Electronic Supplementary Material (ESI) for Food & Function.

Supplementary Table 1 Primers used for quantitative real-time PCR

Gene	Sense primer (5'→3')	Antisense primer (5'→3')
PPARα	GGTCATACTCGCAGGAAA	AGCAAATTATAGCAGCCAC
PPARγ	TCAGGGCTGCCAGTTTCG	GCTTTTGGCATACTCTGTGATCTC
PPARδ	AACGAGATCAGCGTGCATGTG	TGAGGAAGAGGCTGCTGAAGTT
PGC1α	TGAGAGGGCCAAGCAAAG	ATAAATCACACGGCGCTCTT
CPT1α	CGGTTCAAGAATGGCATCATC	TCACACCCACCACCACGAT
FAS	GTCTGCAGCTACCCACCCGTG	CTTCTCCAGGGTGGGGACCAG
ACC	ACAGAGATGGTGGCTGATGTC	GATCCCCATGGCAATCTG
SCD1	TGCCAGAGGGAATAGGGAAA	CTCTCCCATCCTTACTTACAAACCA
Lactobacillus spp.	AGCAGTAGGGAATCTTCCA	ATTYCACCGCTACACATG
Bifidobacterium spp.	CTCCTGGAAACGGGTGG	GGTGTTCTTCCCGATATCTACA
Enterobacteriaceae spp.	CATTGACGTTACCCGCAGAAGAAGC	CTCTACGAGACTCAAGCTTGC
Bacteroides spp.	ATAGCCTTTCGAAAGRAAGAT	CCAGTATCAACTGCAATTTTA
β-actin	TGTTGTCCCTGTATGCCTCT	TAATGTCACGCACGATTTCC

Supplementary Table 2 Fatty acids composition of the two kinds of diet (mg/g)

Groups	HFD	ND
14:0	0.762 ± 0.018	0.106 ± 0.029
9c14:1	nd	nd
15:0	0.057 ± 0.002	0.024 ± 0.007
16:0	15.672 ± 0.494	2.447 ± 0.706
9c16:1	0.727 ± 0.010	0.064 ± 0.018
17:0	0.160 ± 0.003	0.017 ± 0.007
9c17:1	0.078 ± 0.008	0.010 ± 0.003
18:0	8.721 ± 0.329	0.472 ± 0.116
9t/11t18:1	0.006 ± 0.010	0.007 ± 0.002
9c18:1	17.309 ± 0.421	2.427 ± 0.729
11c18:1	1.015 ± 0.019	0.112 ± 0.033
9c12t/9t12c18:2	0.020 ± 0.003	0.001 ± 0.002
9c12c18:2n-6	10.321 ± 0.226	4.896 ± 1.463
6c9c12c18:3n-6	0.012 ± 0.011	nd
ctt/cct18:3	nd	nd
C20:0	0.172 ± 0.007	0.043 ± 0.012
ctc/tcc18:3	nd	nd
9c12c15c18:3n-3	0.495 ± 0.008	0.253 ± 0.077
11c20:1	0.362 ± 0.006	0.035 ± 0.010
20:2n-6	0.228 ± 0.005	0.006 ± 0.002
20:3n-6	0.046 ± 0.002	0.004 ± 0.001
22:0	0.027 ± 0.002	0.022 ± 0.006
20:4n-6	0.131 ± 0.003	0.024 ± 0.006
20:5n-3	0.090 ± 0.002	0.084 ± 0.024
C24:0	0.023 ± 0.001	0.022 ± 0.006
C22:5n-3	0.047 ± 0.001	0.017 ± 0.003
C22:6n-3	0.142 ± 0.003	0.143 ± 0.041
∑SFA	25.593 ± 0.844	3.153 ± 0.874
∑MUFA	19.500 ± 0.438	2.651 ± 0.793
∑PUFA	11.512 ± 0.247	5.428 ± 1.615
∑trans	0.026 ± 0.013	0.008 ± 0.004
∑FA	56.630 ± 0.515	11.241 ± 0.284