SUPPLEMENTARY DATA

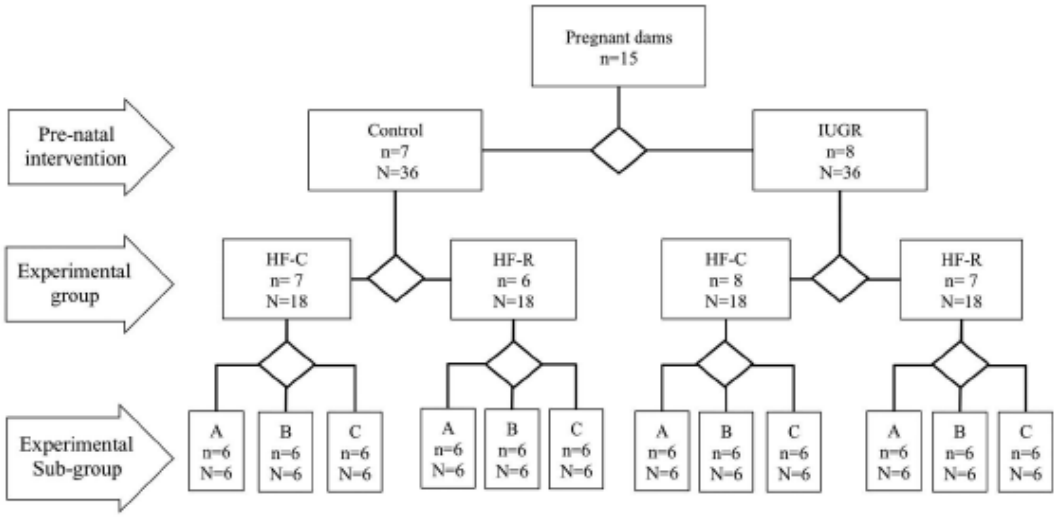
Supplementary Table 1. Organ and fat depot weights in control and IUGR rats fed high fat diet with or without resveratrol (Resv).

	High fat diet		High fat diet + Resv		2-way ANOVA		
	Control	**IUGR**	**Control**	**IUGR**	**IUGR**	**Resv**	**Int**
Liver weight (g)	22.8 ± 1.6	21.3 ± 1.1	21.4 ± 1.5	19.9 ± 1.3			
Liver relative weight (mg • g body weight^{-1})	33.4 ± 1.1	32.6 ± 1.5	32.8 ± 0.7	32.5 ± 1.0			
Heart weight (g)	2.68 ± 0.11	2.71 ± 0.10	2.58 ± 0.08	2.46 ± 0.09			
Heart relative weight (mg • g body weight^{-1})	3.98 ± 0.22	4.15 ± 0.26	4.00 ± 0.13	4.07 ± 0.25			
Pancreas weight (g)	1.36 ± 0.03	1.15 ± 0.08	1.26 ± 0.07	1.30 ± 0.16			
Pancreas relative weight (mg • g body weight^{-1})	2.02 ± 0.1	1.76 ± 0.13	1.96 ± 0.14	2.13 ± 0.27			
Spleen weight (g)	0.95 ± 0.05	1.01 ± 0.07	0.94 ± 0.05	0.92 ± 0.05			
Spleen relative weight (mg • g body weight^{-1})	1.4 ± 0.08	1.54 ± 0.09	1.45 ± 0.03	1.51 ± 0.07			
Kidneys weight (g)	4.08 ± 0.14	3.58 ± 0.08†	3.84 ± 0.09	3.30 ± 0.08†	*	*	
Kidneys relative weight (mg • g body weight^{-1})	6.02 ± 0.15	5.48 ± 0.16	5.95 ± 0.22	5.43 ± 0.18	*		
Intra-abdominal fat (g)	73.0 ± 5.9	89.2 ± 5.5†	55.38 ± 2.18	64.9 ± 4.8†	*	*	
Intra-abdominal to total fat (%)	53.3 ± 3.9	63.0 ± 4.1†	48.8 ± 5.9	53.6 ± 5.7	*	*	
Omental fat (g)	2.95 ± 0.58	3.52 ± 0.48	2.44 ± 0.50	1.78 ± 0.18		*	*
Retroperitoneal fat (g)	35.9 ± 3.5	44.5 ± 3.6†	23.4 ± 1.0	28.7 ± 2.8†	*	*	
Epididymal fat (g)	16.2 ± 1.6	24.5 ± 1.7†	18.43 ± 2.33	18.8 ± 1.3			
Mesenteric fat (g)	16.2 ± 2.8	14.4 ± 1.2	10.2 ± 0.6	14.3 ± 1.3			*
Subdiafragmatic fat (g)	1.6 ± 0.2	2.3 ± 0.2†	1.0 ± 0.1	1.3 ± 0.2	*	*	

Measurements were made after nine weeks of HF: High fat diet with or without resveratrol (Resv) 4 g/Kg of diet,* $p<0.05$ for the respective source of variation such as intrauterine growth restriction (IUGR), Resv or their interaction (Int) using two-way ANOVA. † $p<0.05$ vs. Controls receiving the same diet after a Bonferroni post-hoc test (n=6 per group).

SUPPLEMENTARY DATA

Supplementary Figure 1. Experimental design and assignment of experimental groups. Following exposure to a normoxic (21% O_2; Control) or a hypoxic (11.5% O_2) prenatal environment that caused intrauterine growth restriction (IUGR) weaned male offspring were randomized to either high fat diet (HF-C) or high-fat diet supplemented with Resv 4 g/Kg of diet (HF-R). n= number of litters/dams in each group, N= number of offspring in each group.



Determination	Experimental sub-groups A	B	C
Body weight and food consumption	x	x	x
Determination of body composition and adiposity	x		
Insulin signaling studies		x	
Fat histology	x		
Determination of liver, muscle and plasma lipids	x		x
Indirect calorimetry and physical activity			x
Glucose and insulin tolerance tests		x	