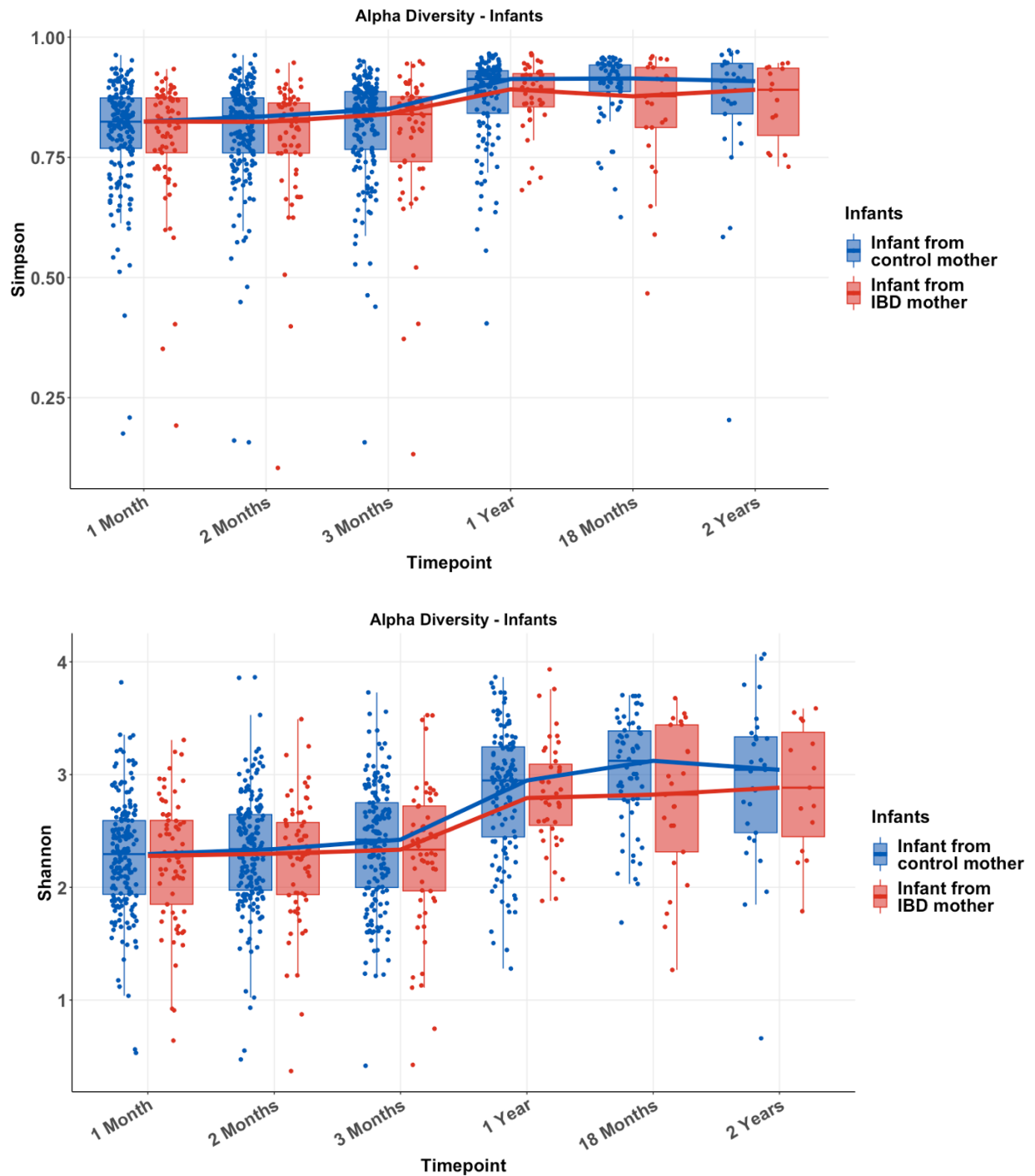


SUPPLEMENTARY FIGURES

This appendix provides readers with additional figures.

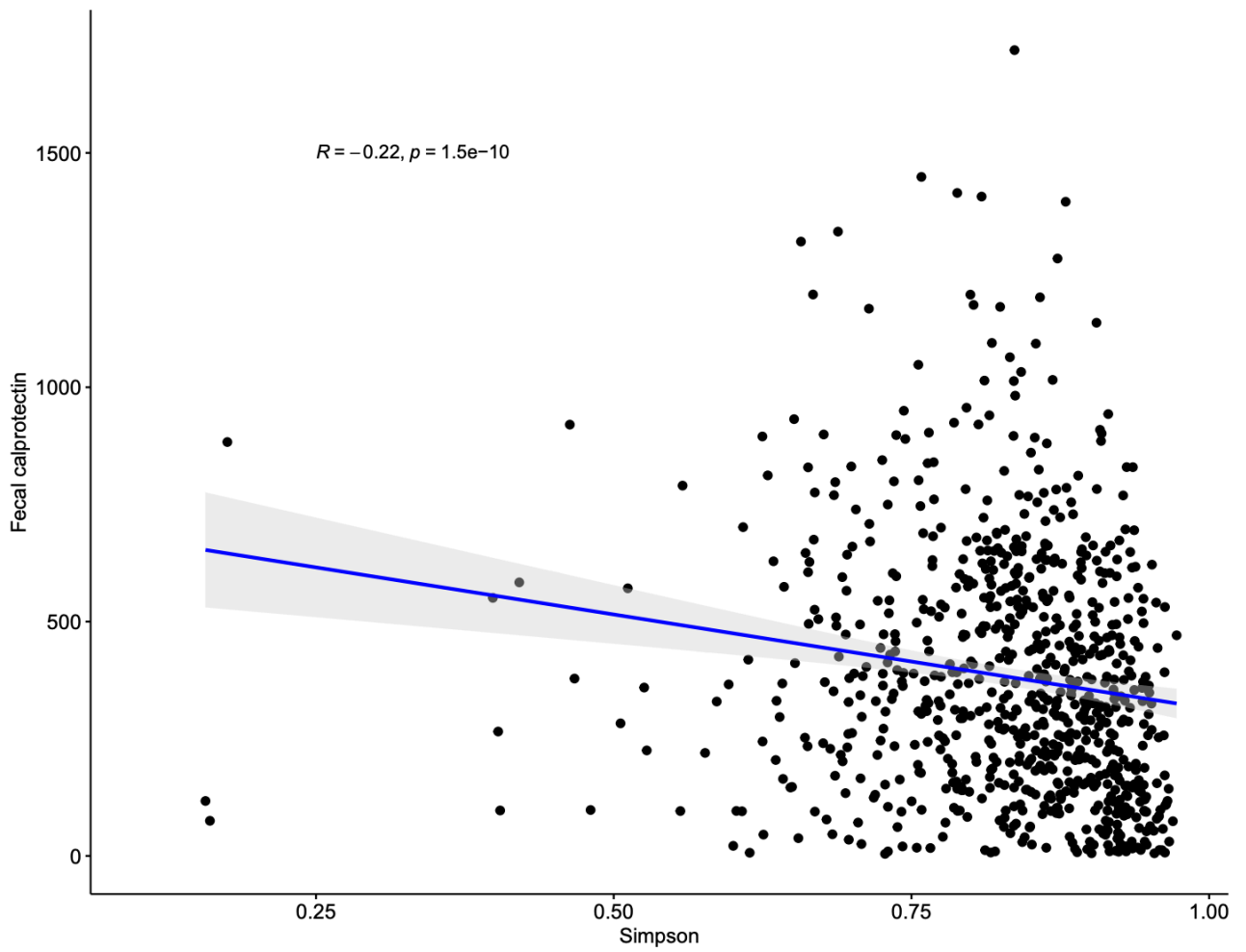
Supplement to: **“Influence of Early Life Factors, including Breastmilk Composition, on the Microbiome of Infants Born to Mothers with and without Inflammatory Bowel Disease “**

