



**Supplementary Figure S3.** Diversity and richness analysis of the gut metagenome. **(a)** Shannon diversity index as estimated using the Vegan package in R3.10. Bars represent the mean  $\pm$  se **(b)** Rarefaction analysis using the Vegan package in R3.10. At each sequencing depth we plot the mean  $\pm$  se for each condition.