

Supplemental Figures

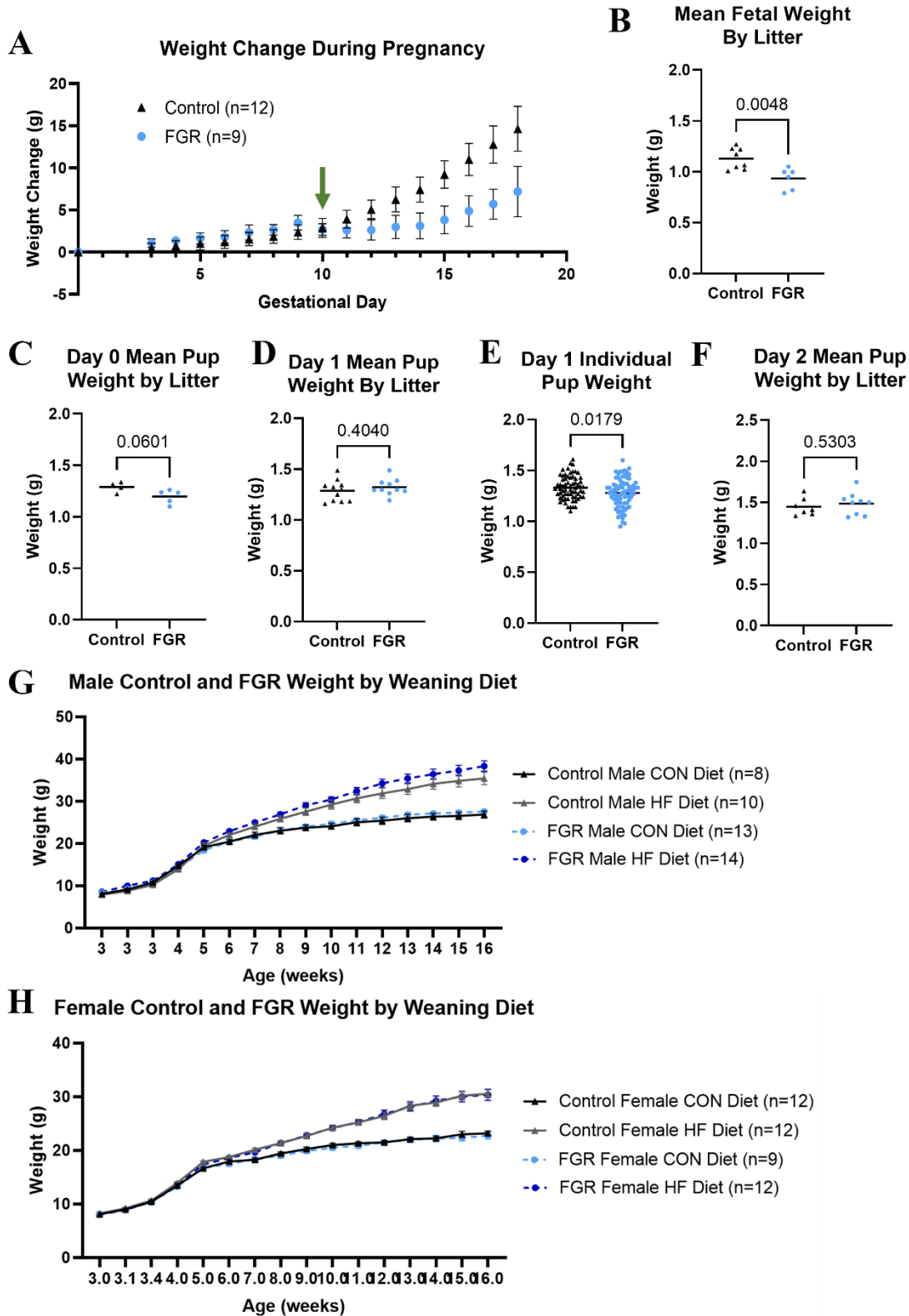


Figure S1: Weight of dams and offspring. (A) Weight gain of pregnant dams in the control (ad lib) versus FGR (calorie restricted) groups. (B) Mean fetal weight by litter at gestational day 18.5 and (C) day of life 0. (D) Mean fetal weight by litter and (E) individual fetal weights at day of life 1. (F) Mean offspring weight by litter at day of life 2. Offspring weight from age 3 to 16 weeks for (G) male and (H) female control and FGR offspring fed control (CON) and high fat (HF) diet.

