



ADDITIONAL MATERIALS

Research Report 237

Early-Life Air Pollution Exposure Is Associated with the Infant Gut Microbiome and Fecal Metabolome in the First Two Years of Life

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Supplemental Figures and Tables

The Additional Materials were reviewed by the HEI Review Committee. They have not been fully edited or formatted by HEI.

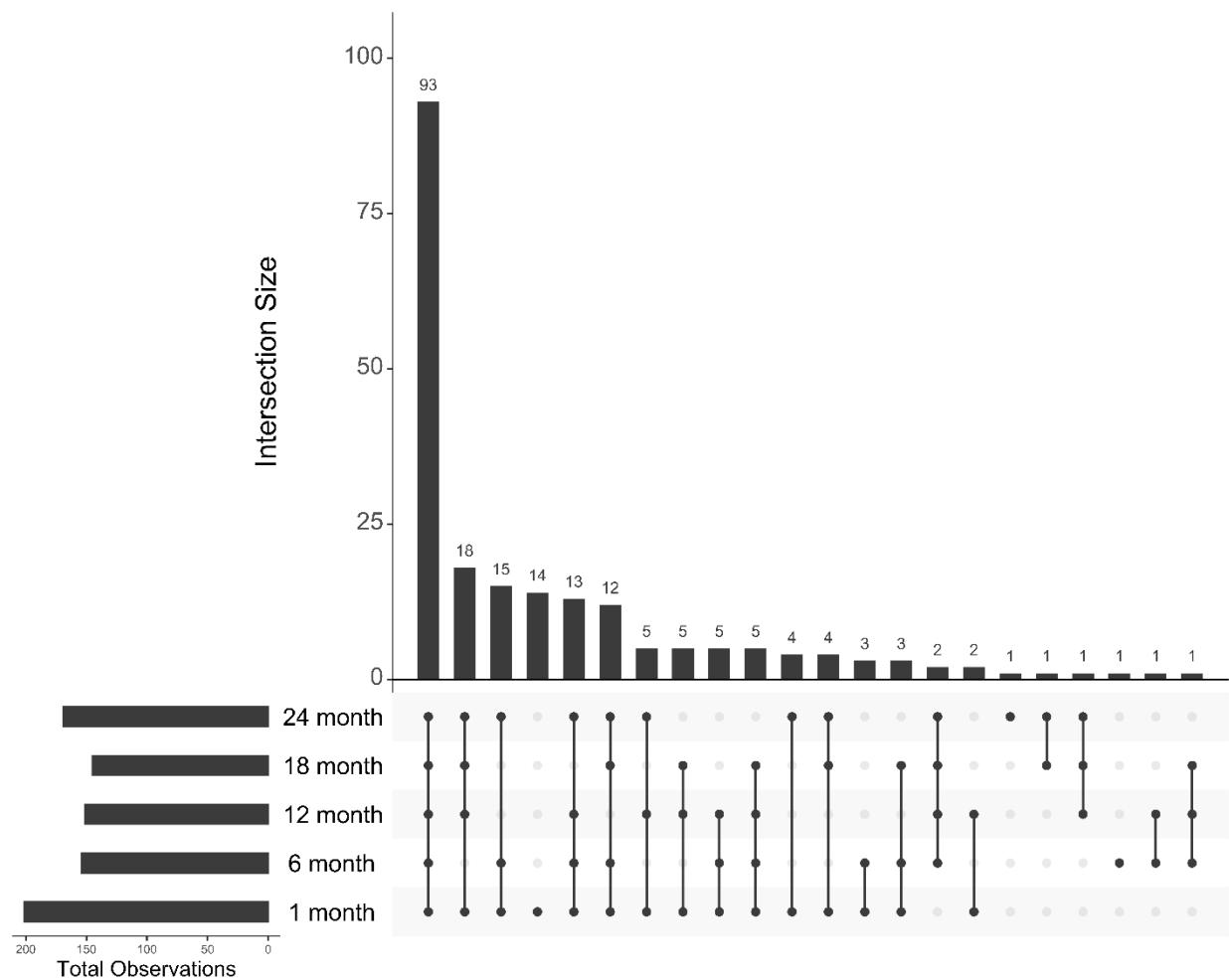
