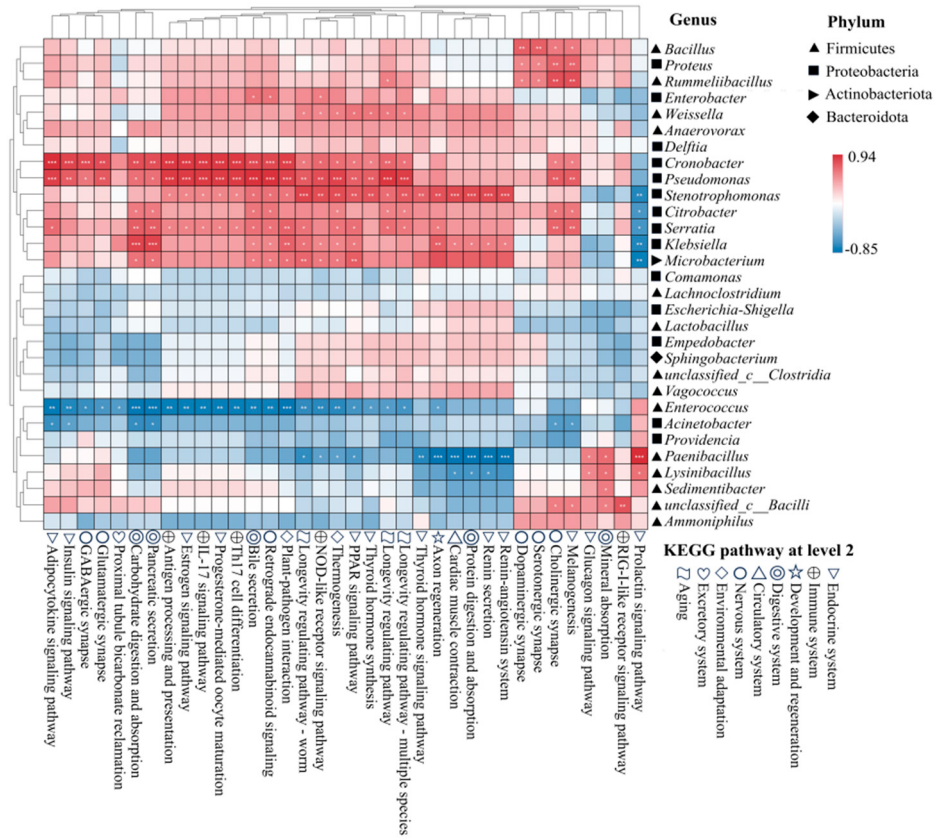


(A)



(B)

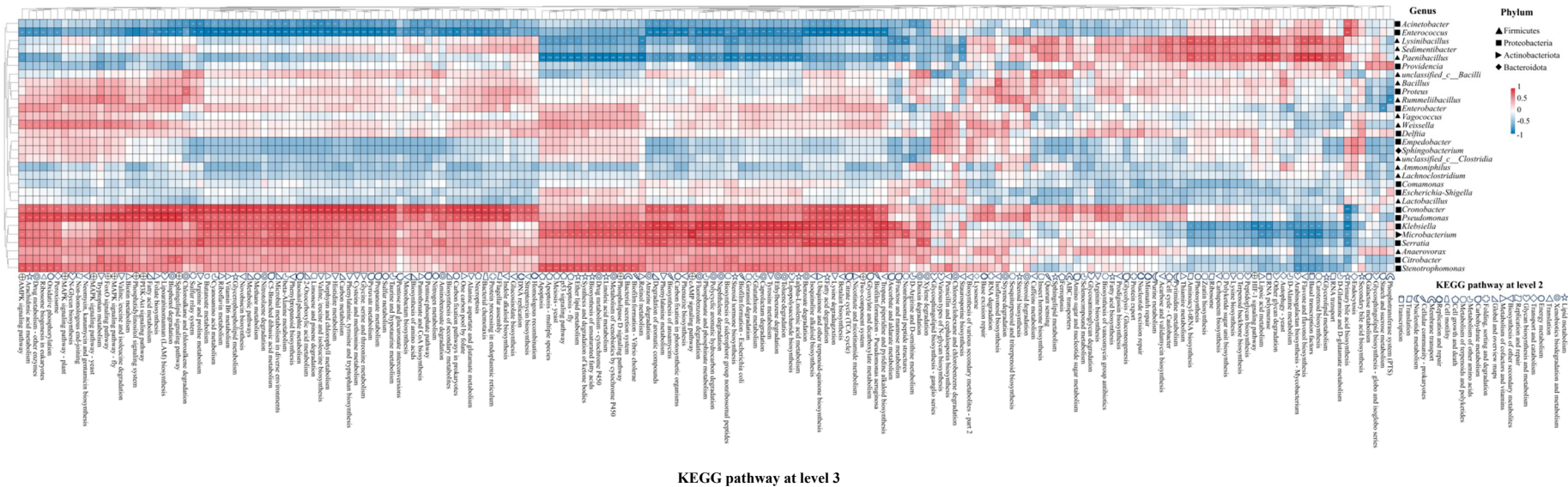


Figure S1. Correlations of insect gut bacteria (at the genus level with relative abundance of top 30) and predicted gut microbial functions within the organismal cluster (A), and within the metabolism/cellular processes/genetic information processing/environmental information processing (B), based on Spearman's correlation coefficients. "***" indicate significance at $P < 0.001$. The red squares represent a positive correlation, the blue squares represent a negative correlation, and the color depth reflects the absolute value of the correlation coefficient.

Table S1. The staining ratio of third instar BSFL from different treatments.

Treatment		CK	0.05mg/kg	0.5mg/kg	5mg/kg
Number of stained larvae	2	15	19	24	
Total number of larvae		90	90	90	90
Staining ratio (%)		2.22	16.67	21.1	25.56