

Publications

- Abramowicz JS, A Barua, P Bitterman, JM Bahr, E Sheiner and JL Luborsky. 2008. Ultrasound imaging in animal models of human disease-is it a step toward early diagnosis in humans? *Donald School Journal of Ultrasound in Obstetrics and Gynecology*. 2(4):58-64.
- Allan, M.F., Kuehn, L.A., Cushman, R.A., Snelling, W.M., Echtenkamp, S.E., Thallman, R.M. 2009. Confirmation of quantitative trait loci using a low-density single nucleotide polymorphism map for twinning and ovulation rate on bovine chromosome 5. *Journal of Animal Science* 87(1):46-56.
- Anderson, LL. 2008. Invited BOOK REVIEW entitled: *Force Microscopy: Applications in Biology and Medicine*. [Edited by] Bhanu P. Jena and J.K. Heinrich Hörber. John Wiley & Sons, Inc., Hoboken, NJ; 2006, 300 pages. ISBN-13978-0-471-39628-4. *Microscopy and Microanalysis* 14:205-206.
- Anderson, LL. 2009. EDITORIAL FORWARD for 'Cell Secretion' Review Series—Cell Secretion: an orchestra involving intracellular protein transport, the universal secretory machinery-‘porosome’, and secretory vesicle swelling-induced content release. *Journal of Cellular and Molecular Medicine*. (In press).
- Anderson, LL. 2009. Reproductive biology of pigs. *Animal Industry Report*. A.S. Leaflet R2443.
- Ansenberger K, Y Zhuge, JAJ Lagman, C Mahon, A Barua, JM Bahr, DB Hales. 2008. E-cadherin expression in ovarian cancer in the laying hen, *Gallus domesticus*. *Gynecol. Oncology* (in press).
- Antelman, J., G. Manandhar, Y.-J. Yi, R. Li, K. Whitworth, J.A. Green, R.S. Prather, P. Sutovsky. 2008. Expression of mitochondrial transcription factor A (TFAM) during porcine gametogenesis and preimplantation embryo development. *J. Cellular Physiology*. 217:529-543. PMID 18636550.
- Bahr JM 2008 Are scientific societies serving the needs of graduate and postdoctoral students. *Reproduction, Fertility and Development* 20:19-22.
- Bahr JM. The chicken as a model organism. 2008. *Source Book of Models for Biomedical Research*, M. Conn (ed). *Humana Press*, pp. 161-167,
- Baltes-Breitwisch, M.M., R.C. Bott, D.M. Larson, J.M. Martin, and A.S. Cupp. 2009. Male biostimulation prior to a short melengesterol acetate (MGA) synchronization protocol increased timed AI conception rates in multiparous cows. *J. Anim. Sci.* (Submitted).
- Barua A, Edassery SL, Bitterman P, Abramowicz JS, Dirks AL, Bahr JM, Hales DB, Bradaric MJ, Luborsky JL 2008 Prevalence of anti-tumor antibodies in laying hen model of human ovarian cancer. *International J. of Gynecol. Cancer*. 19 (4):500-507.

- Barua A, P Bitterman, JS Abramowicz, AL Dirks, JM Bahr, DB Hales, MJ Bradaric, SL Edassery, Rotmensch J, Luborsky JL. 2009. Histopathology of ovarian tumors in laying hens, a preclinical model for human ovarian cancer. *International J of Gynecol. Cancer* 19 (4):531-539.
- Bass, B.E., R.A. Cederberg, G.A. Mills, C.M. Clay, and B.R. White. 2009. Responsiveness of GnRH receptor and gonadotropin subunit genes to GnRH in lines of swine divergent for ovulation rate. *Biol. Reprod.* (Submitted).
- Belton Jr. RJ, Chen L, Mesquita FS, Nowak RA. 2008. Basigin-2 is a cell surface receptor for soluble basigin ligand. *Journal of Biological Chemistry*; 283:17805-17814. [Epub April 22, 2008].
- Benoit, AM, Molina, JR, Lkhagvadorj, S, Anderson, LL. 2009. Prolactin secretion after hypothalamic deafferentation in beef calves: response to haloperidol, α -methyl- ρ -tyrosine, thyrotropin-releasing hormone and ovariectomy. *Animal Reproduction Science* 111:54-98.
- Bleck GT, MB Wheeler, LB Hansen, H Chester-Jones, and DJ Miller. 2009. Lactose synthase components in milk: Concentrations of α -lactalbumin and β 1,4galactosyltransferase in milk of cows from several breeds at various stages of lactation. *Reprod Domestic Animals*. 44:241-247.
- Boltz C, RJ Belton, DA Boltz, PM Yau, D Bunck, G Sherba, JM Bahr. 2009. Avian infectious bronchitis virus (AIBV) induces autoimmunity to sperm in the rooster (submitted)
- Bonk, A.J., R. Li, L. Lai, Y. Hao, Z. Liu, M. Samuel, E.A. Ferguson, K.M. Whitworth, C.N. Murphy, E. Antoniou, R.S. Prather. 2008. Aberrant DNA methylation in porcine in vitro-, parthenogenetic-, and somatic cell nuclear transfer-produced embryos. *Mol. Reprod. Dev.* 75:250-264. PMID 17595009.
- Bott, R.C., D.T. Clopton, and A.S. Cupp. 2008. A proposed role for VEGF isoforms in sex-specific vasculature development in the gonad. *Reprod. Dom. Anim.* 43(Suppl. 2):310-316.
- Bott, R.C., D.T. Clopton, R.M. McFee, and AS Cupp. 2009. Kinase Domain Receptor (Kdr) expression is present in sex specific vascular patterns in the developing gonads: Role for VEGF in regulation of testis specific vasculature and spermatogenesis. *Mol. Reprod. Dev.* (Submitted).
- Braundmeier AG, WG Breed, and DJ Miller. 2008. Spermatozoa from a marsupial, the Brushtail Possum, contain β 1,4-galactosyltransferase. *Reprod Fert Develop.* 20:402-407.
- Brazle, A.E., B. J. Johnson, S. K. Webel, T. J. Rathbun, and D. L. Davis. 2008. Omega-3 fatty acids in the gravid pig uterus as affected by maternal supplementation with omega-3 fatty acids. *J. Anim. Sci.* 87:994-1002.