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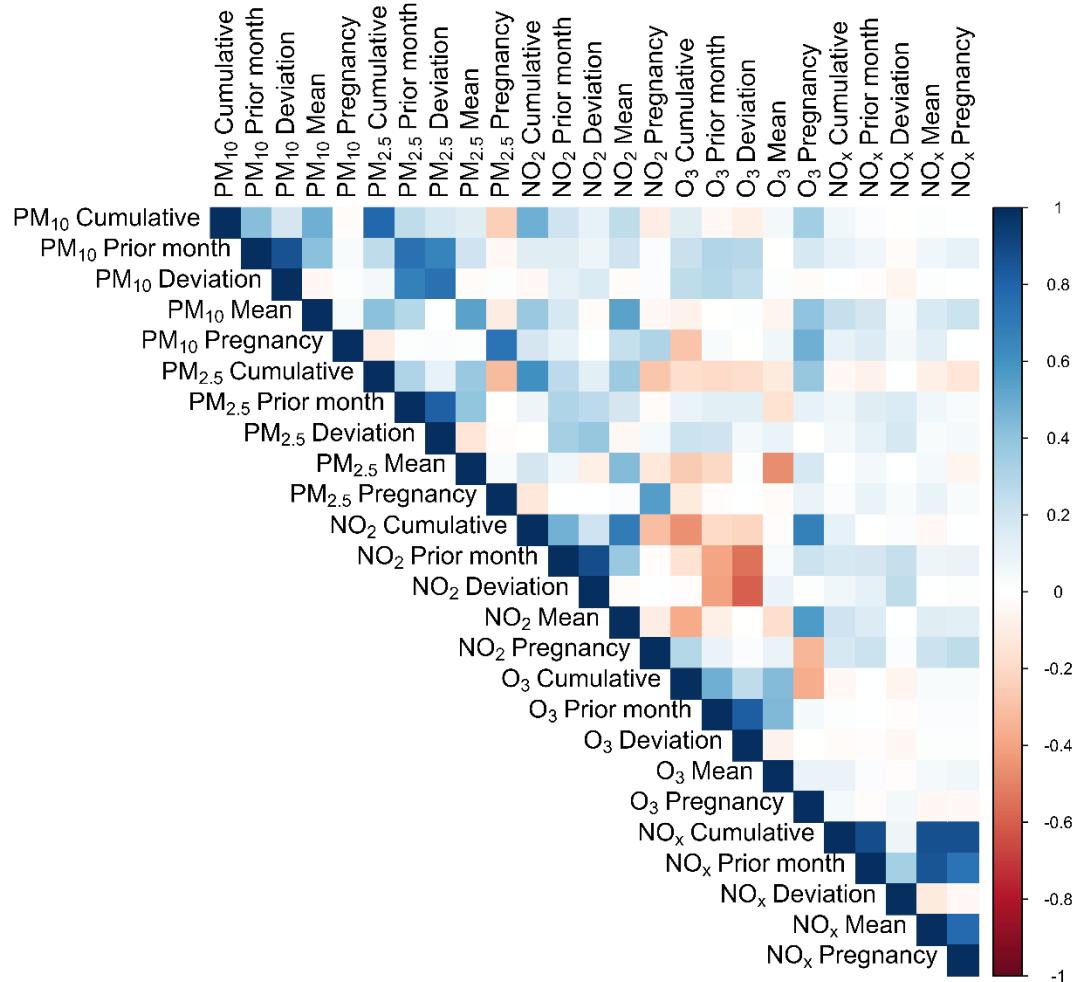
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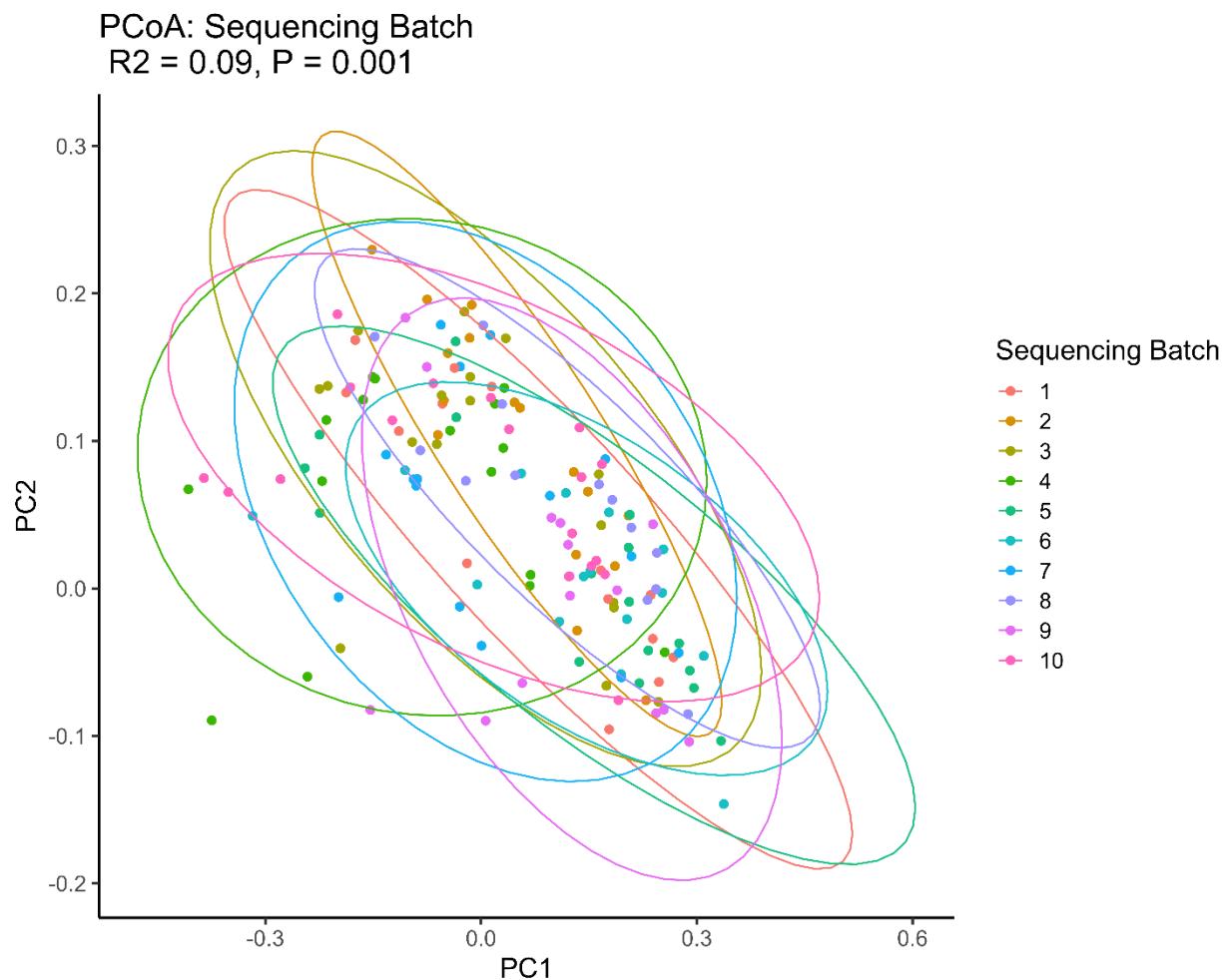
Supplemental Figure 1



