10.1071/RD23230

Reproduction, Fertility and Development

Supplementary Material

The role of placental kisspeptin in trophoblast invasion and migration: an assessment in *Kiss1r* knockout mice, BeWo cell lines and human term placenta

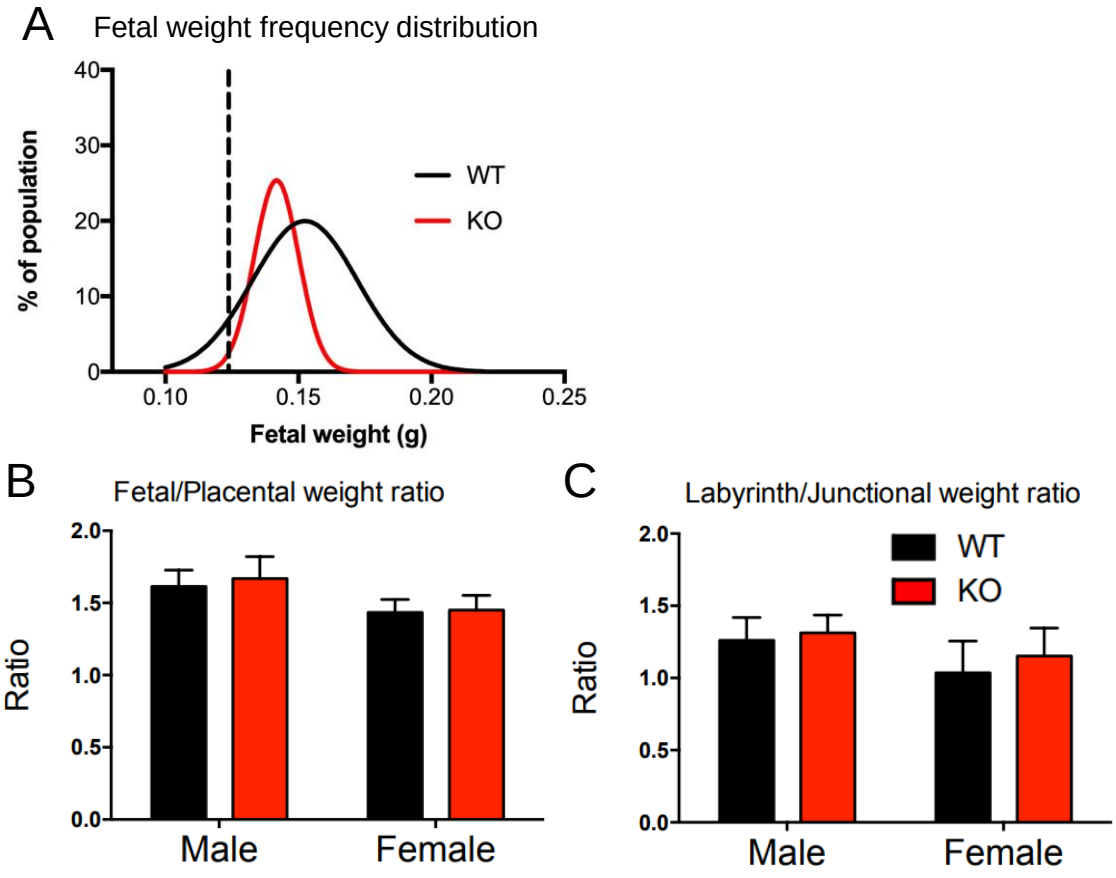
E. N. Panting[A], *J. H. Weight*[A], *J. A. Sartori*[B], *D. A. Coall*[B], *and J. T. Smith*[A,*]

[A]School of Human Sciences, The University of Western Australia, Perth, WA 6009, Australia.

[B]School of Medical and Health Sciences, Edith Cowan University, Joondalup, WA 6027, Australia.

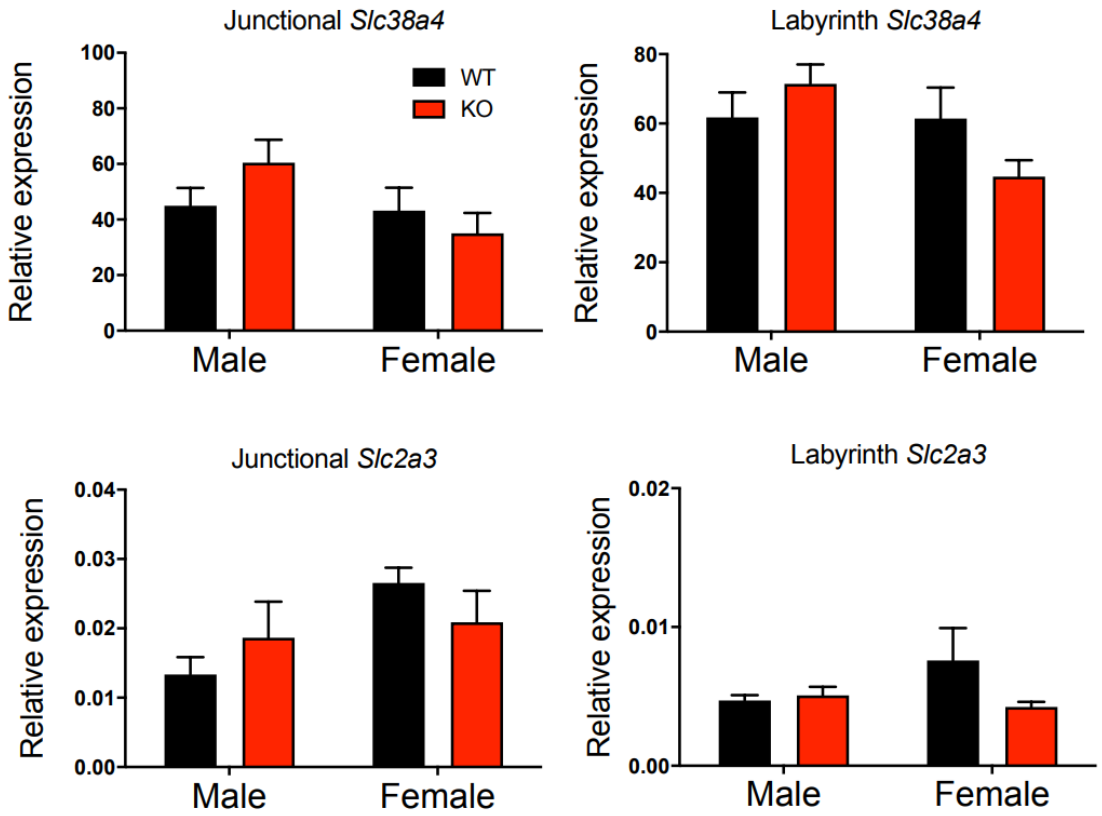
[*]Correspondence to: J. T. Smith School of Human Sciences, M309, The University of Western Australia, 35 Stirling Hwy, Crawley, WA 6009 Australia Email: jeremy.smith@uwa.edu.au

