



**Figure S4.** Differences in the gut microbiota composition between basal phase and E82 phase at phylum, class and order level. Values are the mean  $\pm$  S.E.M. The statistically significant differences between each phase were tested by non-parametric Kruskal-Wallis test. \*  $P<0.05$ . **(a)** Phylum level; **(b)** Class level; **(c)** Order level.