##### **Published Peer-Reviewed Manuscripts**

1. Sferruzzi-Perri AN, Lopez-Tello J, Fowden AL, Constancia M Maternal and fetal genomes interplay through phosphoinositol 3-kinase(PI3K)-p110α signalling to modify placental resource allocation. *PNAS.* In press (ID: 2016-02012).
2. Decato BE, Lopez-Tello J, Sferruzzi-Perri AN, Smith AD, Dean MD. DNA methylation divergence and tissue specialization in the developing mouse placenta. *Molecular Biology and Evolution.* Provisionally accepted pending revision (ID: MBE-16-0603)
3. Sferruzzi-Perri AN, Camm EJ (2016) The programming power of the placenta *Frontiers in Physiology* 7:33.
4. Boulenouar B\*, Doisne J-M\*, Sferruzzi-Perri AN, Gaynor L, Kieckbusch J, Balmas E, Yung HW, Javadzadeh S, Volmer L, Hawkes DA, Phillips K, Brady H, Fowden AL, Burton GJ, Moffett A, Colucci F (2015) NFIL3-dependent natural killer cells mediate maternal adaptations to pregnancy, placental development and fetal growth *Frontiers in Immunology*;7:43
\* joint first author
5. Musial B, Fernandez-Twinn, Vaughan OR, Ozanne SE, Voshol P, Sferruzzi-Perri AN, Fowden AL(2015) Proximity to delivery alters insulin sensitivity and glucose metabolism in pregnant mice. *Diabetes*. Jan 6. pii: db151531
6. Higgins JS, Vaughan OR, Fernandez De Liger E, Fowden AL, Sferruzzi-Perri AN (2015) Placental phenotype and resource allocation to fetal growth are modified by the timing and degree of hypoxia during mouse pregnancy. *Journal of Physiology,* 594:1341-56.
7. Ito M, Sferruzzi-Perri AN, Edwards CA, Adalsteinsson BT, Allen SE, Loo TH, Kitazawa M, Kaneko-Ishino T, Ishino F, Stewart CL, Ferguson-Smith AC (2015) [A trans-homologue interaction between reciprocally imprinted miR-127 and Rtl1 regulates placenta development.](http://www.ncbi.nlm.nih.gov/pubmed/26138477) *Development* 142(14):2425-30.
8. Standen P, Sferruzzi-Perri AN, Taylor R, Heinemann G, Zhang JV, Highet AR, Pringle KG, Owens JA, Kumarasamy V, Lumbers ER, Roberts CT (2015) [Maternal insulin-like growth factor 1 and 2 differentially affect the renin-angiotensin system during pregnancy in the guinea pig.](http://www.ncbi.nlm.nih.gov/pubmed/25748140) Growth Horm IGF Res. Jun;25(3):141-7.
9. Skeffington KL, Higgins JS, Mahmoud AD, Evans AM, Sferruzzi-Perri AN, Fowden AL, Yung HW, Burton GJ, Giussani DA, Moore LG (2015) [Hypoxia, AMPK activation and uterine artery vasoreactivity.](http://www.ncbi.nlm.nih.gov/pubmed/26110512) *J Physiol.* 594(5):1357-69. doi: 10.1113/JP270995
10. Vaughan OR, Phillips HM, Everden AJ, Sferruzzi-Perri AN, Fowden AL (2015) Dexamethasone treatment of pregnant F0 mice leads to parent of origin-specific changes in placental function of the F2 generation. *Reproduction, Fertility and Development.* 27:704-711.
11. Vaughan OR, Fisher HM, Dionelis KN, Jefferies EC, Higgins JS, Musial B, Sferruzzi-Perri AN, Fowden AL (2015) Corticosterone alters materno-fetal glucose partitioning and insulin signalling in pregnant mice. *J Physiol* 593(5):1307-21
\*This was a collaborative project with Prof Fowden (PDN). I helped to perform the experiments and edit the manuscript.
12. Fowden AL, Forhead AJ, Sferruzzi-Perri AN, Burton GJ, Vaughan, OR (2015) Endocrine regulation of placental phenotype. *Placenta* 36 Suppl 1:S50-9
13. Vaughan OR, Sferruzzi-Perri AN, Coan PM, Fowden AL (2013) Adaptations in placental phenotype depend on timing and route of maternal dexamethasone administration in mice. *Biology of Reproduction* 89(4):80, 1-12. \*This was a collaborative project with Prof Fowden (PDN).
14. Sferruzzi-Perri AN, Vaughan OR, Haro M, Cooper WN, Musial B, Charalambous M, Pestana D, Ayyar S, Ferguson-Smith AC, Burton GJ, Constancia M, Fowden AL (2013) An obesogenic diet modifies nutrient partitioning and fetal growth trajectory. *FASEB J* 27(10):3928-37.
15. Sferruzzi-Perri AN, Vaughan OR, Forhead AJ, Fowden AL (2013) [Hormonal and nutritional drivers of intrauterine growth.](http://www.ncbi.nlm.nih.gov/pubmed/23340010) *Current Opinion in Clinical Nutrition & Metabolic Care*. 16(3):298-309
16. Vaughan OR, Sferruzzi-Perri AN, Fowden AL (2012) Maternal corticosterone regulates nutrient allocation to fetal growth in mice. *J Physiology* 590:5529-40
17. Vaughan OR, Sferruzzi-Perri AN, Coan PM, Fowden AL (2011) Environmental regulation of placental phenotype: implications for fetal growth. *Reproduction, Fertility and Development* 24(1):80-96
18. Sferruzzi-Perri AN, Owens JA, Pringle KG, Roberts CT (2011) The neglected role of maternal endocrine insulin-like growth factors in regulating fetal growth. Invited Review, *Journal of Physiology* 589(Pt 1):7-20
19. Sferruzzi-Perri AN, Vaughan OR, Coan PM, Suciu MC, Darbyshire R, Constancia M, Burton GJ, Fowden AL (2011) Placental-specific *Igf2* deficiency alters developmental adaptations to undernutrition in mice. [*Endocrinology*](http://www.ncbi.nlm.nih.gov/pubmed/21673101#%23)52(8):3202-12
20. Pringle, KG, Kind KL, Sferruzzi-Perri AN, Thompson J, Roberts CT (2009) Beyond Oxygen: Complex Regulation and Activity of HIFs in Pregnancy. *Human Reproduction Update*, 16(4):415-31.
21. Fowden AL, Sferruzzi-Perri AN, Coan PM, Constancia M, Burton GJ (2009) Placental efficiency and adaptation: endocrine regulation. *Journal of Physiology*, 587(Pt 14):3459-72
\*This invited review showcased some of my research and I helped edit the manuscript.
22. Sferruzzi-Perri AN, Macpherson AM, Roberts CT, Robertson SA (2009) GM-CSF regulates trophoblast glycogen cell and giant cell differentiation in placental morphogenesis. *Biology of Reproduction* Jul;81(1):207-21
23. Sferruzzi-Perri AN, Owens JA, Standen P, Roberts CT (2008) Maternal insulin-like growth factor-II promotes placental functional development and fetal growth via the type 2 IGF receptor in guinea pigs. *Placenta* 29:347-55
24. Roberts CT, Owens JA, Sferruzzi-Perri AN (2007) Distinct actions of insulin-like growth factors (IGFs) on placental development and fetal growth. *Placenta* 29 Suppl A:S42-7.
25. Sferruzzi-Perri AN, Owens JA, Standen P, Taylor RL, Robinson JS, Roberts CT (2007) Early pregnancy maternal endocrine IGF-I programs the placenta for increased functional capacity throughout gestation. *Endocrinology* 148(9):4362-70.
26. Sferruzzi-Perri AN, Owens JA, Standen P, Taylor RL, Heinemann GK, Robinson JS, Roberts CT (2006) Early treatment of the pregnant guinea pig with IGFs promotes placental transport and nutrient partitioning near term. *American Journal of Physiology, Endocrinology and Metabolism* 292: E668-E676.
27. Sferruzzi-Perri AN, Owens JA, Pringle KG, Robinson JS, Roberts CT (2006) Maternal insulin-like growth factor-I and –II act via different pathways to promote fetal growth. *Endocrinology* 147(7):3344-3355.
28. Sferruzzi-Perri AN, Robertson SA, Dent LA (2003) Interleukin-5 transgene expression and eosinophilia are associated with retarded mammary gland development in mice. *Biology of Reproduction* 69:224-233