Supplementary Figure S1



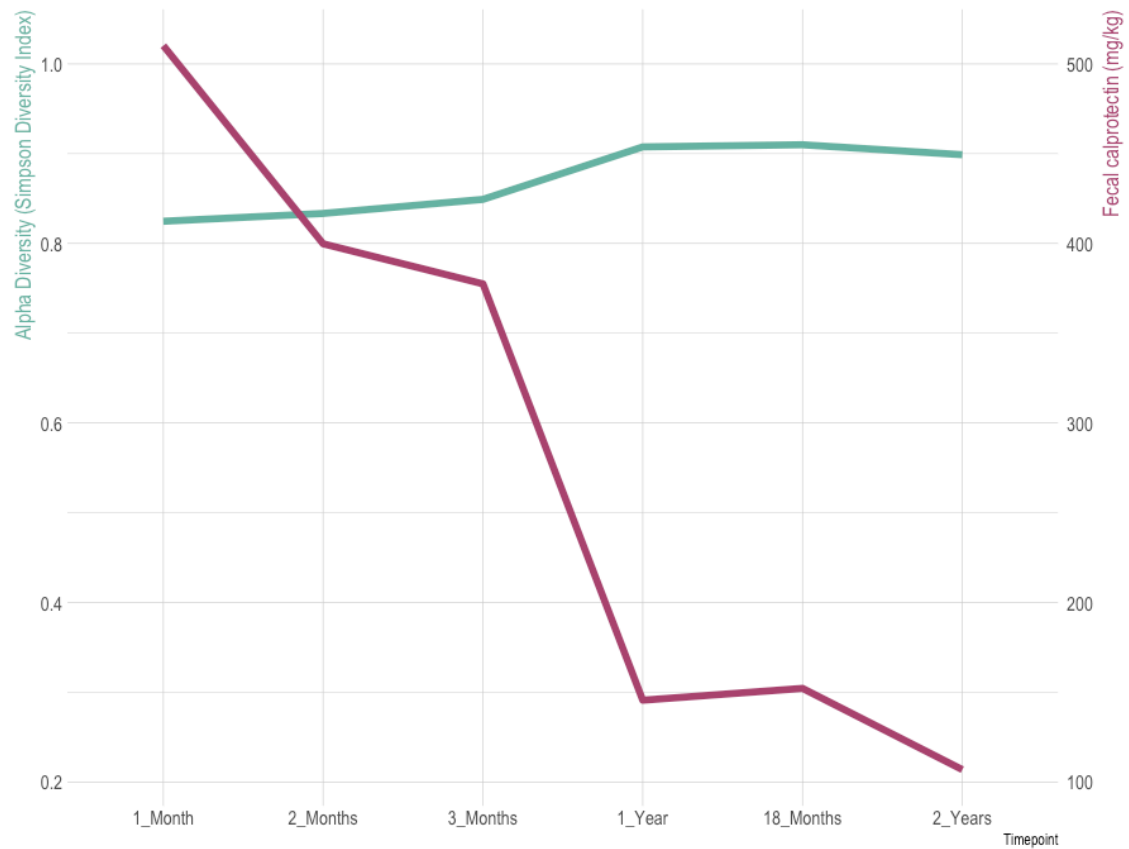
Supplementary Figure S1– Alpha-diversity (measured using the Simpson and Shannon Index) at each timepoint and by maternal IBD status

Supplementary Figure S2



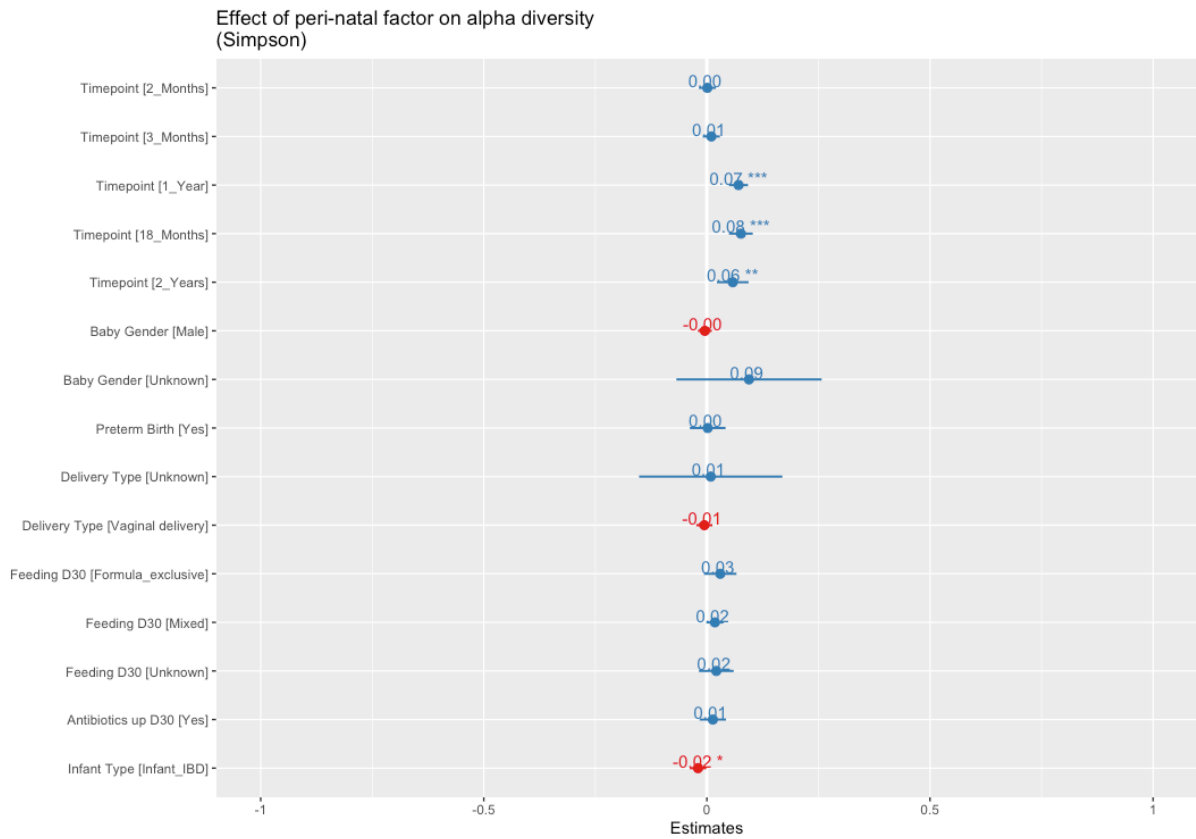
Supplementary Figure S2– Correlation between bacterial diversity (measured using the Simpson Index) and fecal calprotectin

