**SUPPLEMENTARY DATA**

**TABLE S1** Linear regression of infant-mother beta diversities grouped by type of feed

|  |  |  |  |
| --- | --- | --- | --- |
| Infant age (months) | Infant samples (n) | | Breastfed vs. formula-fed significance  (p-value) |
| Breastfed | Formula-fed |
| 0.5 | 25 | 2 | 0.32 |
| 2 | 29 | 7 | 0.52 |
| 4 | 23 | 10 | 0.47 |
| 6 | 11 | 6 | 0.14 |

Breastfed: slope = 0.0067 ± 0.0058, p = 0.25; y-intercept = 0.39 ± 0.020, p < 2×10-16

Formula-fed: slope = -0.015 ± 0.010, p = 0.17; y-intercept = 0.43 ± 0.048, p = 8×10-9

**TABLE S2** Linear regression of infant-mother beta diversities grouped by mode of delivery

|  |  |  |  |
| --- | --- | --- | --- |
| Infant age (months) | Infant samples (n) | | C-section vs. vaginal significance  (p-value) |
| C-section | Vaginal |
| 0.5 | 11 | 31 | 0.34 |
| 2 | 11 | 34 | 0.61 |
| 4 | 14 | 23 | 0.95 |
| 6 | 4 | 15 | 0.78 |

C-section: slope = -0.0018 ± 0.012, p = 0.88; y-intercept = 0.39 ± 0.042, p = 1.7×10-11

Vaginal: slope = 0.0077 ± 0.0050, p = 0.13; y-intercept = 0.37 ± 0.018, p < 2×10-16

**Supplementary Text:**

All the codes for data analyses have been submitted to GitHub and are publicly accessible at https://github.com/nabmkhan/InfantGutPaper2021