**Contributions to Compiled Published Volumes**

1. Adaptation of the placenta during pathological pregnancies: the role of the vascular and nutrient transport systems in *Frontiers in Physiology, Vascular Physiology.* Edited by AN Sferruzzi-Perri and CA Escudero. In press.
2. Giussani DA, Bennet L, Sferruzzi-Perri AN, Vaughan OR, Fowden AL (2015) Hypoxia, Fetal & Neonatal Physiology: 100 years on from Sir Joseph Barcroft. *Journal of Physiology* 594(5):1105-11.
3. Bianco-Miotto T, Blundall C, Buckberry S, Chamley L, Chong S, Cottrell E, Dawson P, Hanna C, Holland O, Lewis RM, Moritz K, Myatt L, Perkins AV, Powell T, Saffery R, Sferruzzi-Perri AN, Sibley C, Simmons D, O’Tierney-Ginn PF (2015) IFPA Meeting 2015 Workshop Report I: placental mitochondrial function, transport systems and epigenetics. *Placenta*. Nov 28. pii: S0143-4004(15)30095-3.
4. [The Placenta and Human Developmental Programming (2010). Published by Cambridge Medicine](http://www.amazon.co.uk/Placenta-Developmental-Programming-Cambridge-Medicine/dp/052119945X/ref%3Dsr_1_2?s=books&ie=UTF8&qid=1338118226&sr=1-2). Edited by G.J Burton, D.J.P. Barker, A. Moffett and K Thornburg. \*Contribution: Discussant
5. Lash GE, Burton GJ, Chamley LW, Clifton VL, Constancia M, Crocker IP, Dantzer V, Desoye G, Drewlo S, Hemmings DG, Hiendleder S, Kalionis B, Keelan JA, Kudo Y, Lewis RM, Manuelpillai U, Murthi P, Natale D, Pfarrer C, Robertson R, Saffery R, Saito S, Sferruzzi-Perri AN, Sobrevia L, Waddell BJ, Roberts CT (2010) IFPA Meeting 2009 Workshops Report. Placenta 31: S4-20. \*I was joint organiser for the ‘Genes and the Placenta’ workshop at the International Federation of Placenta Associations conference which was showcased as part of this review.
6. Roberts CT, Sferruzzi-Perri AN, Kind KL, Robinson JS and Owens JA (2005) Placental perturbations and pregnancy outcome: a common thread\*. Workshop on Comparative Placentology *Havemeyer Foundation Monograph* Series17:54.
\* Available online: <http://havemeyerfoundation.org/monograph.htm>