

Faculty Publications continued from page 4

Stevens JD, Sosa JM, deAvila DM, Oatley JM, Bertrand KP, Gaskins CT, **Reeves JJ.** (2005) Luteinizing hormone-releasing hormone fusion protein vaccines block estrous cycle activity in beef heifers. *J Anim Sci.* 83(1):152-9.

Edberg DD, Adkins JN, Springer DL, **Reeves R.** (2005) Dynamic and differential in vivo modifications of the isoform HMGA1a and HMGA1b chromatin proteins. *J Biol Chem.* 280(10):8961-73.

Bugarith K, Dinh TT, Li AJ, Speth RC, **Ritter S.** (2005) Basomedial hypothalamic injections of neuropeptide Y conjugated to saporin selectively disrupt hypothalamic controls of food intake. *Endocrinology.* 146(3):1179-91.

Tucker TA, Kundert JA, Bondareva AA, **Schmidt EE.** (2005). Reproductive and neurological Quaking (viable) phenotypes in a severe combined immune deficient mouse background. *Immunogenetics.* [Epub ahead of print].

Bejjani BA, Saleki R, Ballif BC, Rorem EA, Sundin K, Theisen A, Kashork CD, **Shaffer LG.** (2005) Use of targeted array-based CGH for the clinical diagnosis of chromosomal imbalance: is less more? *Am J Med Genet A.* 134(3):259-67.

Chuang L, Wakui K, Sue WC, Su MH, **Shaffer LG,** Kuo PL. (2005) Interstitial deletion 11(p11.12p11.2) and analphoid marker formation results in inherited Potocki-Shaffer syndrome. *Am J Med Genet A.* 133(2):180-3.

Gajecka M, Yu W, Ballif BC, Glotzbach CD, Bailey KA, Shaw CA, Kashork CD, Heilstedt HA, Ansel DA, Theisen A, Rice R, Rice DP, **Shaffer LG.** (2005) Delineation of mechanisms and regions of dosage imbalance in complex rearrangements of 1p36 leads to a putative gene for regulation of cranial suture closure. *Eur J Hum Genet.* 13(2):139-49.

Mendoza-Londono R, Kashork CD, **Shaffer LG,** Krance R, Plon SE. (2005) Acute lymphoblastic leukemia in a patient with Greig cephalopolysyndactyly and interstitial deletion of chromosome 7 del(7)(p11.2 p14) involving the GLI3 and ZNFN1A1 genes. *Genes Chromosomes Cancer.* 42(1):82-6.

Hirano S, Sun X, Deguzman CA, Ransom RE, McLeish KR, Smoyer WE, **Shelden EA,** Welsh MJ, Benndorf R. (2005) p38 MAPK/HSP25 signaling mediates cadmium-induced contraction of mesangial cells and renal glomeruli. *Am J Physiol Renal Physiol.* [Epub ahead of print].

Yancy SL, **Shelden EA,** Gilmore RR, Welsh MJ. (2005) Sodium arsenite exposure alters cell migration, focal adhesion localization and decreases tyrosine phosphorylation of focal adhesion kinase in H9C2 myoblasts. *Toxicol Sci.* 84(2):278-86.

Muir T, Sadler-Riggelman I, **Skinner MK.** (2005) Role of the Basic Helix-Loop-Helix Transcription Factor, Scleraxis, in the Regulation of Sertoli Cell Function and Differentiation. *Mol Endocrinol.* [Epub ahead of print].

Kezele PR, Ague JM, Nilsson E, **Skinner MK.** (2005) Alterations in the ovarian transcriptome during primordial follicle assembly and development. *Biol Reprod.* 72(1):241-55.

Paranjpye RN, **Strom MS.** (2005) A Vibrio vulnificus type IV pilin contributes to biofilm formation, adherence to epithelial cells, and virulence. *Infect Immun.* 73(3):1411-22.

Jackson LF, McCormick SD, Madsen SS, **Swanson P,** Sullivan CV. (2005) Osmoregulatory effects of hypophysectomy and homologous prolactin replacement in hybrid striped bass. *Comp Biochem Physiol B Biochem Mol Biol.* 140(2):211-8.

