

## 2007 REFEREED JOURNAL ARTICLES

- Du, M., Q.W. Shen, M. J. Zhu, S. P. Ford. 2007. Leucine stimulates mammalian target of rapamycin signaling in C2C12 myoblasts in part through inhibition of adenosine monophosphate-activated protein kinase. *J. Anim. Sci.* 85:919-927.
- Ford, S. P., B. W. Hess, M.M. Schwope, M. J. Nijland, J. S. Gilbert, K.A. Vonnahme, W. J. Means, H. Han, P.W. Nathanielsz. 2007. Maternal undernutrition during early gestation in the ewe results in altered growth, adiposity and glucose intolerance in male offspring. *J. Anim. Sci.* 85:1285-1294.
- Zhu, M. J., M. Du, B. W. Hess, W. J. Means, P. W. Nathanielsz, S. P. Ford. 2007. Maternal nutrient restriction upregulates signaling pathways in the cotyledonary artery of cow placentomes. *Placenta* 28:361-368.
- Burt, B.E., B.W. Hess, P.W. Nathanielsz, and S.P. Ford. 2007. Flock difference in The impact of maternal dietary restriction on offspring growth and glucose tolerance in female offspring. *Soc. Reprod. Fertil. Suppl.* 64:411-424
- Gilbert, J.S., S.P. Ford, A.L. Lang, L.R. Pahl, M.C. Drumhiller, S.A. Babcock, P.W. Nathanielsz, M.J. Nijland. 2007. Nutrient restriction impairs nephrogenesis in a gender- specific manner in the ovine fetus. *Pediatr. Res.* 61:42-47.
- Schmitz, T., L.A. Cox, C. Li, B.A. Levine, S.P. Ford, T.J. McDonald, P.W. Nathanielsz. 2007. Prostaglandin E2 receptor expression in fetal baboon lung at 0.7 gestation after betamethasone exposure. *Periatr. Res.* 61:421-426.
- Grazul-Bilska, A.T., C. Navanukraw, M.L. Johnson, K.A. Vonnahme, S.P. Ford, L.P. Reynolds, D.A. Redmer. 2007. Vascularity and expression of angiogenic factors in bovine dominant follicles of the first follicular wave. *J. Anim. Sci.* 85:1914-1922.
- Du, M., Q.W. Shen, M.J. Zhu, and S.P. Ford. 2007. Leucine stimulates mammalian target of rapamycin signaling in C2C12 myoblasts in part through inhibition of adenosine monophosphate-activated protein kinase. *J. Anim. Sci.* 85:919-927.
- Dong, F., S.P. Ford, M.J. Nijland, P.W. Nathanielsz, J. Ren. 2007. Influence of maternal undernutrition and overfeeding on cardiac ciliary neurotrophic factor receptor and ventricular size in fetal sheep. *J. Nutr. Biochem.* (In Press).
- Vonnahme, K.A., M.J. Zhu, P.B. Borowicz, T.W. Geary, B.W. Hess, L.P. Reynolds, J.S. Caton, W.J. Means, S.P. Ford. 2007. Effect of early

gestational undernutrition on angiogenic factor expression and vascularity in the bovine placentome. *J. Anim. Sci.* 85:2654-2672.

Zhu, M.J., M. Du, B.W. Hess, P.W. Nathanielsz, S.P. Ford. 2007. Periconceptual nutrient restriction in the ewe alters MAPK/ERK1/2 and PI3K/Akt growth signalling pathways in the placentome. *Placenta* 28:1192-1199.

Underwood, K.R., J. Tong, M. J. Zhu, Q.W. Shen, W. J. Means, S. P. Ford, S. I. Paisley, B.W. Hess, M. Du 2007. Relationship between Kinase Phosphorylation, Muscle Fiber Typing and Glycogen Accumulation in Longissimus dorsi Muscle of Beef Cattle with High and Low Intramuscular Fat. *J. Agric. Food Chem.* 55:9698-9703.