- Bridges, G, Helser, L, Grum, D, Mussard, M, Gasser, C, Day, M. 2008. Decreasing the interval between GnRH and PGF₂± from 7 to 5 days and lengthening proestrus increases timed-AI pregnancy rates in beef cows. *Theriogenology*. 69:843-851
- Bridges, G, Mussard, M, Burke, C, Day, M. 2008. Influence of length of proestrus on fertility and endocrine function in female cattle. *Animal Reproduction Science*. (Accepted)
- Caamaño, J.N., A. Rodriguez, A. Salas, M. Muñoz, C. Diez, R.S. Prather, E. Gómez. 2008. Flow cytometric cell cycle analysis of cultured brown bear fibroblasts. *Cell Biology International* 32:855-859. PMID 18396424.
- Caine, W.R., B.U. Metzler-Zebeli, M. McFall, B. Miller, T.L. Ward, R.N. Kirkwood, R. Mosenthin. 2009. Supplementation of diets for gestating sows with zinc amino acid complex and gastric intubation of suckling pigs with zinc-methionine on mineral status, intestinal morphology and bacterial translocation in lipopolysaccharide-challenged early-weaned pigs. *Res. Vet..Sci.* (in press).
- Campbell, E.M., Nonneman, D.J., Kuehn, L.A., Rohrer, G.A. 2008. Genetic variation in the *mannosidase 2B2* gene and its association with ovulation rate in pigs. *Animal Genetics* 39(5):515-519.
- Cederberg, R.A., E.A. McDonald, C. Lee, R.A. Friedrich, A.R. Cropp, and B.R. White. 2009. Activity of the porcine GnRH receptor gene in aT3-1 cells is partially conferred by a distal swine upstream promoter enhancing region (SUPER) and two proximal steroidogenic factor-1 binding sites. *Endocrinology* (Submitted).
- Checura CM, Beg MA, Gastal EL, Gastal MO, Wiltbank MC, Parrish JJ, Ginther OJ. Effect of suppression of FSH with a GnRH antagonist (Acyline) before and during follicle deviation in the mare. *Reprod Domest Anim*. 2008 Oct 10. [Epub ahead of print]
- Chen L, RJ Belton, RA Nowak. 2008. Basigin mediated gene expression changes in mouse uterine stromal cells during implantation. *Endocrinology Epub* October 1.
- Cherrington, B.D., T.A. Farmerie, B.E. Bass, R.A. Cederberg, C.M. Clay, and B.R. White. 2009. Emergence of a new regulatory element in the proximal promoter of the gonadotropin releasing hormone receptor in Chinese Meishan swine. *Biol. Reprod.* (Accepted).
- Cho, SJ, Dlamini, BJ, Klindt, J, Jacobson, CD, Lee, JS, Lkhagvadorj, S, Anderson, LL. 2009. Comparative adenohipophyseal and ovarian hormone secretion in pregnant and hysterectomized Chinese Meishan and Yorkshire gilts. *Animal* (Submitted).
- Collins ED, WL Flowers, RD Shanks, and DJ Miller. 2008. Porcine sperm-zona binding ability as an indicator of fertility. *Anim Reprod Sci*. 104:69-82.
- Critser, J.K., M.H. Laughlin, R.S. Prather, L.K. Riley. 2009. Proceedings of The Conference on Swine in Biomedical Research. *ILAR News* 50:89-94. PMID 19106456.

- Cupp, A.S., J. Matthews, E. Huff-Loneragan, D.M. Spurlock and D. McLean. 2009. [Cell biology symposium: the role of microRNA in cell function](#). *J. Anim. Sci.* 87(14 Suppl):E19-20.
- Cushman, R.A., Allan, M.F., Kuehn, L.A. 2008. Characterization of biological types of cattle: Indicator traits of fertility in beef cows. *Brazilian Journal of Animal Science* 37(Special Supplement):116-121.
- Cushman, R.A., Allan, M.F., Kuehn, L.A. 2009. Achievements of research in reproduction sciences. In: *Animal Production and Animal Science Worldwide - WAAP 2007* (Rosati, A., Tewolde, A., Mosconi, C., eds.). pp. 59-65. Wageningen Academic Publishers, The Netherlands.
- Cushman, R.A., Allan, M.F., Kuehn, L.A., Snelling, W.M., Cupp, A.S., Freetly, H.C. 2009. Evaluation of antral follicle count and ovarian morphology in crossbred beef cows: Investigation of influence of stage of the estrous cycle, age, and birth weight. *Journal of Animal Science* 87(6):1971-1980.
- Cushman, R.A., Clopton, D.T., Allan, M.F., Echtenkamp, S.E., Cupp, A.S. 2007. Inhibition of vascular endothelial growth factor manipulates follicles in beef females. *Nebraska Beef Report* MP90:116-117.
- Cushman, R.A., M.F. Allan, L.A. Kuehn, W.M. Snelling, A.S. Cupp, and H.C. Freetly. 2009. Evaluation of antral follicle count and ovarian morphology in crossbred beef cows: investigation of influence of stage of the estrous cycle, age, and birth weight. *J. Anim. Sci.* 87:1971-1980.
- Degrelle, S. A., Blomberg, L. A, Garrett, W. M., Li, R. W., and Talbot, N.C. 2009. Comparative proteomic and regulatory network analyses of the elongating pig conceptus. *Proteomics.* 9:2678-2694.
- DeMarco PJ, Ross JW, McCall MA, Narfstrom K, Prather RS, Samuel M, Walters EM, Zhao J, Kaplan HJ. 2009. Development and assessment of a P23H rhodopsin transgenic mini-swine model of retinitis pigmentosa. Association for Research in Vision and Ophthalmology. Fort Lauderdale, FL. May 3-7.
- Flowers, W.L. 2007. Biotechnology: Artificial Insemination. In: *Encyclopedia of Agricultural Biotechnology*. M. Wheeler (eds.), Marcell Dekker, Inc., New York, 457-460.
- Flowers, W.L. 2008. Applying reproductive technologies in practice. *Proceedings, 2008 London Swine Conference*, 42-50.
- Flowers, W.L. 2008. Genetic and phenotypic variation in reproductive traits of A.I. boars. *Theriogenology* 70:1297-1303.
- Flowers, W.L. 2008. New opportunities for reproductive management. *Proceedings, 2008 London Swine Conference* 14-24.

