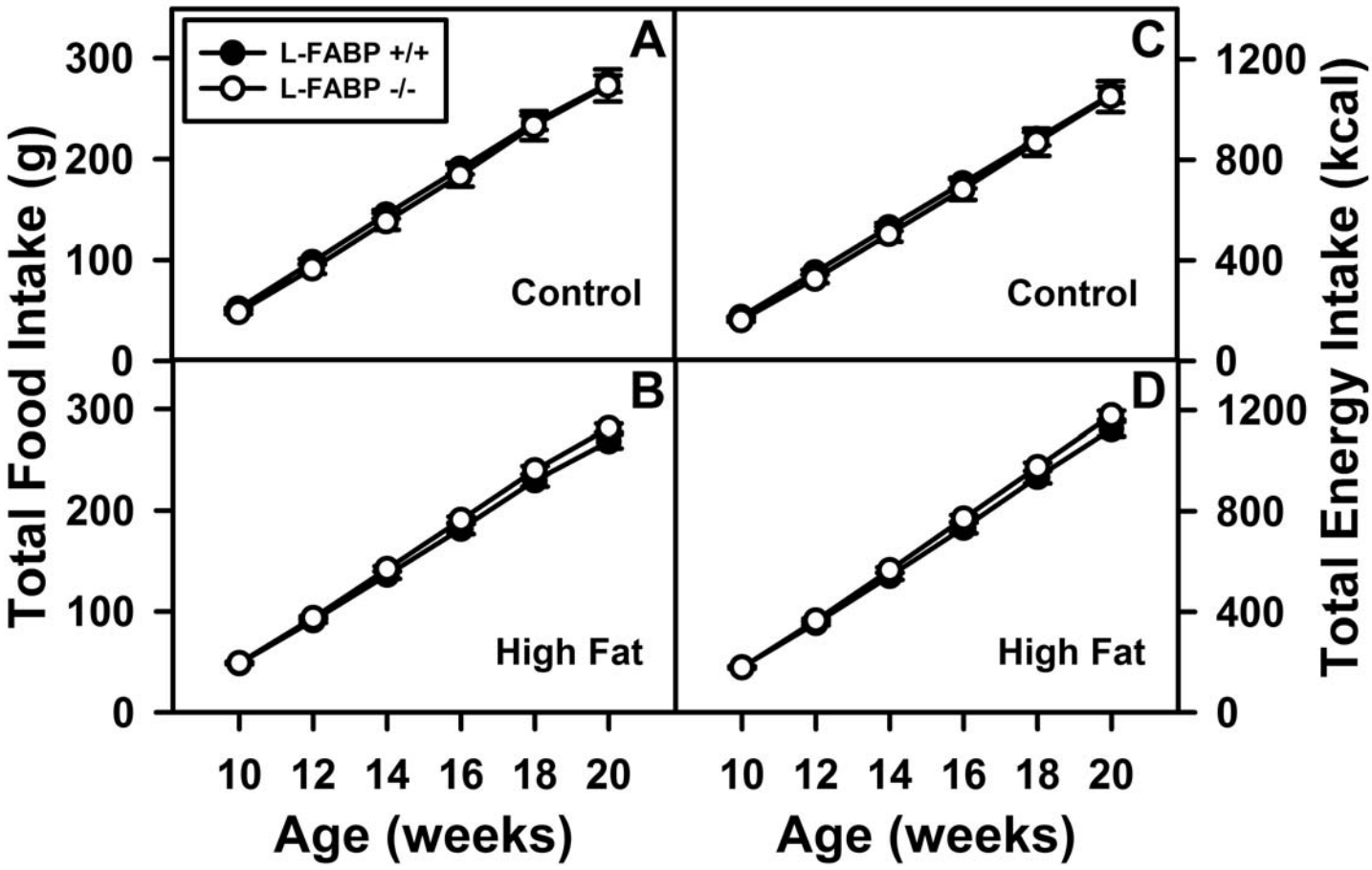
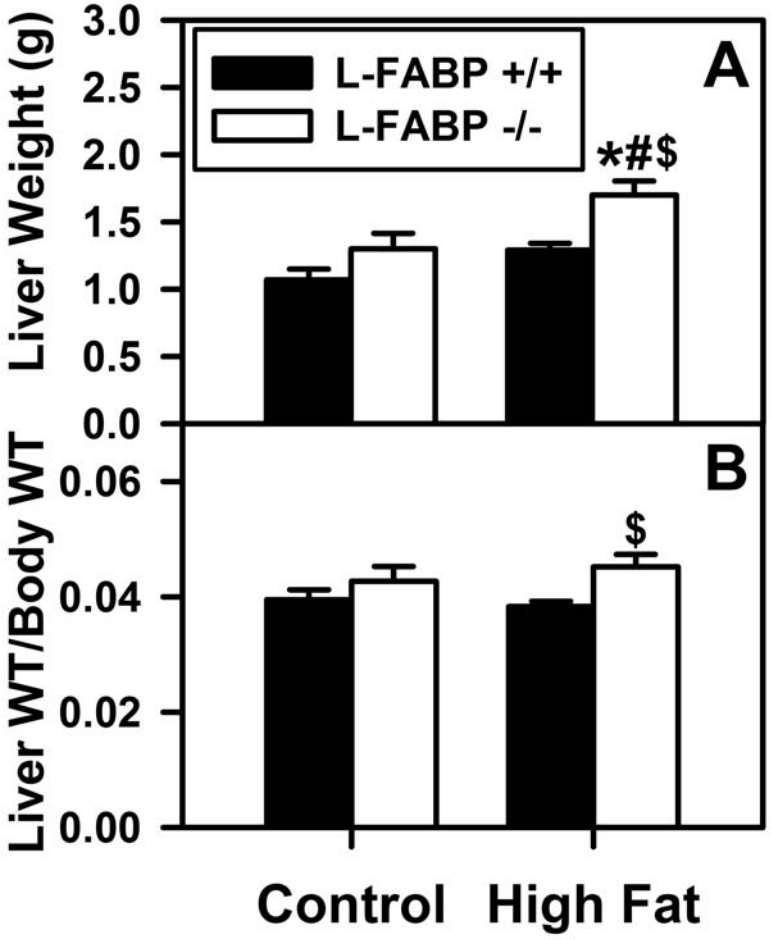
SUPPLEMENTARY FIGURE LEGENDS

