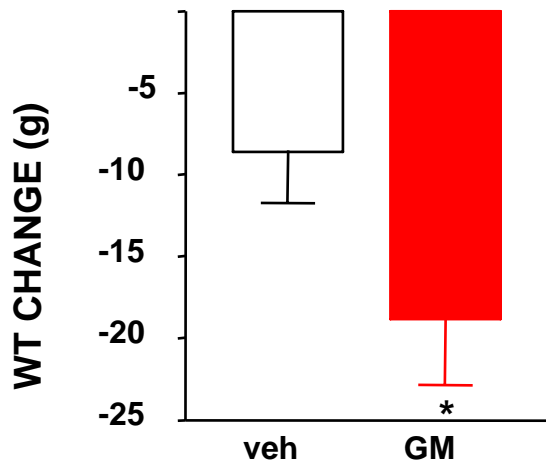
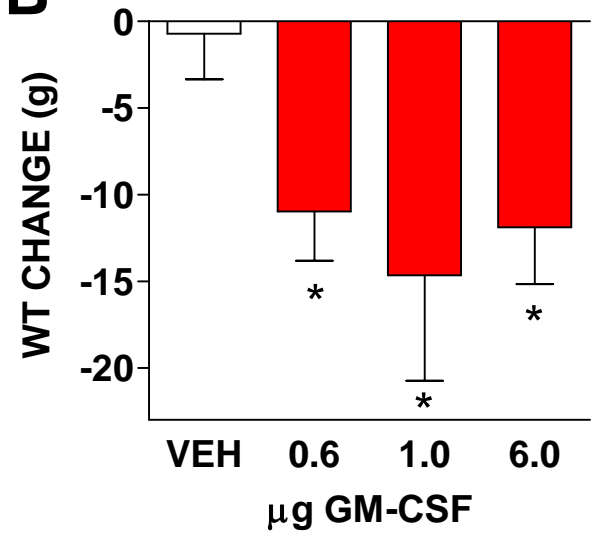
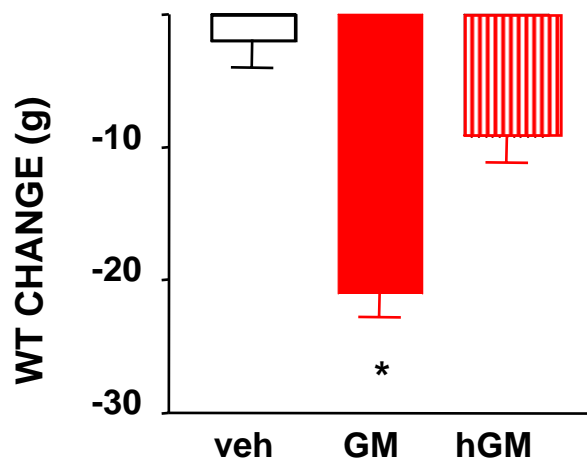
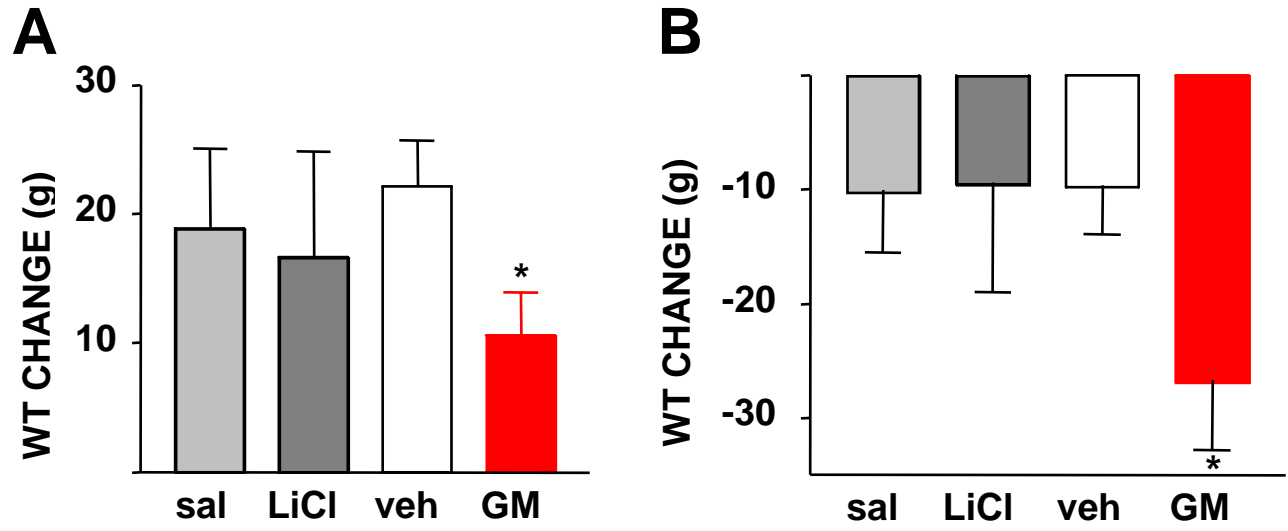


