Supporting Information

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Table S1. Fatty acid contents of total lipids extracted from the bone (femur and tibia) of 5-week-old male mice

Fatty acid	Fatty acid composition, mol%	
	WT	FACC1KO
C14:0	3.17 ± 0.08	3.57 ± 0.32
C16:0	23.3 ± 0.15	17.74 ± 0.7**
C18:0	8.22 ± 0.13	4.95 ± 0.56**
C20:0	0.10 ± 0.01	0.09 ± 0.00
C22:0	0.16 ± 0.01	0.09 ± 0.01**
C24:0	0.26 ± 0.01	0.14 ± 0.01**
C16:1	5.30 ± 0.17	7.94 ± 0.25**
C18:1	22.06 ± 0.34	28.34 ± 0.92**
C20:1	0.39 ± 0.02	0.5 ± 0.01**
C22:1	0.07 ± 0.04	0.04 ± 0.02
C24:1	0.38 ± 0.02	0.23 ± 0.01**
C18:2n-6	17.89 ± 0.05	22.75 ± 1.2*
C18:3n-6	0.42 ± 0.17	0.31 ± 0.08
C20:2n-6	0.81 ± 0.01	0.81 ± 0.05
C20:3n-6	0.85 ± 0.00	0.63 ± 0.04**
C20:4n-6	10.04 ± 0.2	6.52 ± 0.43**
C22:4n-6	1.66 ± 0.03	1.12 ± 0.08**
C22:5n-6	0.45 ± 0.03	0.34 ± 0.03
C18:3n-3	0.74 ± 0.02	1.27 ± 0.09**
C20:5n-3	0.12 ± 0.01	0.10 ± 0.00
C22:5n-3	0.82 ± 0.04	0.62 ± 0.04*
C22:6n-3	2.79 ± 0.15	1.92 ± 0.2*

Each value represents the mean ± SEM ($n = 3$). *, $P < 0.05$; **, $P < 0.01$.