Rzeznicka K, Walker CJ, Westergren T, Kannangara CG, **von Wettstein D,** Merchant S, Gough SP, Hansson M. (2005) Xantha-1 encodes a membrane subunit of the aerobic Mg-protoporphyrin IX monomethyl ester cyclase involved in chlorophyll biosynthesis. *Proc Natl Acad Sci U S A.* 102(16):5886-91.

Veillette PA, **Young G.** (2005) Tissue culture of sockeye salmon intestine: functional response of Na+, K+-ATPase to cortisol. *Am J Physiol Regul Integr Comp Physiol.* [Epub ahead of print].

Rolf Ingermann (Biological Sciences, UI) Col River Fish Comm., \$55,586
Rolf Ingermann (Biological Sciences, UI) Col River Fish Comm., \$42,150
Heiko Jansen (VCAPP, WSU) Office of Research/WSU, \$6,246
Heiko Jansen (VCAPP, WSU) USDA, \$280,000
Paige Lawrence (Pharm. Sci, WSU), NIEHS, \$590,000
Paige Lawrence (Pharm. Sci, WSU), NIEHS, \$300,000
Mark McGuire (Animal, Vet. Sciences, UI) USDA, \$30,100
Michelle McGuire (Food Science, WSU) We Are Booked, \$10,000
Kathryn Meier (Pharmaceutical Sciences, WSU) DHHS, \$238,050
Barrie Robison (Biological Sciences, UI) USDA, \$34,958
Ed Schmidt (Montana State University) NIH, \$1,741
Ed Schmidt (Montana State University) NSF, \$635,596
Lisa Shaffer (HREC, WSU Spokane) HECB, \$1,500
Steve Sheppard (Entomology, WSU) Non Fed Research, \$500
Steve Sheppard (Entomology, WSU) Non Fed Research, \$500
Lisa Shipley (Natural Resource Sciences, WSU) BLM, \$25,000
Michael Skinner (School of Molecular Biosciences, WSU) NIEHS, \$264,240
Mechthild Tegeder (School of Biological Sciences, WSU) NSF, \$130,981

Center For Reproductive Biology Calendar

- 5/11/05 "Sex in Fungi: The Role of Mating Type Genes and Female/Male Functions in Aspergillus Nidulans" Dr. Bruce Miller, UI, CUE 202, 4:10-5:00 pm.
- 5/25/05 "Mouse Models to Study Testicular Somatic & Germ Cell Biology" Dr. T. Rajendra Kumar, Department of Molecular and Integrative Physiology, University of Kansas Medical Center, CUE 202, 4:10-5:00 pm.
- 6/23/05 Annual Center for Reproductive Biology Retreat, Camp Three Meadows, Dworshak Reservoir.
- 7/13/05 "Plant Reproduction" Dr. Diter von Wettstein, WSU, CUE 202, 4:10-5:00 pm.
- 7/20/05 "TGF-beta Signaling" Dr. Teresa Woodruff, Neurobiology and Physiology Department, Northwestern University, CUE 202, 4:10-5:00 pm.
- 7/24/05 38th Annual Meeting of the Society for the Study of Reproduction, Quebec City Convention Centre, Quebec, Canada.
- 8/10/05 "Reproductive Disease" Dr. Allan Caplan, UI, CUE 202, 4:10-5:00 pm.
- 8/24/05 "Bovine Genomics" Dr. Tim Womak, CUE 219, 4:10-5:00 pm.
- 9/7/05 "Fly Now, Die Later: Slow Aging and Delayed Fertility Loss in Birds" Dr. Donna Holmes, UI, CUE 219, 4:10-5:00 pm.
- 9/21/05 "Molecular and Cellular Biology of the Epididymis" Dr. Marie-Claire Orgebin-Crist, Department of Cell and Developmental Biology, Obstetrics and Gynecology, Vanderbilt University, CUE 219, 4:10-5:00 pm.