Supplementary Figure S3



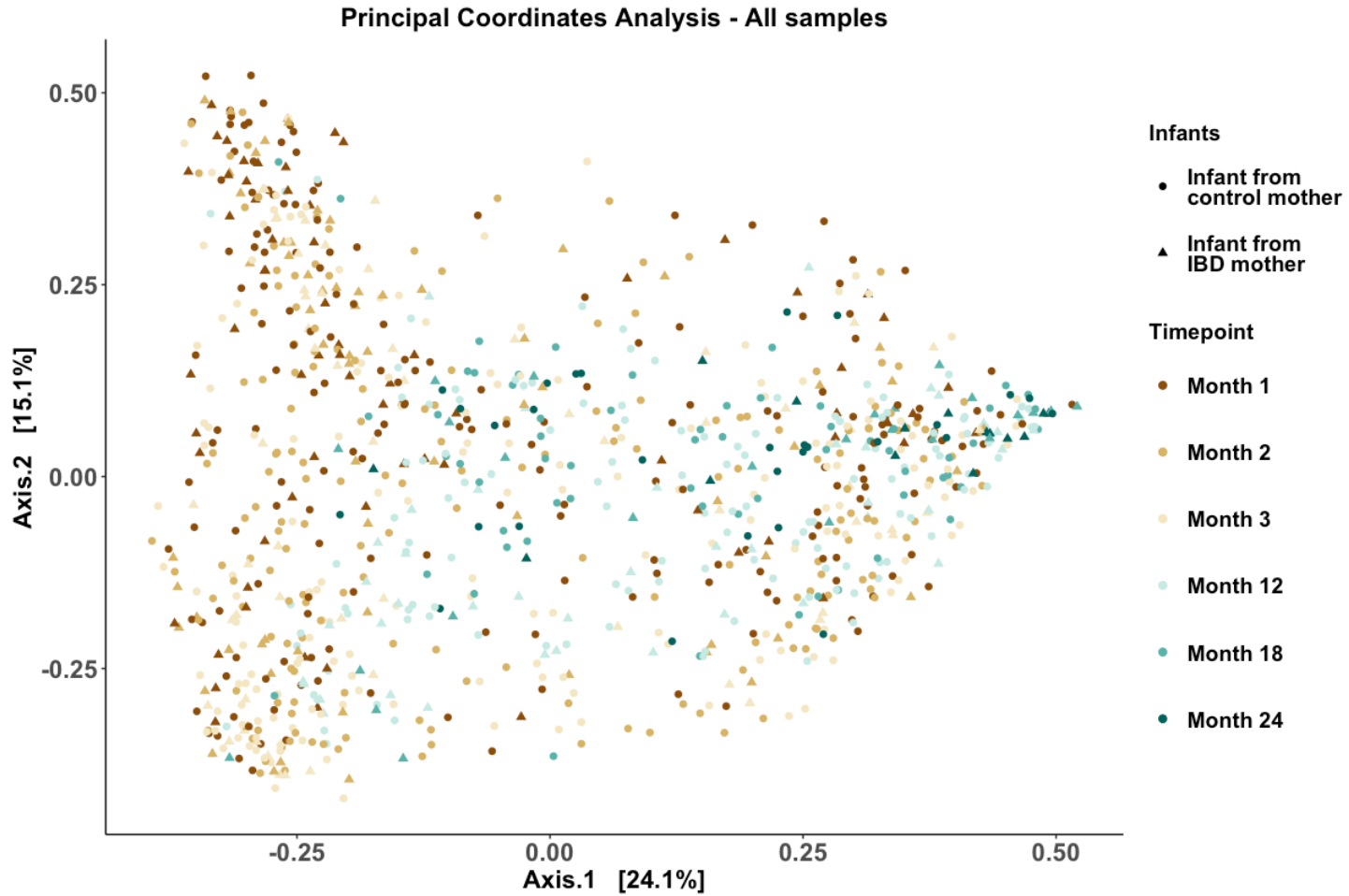
Supplementary Figure S3– Evolution of bacterial alpha-diversity (measured using the Simpson Index) and fecal calprotectin over time

Supplementary Figure S4



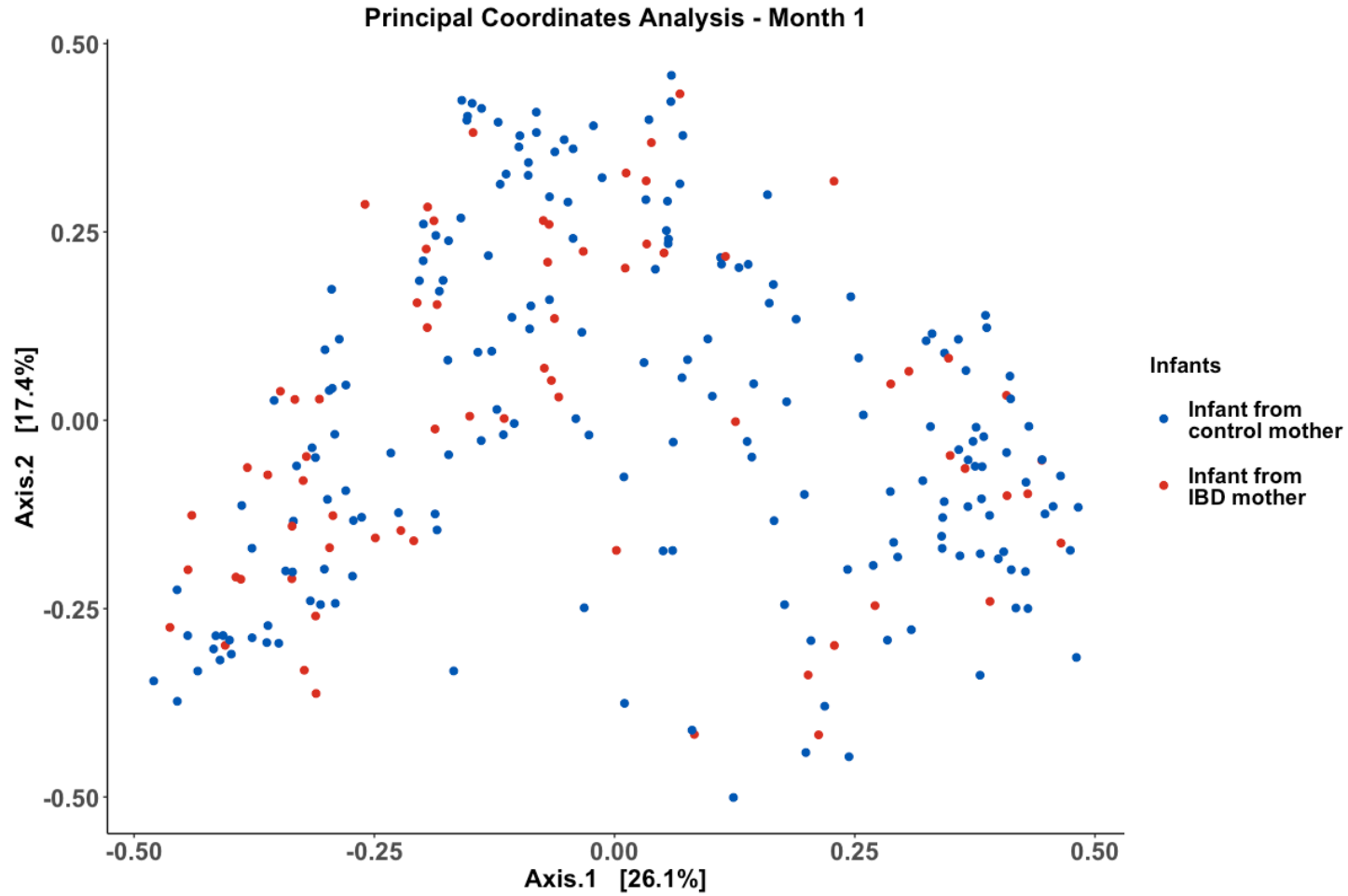
Supplementary Figure S4– Factors explaining the variation of alpha diversity. Estimated from linear mixed model. * $p < 0.05$; ** $p = 0.001$; *** $p < 0.001$

