



**Supplemental Fig. 2.** Heatmap (A) between *H. pylori* (-) CSG and *H. pylori* (-) CSG with 10 weeks of fermented kimchi intake, upper figure denoted phylum level and lower figure denoted genus level analysis, (B) between *H. pylori* (+) CSG and *H. pylori* (+) CSG with 10 weeks of fermented kimchi intake, upper figure denoted phylum level and lower figure denoted genus level analysis, (C) between *H. pylori* (+) CAG and *H. pylori* (+) CAG with 10 weeks of fermented kimchi intake, upper figure denoted phylum level and lower figure denoted genus level analysis.