Supplementary Fig. S1



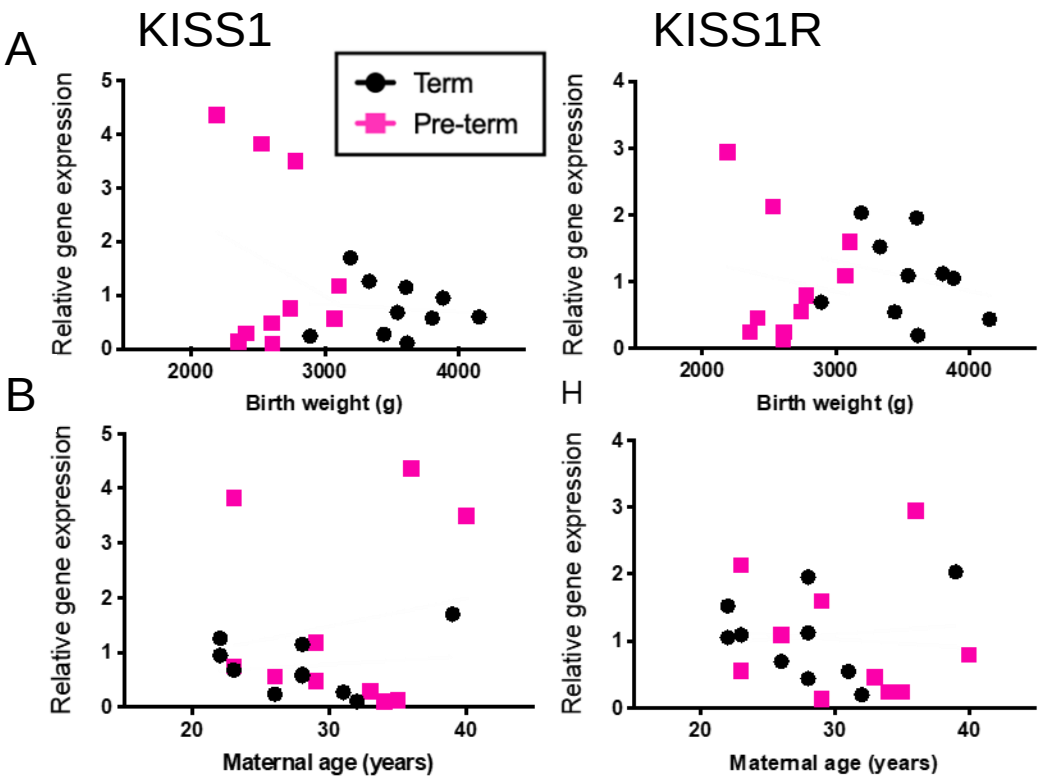
Supplementary Fig. S1. Fetal weight frequency distribution (A), Fetal/ Placental weight ratio (B) and placental labyrinth/junctional weight ratio (C) in wild-type (WT) and *Kiss1r* knockout (KO) mice at E14. A, dashed line represents the fifth percentile of WT mice with 20% of *Kiss1r* KO mice below this centile. B and C, Data are the mean ± SEM for male and female mice (n=6-8 for all groups). Data were analysed using two-way ANOVA; no significant differences were observed.

Supplementary Fig. S2



Supplementary Fig. S2. Relative gene expression of *Slc38a4* (A-B), and *Slc2a3* (C-D) in the labyrinth and junctional zones of wild-type (WT) and *Kiss1r* knockout (KO) placentas at E14. Data are the mean ± SEM for male and female mice (n=6-8 for all groups). Data were analysed using two-way ANOVAs; no significant differences were observed.

Supplementary Fig. S3



Supplementary Fig. S3. The relationship between placenta *KISS1* or *KISS1R* mRNA expression and birth weight (A) and maternal age (B) was determined by Pearson correlation and simple linear regression. No significance was observed.