Center Faculty

- Amin Ahmadzadeh, UI
- Gustova Arrizabalaga, UI
- John Brown, WSU
- John Browse, WSU
- Ken Cain, UI
- Doug Call, WSU
- Allan Caplan, UI
- Jaideep Chaudhary, WSU
- Ricardo Chebel, UI
- Joe Cloud, UI
- Doug Cole, UI
- Laura Corley, WSU
- Joe Dalton, UI
- Chris Davies, WSU
- Andy Dittman, NMFS
- Joanna Ellington, WSU Spokane
- Victor Eroschenko, UI
- Lee Fortunato, UI
- Michael Griswold, WSU
- Ron Hardy, UI
- Terry Hassold, WSU
- Chengtao Her, WSU
- Donna Holmes, UI
- Zonglie Hong, UI
- Howard Hosick, WSU
- Patricia Hunt, WSU
- Rolf Ingermann, UI
- Heiko Jansen, WSU
- Zhihua Jiang, WSU
- Jill Johnson, UI
- Kwan Hee Kim, WSU
- B. Paige Lawrence, WSU
- R. Wes Leid, WSU
- Suzanne Lindsey, WSU
- Jessica Lynch-Alfaro, WSU
- Andrew McCubbin, WSU
- Mark McGuire, UI
- Shelley McGuire, WSU
- Derek McLean, WSU
- John McNamara, WSU
- Kathryn Meier, WSU
- Rodney Mead, UI
- Mushtaq Memon, WSU
- Bruce Miller, UI
- James Nagler, UI
- John Nilson, WSU
- Troy Ott, UI
- Tobin Peever, WSU
- Ruth Phillips, WSU Vancouver
- Joe Poovaiah, WSU
- Jerry Reeves, WSU
- Ray Reeves, WSU
- Sandra Ristow, WSU
- Sue Ritter, WSU
- Andy Roberts, USDA-ARS
- Barrie Robison, UI
- Dan Rodgers, WSU
- R. Garth Sasser, UI
- Ed Schmidt, MSU
- Chris Schneider, UI
- Paul Schroeder, WSU
- Hubert Schwabl, WSU
- Philip Senger, WSU
- Lisa Shaffer, WSU Spokane
- Eric Shelden, WSU
- Steven Sheppard, WSU
- Milan Shipka, University of Alaska
- Lisa Shipley, WSU
- Michael Skinner, WSU
- Kevin Snekvik, WSU
- John Stellflug, USDA
- Deborah Stenkamp, UI
- Mark Strom, NMFS
- Penny Swanson, NMFS
- Steven Sylvester, WSU Vancouver
- Loverine Taylor, WSU
- Mechthild Tegeder, WSU
- Gary Thorgaard, WSU
- Ahmed Tibary, WSU
- Dirk Vanderwall, UI
- Paul Verrell, WSU
- Diter von Wettstein, WSU
- Mike Webster, WSU
- Gordon Woods, UI
- Ray Wright, WSU
- Bill Young, UI
- Graham Young, UW

Contact Information

Center for Reproductive Biology
Phone: 509-335-2473
Fax: 509-335-2176
E-mail: crb@wsu.edu
Web: www.reproduction.wsu.edu

CENTER REPORT

Spring 2005

Director's Message

The Center Report is used to inform the University community and interested individuals of the recent activities and accomplishments of the Center for Reproductive Biology. The Center for Reproductive Biology is an organized research unit between Washington State University and the University of Idaho. It is internationally recognized as a center of excellence in the area of reproductive biology research. The primary goals of the Center are to foster the highest quality research, promote research collaborations, enhance multi-investigator grants, and enhance the training and education programs in the area of reproductive biology.

The Center now has 86 faculty and more than 250 trainees and staff. The Center integrates 7 Colleges and 17 Departments between the two Universities and is one of the largest Centers in the area of reproductive biology in the country. Our bi-weekly Workshop and Seminar program continues to include a wide range of outside speakers involved in reproductive biology. Several of the research programs in the Center are making progress as discussed in the Report. Also included are some of the accomplishments of the faculty over the past five months. For more information, please visit our Web site at www.reproduction.wsu.edu.

Michael K. Skinner, Director
Center for Reproductive Biology



World Class. Face to Face.