- Germerodt, M., Beuermann, C., Rohrer, G.A., Snelling, W.M., Brenig, B., Knorr, C. 2008. Characterization and linkage mapping of 15 porcine STS markers to fine-map chromosomal regions associated with hernia inguinalis/scrotalis. *Animal Genetics* 39(6):671-672.
- Grudzien MM, P Low, PC Manning, M Arredondo, RJ Belton, RA Nowak. 2009. The antifibrotic drug halofuginone inhibits proliferation and collagen production by human leiomyoma and myometrial smooth muscle cells. *Fertility and Sterility Epub* January 9th.
- Guthrie, H. D. and Welch, G. R. 2008. Determination of high mitochondrial membrane potential with the mitochondrial probe 5, 5', 6, 6'-tetrachloro-1, 1', 3, 3'-tetraethylbenzimidazolyl-carbocyanine iodide (JC-1) and for using fluorescence-activated flow cytometry. *Methods Mol Biol.* 477:89-97.
- Guthrie, H. D., Long, J. A., and Welch, G. R. 2008. Mitochondrial function and reactive oxygen species action in relation to boar sperm motility. *Theriogenology* 70:1209-1215.
- Hales DB, Y Zhuge, JAJ Lagman, K Ansenberger, C Mahon, A Barua, J Luborsky, JM Bahr. 2008. Cyclooxygenase expression and distribution in the normal ovary and their role in ovarian cancer in the domestic hen (*Gallus Domesticus*) *Endocrine* (on line).
- Hansen, T.R., Pru, J.K., Han, H., Rempel, L.A., Austin, K.J. 2007. Failure of uterine-conceptus interactions in cattle. *The Journal of Reproduction and Development* 52:S111-S120.
- Hao Y, Ross JW, Sutovsky P, Wax, Zhong Z, Murphy CN, Rieke A, Samuel M, Spate L, Dyce P, Li J, Prather RS. 2009. Porcine skin-derived stem cells may be a superior resource to provide donor nuclei for efficient genetic modification of clones. 35th Annual Conference for the International Embryo Transfer Society. San Diego, CA, January 3-7.
- Hao Y, Wax D, Zhong Z, Murphy CN, Ross JW, Rieke A, Samuel MS, Spate L, Dyce P, Li J, Sutovsky P, Prather RS. 2009. Skin-derived stem cells may be useful for cloning pigs and transgenesis. *Cloning and Stem Cells*; 11:101-110.
- Hao, Y., C. Murphy, L. Spate, D. Wax, Z. Zhong, M. Samuel, N. Mathialagan, H. Schatten, R.S. Prather. 2008. Osteopontin improves in vitro development of porcine embryos and decreases apoptosis. *Mol. Reprod. Dev.* 75:291-298. PMID 17874454.
- Hao, Y., D. Wax, Z. Zhong, C.N. Murphy, L. Spate, M. Samuel, A. Rieke, P. Dyce, J. Li, R.S. Prather. 2009. The potential of the porcine skin-derived stem cells as donors cells for nuclear transfer. *Cloning and Stem Cells* 11:101-110 PMID 19226213.
- Harris, H.L., A.S. Cupp, A.J. Roberts, and R.N. Funston. 2008. Utilization of soybeans or corn milling by-products in beef heifer development diets. *J. Anim. Sci.* 86:476-482.
- Holl, J.W., Rohrer, G.A., Shackelford, S.D., Wheeler, T.L., Koohmaraie, M. 2008. Estimates of genetic parameters for kyphosis in two crossbred swine populations. *Journal of Animal Science* 86(8):1765-1769.

- Isom, S.C., L. Lai, R.S. Prather, E.B. Rucker III. 2009. Heat shock of porcine zygotes immediately after oocyte activation increase viability. *Mol. Reprod. Dev.* 76:548-554. PMID 18951378.
- Jerde TJ, Mellon WS, Bjorling DE, Checura CM, Owusu-Ofori K, Parrish JJ, Nakada SY. 2008. Stretch induction of cyclooxygenase-2 expression in human urothelial cells is calcium- and protein kinase C zeta-dependent. *Mol Pharmacol.* 73(1):18-26. Erratum in: *Mol Pharmacol.* 2008 Aug;74(2):539.
- Jiang, L., L. Lai, M. Samuel, R.S. Prather, X. Yang, X.C. Tian. 2008. Expression of X-linked genes in deceased neonates and surviving cloned female pigs. *Mol. Reprod. Dev.* 75:265-273. PMID 17474099.
- Klassen, H., K. Warfvinge, P.H. Schwartz, J.F. Kiilgaard, N. Shamie, C. Zhang, M. Samuel, E. Scherfig, R.S. Prather, M.J. Young. 2008. Isolation of multiple progenitor cell types from GFP-transgenic pigs and transplantation to the retina of allorecipients. *Cloning & Stem Cells* 10:391-402. PMID 18729769.
- Knox, R., D. Levis, T. Safranski, and W. Singleton. 2008. An update on North American boar stud practices. *Theriogenology* 70:1202-1208.
- Koh, S, Lee, K, Wang, C, Cabot, R, Machaty, Z. 2009. STIM1 regulates store-operated Ca²⁺ entry in oocytes. *Dev. Biol.* (in press)
- Konno, T., Rempel, L.A., Arroyo, J.A., Soares, M.J. 2007. Pregnancy in the Brown Norway rat: A model for investigating the genetics of placentation. *Biology of Reproduction* 76(4):709-718.
- Kuehn, L.A., Nonneman, D.J., Klindt, J.M., Wise, T.H. 2009. Genetic relationships of body composition, serum leptin, and age at puberty in gilts. *Journal of Animal Science* 87(2):477-483.
- Landers EA, HR Burkin, GT Bleck, L Lesley Howell-Skalla, and DJ Miller. 2009. Porcine β 1,4galactosyltransferase-I sequence and expression. *Reprod Domestic Animals.* 44:228-234.
- Lee H-H, Bunick D, Lamprecht G, Choi I, Bahr JM. 2009. Differential expression of genes important to efferent ductules in homeostasis across postnatal development in estrogen receptor- α knockout and wildtype mice. *Asian-Aust J Anim Sci* 21:510-522.
- Lee K-H, D Bunick, D Lubahn, JM Bahr. 2009. Morphological comparisons of the testis and efferent ductules between wild type and estrogen receptor α knockout mice during postnatal development. *J of Anatomy* 214:916-925.

- Lee K, Hyslop, JM, Nanassy, L, Machaty, Z. 2009. Incidence of apoptosis in parthenogenetic porcine embryos generated by using protein kinase or protein synthesis inhibitors. *Anim. Reprod. Sci.* 112:261-272.
- Li, R., C.N. Murphy, L. Spate, D. Wax, S.C. Isom, A. Rieke, E. Walters, M. Samuel, R.S. Prather. 2009. Production of piglets after cryopreservation by using a centrifugation-based method for delipation without micromanipulation. *Biology of Reproduction* 80:563-571. PMID 19038857.
- Liu, Z., T. Jiangtian, Z. Zhong, W. Zhenkun, S. Jun, Y. Zhi, G. Li, M. Haikun, K. Qingran, S. Shuang, L. Yutian, W. Hongbin, R.S. Prather. 2008. Green fluorescent protein (GFP) transgenic pig produced by somatic cell nuclear transfer. *Chinese Science Bulletin.* 53:1035-1039.
- Lkhagvadorj, S, Qu, L, Cai, W, Couture, OP, Wang, Y, Barb, CR, Hausman, GJ, Rekaya, R, Nettleton, DS, Anderson, LL, Dekkers, JCM, Tuggle, CK. 2009. Microarray gene expression profiles of fasting-induced changes in liver and adipose tissues of pigs expressing the melanocortin-4 receptor D298N variant. *Physiological Genomics* 38:98-111. First published April 14, 2009; doi:10.1152/physiolgenomics.90372.2008.
- Lorson, M.A., L. Spate, K. Wells, R.S. Prather, C.L. Lorson. 2008. The identification and characterization of the porcine (*sus scrofa*) survival motor neuron (*SMN1*) gene. *Developmental Dynamics* 237:2268-2278. PMID 18651653.
- Magnani, L, Cabot, RA. 2008. *In vitro* and *in vivo* derived porcine embryos possess similar, but not identical, patterns of Oct4, Nanog and Sox2 mRNA expression during cleavage development. *Molecular Reproduction and Development* 75(12):1726-1735.
- Magnani, L, Cabot, RA. 2009. Manipulation of BRAHMA and BRG1 transcript levels in porcine embryos differentially alters development and expression of SNF2l, SOX2, NANOG and eIF1A. *Reproduction* 137(1):23-33.
- Magnani, L, Johnson, CM, Cabot, RA. 2008. Expression of eukaryotic elongation initiation factor 1A differentially marks zygotic genome activation in biparental and parthenogenetic porcine embryos and correlates with *in vitro* developmental potential. *Reproduction, Fertility and Development* 20(7):818-825.
- Magnani, L, Lee, K, Fodor, W, Machaty, Z, Cabot, RA. 2008. Developmental capacity of porcine nuclear transfer embryos correlate with chromatin remodeling mRNA transcripts in donor cells. *Molecular Reproduction and Development* 75(5):766-776.
- Manjarin, R., G. Cassar, D.J. Sprecher, R.M. Friendship, J.C. Dominguez and R.N. Kirkwood. 2009. Effect of eCG or eCG plus hCG on estrus expression and ovulation in prepubertal gilts. *Reprod. Dom. Anim.* 44:411-413.