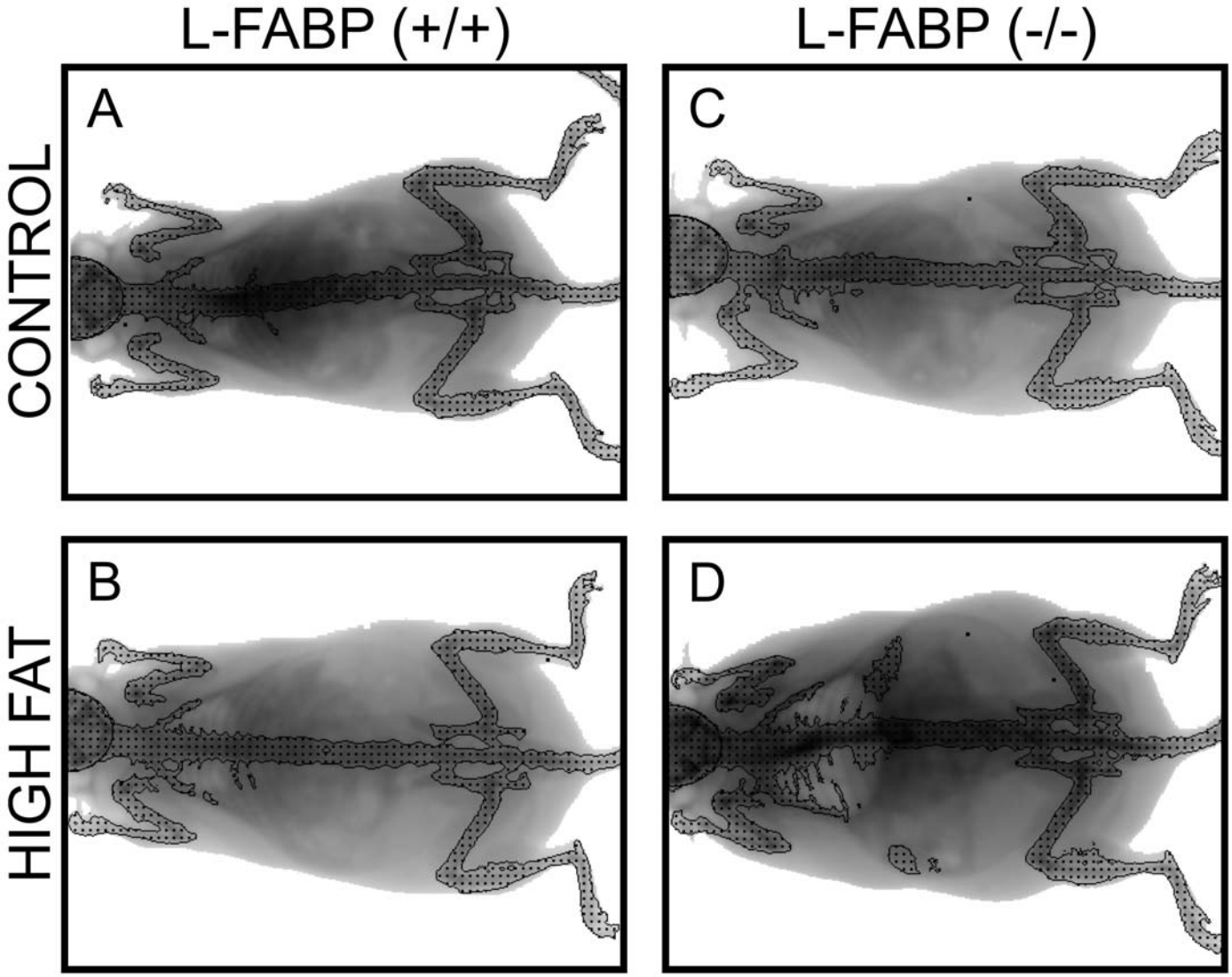
Supplementary Figure 1. Food consumption of L-FABP (+/+) and L-FABP gene-ablated mice fed control and high-fat diets made available *ad libitum*. Cumulative food consumption was plotted bi-weekly for L-FABP (+/+) (solid circles) and L-FABP (-/-) (open circles) mice on control diet **(A)** and high fat diet **(B)** fed *ad libitum*. As before, the accumulated caloric intake was plotted bi-weekly for the *ad libitum* fed L-FABP (+/+) (solid circles) and L-FABP (-/-) (open circles) mice on control diet **(C)** and high fat diet **(D)**. Statistical analysis performed by Student's *t*-test with significance $p \leq 0.05$ represented by *.

