

Table S1. Composition of diets.

	Control Diet		Low-Iron Diet	
	Concentration (gm)	mg Fe added (calculated)	Concentration (gm)	mg Fe added (calculated)
Casein	200	1.7	200	1.7
L-Cystine	3	0.0048	3	0.0048
Corn starch	397.486	0.397486	397.486	0.397486
Maltodextrin 10	132	0.1056	132	0.1056
Sucrose	100	0.08	100	0.08
Cellulose, BW200	50	5	0	0
Avucel PH101	0	0	50	0.015
Soybean oil	70	0	70	0
t-Butylhydroquinone	0.014	0.00014	0.014	0.00014
Mineral Mix S10022G	35	45	0	0
Mineral Mix S18706	0	0	35	0.56
Ferric Citrate	0	0	0	0
Vitamin Mix V10037	10	0.0009	10	0.0009
Choline Bitartrate	2.5	0.0005	2.5	0.0005

Concentrations are expressed in gm.

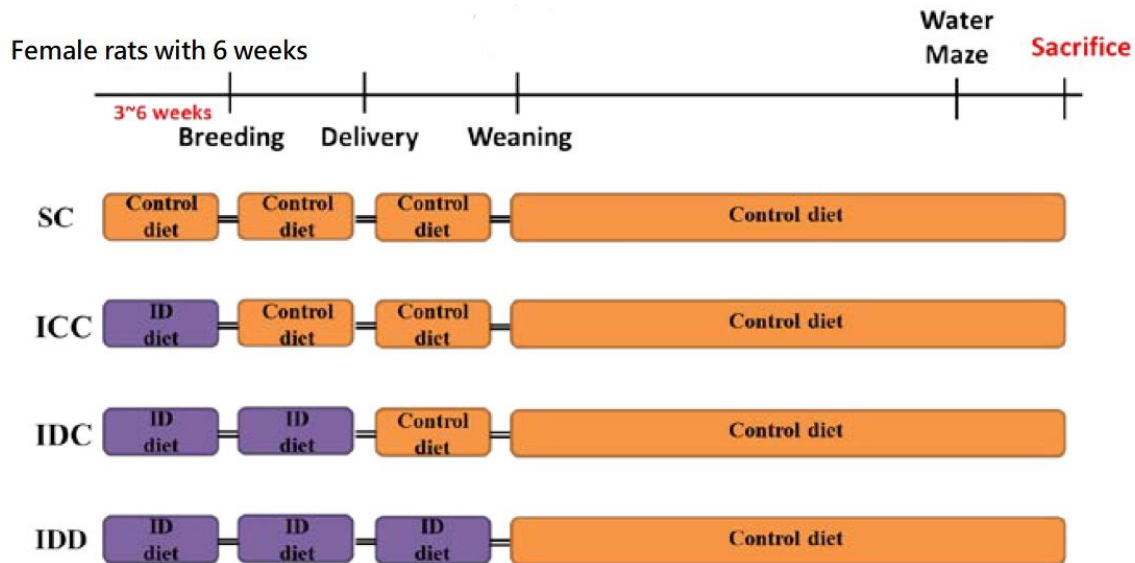


Figure S1. Animal grouping.

Table S2. qRT-PCR primer sequences.

Target Genes	Primer Sequences
BDNF	Forward: 5' AGCTGAGCGTGTGTGACAGTAT 3'
	Reverse: 5' CCGAACATACGATTGGGTAGTT3'
TrKB	Forward: 5'GCACATCGCTCAGCAAATCG 3'
	Reverse: 5'ACAACCTCCCAGGCTCCAGAC 3'
CREB	Forward: 5'CCCAGGGAGGAGCAATACAG 3'
	Reverse: 5'GGGAGGACGCCATAACAAC 3'

β -actin	Forward: 5'TACTGCCCTGGCTCCTA-3'
	Reverse: 5'GGGCCGGACTCATCGTA-3'

Table S3. Western blot antibody.

Type	Antibody	Host	Dilution	Supplier
Primary/polyclonal	BDNF	rabbit	1:1000	Santa Cruz (CA, USA)
Primary/monoclonal	Trkb	rabbit	1:1000	cell signaling (Denver, MA, USA)
Primary/polyclonal	CREB	rabbit	1:1000	Millipore (Billerica, MA, USA)
Secondary/polyclonal	Anti-rabbit IgG (H+L)	Goat	1:10000	LEADGENE Biomedical (Taiwan)