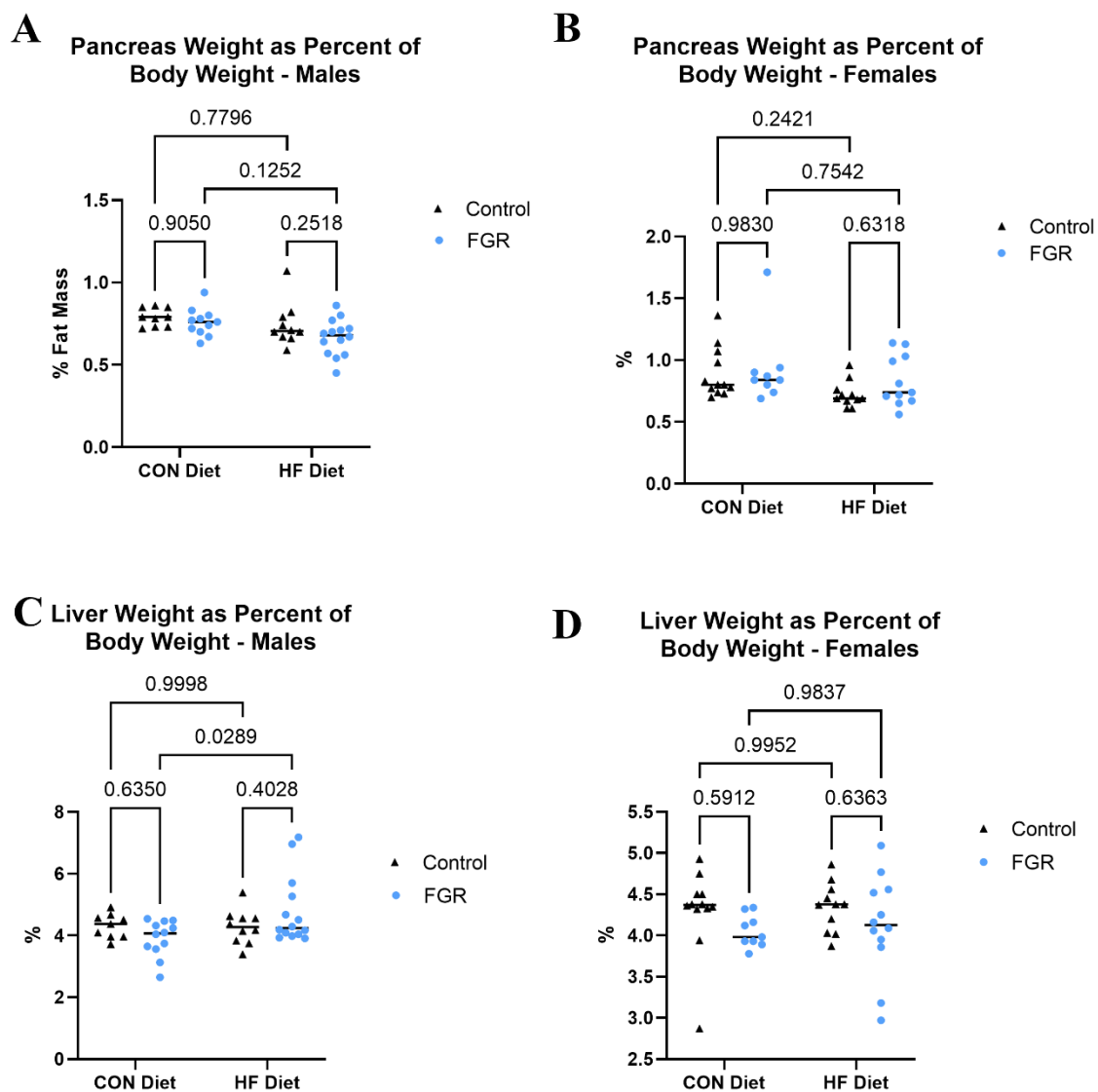


Figure S2: Organ weights in 16-18 week-old control and FGR offspring fed control (CON) or high fat (HF) diet. (A,B) Pancreas weight as percent of body weight in male and female offspring. **(C,D)** Liver weight as percent of body weight in male and female offspring.