- Manjarin, R., J.C. Dominguez, M.J. Castro, B. Alegre, M.A. Driancourt, R.N. Kirkwood. 2009. Effect of hCG on early luteal serum progesterone concentrations in PG600-treated gilts. *Reprod. Dom. Anim.* (in press).
- Manjarin, R., J.C. Dominguez, M.J. Castro, D.J. Sprecher, G. Cassar, R.M. Friendship and R.N. Kirkwood. 2009. Effect of prior FSH treatment on the estrus and ovulation responses to eCG in prepubertal gilts. *Anim. Reprod. Sci.* 110:123-127.
- Manjarin, R., J.C. Dominguez, M.J. Castro, D.J. Sprecher, G. Cassar, R.M. Friendship and R.N. Kirkwood. 2009. Effect of hCG treatment on the estrus and ovulation responses to FSH in prepubertal gilts. *Reprod. Dom. Anim.* 44:432-434.
- Martin, J.L., D.T. Clopton, H.L. Stroh, A.S. Cupp, and R.N. Funston. 2009. Effects of soybeans or dried distillers grains in beef heifer development diets on reproductive performance and granulosa VEGF isoform expression. *J. Anim. Sci.* (Submitted).
- Maurya, D.K., C. Doi, M. Pyle, R. Rachakatla, D. Davis, M. Tamura, and D. Troyer. Non-random tissue distribution of human umbilical cord matrix stem cells after transplantation in SCID mice. *Cell Transplantation* (in revision).
- McDaneld, T.G., Smith, T.P.L., Doumit, M.E., Miles, J.R., Coutinho, L.L., Sonstegard, T.S., Matukumalli, L.K., Nonneman, D.J., Wiedmann, R.T. 2009. MicroRNA transcriptome profiles during swine skeletal muscle development. *BMC Genomics* 10:77.
- McDaneld, T.G., Wiedmann, R.T., Miles, J.R., Cushman, R.A., Vallet, J.L., Smith, T.P.L. 2007. MicroRNA (miRNA) technology in livestock: Expression profiling of bovine oocyte and developmental stages of porcine skeletal muscle. *National Swine Improvement Federation NSIF Vol. 32.*
- McDonald, E.A., R.A. Cederberg, J.E. Smith, and B.R. White. 2009. Divergent activity of the porcine GnRH receptor gene promoter in aT3-1 cells is partially conferred by nuclear factor (NF)-kB, specificity protein (Sp)1-like, and GATA4 elements. *Endocrinology* (Submitted).
- McHughes, C.E., G.K. Springer, L. Spate, R. Li, R. Woods, M. Green, S.W. Korte, C.N. Murphy, J.A. Green, R.S. Prather. 2008. Identification and quantification of differentially represented transcripts in preimplantation bovine embryos. *Mol. Reprod. Dev.* 76:48-60. PMID 18449894.
- Miles, J. R., Freking BA, Blomberg, L. A., Vallet, J. L., and Zuelke, K. A. 2008. Conceptus development during blastocyst elongation in lines of pigs selected for increased uterine capacity or ovulation rate. *J Anim. Sci.* 86:2126-2134
- Miles, J.R., Blomberg, L.A., Krisher, R.L., Everts, R.E., Sonstegard, T.S., Van Tassell, C.P., Zuelke, K.A. 2008. Small amplified RNA-serial analysis of gene expression (SAR-SAGE) from porcine blastocysts produced in vivo or in vitro. *Molecular Reproduction and Development.* 75:976-988. DOI: 10.1002/mrd.20844.

- Miles, J.R., Freking, B.A., Blomberg, L.A., Vallet, J.L., Zuelke, K.A. 2008. Conceptus development during blastocyst elongation in lines of pigs selected for increased uterine capacity or ovulation rate. *Journal of Animal Science* 86(9):2126-2134.
- Miles, J.R., Vallet, J.L., Freking, B.A., Nonneman, D.J. 2009. Molecular cloning and characterization of heparanase mRNA in porcine placenta throughout gestation. *Reproduction, Fertility and Development (In Press)*.
- Molina, JR, Benoit, AM, Lkhagvadorj, S, Anderson, LL. 2009. Hypothalamic deafferentation in prepuberal beef heifers: effects of gonadotropin-releasing hormone and estradiol benzoate on luteinizing hormone secretion. *Livestock Science* 120:13-24.
- Montagner, M.M, A.R. Cropp, J.J. Swanson, R.A. Cederberg, Paulo B.D. Goncalves, and B.R. White. 2009. Role of gonadotropin-releasing hormone on mouse preimplantation embryonic development. *Mol. Reprod. Dev.* (In Preparation).
- Nanassy, L, Lee, K, Javor, A, Machaty, Z. 2008. Effects of activation methods and culture conditions on development of parthenogenetic porcine embryos. *Anim. Reprod. Sci.* 104:264-274.
- Nowak, R.A. 2008. The pathophysiology of dysfunctional uterine bleeding. In: eds John Aplin, Asgerally Fazleabas, Stanley Glasser and Linda Giudice, *The Endometrium: Molecular, Cellular and Clinical Perspectives, 2nd Edition, Informa Health Care*, 711-726.
- Paczkowski, M., Krisher R.L. (Submitted, minor revisions) Aberrant protein expression is associated with decreased developmental potential in porcine cumulus-oocyte complexes. *Molec Reprod and Dev.*
- Pelland, C., G. Cassar, R.N. Kirkwood and R.M. Friendship. 2008. Fertility following intrauterine insemination with a reduced number of spermatozoa in sows with synchronized ovulation. *J. Swine Health Prod.* 16:188-192.
- Pogranichniy, R, Lee, K, Machaty, Z. 2008. Detection of porcine parvovirus in the follicular fluid of abattoir pigs. *J. Swine Health and Prod.* 16:244-246.
- Pohlmann, R.M., R.A. Ten Broeck, R.M. McFee, D.T. Clopton, R.C. Bott, R.A. Longfellow, T.G. Rozell, and A.S. Cupp. 2009. Inhibition of vascular endothelial growth factor (VEGF) signal transduction blocks follicle progression to the pre-antral stage but does not necessarily affect vascular development in perinatal rat ovaries. *Endocrinology* (Submitted).
- Prather, R.S. 2009. Meet the editors. *Molecular Reproduction and Development* 11:76.
- Prather, R.S., M. Shen, Y. Dai. 2008. Genetically modified pigs for medicine and agriculture. *Biotechnology & Genetic Engineering Reviews* 25:245-266.