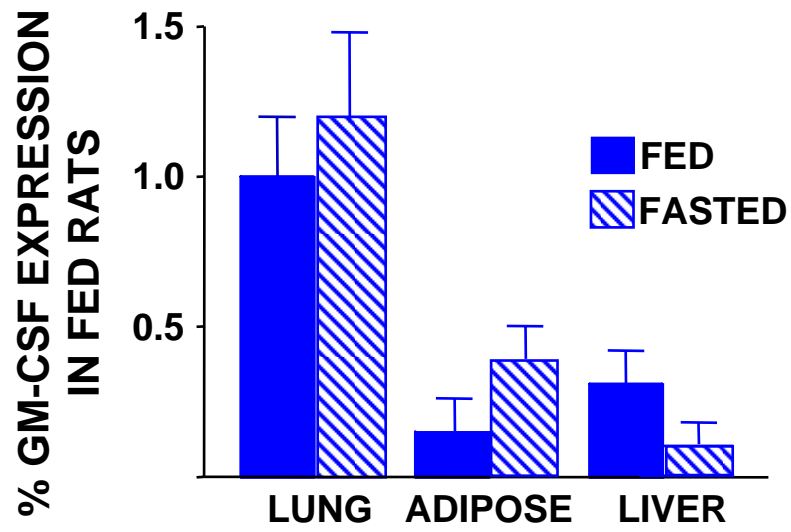
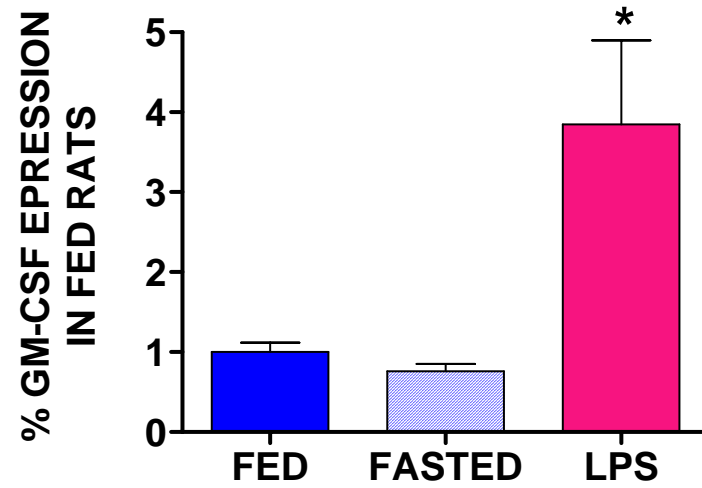
SUPPLEMENTAL FIGUR E 1

