

Table S2. Content of fatty acids (FA) in the subcutaneous white adipose tissue (ScAT) of mice fed for 15 weeks a control diet (Ctrl.) or high fat diet with lard as dominant component (HFD-L). The table summarizes the first phase of dietary intervention. Results are presented as means $\pm$ standard deviation. Bold font is used to show the most abundant fatty acids detected in ScAT. Symbol: * in a superscript represents a statistically significant difference from Ctrl.: *p < 0.05, ** p < 0.01, **** p < 0.0001.

FA content in VAT (mg/100 mg tissue)			
FA Omega Nomenclature	Common name	Ctrl.	HFD-L
C12:0	Lauric acid	0.044 $\pm$ 0.012	0.079 $\pm$ 0.069
C14:0	Myristic acid	0.768 $\pm$ 0.175	0.564 $\pm$ 0.156
C14:1	Myristoleic acid	0.044 $\pm$ 0.009	0.154 $\pm$ 0.020
C15:0	Pentadecic acid	0.056 $\pm$ 0.019	0.049 $\pm$ 0.010
C16:0	Palmitic acid	5.578 $\pm$ 1.342	7.257 $\pm$ 1.424
C16:1n9	Elaidic acid	0.530 $\pm$ 0.109	0.687 $\pm$ 0.082
C16:1n7	Palmitoleic acid	4.998 $\pm$ 1.022	3.541 $\pm$ 0.932*
C17:0	Margaric acid	0.059 $\pm$ 0.020	0.130 $\pm$ 0.029
C17:1	Margaroleic acid	0.088 $\pm$ 0.032	0.226 $\pm$ 0.036
C18:0	Stearic acid	1.275 $\pm$ 0.422	3.265 $\pm$ 0.642****
C18:1n9	Oleic acid	23.071 $\pm$ 5.809	33.494 $\pm$ 5.067**
C18:1n3	15E-octadecenoic acid	5.513 $\pm$ 1.708	5.920 $\pm$ 0.710
C18:2n6	Linoleic acid	11.474 $\pm$ 3.636	11.950 $\pm$ 2.395
C18:3n3 (ALA)	α -Linolenic acid	0.390 $\pm$ 0.058	0.490 $\pm$ 0.186
C20:0	Arachidic acid	1.088 $\pm$ 0.595	0.021 $\pm$ 0.011
C20:1n7	Paullinic acid	0.553 $\pm$ 0.270	0.457 $\pm$ 0.189
C20:2n6	<i>Cis</i> -11,14-Eicosadienoic Acid	0.018 $\pm$ 0.014	0.120 $\pm$ 0.046
C20:3n9	Mead acid	0.014 $\pm$ 0.003	0.031 $\pm$ 0.002
C22:1n9	Erucic acid	0.038 $\pm$ 0.026	0.119 $\pm$ 0.024