



Supplementary Figure 1. Female HCD-fed SOCS3 knockout and control mice both exhibited impaired glucose clearance in response to a 1.5 g/kg i.p. glucose challenge (**A**, **B**) and elevated total abdominal fat mass (**C**) compared to their LCD-fed knockout and control counterparts (n=6-10 per group). Glucose tolerance was tested after 120 days of HCD treatment whereas abdominal fat mass was measured after 225 days of HCD treatment. There were no treatment effects on plasma estradiol and total testosterone concentrations after 120 days of HCD treatment in female mice (**D**) (n=5-8 per group). *, $p < 0.05$ and ***, $p < 0.001$.