Worthy of Note:

Experimental Cell Research Cover Feature

Dr. Eric Shelden, an expert in reproductive cancer research, focuses his research on the protein biochemistry and biology of hsp27/MCF-07 cells. Dr. Shelden and colleagues had an article featured on the cover of the May issue of *Experimental Cell Research*. The article, "Cloning, characterization, and heat stress-induced redistribution of a protein homologous to human hsp27 in the zebrafish *Danio rerio*," provides information on the regulation and function of mammalian and teleost Hsp27 proteins and defines zebrafish as a new model for the study of Hsp27 function. The manuscript reports the sequence, expression, regulation, and function of a zebrafish protein (zfHsp27) homologous to human Hsp27. Congratulations Dr. Shelden and colleagues!

Biology of Reproduction Cover Feature

The Society for the Study of Reproduction monthly publication, *Biology of Reproduction*, one of the most highly cited journals in the field of reproductive biology, recently featured a major scientific publication by Drs. Jaideep Chaudhary and Michael Skinner. Dr. Chaudhary, Dr. Skinner, and colleagues suggest that over-expression of Id1 and Id2 genes in a post-mitotic terminally differentiated cell type has the capacity to induce re-entry into the cell cycle and initiate cellular proliferation. The manuscript suggests a potential for future applications in model systems of terminally differentiated cell types such as neurons or myocytes. The article is entitled "The Helix-Loop-Helix Inhibitor of Differentiation (Id) Proteins Induce Post-Mitotic Terminally Differentiated Sertoli Cells to Re-enter the Cell Cycle and Proliferate," Vol. 72:1205-1217 of the *Biology of Reproduction* journal.

Conjugated Linoleic Acid and Lactation

Recent articles published by Dr. Mark McGuire, Animal and Veterinary Sciences, UI and Dr. Shelley McGuire, Department of Food Science and Human Nutrition, WSU investigates conjugated linoleic acid (CLA), milk fat, and lactation. Isomers of CLA decrease milk fat, alter immunity and reduce the risk of cardiovascular disease in some animals. Recent studies have investigated the effects of seasonal variation on CLA in milk fat, effects of diet on milk fat content, and role of CLA on milk fat and immunity of lactating women. The McGuires and their collaborators are developing a better understanding of nutrition and lactation, and its impact on health.

Nudda A, McGuire MA, Battacone G, Pulina G. (2005) Seasonal variation in conjugated linoleic acid and vaccenic acid in milk fat of sheep and its transfer to cheese and ricotta. *J Dairy Sci.* 88(4):1311-9.

Ritzenthaler KL, McGuire MK, McGuire MA, Shultz TD, Koepf AE, Luedecke LO, Hanson TW, Dasgupta N, Chew BP. (2005) Consumption of conjugated linoleic acid (CLA) from CLA-enriched cheese does not alter milk fat or immunity in lactating women. *J Nutr.* 2005 Mar; 135(3):422-30.

Anderson NK, Beerman KA, McGuire MA, Dasgupta N, Griinari JM, Williams J, McGuire MK. (2005) Dietary fat type influences total milk fat content in lean women. *J Nutr.* 2005 Mar; 135(3):416-21.

News

The Loss of a Center Member

Please join me in extending our deepest condolences to the family, colleagues, and friends of the late Dr. Vincent Franceschi. Dr. Franceschi died unexpectedly at Pullman Regional Hospital on April 30, 2005, at the age of 52. His exceptional research activity, infectious positive spirit, and unique ability to motivate others will be missed.

Vince earned his doctoral degree in botany from the University of California Davis in 1981, beginning a career that was frequented by much deserved honors and awards. After receiving his doctorate, Vince held a position as a Visiting Scientist at E.I duPont de Nemours and Company, Experimental Station in Wilmington, Delaware. Upon completion of this training in 1982 Vince was hired as an Assistant Professor in the Botany Department of Washington State University. According to those on the search committee at the time, Vince was in a league of his own compared to fellow applicants, standing out as a prolific speaker, outstanding academic, and soon to be a noteworthy researcher.

