Supplemental Figure Legends

Supplemental Figure 1

a) Body weight of Control$^{\Delta per}$ (black bars; n = 24 - 44), IR$^{\Delta per}$ (white bars; n = 12 - 42), Control$^{\Delta wb}$ (grey bars; n = 4 - 28) and IR$^{\Delta wb}$ (striped bars n = 6 - 17) mice over 30 days. Average weight of mice before tamoxifen administration (day 0) was set to 100%. Values are mean ± SEM. **$P \le 0.01$, ***$P \le 0.001$ versus control.

b) Glucose tolerance tests in 13-week-old Control$^{\Delta per}$ (filled squares, n = 18) and IR$^{\Delta per}$ (open squares; n = 19) mice. Blood glucose concentrations were measured immediately before and 15, 30, 60 and 120 minutes after injection of 2 g/kg of glucose. Data represent the mean ± SEM. *$P \le 0.05$, ***$P \le 0.001$ versus Control.

c) Glucose tolerance tests in 13-week-old Control$^{\Delta wb}$ (grey triangles; n = 9) and IR$^{\Delta wb}$ (open triangles; n = 13) mice. Blood glucose concentrations were measured immediately before and 15, 30, 60 and 120 minutes after injection of 2 g/kg of glucose. Data represent the mean ± SEM. *$P \le 0.05$, ***$P \le 0.001$ versus Control.
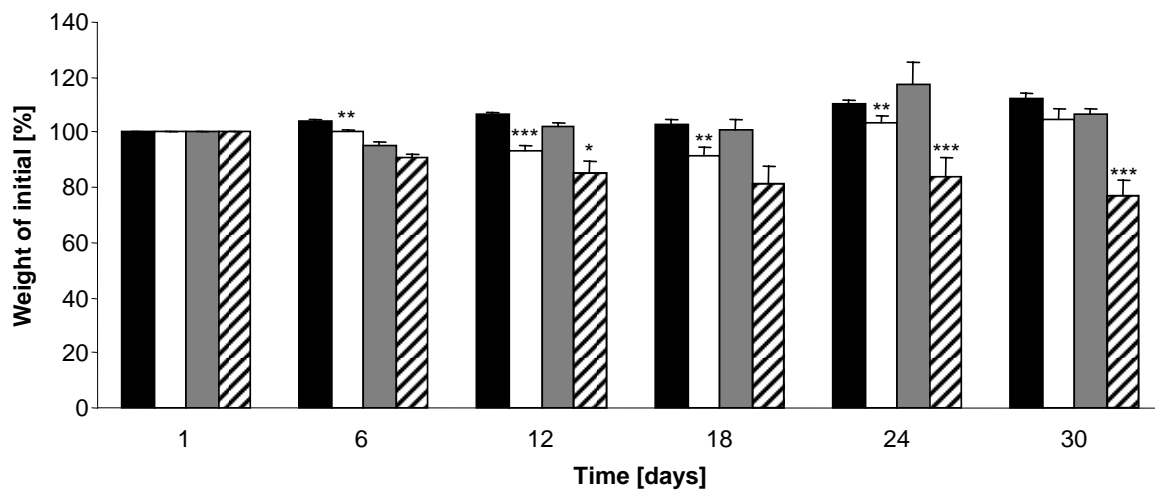
Supplemental Figure 2

a) Total serum leptin levels of Control$^{\Delta wb}$ (grey bars; n = 5) and IR$^{\Delta wb}$ mice (striped bars; n = 5) receiving a chronic infusion of leptin at a rate of 12 µg per day. Blood samples were taken 2, 4, 6 and 7 days after the subcutaneous implantation of an osmotic mini-pump. Mice had been administered doxycycline for 16 days prior to pump implantation. Values are mean ± SEM.
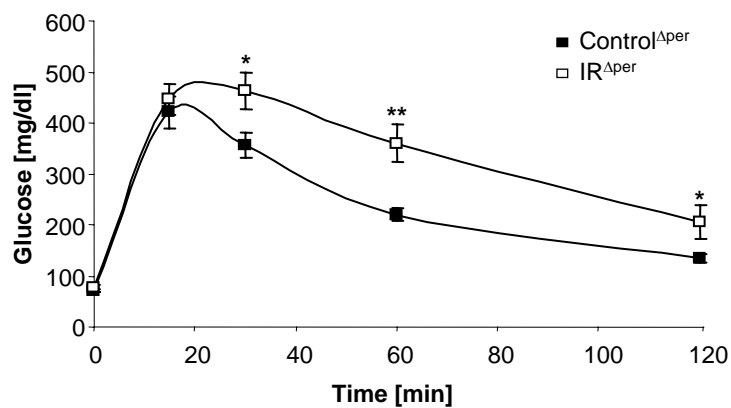
b) Plasma insulin concentrations in 14-week-old Control$^{\Delta per}$ (black bars; n = 14 – 24), IR$^{\Delta per}$ (white bars; n = 13 - 23), Control$^{\Delta wb}$ (grey bars; n = 5) and IR$^{\Delta wb}$ (striped bars; n = 4 - 5) mice over 30 days. Data represent the mean ± SEM. ***$P \leq 0.001$ versus control.
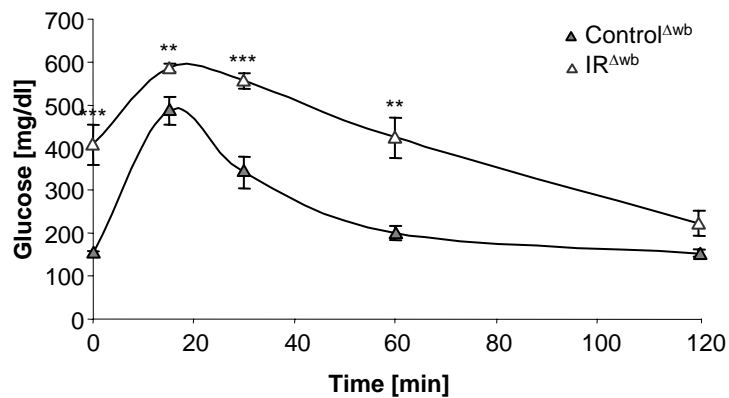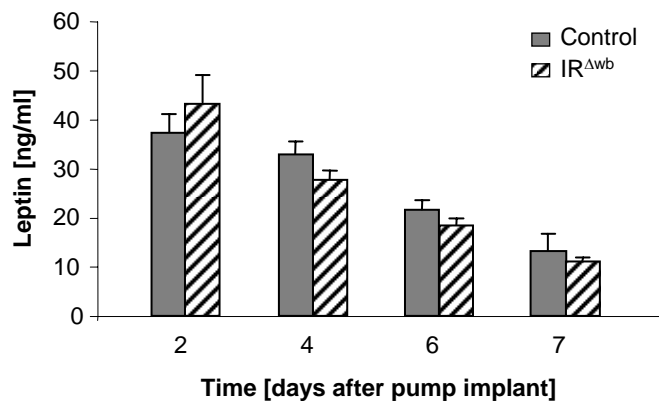
Koch et. al., Supplemental Fig. 1

a

b

c

a

b