- Ramesh, A., Inyang, F., Lunstra, D.D., Niaz, M.S., Kopsombut, P., Jones, K.M., Hood, D.B., Hills, E.R., Archibong, A.E. 2008. Alteration of fertility endpoints in adult male F-344 rats by subchronic exposure to inhaled benzo(a)pyrene. *Experimental and Toxicologic Pathology* 60(4-5):269-280.
- Rempel, L., Austin, K., Ritchie, K., Yan, M., Shen, M., Zhang, D.E., Henkes, L., Hansen, T. 2007. Ubp43 gene expression is required for normal Isg15 expression and fetal development. *Reproductive Biology and Endocrinology* 5(1):13.
- Rogers, C.S., D.A. Stoltz, D.K. Meyerholz, L.S. Ostedgaard, T. Rokhlina, P. Taft, M.P. Rogan, A.A. Pezzulo, P.H. Karp, O.A. Itani, A.C. Kabel, C.L. Wohlford-Lenane, G.J. Davis, T. L. Smith, M. Samuel, D. Wax, C.N. Murphy, A. Rieke, K. Whitworth, A. Uc, T.D. Starner, K.A. Brogden, J. Shilyansky, P. McCray, Jr., J. Zabner, R.S. Prather, M.J. Welsh. 2008. Disruption of the CFTR gene produces a model of cystic fibrosis in newborn piglets. *Science* 321:1837-1841. PMID 18818360.
- Rogers, C.S., W.M. Abraham, K.A. Brogden, J.F. Engelhardt, J. Fisher, P.B. McCray, G. McLennan, D.K. Meyerholz, L.S. Ostedgaard, R.S. Prather, D.A. Stolz, J. Zabner, M.J. Welsh. 2008. The porcine lung as a potential model for cystic fibrosis. *Am. J. Phys. Lung Cell. Mol. Physiol.* 295:L240-L263. PMID 18487356.
- Rogers, C.S., Y. Hao, T. Rokhlina, M. Samuel, D.A. Stoltz, Y. Li, E. Petroff, D.W. Vermeer, A.C. Kabel, Z. Yan, L. Spate, D. Wax, C.N. Murphy, A. Rieke, K. Whitworth, M.L. Linville, S.W. Korte, J.F. Engelhardt, M.J. Welsh, R.S. Prather. 2008. Production of CFTR null and $\Delta F508$ heterozygous pigs by AAV-mediated gene targeting and somatic cell nuclear transfer. *Journal of Clinical Investigation* 118:1571-1577. PMID 19324337.
- Ross J.W., M.D. Ashworth, D.R. Stein, O.P. Couture, C.K. Tuggle, and R.D. Geisert. (2009) Identification of differential gene expression during porcine conceptus rapid trophoblastic elongation and attachment to uterine luminal epithelium. *Physiol Genomics*. 36:140-148.
- Ross JW, Ashworth MD, Stein DR, Couture OC, Tuggle CK, Geisert RD. 2009. Identification of differential gene expression during porcine conceptus rapid trophoblastic elongation and attachment to the uterine luminal epithelium. *Physiological Genomics*; 36:140-148.
- Ruiz, A., G. Cassar, R.N. Kirkwood, R.M. Friendship, A.F. deGrau. 2009. Influence of sperm cell concentration and seminal dose volume on sow fertility. *The Pig Journal* (in press).
- Safranski, T.J. 2008. Genetic selection of boars. In: Proceedings of the VIth International Conference on Boar Semen Preservation. *Theriogenology*, 70: 1310-1316.
- Silva, C., J.R. Wood, L. Salvador, I. Kostetskii, C.J. Williams, and J.F. Strauss III. 2009. Expression profile of male germ cell-associated genes in mouse embryonic stem cell cultures treated with all-trans retinoic acid and testosterone. *Mol. Reprod. Dev.* 76:11-21.
- Slepicka, B.J., Martin, J.L., ten Broeck, R.A., Baltes, M.M., Clopton, D.T., Hall, Z.C., Hart, N.C., Kruse, S.G., Longfellow, R.A., Wiarda, J.R., Moline, K.V., Bergman, J.W., Cushman,

- R., White, B.R., Cupp, A.S. 2007. Progesterin concentrations alter follicle characteristics and may affect quality of oocytes (eggs). *Nebraska Beef Report* MP90:7-9.
- Sorensen, C.M., Rempel, L.A., Nelson, S.R., Francis, B.R., Perry, D.J., Lewis, R.V., Haas, A.L., Hansen, T.R. 2007. The hinge region between two ubiquitin-like domains destabilizes recombinant ISG15 in solution. *Biochemistry* 46(3):772-780.
- Stammer K, SL Edessary, A Barua, P Bitterman, JM Bahr, DB Hales, JL Luborsky. 2008. Selenium Binding Protein 1 expression in ovaries and ovarian tumors in the laying hen, a spontaneous model of human ovarian cancer. *Gynecologic Oncology* 109:115-121.
- Stevenson, J.S., Tenhouse, D.E., Krisher, R.L., Lamb, G.C., Larson, J.E., Dahlen, C.R., Pursley, J.R., Bello, N.M., Fricke, P.M., Wiltbank, M.C., Brusveen, D.J., Burkhart, M., Youngquist, R.S., Garverick, H.A. .2008. Detection of anovulation by Heatmount detectors and transrectal ultrasonography before treatment with progesterone in a timed insemination protocol. *J Dairy Science*. 91:2901-2915.
- Talbot, N. C. and Blomberg, L. A. The Pursuit of ES Cell Lines of Domesticated Ungulates. *Stem Cell Rev.* (In press)
- Telugu, B.P.V.L., L. Spate, R.S. Prather, J.A. Green. 2009. Acid peptidase activity released from in vitro produced porcine embryos. *Mol. Reprod. Dev.* 76:417-428. PMID 18937336.
- Ten Broeck, R.A., R.M. Pohlmann, R.A. Longfellow, M.M. Baltes, D.T. Clopton, and A.S. Cupp. 2009. Neutralization of Vascular Endothelial Growth Factor inhibitory isoforms is a more effective mechanism than treatment with angiogenic isoforms to stimulate vascular development and follicle progression in the perinatal rat ovary. *Endocrinology* (Submitted).
- Tian, X.C., J. Park, R. Bruno, R. French, L. Jiang, R.S. Prather. 2009. Altered gene expression in cloned piglets. *Reprod. Fertil. & Devel.* 21:60-66. PMID 19152746.
- Tischkau SA, RE Howell, JR Hickok, K Paradkar, JM Bahr. 2009. Effects of the luteinizing hormone surge on circadian clock gene expression in the chicken ovary. *Gen.Comp.End.* (submitted).
- Uzun A, Rodriguez-Osorio N, Kaya A, Wang H, Parrish JJ, Ilyin VA, Memili E. BMC Genomics. 2009. Functional genomics of HMGN3a and SMARCA1 in early mammalian embryogenesis. 10: 183.
- Vallet, J.L., Miles, J.R., Freking, B.A. 2009. Effect of fetal size on fetal placental hyaluronan and hyaluronoglucosaminidases throughout gestation in the pig. *Animal Reproduction Science (In Press)*.
- Wang, H., M. Ogawa, J.R. Wood, M.S. Bartolomei, M.D. Sammel, J.P. Kusanovic, S.W. Walsh, R. Romero, and J.F. Strauss III. 2008. Genetic and epigenetic mechanisms combine to