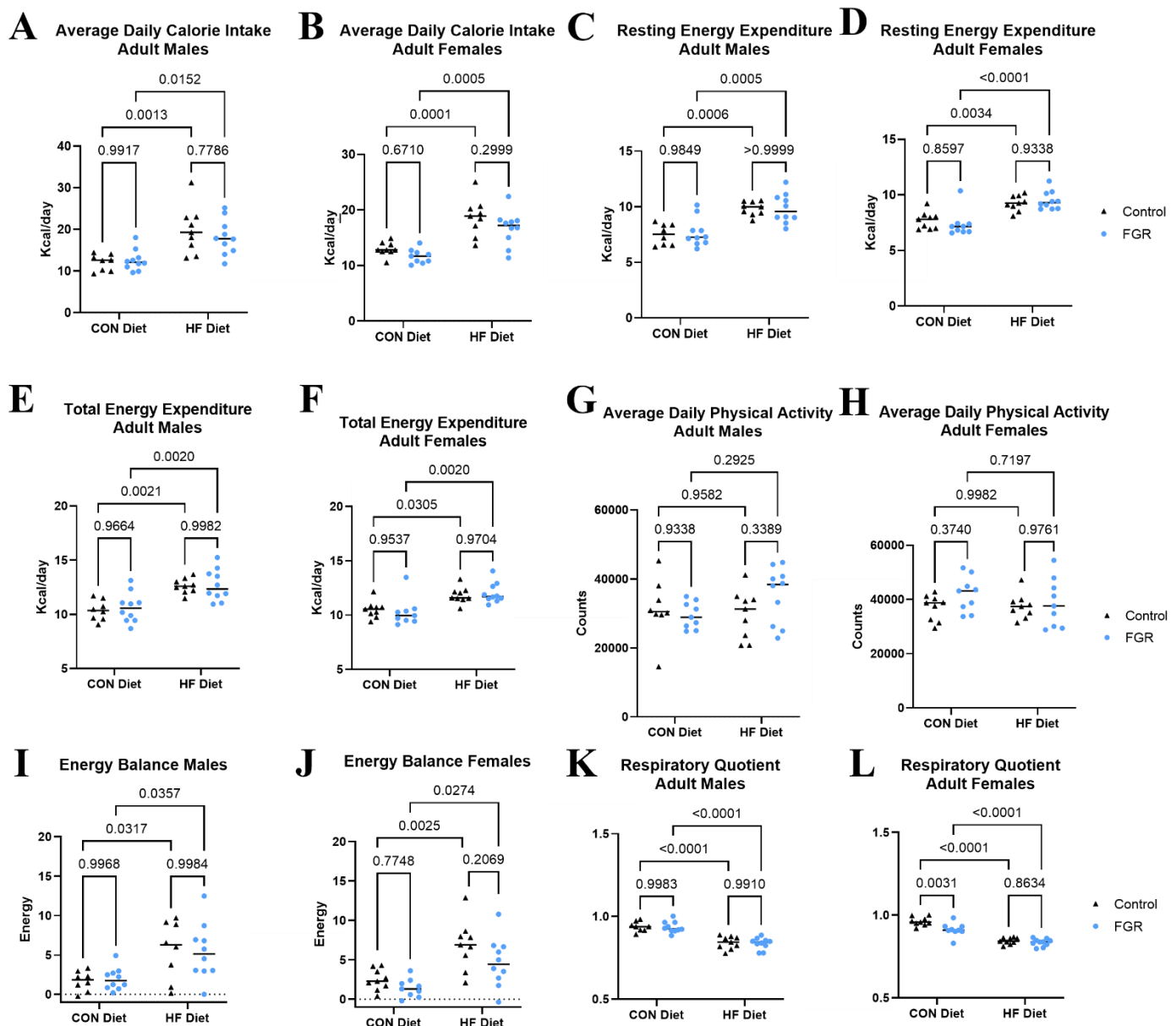


Figure S3: Whole body calorimetry studies for 16-week-old control and FGR offspring fed control (CON) or high fat (HF) diet. (A,B) Mean daily calorie intake for male and female offspring. **(C,D)** Resting energy expenditure for male and female offspring. **(E,F)** Total energy expenditure for male and female offspring. **(G,H)** Mean daily total physical activity for male and female offspring. **(I,J)** Energy balance, calculated as total calorie intake minus total energy expenditure, for male and female offspring. **(K,L)** Respiratory quotient for male and female offspring.

<i>p-values</i>	Males			Females		
	Diet	Growth	Interaction	Diet	Growth	Interaction
Fasting Glucose	0.0003	0.818	0.485	0.016	0.724	0.650
Fasting Insulin	0.0001	0.199	0.2011	0.042	0.114	0.390
Homeostatic Model Assessment for Insulin Resistance (HOMA-IR)	<0.0001	0.080	0.063	0.004	0.018	0.085
Area Under the Glucose Tolerance Curve	<0.0001	0.066	0.016	<0.0001	0.133	0.612
Glucose at 150 minutes	0.002	0.039	0.038	<0.0001	0.875	0.461

Table S1: P-values (ANOVA) for glucose tolerance testing based on weaning diet, intrauterine growth, and the interaction between the two factors.