SUPPLEMENTARY DATA

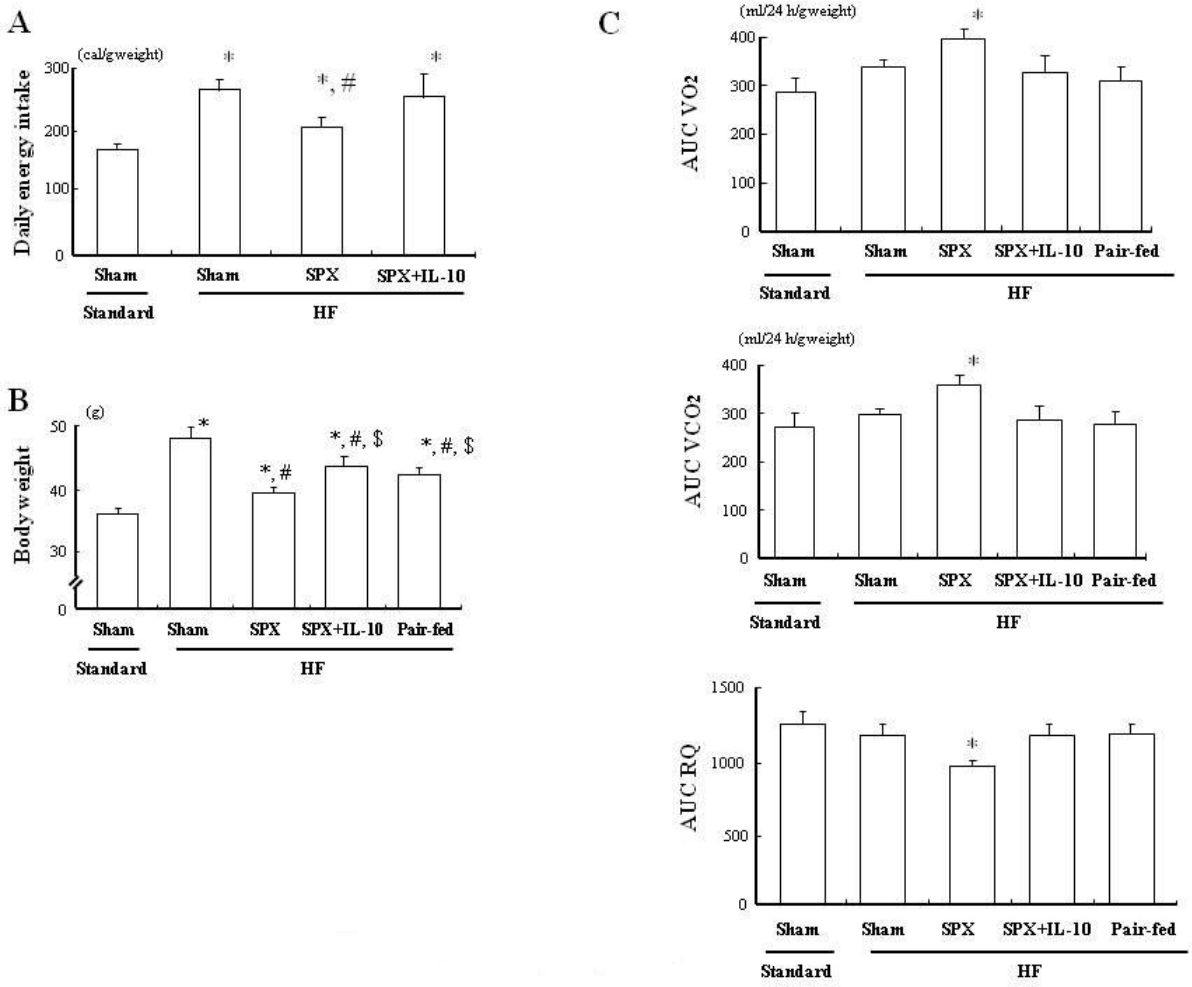
Supplementary Table 1. Splenectomy (SPX) induces catabolic effects.
Daily food intake, body weight, epididymal white adipose tissue (WAT), area under the curve of oxygen consumption (AUC-VO_2), carbon dioxide production (VCO_2), respiratory quotient (RQ), serum triglycerides (TGs), free fatty acids (FFAs), total cholesterol (TC), adiponectin, and alanine transaminase (ALT) levels in each group (n = 6). *P < 0.05 vs. Sham group. Treatment groups: standard-sham, fed a standard chow and given a sham operation; standard-SPX, fed a standard chow and given a splenectomy.

	Standard-Sham	Standard-SPX
Daily food intake (cal/g weight)	182.8 ± 14.8	148.3 ± 10.7 *
Body weight (g)	48.4 ± 3.2	40.3 ± 2.2 *
Epididymal WAT (g)	13.8 ± 1.16	10.8 ± 1.11 *
AUC VO2 (ml/24 h/g weight)	277.3 ± 52.4	452.7 ± 40.5 *
AUC VCO2 (ml/24 h/g weight)	255.3 ± 47.7	375.4 ± 42.7 *
AUC RQ	1289 ± 144	1007 ± 127 *
Serum ALT level (IU/dl)	29.2 ± 4.5	43.4 ± 3.1 *
Serum TG level (mg/dl)	39.3 ± 2.6	48.6 ± 3.5 *
Serum FFA level (mEq/l)	178.1 ± 144	208.3 ± 10.5 *
Serum TC level (mg/dl)	56.2 ± 8.2	58.8 ± 13.1
Serum adiponectin level (μg/ml)	7.12 ± 0.14	6.23 ± 0.13 *

SUPPLEMENTARY DATA

Supplementary Figure 1. Systemic administration of interleukin (IL)-10 suppresses splenectomy (SPX)-induced catabolic effects.

Daily food intake (A), body weight (B), and area under the curve of oxygen consumption (AUC-VO_2), carbon dioxide production (VCO_2), and the respiratory quotient (RQ) (C) in each group (n = 6). *P < 0.05 vs. Sham-Standard group, $^{\#}P$ < 0.05 vs. Sham-HF group, $^{\$}P$ < 0.05 vs. SPX-HF group. Treatment groups: sham-standard, fed a standard chow, administered serum albumin, and given a sham operation; sham-HF, fed a HF diet, administered serum albumin, and given a sham operation; SPX-HF, fed a HF diet, administered serum albumin, and given a splenectomy; SPX+IL-10-HF, fed a HF diet, administered IL-10, and given a splenectomy; Pair-fed, administered serum albumin, given a sham operation, and fed the amount of food consumed by the SPX-HF group.



SUPPLEMENTARY DATA

Supplementary Figure 2. Splenectomy (SPX) has little effect on glucose metabolism in IL-10-deficient mice.

Blood glucose (top) and plasma insulin (bottom) levels during the glucose tolerance tests in each group of IL-10KO mice (n = 6). *P < 0.05 vs. Sham-HF and SPX-HF group. Treatment groups: sham, administered serum albumin and given a sham operation; SPX, administered serum and given a splenectomy; SPX+IL-10, administered recombinant mouse IL-10 and given a splenectomy.