control MMP1 expression and its association with preterm premature rupture of membranes. *Hum. Mol. Genet.* 17:1087-1096.

Whitworth, K.M., R. Li, L.D. Spate, D.M. Wax, A. Rieke, J. Whyte, G. Manandhar, J.A. Green, P. Sutovsky, R.S. Prather. 2009. Method of oocyte activation affects cloning efficiency in pigs. *Mol. Reprod. Dev.* 76:490-500. PMID 19090011

Wiedmann, R.T., Smith, T.P.L., Nonneman, D.J. 2008. SNP discovery in swine by reduced representation and high throughput pyrosequencing. *BMC Genetics* 9(1):81.

Wilson, ME, Anderson, LL. 2009. Mechanistic aspects of foetal development relating to postnatal health and metabolism in pigs. *In: Managing Prenatal Development to Enhance Livestock Productivity.* Edited by P. Greenwood and A. Bell. International Atomic Energy Agency, Vienna, Austria pp. 1-48 (In press).

Xing, X, Magnani, L, Lee, K, Wang, C, Cabot, RA, Machaty, Z. 2009. Gene expression and development of early pig embryos produced by serial nuclear transfer. *Mol. Reprod. Dev.* 76:555-563.

Yi Y-J, Nagyova E, Manandhar G, Prochazka R, Sutovsky M, Park C-S, Sutovsky P (2008) Proteolytic activity of the 26S proteasome is required for the meiotic resumption, germinal vesicle breakdown, and cumulus expansion of porcine cumulus-oocyte complexes matured *in vitro*. *Biol. Reprod.*, 78(1):115-126.

Yuan, Y., Krisher, R.L. (Accepted) Effect of ammonium during *in vitro* maturation on porcine oocyte nuclear maturation and subsequent embryonic development. *Anim Reprod Sci.*

Zhang, Z., R. Jaimez, X. Shen, D. Gude, H. Tang, J.R. Wood, E. Goldberg, and J.F. Strauss III. 2009. Autoregulation of SPAG16 expression: A single gene encoding an axoneme structural protein and a transcription factor that activates the axoneme protein promoter. *Nucleic Acids Res.* (Submitted).

Zhao H, K Reim, N Brose, and DJ Miller. 2008. Complexin I deficient sperm are subfertile due to defects in the acrosome reaction. *Reproduction.* 136:323-334.

Zhao J, Hao Y, Ross JW, Spate L, Walters E, Samuel MS, Rieke A, Murphy CN, Prather RS. Histone deacetylase inhibitors improve *in vitro* and *in vivo* developmental competence of somatic nuclei nuclear transfer porcine embryos. *Molecular Reproduction and Development* (Submitted)

Zhao J, Ross JW, Hao Y, Wax DM, Spate LD, Walters EM, Samuel MS, Rieke A, Murphy CN, Prather RS. Improved *in vitro* and *in vivo* developmental competence of somatic nuclei nuclear transfer porcine embryos after treatment with histone deacetylase inhibitors. *Biology of Reproduction* (In Press).

Zhao, J., Y. Hao, J.W. Ross, L.D. Spate, E.M. Walters, M.S. Samuel, A. Rieke, C.N. Murphy, R.S. Prather. 2009. Significant improvement in cloning efficiency of an inbred miniature pig by Scriptaid treatment after somatic cell nuclear transfer. *Biology of Reproduction* (accepted 4/8/09).

Zhao, M., S.C. Isom, H. Lin, Y. Hao, J. Zhao, J. Whyte, K.B. Dobbs, Y. Zhang, R.S. Prather. 2009. Tracing the stemness of GFP transgenic porcine skin derived progenitors (pSKP) back to specific marker gene expression. *Cloning and Stem Cells* 11:111-122 PMID 19226215.

Zhong, Z., Y. Hao, R. Li, L. Spate, D. Wax, Q.-Y. Sun, R.S. Prather, H. Schatten. 2008. Mitochondria distribution and translocation in cloned porcine embryos: an analysis with fluorescence and transmission electron microscopy. *Microsc Microanal.* 14:418-432. PMID 18793486.

Zhuge Y, JAJ Lagman, K Ansenberger, C Mahon, T Daikoku, SK Dey, JM Bahr, DB Hales. 2009. CYP1B1 expression in ovarian cancer in the laying hen *Gallus domesticus*. *Gynecol. Oncology* 112:171-178

Proceedings

Flowers, W.L. 2008. Anatomy and physiology of the boar. Proceedings, 2008 Midwestern Boar Stud Managers' Conference. 10-16.

Flowers, W.L. 2008. Management factors that affect boars before they arrive at the stud. Proceedings, 2008 Midwestern Boar Study Managers' Conference, 45-52.

Knox, R. D. Levis, T. Safranski, and W. Singleton. 2008. North American Boar Stud Survey Summary. Proc. of the Midwest Boar Stud Managers Conference III. St. Louis, MO.

Purdy, P, et al., 2008. Perspective on cryopreservation, quality control, and artificial insemination of frozen thawed boar sperm in a national repository. Proc. of the Midwest Boar Stud Managers Conference III. St. Louis, MO.

Slattery, R.G., S.G. Kruse, M.M. Baltes-Breitwisch, J.L. Martin, D.M. Larson, D.T. Clopton, K.V. Moline, J.W. Bergman, and A.S. Cupp. Pre and peri-pubertal feeding of melengesterol acetate (MGA) alters testis characteristics in bulls. 2008 Nebraska Beef Report p. 10. University of Nebraska-Lincoln.

Abstracts

Barua A, JS Abramowicz , P Bitterman , JM Bahr , DB Hales , JL Luborsky. 2008. Transvaginal ultrasound predicts ovarian tumor associated neo-angiogenesis. *Ultrasound Obstet Gynecol.*, 32(3):370.

