SUPPLEMENTAL FIGURE 2

**a** Fat mass (g) comparison between SD and HFD groups in females. Significant differences are indicated by asterisks (*p < 0.05, ****p < 0.0001).

**b** Lean mass (g) comparison between SD and HFD groups in females. No significant differences were observed (ns).

**c** Liver (g) comparison between SD and HFD groups in females. No significant differences were observed (ns).

**d** Intrascapular BAT (g) comparison between SD and HFD groups in females. Significant differences are indicated by asterisks (***p < 0.001, ****p < 0.0001).

**e** Adipocyte diameter distribution in female SWAT - HFD. ERα f/f and Adi-ERαKO groups are compared.

**f** % Estradiol Plasma (pg/mL) comparison between ERα f/f and Adi-ERαKO groups in females. No significant differences were observed (ns).