A**B****C**

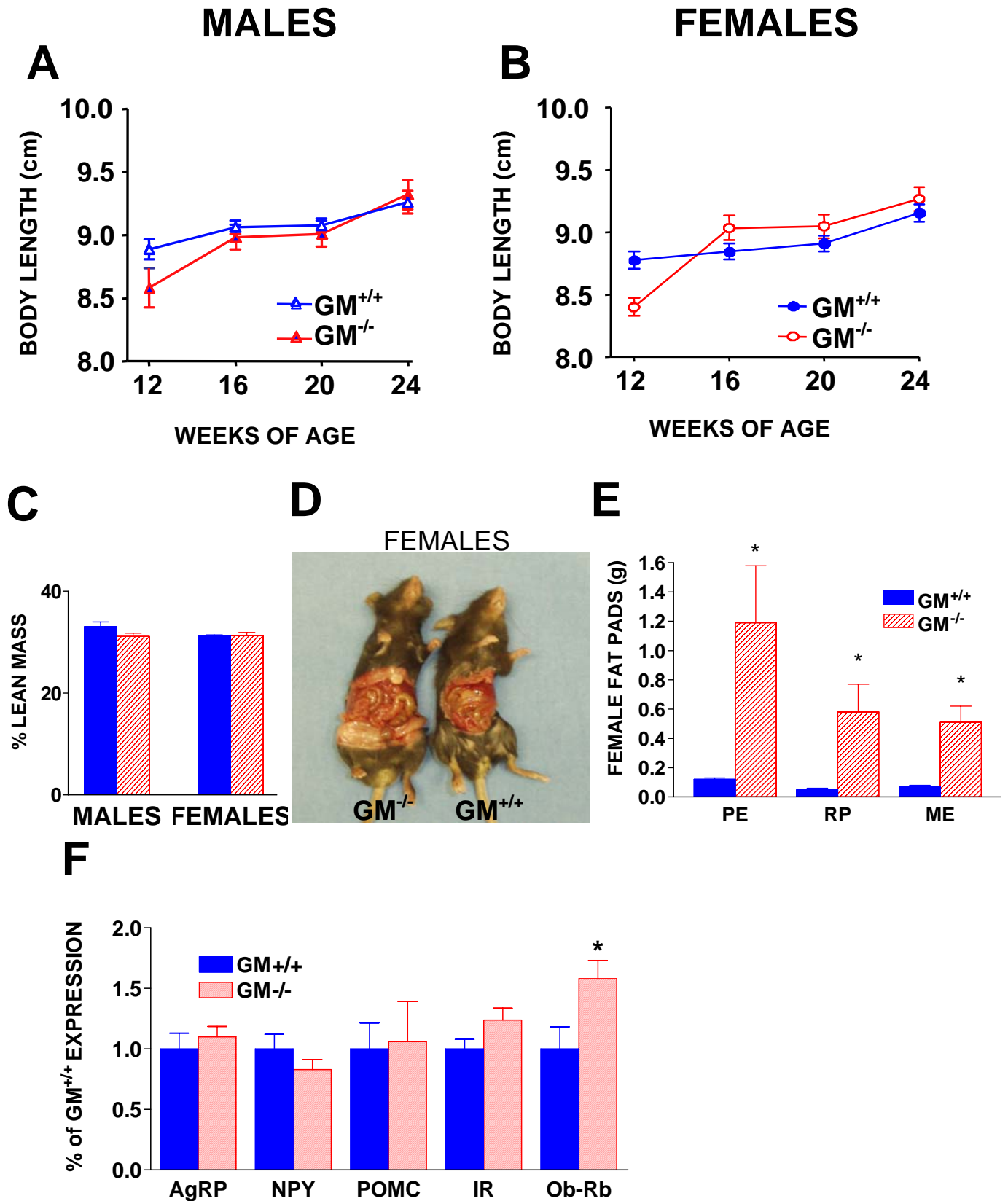
SUPPLEMENTAL FIGURE 2



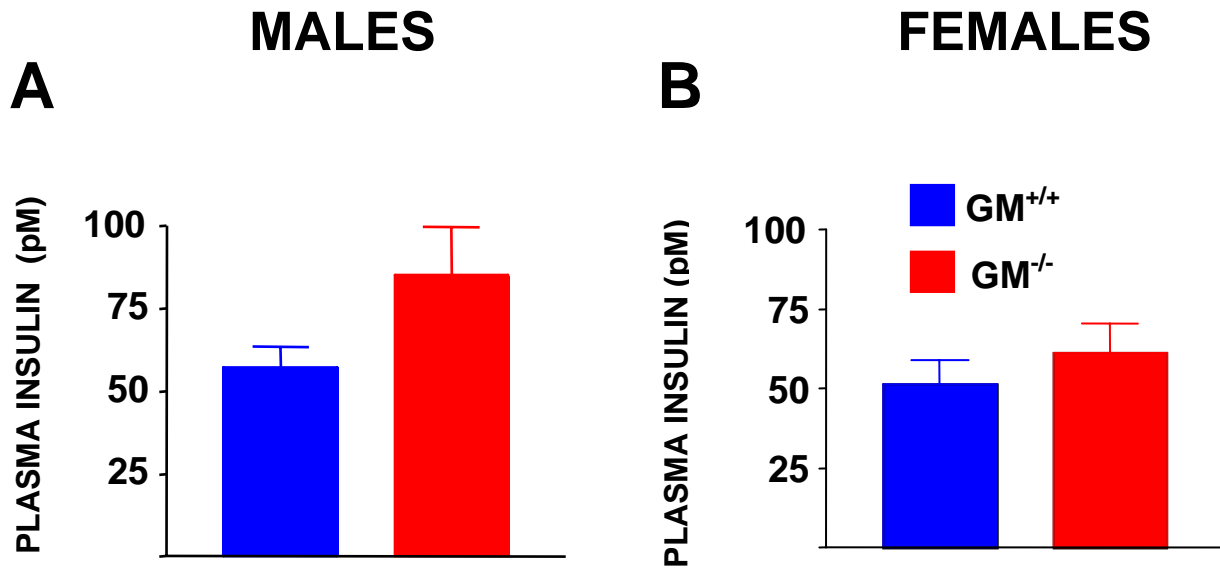
SUPPLEMENTAL FIGURE 3

A**B**

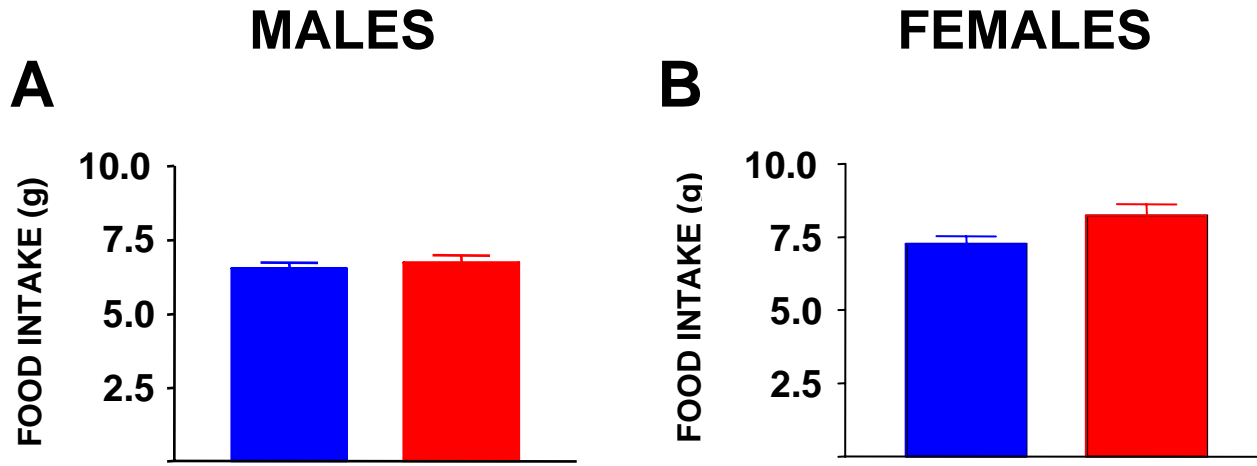
SUPPLEMENTAL FIGURE 4



SUPPLEMENTAL FIGURE 5



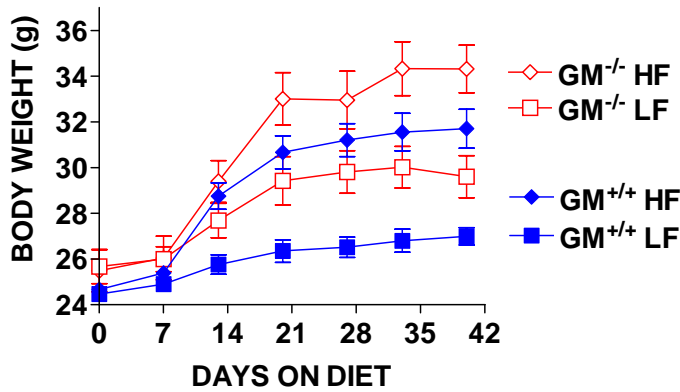
SUPPLEMENTAL FIGURE 6



SUPPLEMENTAL FIGURE 7

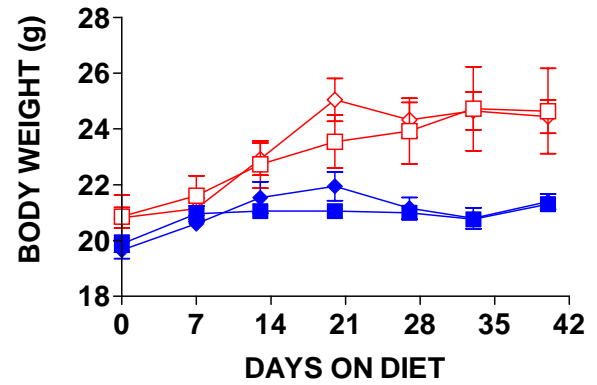
MALES

A

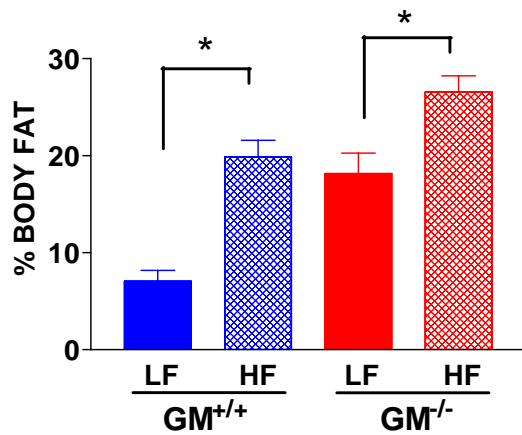


FEMALES