Biancardi M, Magnani, L, Johnson, CM, Cabot, RA. 2009. Transcript abundance of methyltransferases specific for H3K9 differ at discrete stages of porcine oocyte and embryo development. *Reproduction Fertility and Development*, volume 21(1), abstract #178.

- Caperna, T. C., Shannon, A. E., Ramsay, T. G., Blomberg L. A., and Garrett, W. M. 2009. Analysis of protein oxidation in serum of fetal and newborn piglets and the influence of iron dextran on induction of protein carbonyls. Annual meeting for American Society of Animal Science (abstract).
- Cockerill, K., J. Kerl, and J. Wood. 2008. Expression of the mitotic kinases Nek2 and Nek4 is coordinately regulated in the ovary during estrus. Biol. Repro. 2008 Special Issue:241.
- Collins ED, C Korneli, and DJ Miller. 2008. Glycomic analysis of saccharides that bind porcine sperm. Joint Meeting of the American Dairy Science Association and the American Society of Animal Science.
- Cupp, A., R. TenBroeck, and D. Clopton. 2008. Vascular endothelial growth factor A 164b (Vegfa164b) inhibitory isoform is up-regulated in bovine granulosa cells prior to the LH surge may be a marker of follicle status. Biol. Repro. 2008 Special Issue:215.
- Cupp, A.S., R.C. Bott, R. Pohlmann, R.A. Ten Broeck, and D.T. Clopton. 2008. Regulation of vascular endothelial growth (VEGFA) isoforms may be a mechanism to regulate sex-specific vascular development, cord formation and follicle progression within developing gonads. J. Vasc. Res. 45(Suppl. 2):15.
- D.R. Eborn, D.L. Davis, D.M. Grieger. 2009. Cloning and expression of pluripotent factors around the time of gastrulation in the porcine conceptus. Proceedings of the International Conference on Pig Reproduction, Banff, Alberta, June 1-4.
- Dekkers, JCM, Cai, W, Lkhagvadorj, S, Couture, O, Tuggle, CK, Nettleson, D, Anderson, LL. 2008. Genetic aspects of Residual Feed Intake in Pigs. 41st Annual Meeting of ASAS Midwestern Sectional-ADSA Midwestern Branch Meeting, March 17-19, 2008, Polk County Convention Complex, Des Moines, IA, No. 46, p. 15.
- Flowers, W.L. 2007. Genetic and phenotypic variation in reproductive traits of A.I. boars. Proceedings, 7th International Conference on Boar Semen Preservation, pp. 21-22.
- Flowers, W.L. 2008. Opportunities for improving sperm production in boars. J. Anim. Sci. 86 (E-Suppl. 3):45.
- Flowers, W.L., Spears, J.W., and Nielson, F.W.. 2007. Effect of boron supplementation on semen quality in mature boars. J. Anim. Sci. 85 (suppl. 1):538.
- Johnson, C M, Cabot, RA. 2009. The histone methyltransferase Suv39h2 adopts a nuclear localization during cleavage development in parthenogenetic porcine embryos. *Reproduction Fertility and Development*, volume 21(1), abstract #4.
- Kimball EM, Wyman G, Stein DR, Ross JW, Ashworth MD, Geisert RD, White FJ. 2009. Estrogen and interleukin-1B regulation of trophinin, osteopontin, cyclooxygenase-1,

cyclooxygenase-2, and interleukin-1B system in the porcine uterus. 8th International Conference on Pig Reproduction. Banff, Alberta, Canada, May 31-June 4.

Knorr, A.K., Clapper, J.A. 2008. Effects of genistein on serum and anterior pituitary (AP) concentrations of IGF-I and IGF binding proteins (IGFBP) in barrows. *J. Anim. Sci.* 86 (Suppl. 3):226.

Krisher, R.L. 2008. Components of oocyte quality in the pig. *Biol Reprod Special Issue* (abst. 755).

Kruse, S.G., R.G. Slattery, D.T. Clopton, and A.S. Cupp. 2008. Effects of Vascular Endothelial Growth Factor (VEGF) isoforms on rat testis composition and germ cell numbers. Rocky Mountain Reproductive Sciences Symposium. p. 14.

Liu C, P Tsai, AM Garcia Rivera, B Logeman, DJ Miller, and TS Tanaka. 2009. Downregulation of Reproductive homeobox gene 6 (Rhox6) interferes with male germ cell differentiation. 42nd Annual Meeting of the Society for the Study of Reproduction.

Lkhagvadorj, S, Qu, L, Cai, W, Couture, OP, Barb, CR, Hausman, GJ, Nettleton, D, Anderson, LL, Dekkers, JCM, Tuggle, CK. 2009. Leptin mediates discriminate response to feed restriction in feed efficient pigs. *Experimental Biology FASEB Journal* 23:1375. (New Orleans)

Lkhagvadorj, S, Qu, L, Cai, W, Couture, OP, Wang, Y, Barb, CR, Hausman, GJ, Rekaya, R, Nettleton, DS, Anderson, LL, Dekkers, JCM, Tuggle, CK. 2008. Use of transcriptional profiling to understand genetic mechanisms responding to fasting in pigs. 41st Annual Meeting of ASAS Midwestern Sectional—ADSA Midwestern Branch Meeting, March 17-19, 2008, Polk County Convention Complex, Des Moines, Iowa. Abstract No. 113, p. 36-37.

Lkhagvadorj, S, Qu, L, Cai, W, Couture, OP, Wang, Y, Barb, CR, Hausman, GJ, Rekaya, R, Nettleton, D, Anderson, LL, Dekkers, JCM, Tuggle, CK. 2008. Sterol regulatory transcription factor-1: key regulator of fasting response in the adipose tissue in pigs. *Experimental Biology FASEB Journal* 22:(No. 5) 1205.6. (San Diego)

Lovercamp, K.W., Seal. M.C., and Flowers, W.L. 2007. Effect of collection frequency and extender on sperm quality parameters and membrane lipid peroxidation in boars. Proceedings, 7th International Conference on Boar Semen Preservation, pp. 17.

Mathew, DJ, Sellner, EM, Okamura, CS, Geisert, RD, Anderson, LL, Lucy, MC. 2009. Effect of progesterone (P) antagonist RU486 on uterine progesterone receptor (PGR) mRNA expression, embryonic development and ovarian function during early pregnancy in pigs. 42nd Annual Meeting of ASAS Midwestern Sectional—ADSA Midwestern Branch Meeting, March 16-18, 2009, Polk County Convention Complex, Des Moines, IA. Abstract No. 78. pp. 24-25.