Vince rose quickly through the academic ranks and was appointed Full Professor in 1992. He also became the Director of the Electron Microscopy Center at Washington State University in 1994 and by the year 2001 Vince accepted a second directorship to oversee the recently formed School of Biological Sciences. His skillful administrative style led the school to new heights of success, adding new faculty, refocusing the undergraduate course offerings, and developing a lasting reputation for the school as a place to develop and learn excellence in biological research and teaching.

Vince held an extraordinary record for collaborative research projects with scientists throughout the world. His rapport with the research community and support of his colleagues' research endeavors led to his ability to identify and maintain strong collaborative connections across multiple disciplines. Additionally, Vince's dedication to plant science allowed his skillful procurement of extramural research funding and insightful collaborations with other investigators.

Vince will be remembered for his kindness, his leadership abilities, his intellect, and his extraordinary dedication to science. With his passing we are challenged to provide the open-door policy and encouragement for interactions that Vince always fostered. He will be greatly missed and impossible to replace.

Faculty Spotlight: Dr. Milan Shipka

Dr. Milan Shipka is an Associate Professor in the Department of Plant, Animal, and Soil Sciences at the University of Alaska Fairbanks. Dr. Shipka received his doctorate in mammalian physiology from the Department of Biology at Utah State University in 1996. Milan was simultaneously the Director of the Cain Dairy Teaching and Research Center at Utah State University during his graduate career. He moved into the position of Assistant Professor of Animal Science in 1999 at the University of Alaska Fairbanks until his promotion to Associate Professor in 2002. In 2000 Dr. Shipka joined the faculty of the Center for Reproductive Biology and has remained actively involved since that time.

Dr. Shipka's research involves a variety of projects that have at their base the investigation of applied reproductive management of traditional and alternative ruminant livestock species including sheep, cattle, and bison. Since moving to Alaska in 1999, the major emphasis of Milan's research has been on reproduction in reindeer and musk oxen. Additional efforts to detect estrous behavior and estrous synchronization in dairy, beef, and bison in production settings at high latitudes are also a part of Dr. Shipka's research.

Dr. Shipka is currently working with the Center's Assay Core Laboratory to run estrogen assays and he collaborates with Dr. Jerry Reeves from Washington State University. Milan was our first Adjunct Center Faculty Member and has participated in numerous Center Retreats and Northwest Reproductive Science Symposia. We look forward to future interactions.

Center Retreat

The 9th annual Center for Reproductive Biology Retreat will be held on June 23-24, 2005, at Camp Three Meadows at Dworshak Reservoir. The retreat provides Center members and trainees an opportunity to share their research and collaborate on future endeavors. Both research presentations and a poster session are planned. This year Dr. Mary Hunzicker-Dunn will be our guest speaker. Dr. Hunzicker-Dunn is currently a Professor in the Department of Cellular and Molecular Biology at Northwestern University whose research endeavors to elucidate the signaling pathways by which the prototypical glycoprotein hormones follicle stimulating hormone (FSH) and luteinizing hormone (LH) signal to initiate cellular responses of differentiation and proliferation. Please mark your calendars and plan on attending the retreat. More information and registration can be obtained by viewing the meetings section of the Center's Web site, www.reproduction.wsu.edu.

Center Faculty Awards

Please join us in congratulating Dr. Mechthild Tegeder on receiving the Young Faculty Performance Award from the College of Sciences at WSU. Dr. Tegeder is an Assistant Professor in the School of Biological Sciences at WSU studying plant reproduction. Congratulations Mechthild!

Items of Interest

New Center Faculty

Please welcome new faculty members Dr. Ed Schmidt, Dr. Andy Roberts, Dr. Ricardo Chebel, Dr. Zonglie Hong, and Dr. Chris Schneider.

Dr. Ed Schmidt is an Assistant Professor with the Department of Veterinary Molecular Biology at Montana State University. Dr. Schmidt's research focuses on early embryonic patterning and development, placental development, germ cell maturation, immune cell functions, and the maternal/fetal immune interaction.

Dr. Roberts is a Research Scientist in the USDA-ARS at Fort Keogh Livestock and Range Research Laboratory in Miles City, Montana. Dr. Robert's research involves the study of physiological processes by which genetic and environmental factors influence reproduction, thereby facilitating the ability to match the genotype of cows with production environment.

