**Supplemental Table 1** Spearman correlation coefficients for the change in log percentage of fecal bifidobacteria from sample one to sample two with three outcomes

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| 1. Percentage of individual HMOs in milk sample two
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| HMO | HMO group | Spearman’s rho | P value |
| LNH | Undecorated | 0.42 | 0.02 |
| TFLNH | Fucosylated | -0.39 | 0.04 |
| 5130b | Fucosylated | 0.39 | 0.04 |
| S-LNH | Sialylated | 0.42 | 0.02 |
| 4100a | Fucosylated | 0.46 | 0.01 |
| 1. Ratio of fecal HMOs to milk HMOs in sample two
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| HMO | HMO group | Spearman’s rho | P value |
| IFLNH I | Fucosylated | 0.40 | 0.04 |
| 1. Ratio of urine HMOs to milk HMOs in sample two
 |
| HMO | HMO group | Spearman’s rho | P value |
| IFLNH III | Fucosylated | 0.46 | 0.01 |