Supplementary Figure S5



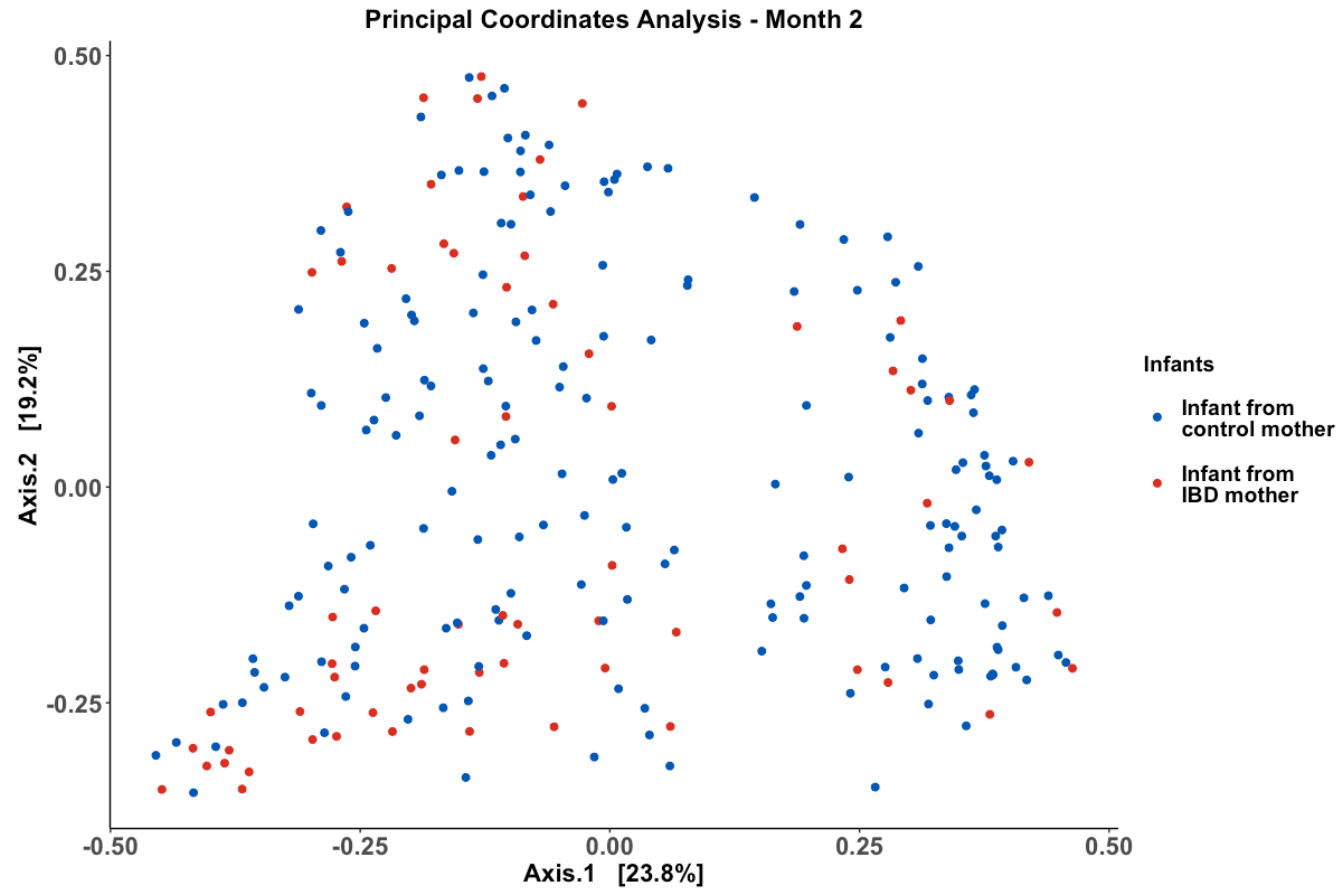
Supplementary Figure S5- Principal coordinates analysis including all samples.

Supplementary Figure S6



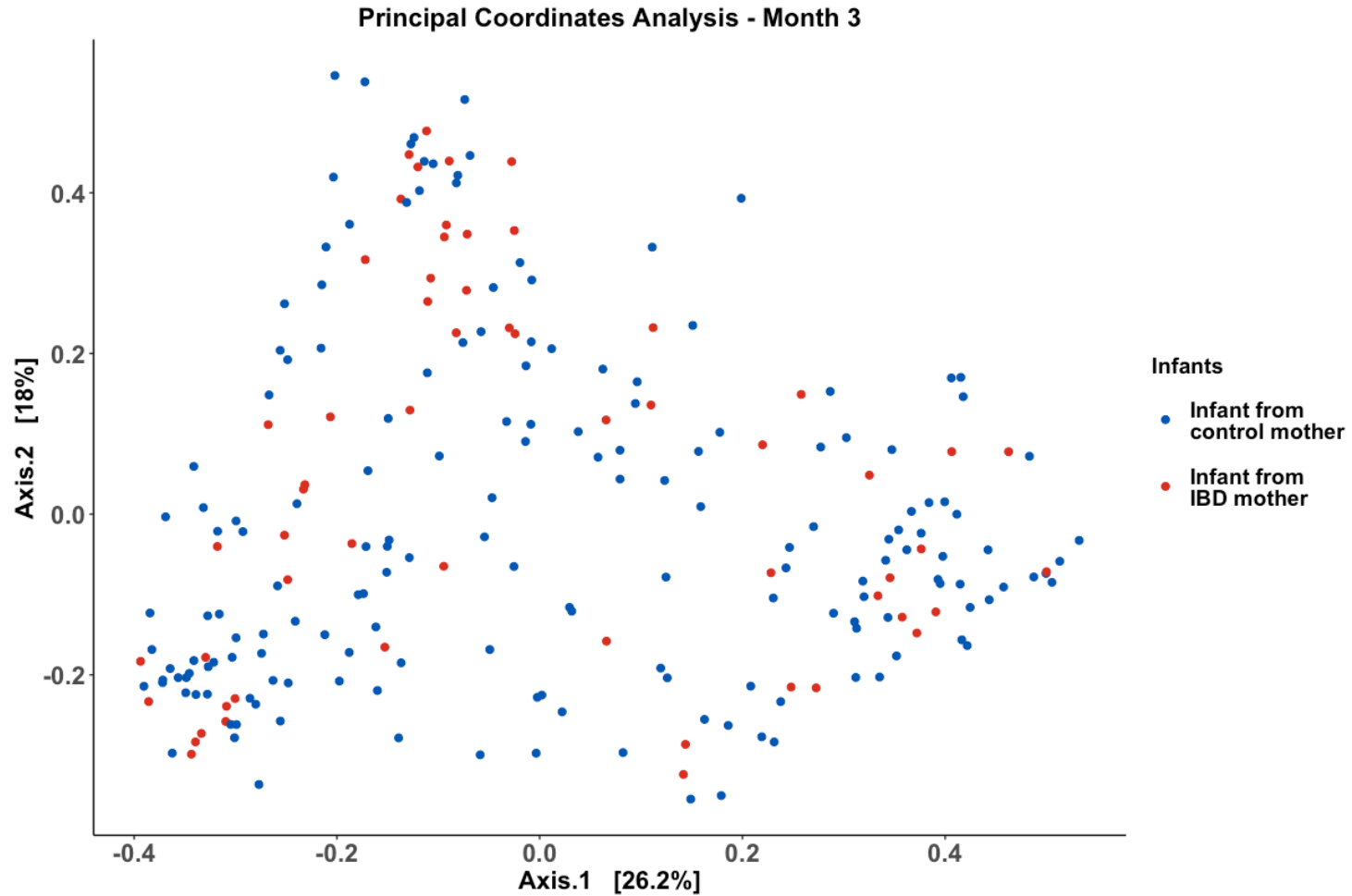
Supplementary Figure S6- Principal coordinates analysis including Month 1 samples.