Dr. Ricardo Chebel is an Assistant Professor in the Animal and Veterinary Science Department at UI. Dr. Chebel's research interest is focused on production medicine emphasizing reproductive biology and biotechnology of dairy and beef cattle. Recently, he has developed studies that evaluate the effects of hormonal manipulation of the estrous cycle to improve conception and reduce embryonic loss and to optimize superovulation response in the bovine species.

Dr. Zonglie Hong is an Assistant Professor in the Department of Microbiology, Molecular Biology, and Biochemistry at UI. Dr. Hong's research is in the area of plant reproduction biology. Specifically, Zonglie examines the regulation of callose synthesis during pollen formation. One of Dr. Hong's primary aims is to identify and characterize new components of the CalS5 complex from developing flowers.

Dr. Schneider is an Assistant Professor in the Department of Animal and Veterinary Sciences at the University of Idaho. Dr. Schneider's research involves the study of early embryonic death and its relationship to events early in lactation of the dairy cow. Additionally, Chris is examining dairy bull breeding soundness examinations and dairy bull fertility.

Welcome to the Center for Reproductive Biology, Drs. Schmidt, Roberts, Chebel, Hong, and Schneider. We look forward to your participation in collaborative research efforts and the many activities the Center sponsors.

Center Faculty News

Please join us in congratulating Dr. Ahmed Tibary who will study sperm physiology in camelid species as it relates to freezing, artificial insemination, and in vitro fertilization at the Veterinary School of the Institut Agronomique et Veterinaire in Hassan, Morocco, between September 2005 and January 2006. Congratulations Ahmed!

Faculty Publications (last 5 months)

Karasov AO, Boothroyd JC, **Arrizabalaga G.** (2005) Identification and disruption of a rhoGTPase-localized homologue of sodium hydrogen exchangers in *Toxoplasma gondii*. *Int J Parasitol.* 35(3):285-91.

Saeji JP, Boyle JP, Grigg ME, **Arrizabalaga G,** Boothroyd JC. (2005) Bioluminescence imaging of *Toxoplasma gondii* infection in living mice reveals dramatic differences between strains. *Infect Immun.* 73(2):695-702.

Skinner DZ, Okubara PA, Baek KH, **Call DR.** (2005) Long oligonucleotide microarrays in wheat: evaluation of hybridization signal amplification and an oligonucleotide-design computer script. *Funct Integr Genomics.* 5(2):70-9.

Bae W, Kaya KN, Hancock DD, **Call DR,** Park YH, Besser TE. (2005) Prevalence and antimicrobial resistance of thermophilic *Campylobacter* spp. from cattle farms in Washington State. *Appl Environ Microbiol.* 71(1):169-74.

Chaudhary J, Sadler-Riggelman I, Ague JM, **Skinner MK.** (2005) The helix-loop-helix inhibitor of differentiation (ID) proteins induce post-mitotic terminally differentiated Sertoli cells to re-enter the cell cycle and proliferate. *Biol Reprod* 72:1205-1217.

Chaudhary J, Schmidt M, Sadler-Riggelman I. (2005) Negative acting HLH proteins Id1, Id2, Id3, and Id4 are expressed in prostate epithelial cells. *Prostate.* [Epub ahead of print].

Pedersen LB, Miller MS, Geimer S, Leitch JM, Rosenbaum JL, **Cole DG.** (2005) Chlamydomonas IFT172 is encoded by FLA11, interacts with CrEB1, and regulates IFT at the flagellar tip. *Curr Biol.* 15(3):262-6.

Mueller J, Perrone CA, Bower R, **Cole DG,** Porter ME. (2005) The FLA3 KAP subunit is required for localization of kinesin-2 to the site of flagellar assembly and processive anterograde intraflagellar transport. *Mol Biol Cell.* 16(3):1341-54.

Corley LS, White MA, Strand MR. (2005) Both endogenous and environmental factors affect embryo proliferation in the polyembryonic wasp *Copidosoma floridanum*. *Evol Dev.* 7(2):115-21.

Corley LS. (2005) Microevolution and development: studies of the genetic basis of adaptive variation in insects. *Evol Dev.* 7(2):79-80.

