index | Vaginal | C-section | *p-*value | *q-*value | Effect Size |
|  |  | n=32 | n=14 |  |  |  |
| Human milk (n=46) | Observed | 408.24 ± 156.21 |  402.05 ± 152.73 |  0.152 |  1.000 | 0.040 |
| Chao1 | 700.58 ± 226.14 |  690.92 ± 221.44 |  0.252 |  1.000 | 0.043 |
| Shannon |  2.81 ± 0.95 |  2.76 ± 0.94 |  0.127 |  1.000 | 0.053 |
| Simpson |  0.75 (± 0.19) |  0.76 ± 0.18 |  0.086 |  1.000 | 0.053 |
|  |  | n=41 | n=19 |  |  |  |
| Neonatal stool (n=60) | Observed | 380.37 (± 245.37) |  659.29 (± 350.28) |  0.003 |  0.180 | 0.071 |
| Chao1 | 649.14 (± 397.60) | 1098.72 (± 566.14) |  0.006 |  0.180 | 0.067 |
| Shannon |  1.97 (± 1.10) |  2.73 ± 1.48 |  0.046 |  0.920 | 0.086 |
| Simpson |  0.64 (± 0.25) |  0.64 ± 0.25 |  0.082 |  1.000 | 0.123 |
| Values are mean ± SD, *p*-value were calculated by Mann Whitney U-test. *p-*value was corrected by Benjamini-Hochberg method and generated FDR value (*q-*value). *p* < 0.05 and q < 0.05 are considered statistically significant. Effect size was calculated using Hedges’ *g*. |