

Table S1. Constituents of both rodent diets used in this experiment

Amino Acids	
Lysine	4.6 g/kg
Methionine and cystine	3.5 g/kg
Threonine	4 g/kg
Histidine	3.1 g/kg
Leucine	10 g/kg
Arginine	6.7 g/kg
Valine	5.6 g/kg
Isoleucine	3.8 g/kg
Phenylalanine and Tyrosine	9.9 g/kg
Tryptophan	2 g/kg
Minerals	
Calcium	8.2 g/kg
Phosphorus	6.1 g/kg
Potassium	7.3 g/kg
Iron	137.8 g/kg
Copper	23.7 g/kg
Manganese	101.3 g/kg
Zinc	101.4 g/kg
Selenium	0.1 g/kg
Magnesium	1.8 g/kg
Sodium	0.3 %
Fats	
Saturated fat	10.1 %
Mono saturated	7.5 %
% Energy carbohydrate	59 %
% Energy protein	26 %
% Energy fat	16 %
Vitamins	
Vitamin A	7,120 iu per kg
Vitamin D	200 iu per kg
Vitamin E	40.192 iu per kg
Vitamin K3	5.15 mg/kg
Folic acid	4.016 mg/kg
Niacin	10 mg/kg
Pantothenate	11.074 mg/kg
Pyridoxine	6 mg/kg
Riboflavin	5 mg/kg
Thiamine	4 mg/kg
Cobalt	0.25 mg/kg
Iodine	1.9 mg/kg
Biotin	60 ug/kg
Vitamin B12	2,136 ug/kg

Table S2. The relationship between oxidative stress and time of pairing to birth in reproductive females

	Time from pairing to birth - all reproductives			Time from pairing to birth - 2 pups			Time from pairing to birth - 8 pups		
	n	r_s	P-value	n	r_s	P-value	n	r_s	P-value
Oxidative stress marker									
Protein thiols									
Liver	28	0.081	0.68	13	0.45	0.13	15	-0.24	0.39
Heart	31	0.22	0.24	15	0.11	0.70	16	0.29	0.28
Muscle	31	0.14	0.43	14	0.04	0.89	17	0.11	0.67
Proportion of oxidised to total glutathione									
Liver	33	0.14	0.43	15	0.36	0.19	18	0.004	0.10
Heart	33	0.15	0.41	15	0.08	0.78	17	0.17	0.53
Muscle	32	0.18	0.32	15	0.33	0.23	17	-0.02	0.93
Total glutathione									
Liver	28	0.10	0.62	13	0.39	0.19	15	-0.11	0.70
Heart	33	0.23	0.20	15	0.31	0.25	18	0.21	0.41
Muscle	31	0.29	0.11	14	-0.10	0.72	17	0.51	0.04
Additional liver markers									
Carbonyls	23	-0.33	0.12	12	-0.38	0.23	11	-0.33	0.32
Superoxide dismutase	31	-0.14	0.52	12	0.14	0.68	12	-0.31	0.32
Catalase	31	-0.18	0.35	14	-0.34	0.23	17	0.02	0.94
Mitochondrial marker									
Citrate synthase	33.00	-0.02	0.9	15	-0.46	0.08	18	0.22	0.37
Aconitase/citrate synthase	33	0.3	0.1	15	0.54	0.036	18	0.005	0.98