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A. Morphological analysis of H&E-stained sections of skin from 16-wk-old males wild-type and PPARγ2 KO mice (n=9).
B. Morphological analysis of H&E-stained sections of BAT from 16-wk-old wild type and PPARγ2 KO mice.
C. Inmunohistochemical analysis of UCP-1 in BAT from 16-wk-old wild type and PPARγ2 KO mice.
D. Electron microscopy of BAT from 16-wk-old wild-type and PPARγ2 KO mice.
E. Immunohistochemical analysis of UCP-1 in BAT from 16-wk-old wild type and PPARγ2 KO mice.
D. Electron microscopy of BAT from 16-wk-old wild-type and PPARγ2 KO mice.
E. Immunohistochemical analysis of thyrosine hydroxilase from parenchimal (P) (a,b) and vascular (V) (c,d) noradrenergic nerve fibers in BAT from wild-type and PPARγ2 KO mice.

A. Histogram of the distribution of peaks (lipid compounds) according to up-/down-regulation.



Selected correlation networks from lipidomic analyses in WAT. The edges represent linear correlations between compound profiles across different mouse samples that are above a threshold level (C>0.90). The node colors represent the level of up- or down-regulation of PPARγ2 KO vs. wild type mice. A. Histogram showing the distribution of up-/down-regulated processed peaks from LC/MS spectrometry corresponding to lipid compounds. Height of each bar corresponds to number of peaks within a particular range of ratios of means (KO vs. WT). This histogram shows an approximately similar number of peaks up-regulated (> 1) and down-regulated (< 1) indicating qualitative differences in their composition as indicated by differences in the height of specific LC/MS peaks. B. Cluster of long-chain triacylglycerols (TG) is decreased in adipose tissue of PPARg2 KO. Nominal m/z value is shown in parentheses. C. Other up-regulated lipids in adipose tissue of PPARg2 KO mouse, mainly short-chain triacylglycerols (TG), long-chain phospholipids (LC PL), lysophospholipids (LysoPL), and diacylglycerols (DAG). In parenteses are given either nominal m/z value or the fatty acid chain carbon distribution. D. Cluster of phosphatidylcholines (C32:n), likely containing combinations of palmitic and palmitoleic acids as fatty acid components. E. Cluster containing three ceramide-related compounds. For all three compounds, MS/MS analysis resulted in 264m/z peak characteristic of ceramides.

B. Down-regulated long-chain triacylglycerol cluster