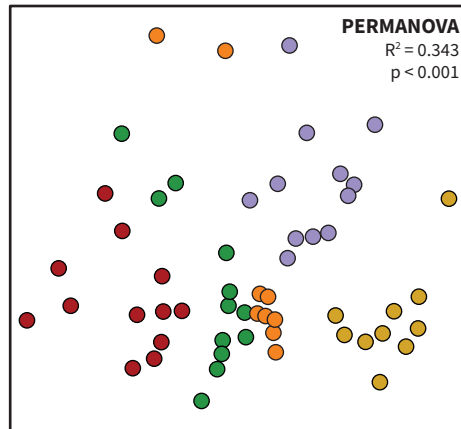
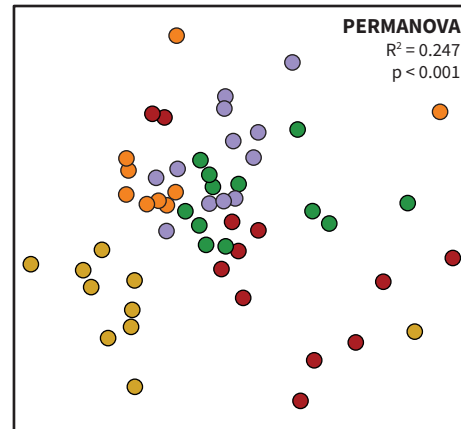


A. Weighted Bray-Curtis NMDS



B. Unweighted Bray-Curtis NMDS



Synthetic diets

■ MCC ■ Methylcellulose ■ Starch ■ Chitin ■ Pectin

Supplement 1: NMDS ordination analysis of synthetic diet samples excluding xylan-fed cockroaches. As in Figure 1, samples were rarefied a constant depth of 7924 sequences for alpha and beta diversity calculations. Non-metric multidimensional scaling (NMDS) was used to plot **(A)** weighted and **(B)** unweighted Bray-Curtis dissimilarity of gut communities from synthetic diets, excluding those fed the xylan diet. Multivariate analysis was performed using PERMANOVA.