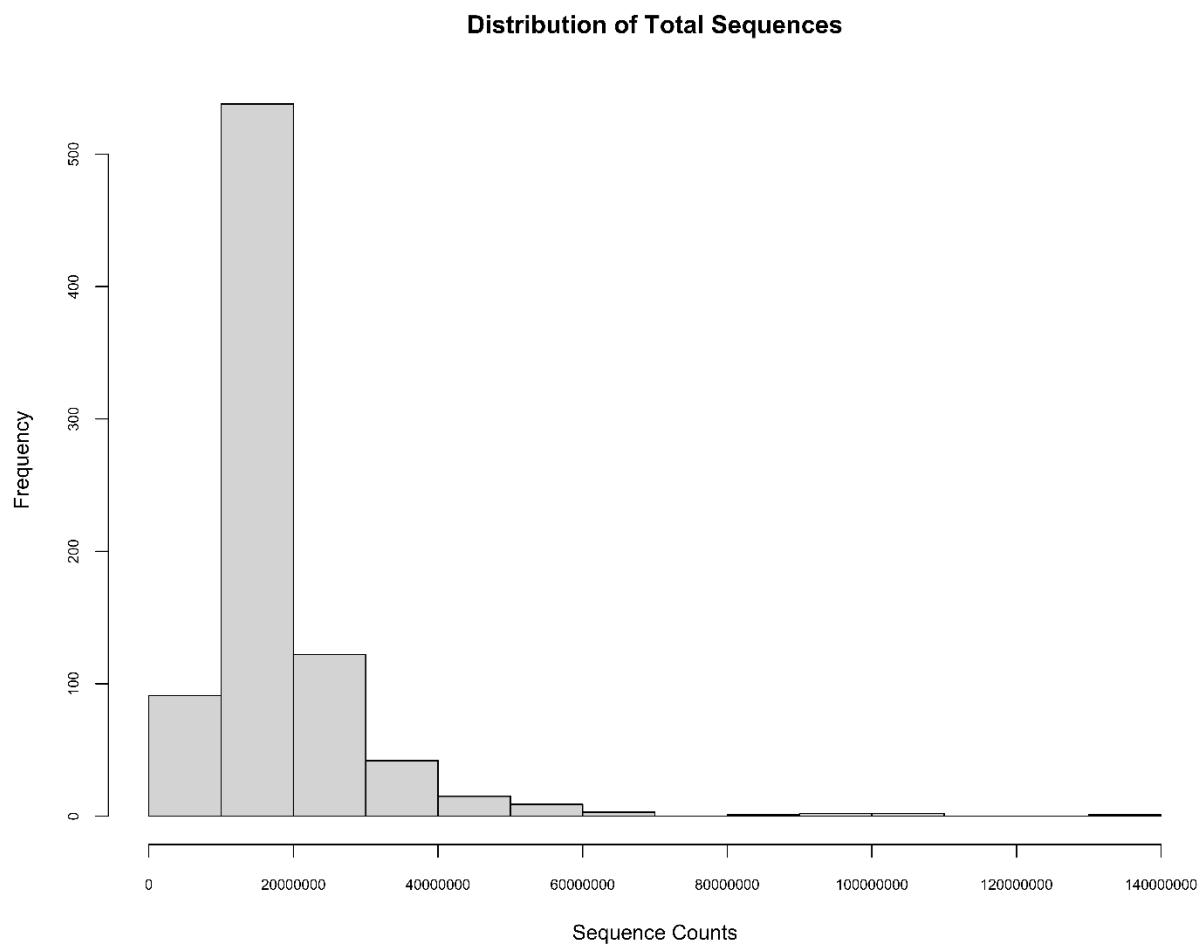
Supplemental Figure 2



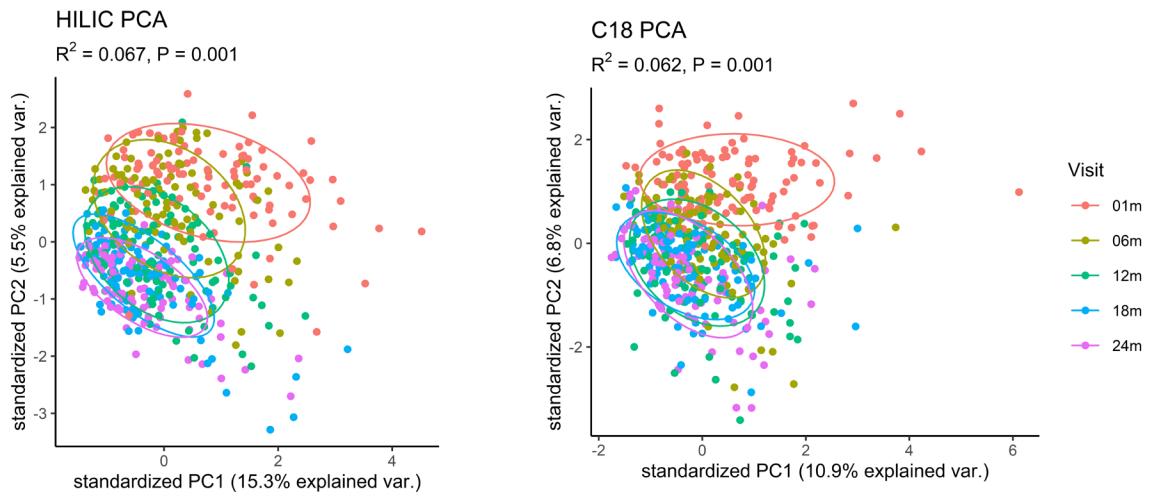
Supplemental Figure 3



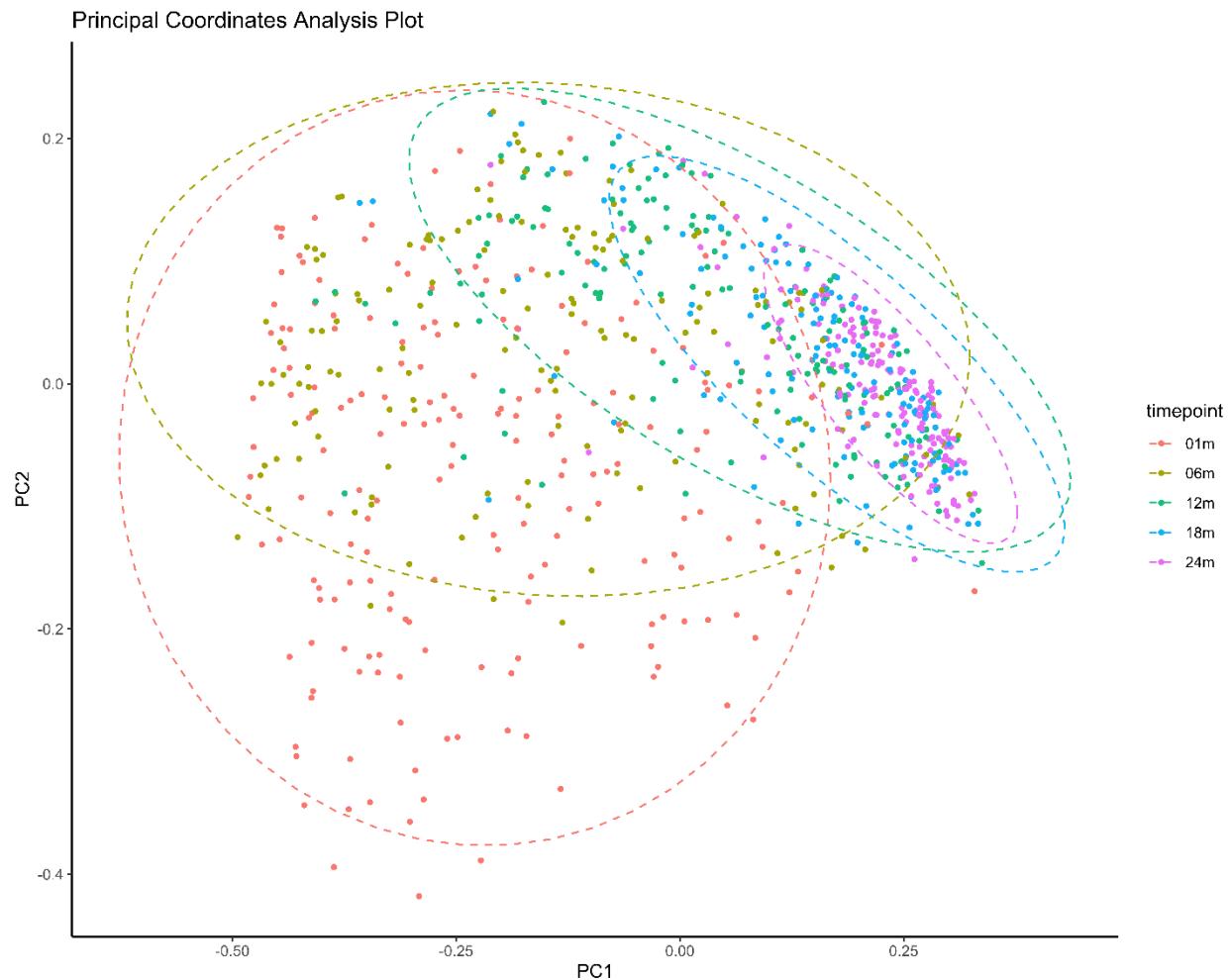
Supplemental Figure 4



Supplemental Figure 5



Supplemental Figure 6



Supplemental Table 1. Summary of PERMANOVA Analysis Results Evaluating the Association Between Infant Microbiome Bray-Curtis Dissimilarity at 1-, 6-, 12-, 18-, and 24-Month Time Points with Maternal and Infant Characteristics

	1-month R ² (P)	6-month R ² (P)	12-month R ² (P)	18-month R ² (P)	24-month R ² (P)