Supplementary Figure S7



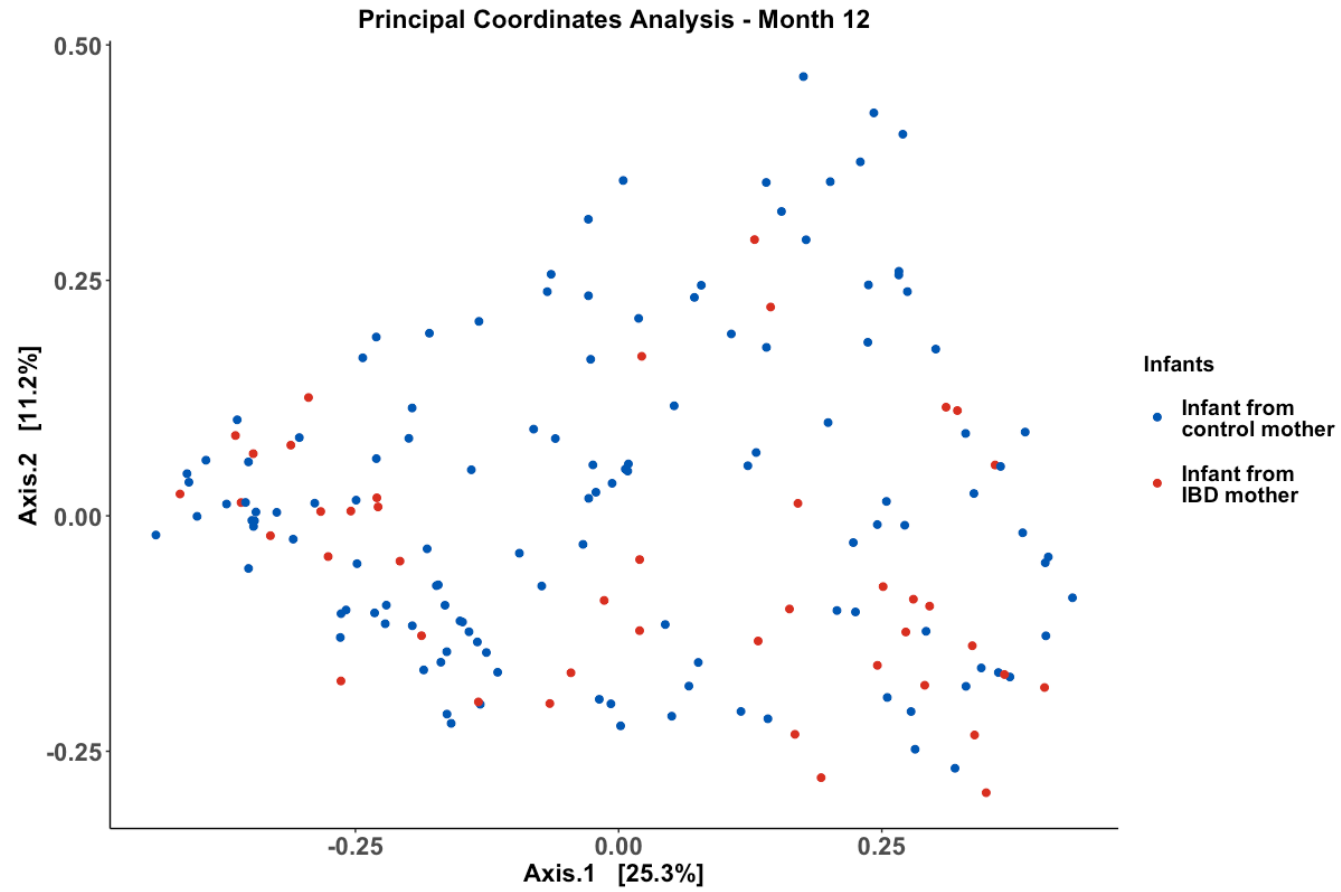
Supplementary Figure S7- Principal coordinates analysis including Month 2 samples.

Supplementary Figure S8



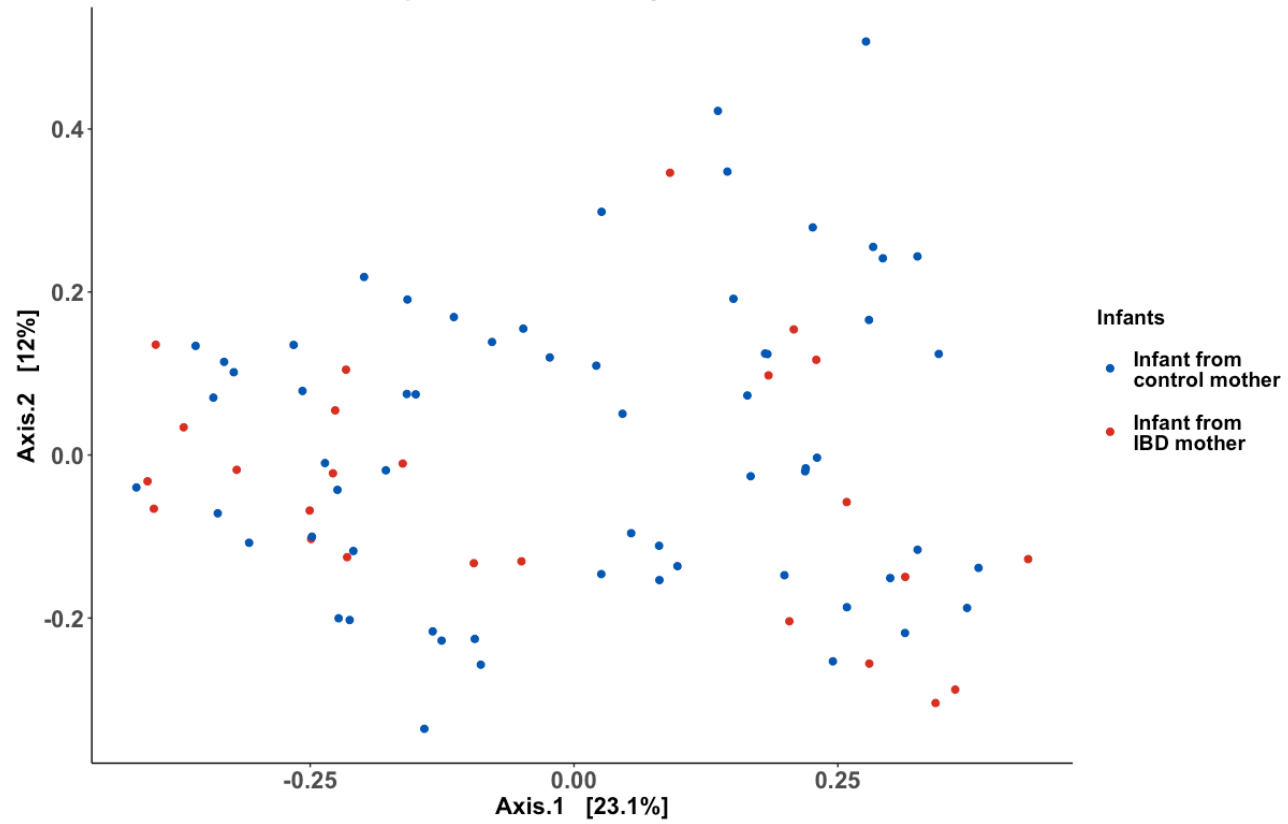
Supplementary Figure S8- Principal coordinates analysis including Month 3 samples.

Supplementary Figure S9



Supplementary Figure S9- Principal coordinates analysis including Month 12 samples.

