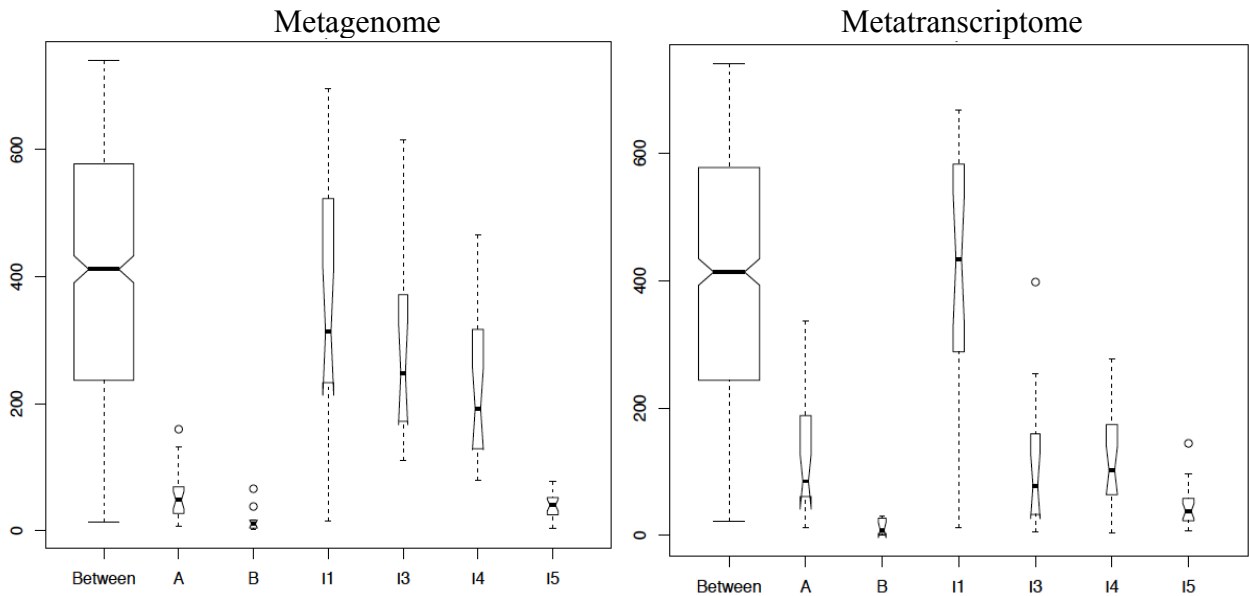


**Fig. S1.** ANOSIM analyses for metagenome and metatranscriptome at protein family level among (A) all samples (metagenome:  $R = 0.624$ ,  $P = 0.001$ ; metatranscriptome:  $R = 0.688$ ,  $P = 0.001$ ), and (B) samples for vaginally delivered infants only (metagenome:  $R = 0.647$ ,  $P = 0.001$ ; metatranscriptome:  $R = 0.656$ ,  $P = 0.001$ ). The length of the bows indicates the level of heterogeneity and the width the number of compared samples. The “Between” comparisons represent comparisons across all timepoints.

(A) all samples



(B) vaginally delivered infants

