

Supplemental Table

Supplemental Table 1: Real time PCR primers of mouse PPAR α -targeted genes.

| Gene | | Sequence |
|-----------------|---------|------------------------------|
| <i>mCpt1</i> | Forward | 5'-TGAGTGGCGTCCTCTTTGG-3' |
| | Reverse | 5'-CAGCGAGTAGCGCATAGTCATG-3' |
| <i>mCpt2</i> | Forward | 5'-TGACTGGATAGGCTGCAATGTC-3' |
| | Reverse | 5'-CGAGGGCATCGAACATGTCT-3' |
| <i>mAcot1</i> | Forward | 5'-ATGGCAGCAGCTCCAGACTT-3' |
| | Reverse | 5'-CCCAACCTCCAAACCATCAT-3' |
| <i>mCyp4a10</i> | Forward | 5'-CCAGGAACTGCATTGGGAAA-3' |
| | Reverse | 5'-GACCCTGGTAGGATCTGGCA-3' |

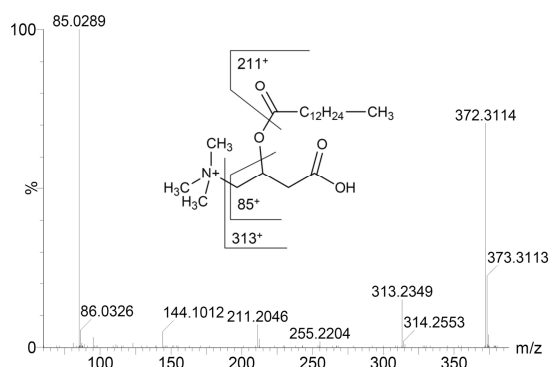
Supplemental Figures

Supplemental Figure 1. MS² fragmentation of acylcarnitines. Details of LC-MS conditions were described in the *Experimental procedures*. Major fragment ions were interpreted in the inlaid structural diagrams. **A**, Myristoylcarnitine (**II**). **B**, Oleoylcarnitine (**III**). **C**, Palmitoleoylcarnitine (**IV**).

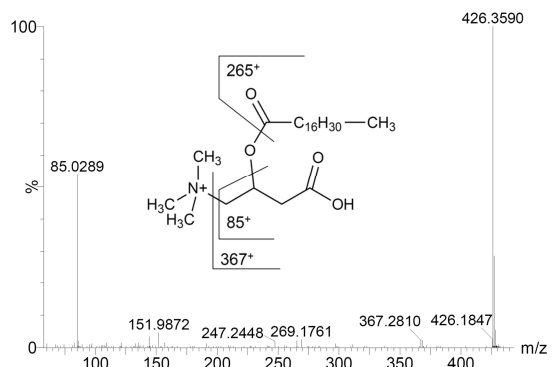
Supplemental Figure 2. PCA of time-dependent metabolomic changes induced by 400 mg/kg APAP treatment. **A**, Original scores plot of PCA model on serum metabolomes of APAP-treated wild-type and *Cyp2e1*-null mice (wild-type mice: ● and *Cyp2e1*-null mice: ○). The timing of sample collection was labeled beside the data point. The t[1] and t[2] values represent the scores of each sample in principal component 1 and 2, respectively (corresponding to Figure 3A). **B**, Loadings scatter plot of the PCA model. Data point representing palmitoylcarnitine (**I**) was labeled in the plot.

Supplemental Figure 1

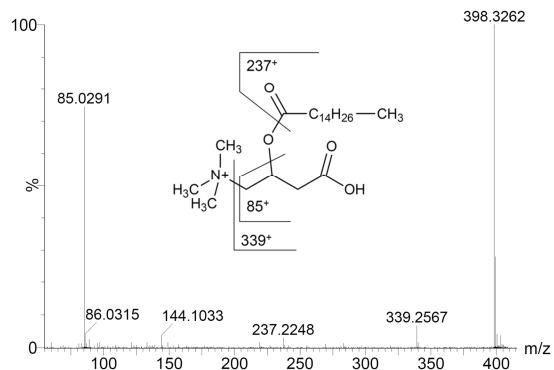
A



B

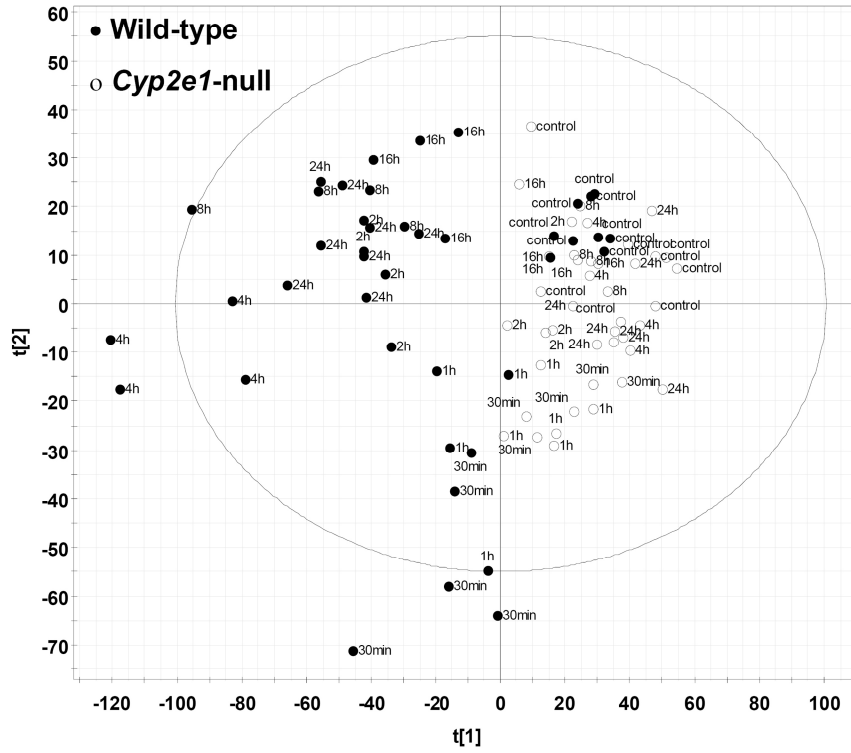


C



Supplemental Figure 2

A



B