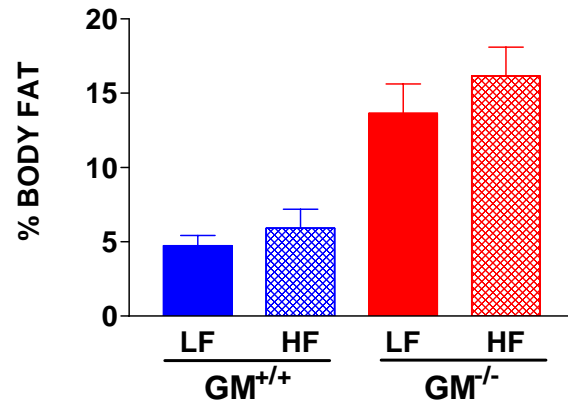
B



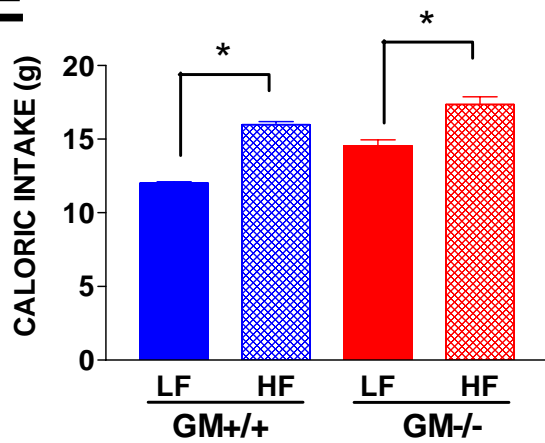
C



D



E



F

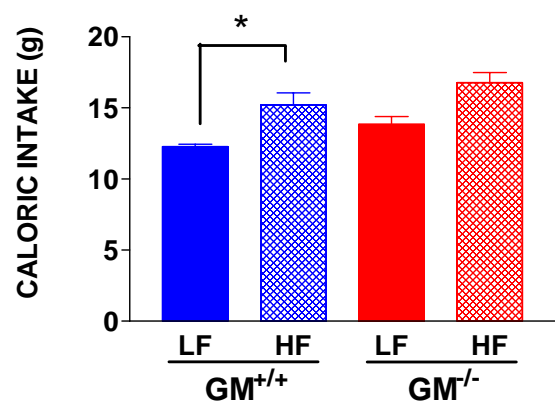


Figure Legends for Supplemental Figures

Supplemental Figure 1

GM-CSF injections in rats. **(A)** Rats injected with 0.6 μg i3vt GM-CSF (GM) had a greater decrease in body weight at 24 h post-injection, compared with rats receiving i3vt vehicle (veh) injection. **(B)** Body weight loss in rats injected with 0.6, 1.0, or 6.0 μg did not differ significantly at any time point, as shown here at 48 h post-injection. **(C)** Rats receiving 0.6 μg rat GM-CSF had significantly greater change in body weight at 24 h post-injection, compared to vehicle- and human GM-CSF- (hGM) injected rats. Rats receiving 0.6 μg hGM did not differ significantly from vehicle-treated rats. (* $p < 0.05$, all groups $N = 7$ to 9, mean \pm SEM.)

