**Supplementary Information**

**Table S1**: table showing the outcomes of effect size and power analyses for alpha diversity metrics. Only for Shannon’s Diversity do we have decent effect size and power.

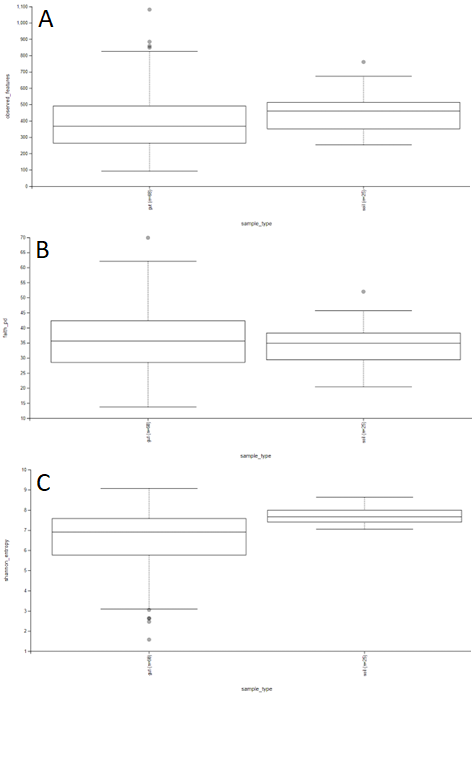


**Table S2**: List of families with significant differential abundances between soil and snail sample types based on ANCOM-BC.



A colorful lines and dots

AI-generated content may be incorrect.**Figure S1:** Qiime2 rarefaction curves showing a plateau around 4000 reads where more sequencing depth has diminishing returns.

**Figure S2:** Boxplots for alpha diversity differences between sample types (gut on the left, soils on the right). **A.** no difference between sample types for observed features, **B.** no differences between sample types for Faith’s phylogenetic distance, **C.** significant differences between sample types for Shannon’s diversity.