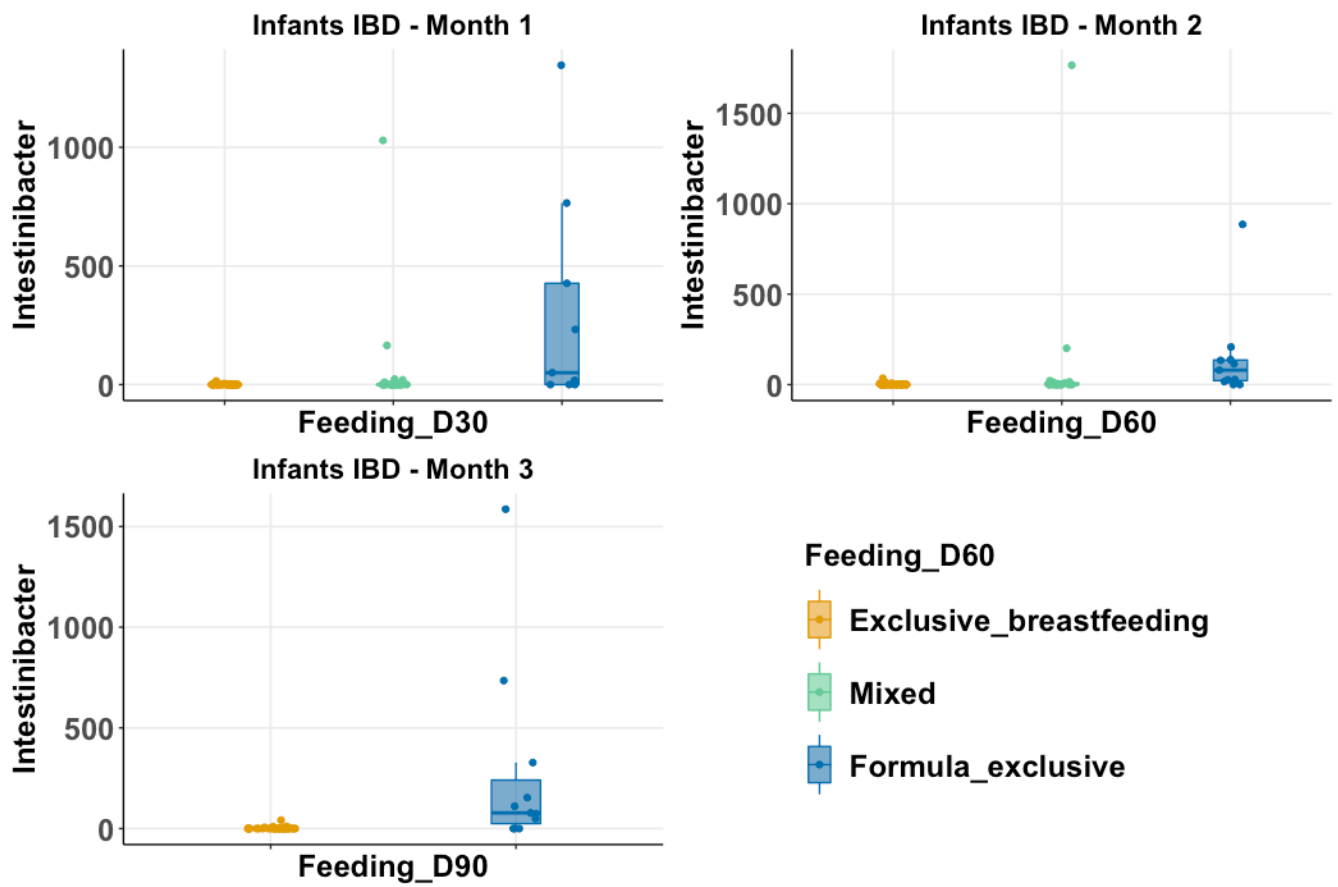
Supplementary Figure S10
Principal Coordinates Analysis - Month 18



Supplementary Figure S10- Principal coordinates analysis including Month 18 samples.

Supplementary Figure S11

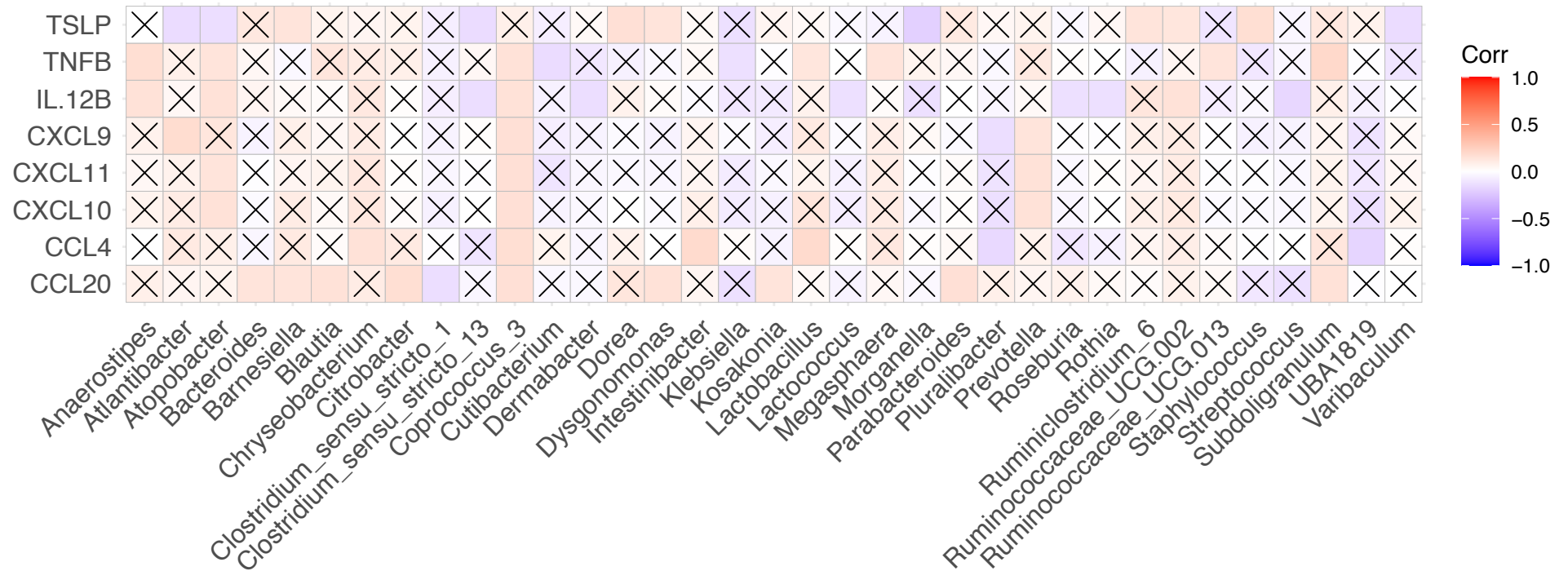
Supplementary Figure S12



Supplementary Figure S12- Relative abundance of *Intestinibacter* genus according to feeding.