- Paczkowski, M.J., C.Bidwell, J.Waddell, D. Spurlock, R.L. Krisher 2008. In vitro maturation alters gene expression in mouse oocytes. *Reprod. Fertil. Dev.* 20(1):82 (abstr. 3).
- Paczkowski, M.J., Fleming-Waddell C.A. Bidwell, R.L. Krisher. 2009. Maternal age alters fetal and placental development and expression of methylated genes. *Reprod Fertil Dev.* 21(1):194 (abstr. 191).
- Park, KE, Cabot, RA. 2009. Distribution of dimethylation of histone H3K9 is not affected by DNA, mRNA and protein synthesis in pronuclear stage porcine embryos. *Reproduction Fertility and Development*, volume 21(1), abstract #215.
- Parrish, JJ. 2009. Fourier harmonics to determine the relationship between sperm nuclear shape and boar fertility. Sectional Meeting Abstracts (Vol. 87, e-Suppl. 3) of Journal of Animal Science.
- Prather RS, Ross JW, Whyte JJ, Hao, Y, Zhao, J. 2008. Biomedical research benefits from genetically modified swine. Swine in Biomedical Research Conference. San Diego, CA, Aril 2-3.
- Ross JW, Whyte JJ, Zhao J, Samuel M, Wells KD, Prather RS. 2008. Optimization of square-wave electroporation for transfection of porcine fetal fibroblasts. Swine in Biomedical Research Conference. San Diego, CA, Aril 2-3.
- Ross JW, Zhao J, Walters EM, Samuel M, Narfstrom K, Jeong M, DeMarco PJ, McCall MA, Kaplan HJ, Prather RS. 2009. Somatic cell nuclear transfer to create a miniature swine model of retinitis pigmentosa. Experimental Biology. New Orleans, LA. April 18-22.
- Scanes, CG, Glavaski-Joksimovic, A, Johannsen, SA, Jeftinija, S, Anderson, LL. 2008. Subpopulations of chicken somatotropes with differing intracellular calcium concentrations responses to secretagogues. *Animal Industry Report*. A.S. Leaflet R2327.
- Schindler, J.R., R.L. Monson, K.L. Willenburg and J.J. Parrish. 2009. Differences in bull sperm nuclear shape between flow-sorted and non-sorted sperm using Fourier Harmonic Analysis. *Reprod. Fert. Develop.* 21(1):231.
- Sellner E, Mathew D, Ross JW, Okamura C, Wells K, Geisert RD, Lucy M. 2009. Characterization of progesterone receptor (PGR) mRNA isoforms in the endometrium of cyclic and pregnant pigs. 8th International Conference on Pig Reproduction. Banff, Alberta, Canada, May 31-June 4.
- Sellner EM, Ross JW, Okamura CS, Wells KD, Geisert RD, Lucy MC. 2009. Characterization of progesterone receptor (PGR) mRNA isoforms in the endometrium of cyclic and pregnant pigs. ASAS Midwestern Section Meeting. Des Moines, IA, March 16-18.
- Silva, E., R.Krisher. 2009. Leptin and glucose influence porcine nuclear maturation. *Reprod Fertil Dev.* 21(1):226 (abstr. 256).

- Slattery, R., S. Kruse, D. Clopton, and A. Cupp. 2008. Vascular Endothelial Growth Factor (VEGFA) inhibitory isoforms regulate follicle formation and progression in the in vivo perinatal rat ovary. *Biol. Repro.* 2008 Special Issue:215.
- Taylor, A.R., Clapper, J.A. 2007. Serum and anterior pituitary (AP) concentrations of IGF-I and relative amounts of AP IGF binding proteins throughout the estrous cycle in gilts. *J. Anim. Sci.* 85 (Suppl. 1):270.
- Taylor, A.R., Clapper, J.A. 2008. Genistein reduces TNF α release from equine monocytes. *J. Anim. Sci* 86 (Suppl 2):94.
- Tuggle CK, Zhao S-H, Qu L, Wang Y-F, Couture OP, Kuhar D, Lunney JK, Ross JW, Lucy M, Dekkers JC, Geisert RD. 2008. Transcript profiling of porcine endometrium identifies significant differential expression between Meishan and Yorkshire breeds at the reproductive stagecritical for successful implantation. Plant and Animal Genome XVI Conference. San Diego, CA, January 12-16.
- Turner, F.B., Kinney, K.J., Thompson, L.M., Shute, S.E., Flowers, W.L., Pratte, B. and Schultz, R.A. 2007. Effect of bacitracin supplementation on lactation management, neonatal piglet performance, and subsequent reproductive performance of sows. *J. Anim. Sci.* 85 (suppl. 1): 578-579.
- Vallet, J.L., Freking, B.A. 2007. New genetic marker may produce larger litters. *National Hog Farmer*, January.
- Wang, X, Magnani, L, Cabot, RA. 2009. Karyopherin alpha expression in porcine oocytes and embryos produced by in vitro fertilization. *Reproduction Fertility and Development*, volume 21(1), abstract #198.
- Willard, R. R., Meekin, J. H., Peters, G. W., Baun, M. J., Gerlach, J. C., Talbot, N. C., and Caperna, T. J. 2008. Morphology and Metabolic Activity of a Porcine Liver Stem Cell Line (PICM-19) Maintained in a Multicompartment Hollow Fiber Bioreactor for Two Weeks. Am soc of artificial internal organs, San Francisco (abstract)
- Woods, C, Dorsey, K., Mohler, J., Guthrie, D., and Welch, G. 2009. Short-term storage of Atlantic Sturgeon spermatozoa. American Fisheries Society 139th Annual Meeting. (Abstract 0452)
- Yuan, Y., R.L. Krisher 2008. The presence of ammonium in chemically defined maturation medium inhibits porcine oocyte nuclear maturation and subsequent embryonic development in vitro. *Reprod. Fertil. Dev.* 20(1):208-209 (abst. 257).
- Yuan, Y., R.L. Krisher. 2009. Glutaredoxin pathway genes are differentially expressed in mature porcine oocytes with varying developmental potentials.

- Zhao J, Hao Y, Ross JW, Wax D, Spate L, Walters E, Samuel M, Murphy CN, Prather RS. 2008. Production of transgenic pigs carrying human coagulation factor VIII, von Willebrand factor and alpha-antitrypsin by somatic cell nuclear transfer. Swine in Biomedical Research Conference. San Diego, CA, April 2-3.
- Zhao J, Ross JW, Hao Y, Wax DM, Spate LD, Samuel MS, Walters EM, Rieke A, Murphy CN, Prather RS. 2009. Histone deacetylases inhibitor -Scriptaid, is beneficial to the reprogramming of somatic nuclei following nuclear transfer. 35th Annual Conference for the International Embryo Transfer Society. San Diego, CA, January 3-7.
- Zhao J, Ross JW, Whyte JJ, Wax DM, Spate LD, Samuel MS, Walters EM, Rieke A, Murphy CN, Wells KD, Prather RS. 2009. Production of transgenic pigs carrying human coagulation factor IX, the furin propeptide cleavage enzyme and SERPINA1 by somatic cell nuclear transfer. 8th International Conference on Pig Reproduction. Banff, Alberta, Canada, May 31-June 4.
- Zhao MT, Isom CS, Zhao J, Hao Y, Ross JW, Whyte J, Zhang Y, Prather RS. 2009. Cooperative expression of pluripotent related genes and neural crest marker genes in porcine GFP-transgenic skin derived progenitors. 35th Annual Conference for the International Embryo Transfer Society. San Diego, CA, January 3-7.