

Supplemental Figures

Targeted Metabolomics Reveals Abnormal Hepatic Energy Metabolism by Depletion of β-Carotene Oxygenase 2 in Mice

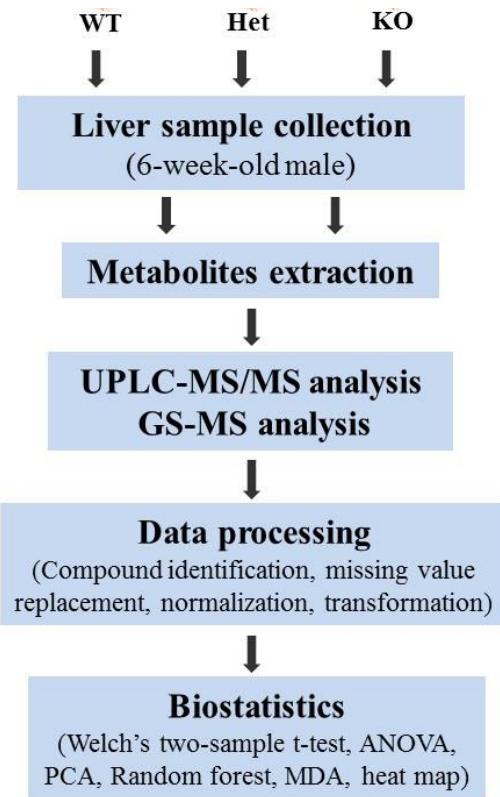
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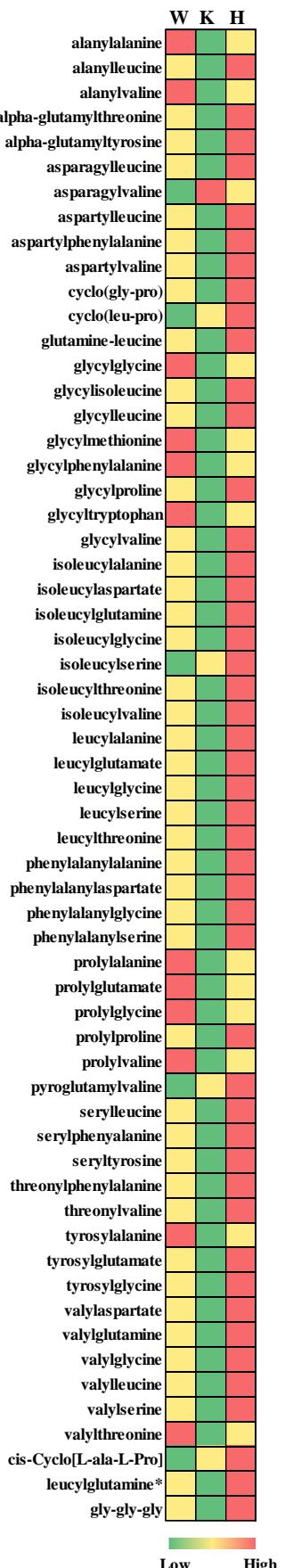
Supplemental Table 1 Summary of the numbers of metabolites identified with significant changes in the livers of wild type (WT), β-carotene oxygenase 2 (BCO2) heterozygous, and/or BCO2 knockout (KO) mice

Statistical Comparisons			
Welch's Two-Sample <i>t</i> -Test	KO WT	KO Het	Het WT
Total Metabolites ($p \leq 0.05$, ↑↓)	250 (108 142)	250 (103 147)	99 (65 34)
Total Metabolites ($0.05 < p < 0.10$, ↑↓)	36 (18 18)	42 (10 32)	45 (30 15)

The numbers in red show metabolites with increased contents, while the numbers in green indicate metabolites with decreased contents



Supplemental Figure 1. Summary of the experimental design. Liver metabolites from 6-week-old male wild type (WT), β -carotene oxygenase 2 (BCO2) heterozygous (Het) and BCO2 knockout (KO) mice were subjected to UPLC-MS/MS and GS-MS analysis followed by data processing and biostatistics analysis ($n = 6$).



Supplemental Figure 2. Heat map of metabolites associated with peptides metabolism. Liver metabolites from 6-week-old male WT, Het and KO mice were subjected to UPLC-MS/MS and GS-MS analysis followed by data processing and biostatistics analysis (n = 6). W, wild type; H, β -carotene oxygenase 2 (BCO2) heterozygous mice; K, BCO2 knockout mice