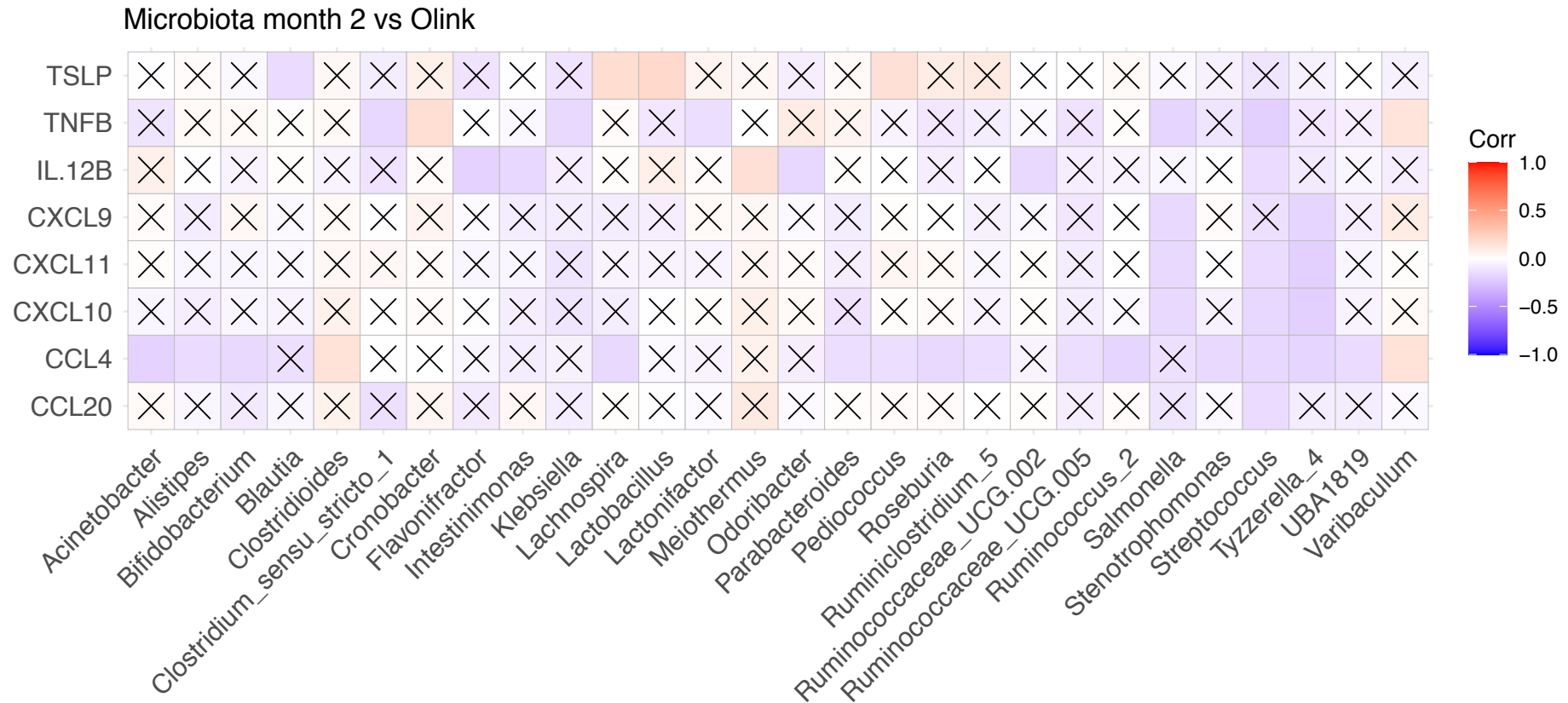
Supplementary Figure 13

Microbiota month 1 vs Olink



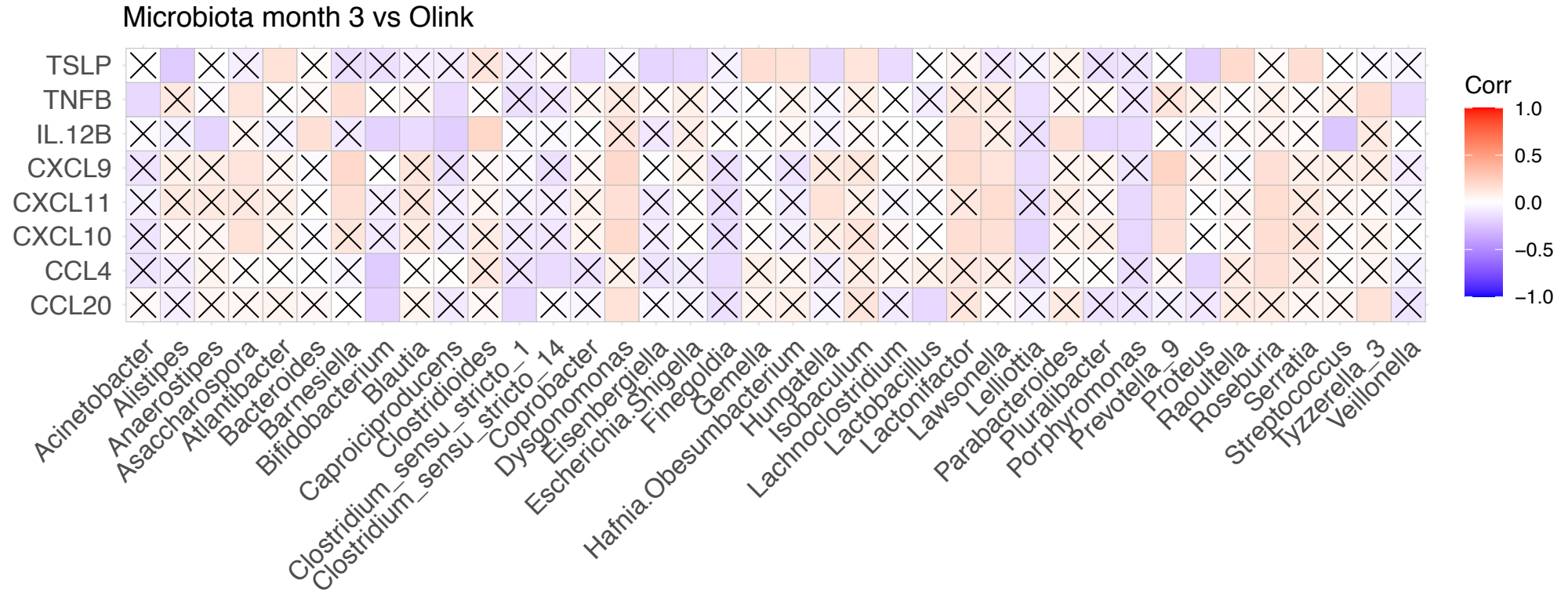
Supplementary Figure S13– Correlation between breast milk protein biomarkers that were significantly different between mothers with IBD and controls mothers and infant’s microbiota at month 1. Boxes with crosses indicate non-significant correlations. Boxes without crosses indicate statistically significant correlations.

Supplementary Figure 14



Supplementary Figure S14– Correlation between breast milk protein biomarkers that were significantly different between mothers with IBD and controls mothers and infant’s microbiota at month 2. Boxes with crosses indicate non-significant correlations. Boxes without crosses indicate statistically significant correlations.

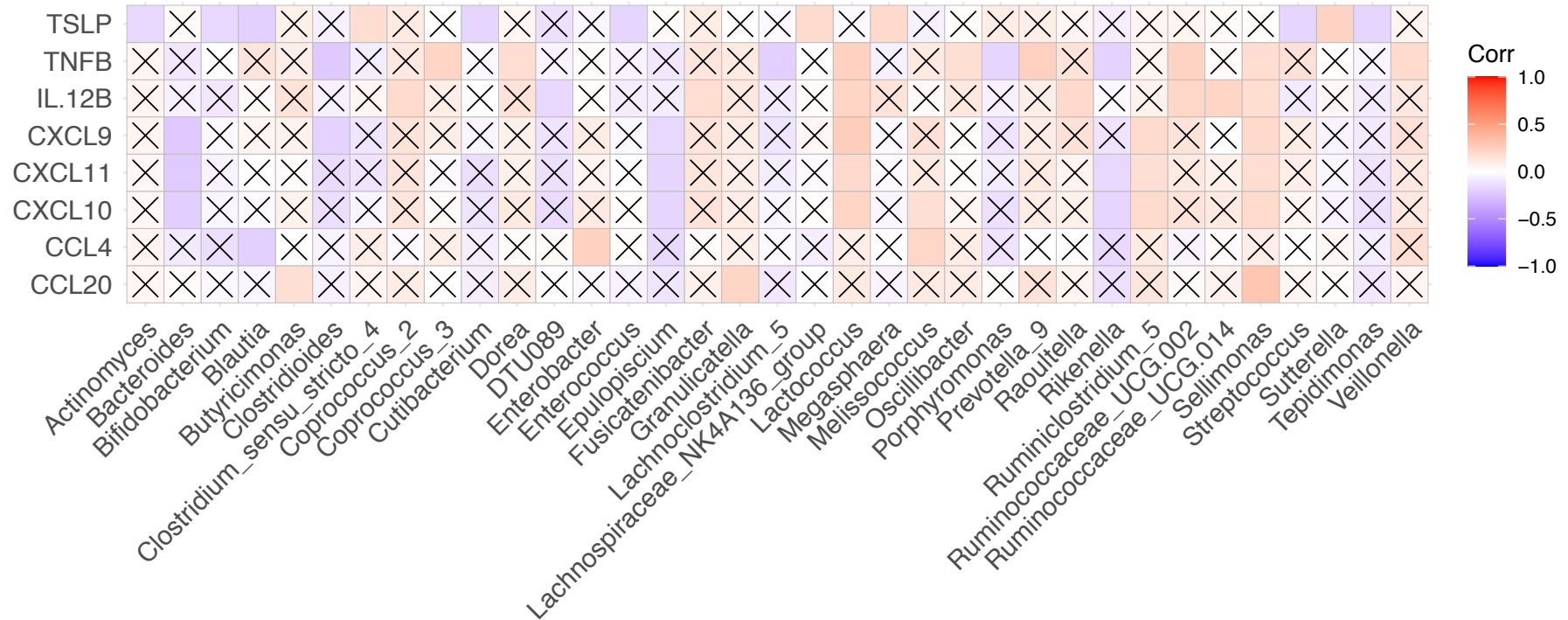
Supplementary Figure 15



Supplementary Figure S15– Correlation between breast milk protein biomarkers that were significantly different between mothers with IBD and controls mothers and infant’s microbiota at month 3. Boxes with crosses indicate non-significant correlations. Boxes without crosses indicate statistically significant correlations.