Supplemental Figure 2

Food intake and body weight associated with sodium appetite test. Following sodium appetite test, **(A)** food intake in rats receiving i3vt GM-CSF (0.6 μg) was significantly decreased and **(B)** body weight change was significantly greater, compared to i3vt vehicle-treated or i.p. saline- (sal) or lithium chloride (LiCl)-treated groups. (* $p < 0.05$, all groups $N = 7$ to 9, mean \pm SEM.)

Supplemental Figure 3

GM-CSF mRNA expression. **(A)** Peripheral GM-CSF expression in ad lib-fed and 48-h fasted rats. Semi-quantitative RT-PCR for GM-CSF detected transcripts in lung, adipose, and liver RNA from fasted and fed rats. GM-CSF was normalized to housekeeping gene

L32, and mean value of GM-CSF in fed lung was set at 1. Expression in fasted lung and other tissues is expressed relative to that of fed lung. GM-CSF RNA accumulation did not differ significantly between groups. (n = 5 to 8) **(B)** GM-CSF expression was measured by Q-PCR in hypothalamus from fed, 48 h-fasted, or fed LPS-treated rats. Compared to expression in fed animals, GM-CSF expression was not significantly decreased in fasted animals and was increased in animals injected with LPS

Supplemental Figure 4

Characterization of age- and sex-matched GM^{-/-} and GM^{+/+} mice. Body lengths of **(A)** male and **(B)** female GM^{-/-} and GM^{+/+} mice differed slightly at 12 weeks, but were similar at all other time points. (*p<0.05, n = 7-9, mean ± SEM). **(C)** The lean mass as a percent of total body weight was similar in all mice. **(D)** Visceral fat was visibly increased in female GM^{-/-} mice, compared to GM^{+/+} control mice. **(E)** Weights of parametrial (PE), retroperitoneal (RE), and mesenteric (ME) fat pads were increased in female GM^{-/-} mice compared to GM^{+/+} control mice. (*p<0.05, n = 4, mean ±SEM) **(F)** NPY, AgRP, POMC, insulin receptor mRNA expression was similar and LepR expression was increased in GM^{-/-} and GM^{+/+} hypothalamus. (*p<0.05, n=8, mean ±SEM)

Supplemental Figure 5

Plasma insulin levels. Plasma insulin levels in **(A)** male and **(B)** female GM^{-/-} mice did not differ significantly from those in sex-matched GM^{+/+} controls. (n = 7 to 11)

Supplemental Figure 6

Post-fasting food intake and high- or low-fat diet intake. Following a 24 h fast, food intake during 24 h re-feeding period did not differ between $GM^{-/-}$ and $GM^{+/+}$ male (A) and female (B) mice. (n = 7 to 11)

Supplemental Figure 7

Effects of high and low fat diets. Male and female $GM^{-/-}$ and $GM^{+/+}$ mice were placed on low or high fat diets for a period of 5 weeks. Body weights in (A) male $GM^{-/-}$ mice were higher than in sex-matched $GM^{+/+}$ mice on either diet, while fat composition of the diets had little effect in (B) female $GM^{-/-}$ mice. (C) Body fat was increased proportionally in $GM^{-/-}$ and $GM^{+/+}$ males, while (D) $GM^{-/-}$ females had increased body fat independent of dietary fat content. $GM^{+/+}$ females on low and high fat diets had similar amounts of body fat. (E) Caloric intake was significantly increased in $GM^{+/+}$ and $GM^{-/-}$ male mice consuming a high fat diet, compared to a low fat diet. (F) $GM^{+/+}$ female mice consumed more calories on a high fat diet but $GM^{+/+}$, but caloric intake of $GM^{-/-}$ female groups did not differ significantly on low or high fat diets. (*p<0.05, n = 8 to 10, mean \pm SEM)