**Figure S1**

**A, Fed state**

Blood glucose (mmol/L) over weeks for NC and HFD groups. Bars indicate statistically significant differences. (mins)

**B, ip-GTT**

Blood glucose (mmol/L) over time for NC and HFD groups. Bars indicate statistically significant differences. (weeks)

**C, ip-ITT**

Blood glucose (mmol/L) over time for NC and HFD groups. Bars indicate statistically significant differences. (mins)

**D, White adipose tissue (WAT) and Brown adipose tissue (BAT)**

Images of WAT and BAT for NC and HFD groups with adipocyte size indicated. Bars indicate statistically significant differences.

**E, Plasma insulin (ng/mL)**

Plasma insulin levels over weeks for NC and HFD groups. Linear regression line with equation and statistical information provided.

**F, Linear regression**

Plasma NE (ng/mL) against Plasma Insulin (ng/mL) with linear regression equation and statistical information provided.