Supplementary Figure 2. Effect of L-FABP gene-ablation and high-fat diet on body liver weight and liver weight/body weight in *ad libitum*-fed mice. At the end of the 12 wk dietary study, livers were removed as described in the Methods. The liver weight **(A)** and liver weight per body weight gain **(B)** for L-FABP (+/+) (solid bars) and L-FABP (-/-) (open bars) *ad libitum*-fed control and high-fat diets. Values represent the mean ± SEM, n=5-8. Statistical analysis performed by one-way ANOVA with Bonferroni post-tests. The significance was as follows: * $p \leq 0.05$ as compared to L-FABP (+/+) control diet; # as compared to L-FABP (-/-) control diet; and $ as compared to L-FABP (+/+) high-fat diet.

Supplementary Figure 3. Dual emission X-ray absorptiometry (DEXA) images of L-FABP (+/+) and (-/-) female *ad libitum*-fed mice. DEXA was performed at the beginning and end of the 12 wk *ad libitum*-fed study. Representative images were selected from the end of the study and show representative *ad libitum*-fed female mice as follows: **(A)** L-FABP (+/+) on control diet, **(B)** L-FABP (+/+) on high-fat diet, **(C)** L-FABP (-/-) on control diet, and **(D)** L-FABP (-/-) on high-fat diet.


L-FABP +/+
L-FABP -/-
A
B
C
D
Control
High Fat
Control
High Fat
Total Food Intake (g)
Total Energy Intake (kcal)
0
100
200
300
400
800
1200
10 12 14 16 18 20
Age (weeks)
Age (weeks)


Liver Weight (g)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
L-FABP +/+
L-FABP -/-
A
*#$
Liver WT/Body WT
0.06
0.04
0.02
0.00
B
$
Control
High Fat


L-FABP (+/+)
L-FABP (-/-)
CONTROL
HIGH FAT
A
B
C
D