

## Supplementary materials

# Silkworm Hemolymph and Cocoon Metabolomics Reveals Valine Improves Feed Efficiency of Silkworm Artificial Diet

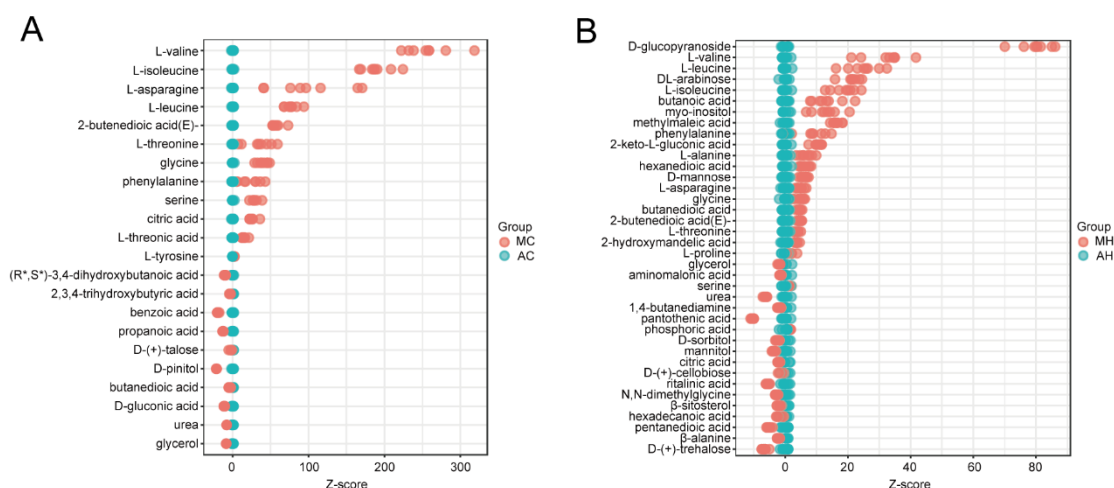
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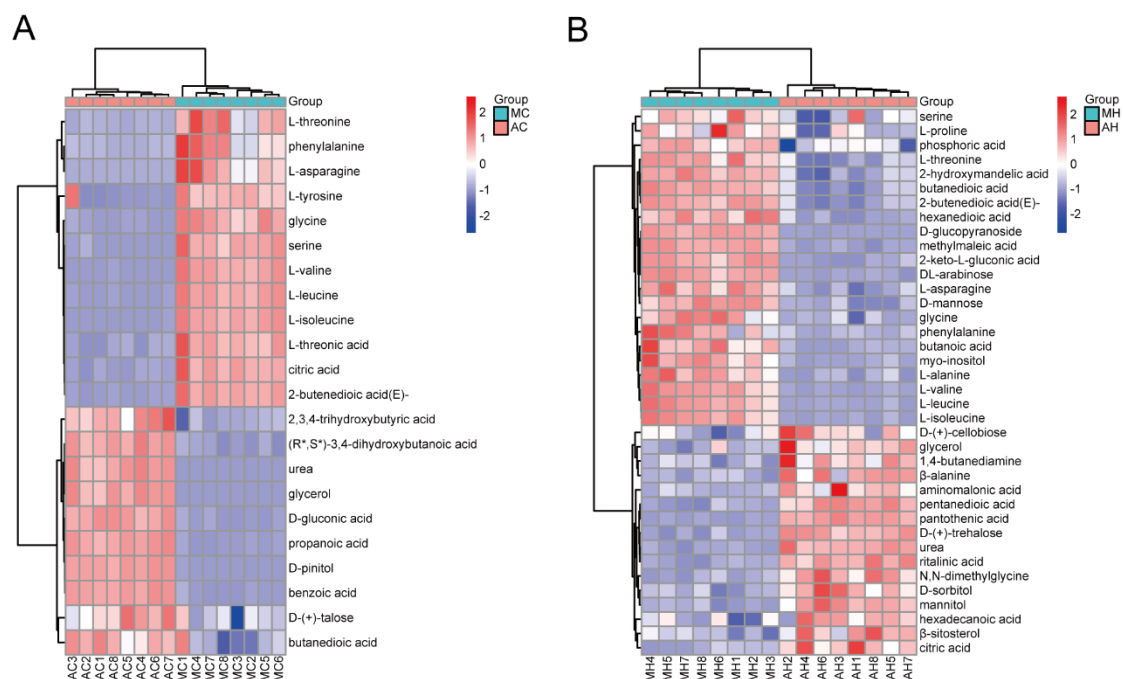
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**Figure. S1.** z-score plot of the analysis of differential metabolites in the cocoon and hemolymph between silkworms reared on mulberry leaves and the artificial diet. (a) cocoon and (b) hemolymph. AC: cocoon of artificial diet rearing group; MC: cocoon of mulberry leaf rearing group. AH: hemolymph of artificial diet rearing group; MH: hemolymph of mulberry leaf rearing group. n=8 replicates.



**Figure S2.** Relative Hierarchical cluster analysis and the heatmap of the differential abundance metabolites in the mulberry leaves group and the artificial-diet group. AC: cocoon of artificial diet rearing group; MC: cocoon of mulberry leaf rearing group. AH: hemolymph of artificial diet rearing group; MH: hemolymph of mulberry leaf rearing group. n=8 replicates.