Mother Characteristics					
Age (years)	0.005 (0.47)	0.007 (0.29)	0.006 (0.61)	0.006 (0.56)	0.005 (0.88)
Prepregnancy BMI	0.004 (0.87)	0.004 (0.98)	0.006 (0.64)	0.007 (0.35)	0.007 (0.17)
SES	0.005 (0.55)	0.005 (0.69)	0.005 (0.97)	0.006 (0.58)	0.006 (0.62)
Antibiotics since delivery	0.01 (0.02)	0.009 (0.13)	0.005 (0.85)	0.005 (0.86)	0.006 (0.46)
Infant Characteristics					
Age	0.005 (0.53)	0.007 (0.36)	0.004 (0.99)	0.009 (0.18)	0.009 (0.09)
Sex	0.003 (0.98)	0.005 (0.88)	0.005 (0.95)	0.007 (0.35)	0.005 (0.85)
Delivery mode	0.009 (0.02)	0.006 (0.43)	0.008 (0.24)	0.01 (0.11)	0.006 (0.32)
Breastfeedings per day	0.005 (0.40)	0.006 (0.55)	0.005 (0.93)	0.005 (0.86)	0.007 (0.29)
Formula feedings per day	0.006 (0.30)	0.005 (0.89)	0.006 (0.47)	0.007 (0.44)	0.006 (0.41)
Healthy Eating Index	--	0.01 (0.049)	0.006 (0.40)	0.008 (0.26)	0.074 (0.32)
Antibiotics since birth	0.006 (0.20)	0.006 (0.56)	0.008 (0.21)	0.005 (0.99)	0.006 (0.41)
Season of visit	0.006 (0.23)	0.005 (0.73)	0.007 (0.42)	0.007 (0.34)	0.006 (0.37)