



Figure S11. Co-occurrences based on the relative abundances of the level 2/genus-like level bacterial taxa for the secretors (A) and the non-secretors (B). Co-occurrences with $\rho > 0.7$, relative abundance of the bacterial group $> 0.1\%$, and present $> 50\%$ of the non-secretors or secretors samples are shown. Light green indicate positive and yellow negative co-occurrences. Statistically significant positive and negative co-occurrences (q -value < 0.05) are shown in blue and red, respectively.