

Supporting Information

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Table S1. Hepatic DAG species from WT and KO mice fed either RC or a HFD at 12 wk of age

Species	WT (RC)	KO (RC)	WT (HFD)	KO (HFD)
PO	31.7 ± 4.3	51.9 ± 14.2	99.1 ± 14.1	212.4 ± 48.7
AE	317.2 ± 32.4	360.7 ± 44.3	487.6 ± 40.3	502.1 ± 98.7
AP	3.0 ± 0.2	3.5 ± 0.3	4.2 ± 0.3	5.5 ± 0.5
AS	5.9 ± 0.5	6.3 ± 0.7	8.9 ± 0.6	9.6 ± 1.8
SS	3.7 ± 0.2	4.2 ± 0.2	7.4 ± 0.7	7.1 ± 0.6
LS	3.8 ± 0.4	7.7 ± 1.8	5.4 ± 0.4	14.7 ± 2.4
OS	2.9 ± 0.3	5.1 ± 1.3	8.0 ± 0.9	21.2 ± 4.5
PP	6.2 ± 0.4	9.8 ± 1.9	17.1 ± 3.1	28.4 ± 6.2
SP	2.5 ± 0.2	3.5 ± 0.6	6.9 ± 0.9	12.0 ± 2.4
OO	76.4 ± 6.7	112 ± 23.5	180.8 ± 18.6	446.7 ± 103.1
OL	26.5 ± 2.2	74.2 ± 24.2	46.4 ± 3.7	155.7 ± 31.3
LL	10.3 ± 1.4	45.6 ± 17.4	9.3 ± 0.9	48.8 ± 11.3
PL	56.8 ± 4.0	132.4 ± 38.4	101 ± 7.2	220.3 ± 34.4

DAG data are expressed as nanomole per gram. Data are represented as mean ± SEM (*n* = 8–12 per group).

Table S2. Muscle DAG species from WT and KO mice fed either RC or a HFD at 12 wk of age

Species	WT (RC)	KO (RC)	WT (HFD)	KO (HFD)
PO	17.8 ± 1.7	33.6 ± 1.7	65.0 ± 8.8	61.6 ± 3.9
AE	6.9 ± 0.6	13.0 ± 0.6	23.4 ± 1.2	26.3 ± 1.4
AP	0.9 ± 0.1	1.8 ± 0.1	2.8 ± 0.1	3.2 ± 0.1
AS	0.8 ± 0.1	1.6 ± 0.1	2.3 ± 0.1	2.6 ± 0.1
SS	1.5 ± 0.1	2.9 ± 0.1	4.4 ± 0.2	4.9 ± 0.2
LS	2.9 ± 0.2	5.5 ± 0.2	9.1 ± 0.6	10.0 ± 0.6
OS	4.0 ± 0.4	7.6 ± 0.4	13.6 ± 1.2	14.2 ± 0.9
PP	8.2 ± 0.8	15.5 ± 0.8	26.5 ± 2.2	25.0 ± 1.1
SP	2.4 ± 0.2	4.6 ± 0.2	7.7 ± 0.6	7.8 ± 0.3
OO	53.4 ± 5.2	100.0 ± 5.3	205.1 ± 24.2	211.6 ± 19.7
OL	23.9 ± 2.3	45.2 ± 2.4	87.4 ± 10.0	94.4 ± 9.4
LL	9.2 ± 0.9	17.4 ± 0.9	30.0 ± 2.9	34.2 ± 3.1
PL	19.1 ± 1.8	36.1 ± 1.9	63.5 ± 6.8	66.0 ± 4.5

DAG data are expressed as nanomole per gram. Data are represented as mean ± SEM (*n* = 8–12 per group).

Table S3. Hepatic ceramides species from WT and KO mice fed either RC or a HFD at 12 wk of age

Species	WT (RC)	KO (RC)	WT (HFD)	KO (HFD)
C16	21.8 ± 0.7	21.0 ± 0.9	34.0 ± 2.3	37.5 ± 1.7
C18	3.5 ± 0.2	3.4 ± 0.2	9.1 ± 0.9	10.7 ± 0.6
C20	22.6 ± 1.1	24.2 ± 1.8	136.6 ± 18.3	200.4 ± 12.6
C22	78.3 ± 5.2	86.9 ± 3.3	114.6 ± 8.1	103.4 ± 8.0
C24:1	32.2 ± 0.8	33.6 ± 0.9	29.0 ± 2.2	31.3 ± 1.8
C24	31.0 ± 1.5	35.6 ± 1.2	23.2 ± 1.3	20.5 ± 0.7

Ceramides data are expressed as nanomole per gram. Data are represented as mean ± SEM (*n* = 8–12 per group).

Table S4. Muscle ceramides species from WT and KO mice fed either RC or a HFD at 12 wk of age

Species	WT (RC)	KO (RC)	WT (HFD)	KO (HFD)
C16	17.3 ± 1.8	17.0 ± 2.3	9.4 ± 0.6	11.9 ± 0.7
C18	4.6 ± 0.4	4.6 ± 0.6	52.7 ± 0.9	52.2 ± 1.9
C20	4.0 ± 0.3	4.2 ± 0.5	33.3 ± 5.6	52.4 ± 9.0
C22	42.4 ± 4.5	45.6 ± 6.3	20.0 ± 2.1	25.6 ± 3.3
C24:1	21.6 ± 2.1	22.0 ± 3.0	16.5 ± 2.0	16.9 ± 1.9
C24	22.5 ± 2.2	23.6 ± 3.2	13.8 ± 1.8	13.8 ± 1.7

Ceramides data are expressed as nanomole per gram. Data are represented as mean ± SEM ($n = 8-12$ per group).