



**Suppl. Fig. 1. Predicted metagenomic function related to secondary KEGG pathways.**

Enriched KEGG pathways, (A) “Endocrine system” and (B) “Lipid metabolism” were detected by PICRUSt and STAMP. For pairwise comparison among HFD+ORL (green box), HFD (orange box) and control group (blue box), mean proportions (%) and differences in mean proportions (%) were presented at left and right, respectively. *P* values were also shown for each comparison.