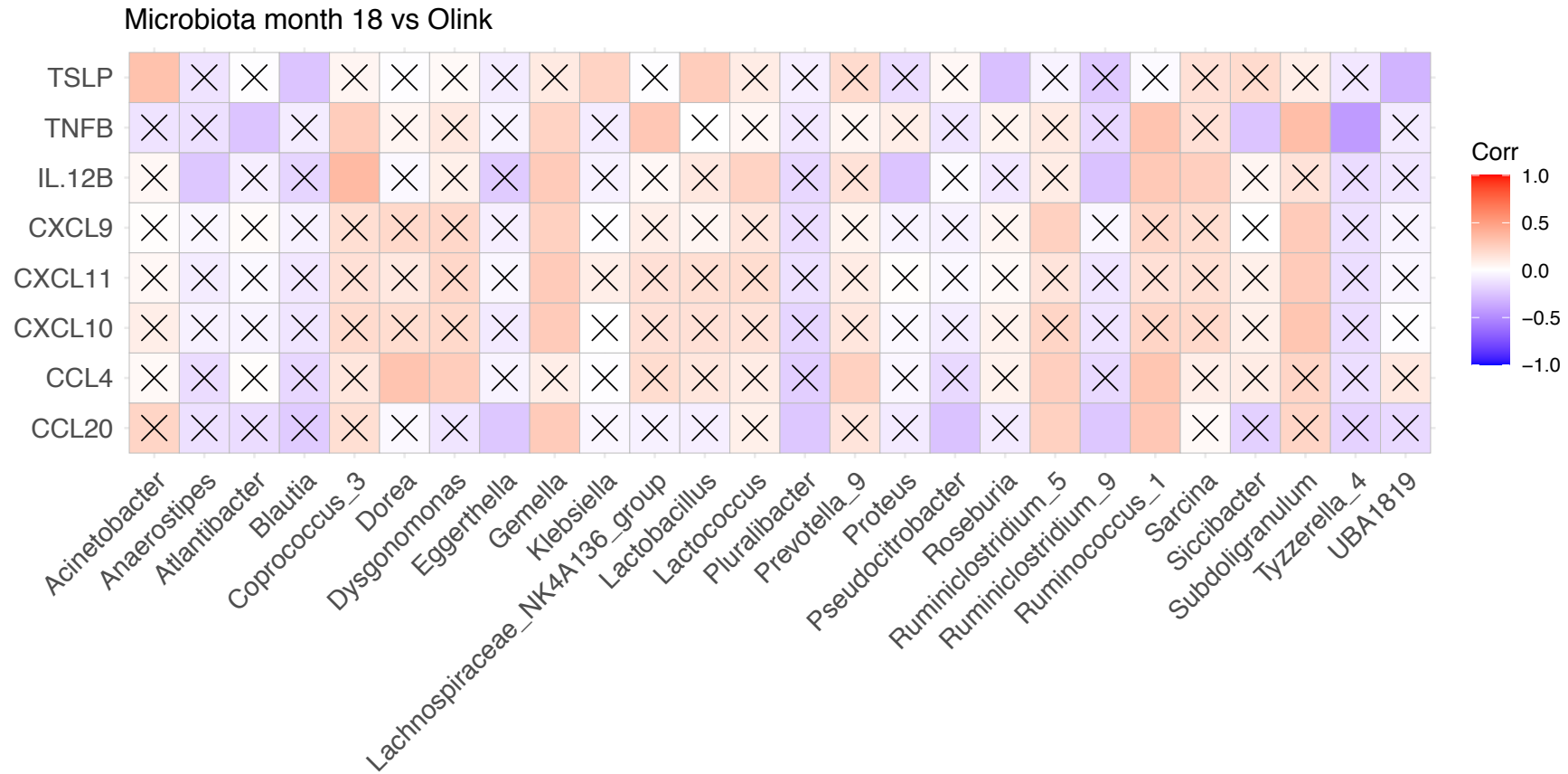
Supplementary Figure 16

Microbiota month 12 vs Olink



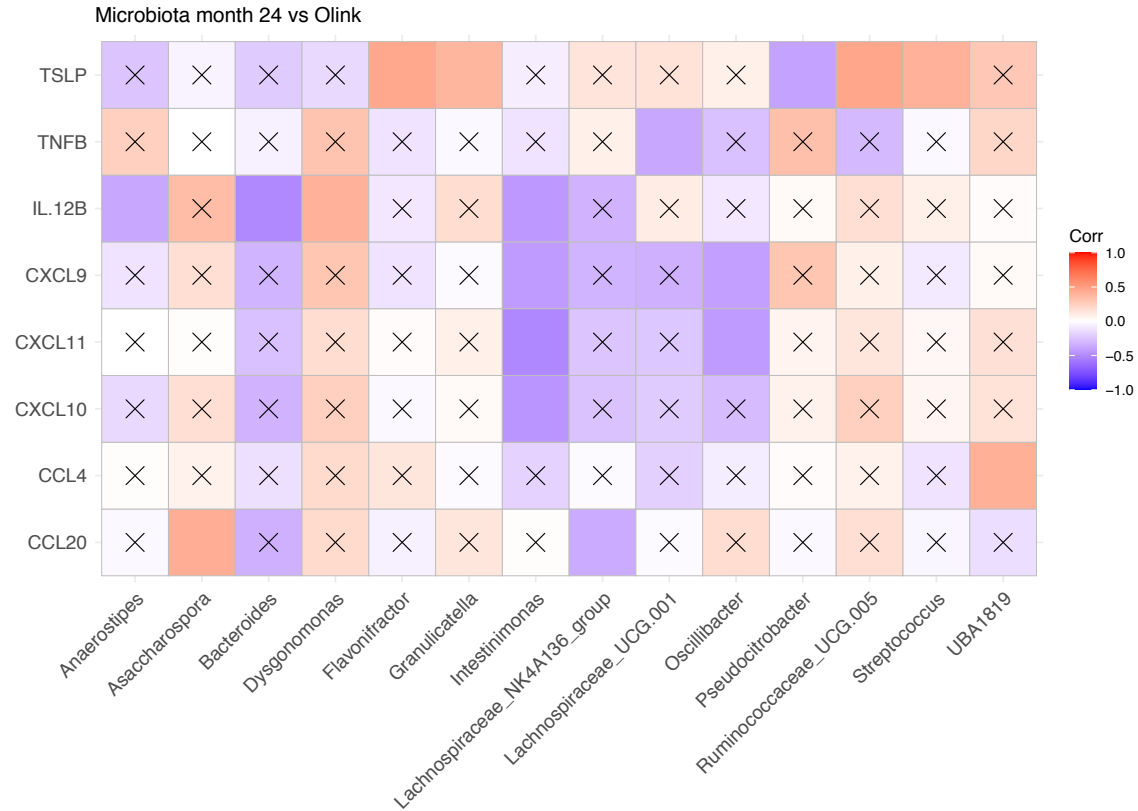
Supplementary Figure S16– Correlation between breast milk protein biomarkers that were significantly different between mothers with IBD and controls mothers and infant’s microbiota at month 12. Boxes with crosses indicate non-significant correlations. Boxes without crosses indicate statistically significant correlations.

Supplementary Figure 17



Supplementary Figure S17– Correlation between breast milk protein biomarkers that were significantly different between mothers with IBD and controls mothers and infant’s microbiota at month 18. Boxes with crosses indicate non-significant correlations. Boxes without crosses indicate statistically significant correlations.

Supplementary Figure 18



Supplementary Figure S18– Correlation between breast milk protein biomarkers that were significantly different between mothers with IBD and controls mothers and infant’s microbiota at month 24. Boxes with crosses indicate non-significant correlations. Boxes without crosses indicate statistically significant correlations.