Staska LM, **Davies CJ,** Brown WC, McGuire TC, Suarez CE, Park JY, Mathison BA, Abbott JR, Baszler TV. (2005) Identification of vaccine candidate peptides in the NcSRS2 surface protein of *Neospora caninum* by using CD4+ cytotoxic T lymphocytes and gamma interferon-secreting T lymphocytes of infected holstein cattle. *Infect Immun.* 73(3):1321-9.

Alcantara J, Bird DA, **Franceschi VR,** Facchini PJ. (2005) Sanguinarine Biosynthesis is Associated with the Endoplasmic Reticulum in Cultured Opium Poppy Cells after Elicitor Treatment. *Plant Physiol.* [Epub ahead of print].

Zhou Q, Shima JE, Nie R, Friel PJ, **Griswold MD.** (2005) Androgen-regulated transcripts in the neonatal mouse testis as determined through microarray analysis. *Biol Reprod.* 72(4):1010-9.

Small CL, Shima JE, Uzumcu M, **Skinner MK, Griswold MD.** (2005) Profiling gene expression during the differentiation and development of the murine embryonic gonad. *Biol Reprod.* 72(2):492-501.

Mann MB, Hodges CA, Barnes E, Vogel H, **Hassold TJ,** Luo G. (2005) Defective sister-chromatid cohesion, aneuploidy and cancer predisposition in a mouse model of type II Rothmund-Thomson syndrome. *Hum Mol Genet.* 14(6):813-25.

Vo AT, Zhu F, Wu X, Yuan F, Gao Y, Gu L, Li GM, Lee TH, **Her C.** (2005) hMRE11 deficiency leads to microsatellite instability and defective DNA mismatch repair. *EMBO Rep.* 6:438-444.

Yi W, Wu X, Lee TH, Doggett NA, **Her C.** (2005) Two variants of MutS homolog hMSH5: Prevalence in humans and effects on protein interaction. *Biochem Biophys res Commun* 332:524-532.

Bhattacharya N, Dufour JM, Vo MN, Okita J, Okita R, **Kim KH.** (2005) Differential effects of phthalates on the testis and the liver. *Biol Reprod.* 72(3):745-54.

Teske S, Bohn AA, Regal JE, Neumiller JJ, **Lawrence BP.** (2005) Activation of the aryl hydrocarbon receptor increases pulmonary neutrophilia and diminishes host resistance to influenza A virus. *Am J Physiol Lung Cell Mol Physiol.*

Phillips TM, **Lindsey JS.** (2005) Carcinoma cell-specific Mig-7: a new potential marker for circulating and migrating cancer cells. *Oncol Rep.* 13(1):37-44.

Nudda A, **McGuire MA,** Battacone G, Pulina G. (2005) Seasonal variation in conjugated linoleic acid and vaccenic acid in milk fat of sheep and its transfer to cheese and ricotta. *J Dairy Sci.* 88(4):1311-9.

Ritzenthaler KL, **McGuire MK, McGuire MA,** Shultz TD, Koepf AE, Luedecke LO, Hanson TW, Dasgupta N, Chew BP. (2005) Consumption of conjugated linoleic acid (CLA) from CLA-enriched cheese does not alter milk fat or immunity in lactating women. *J Nutr.* 2005 Mar; 135(3):422-30.

Anderson NK, Beerman KA, **McGuire MA,** Dasgupta N, Griinari JM, Williams J, **McGuire MK.** (2005) Dietary fat type influences total milk fat content in lean women. *J Nutr.* 2005 Mar; 135(3):416-21.

Oatley JM, **Tibary A,** de Avila DM, Wheaton JE, **McLean DJ, Reeves JJ.** (2005) Changes in spermatogenesis and endocrine function in the ram testis due to irradiation and active immunization against luteinizing hormone-releasing hormone. *J Anim Sci.* 83(3):604-12.

Oatley JM, **Reeves JJ, McLean DJ.** (2005) Establishment of spermatogenesis in neonatal bovine testicular tissue following ectopic xenografting varies with donor age. *Biol Reprod.* 72(2):358-64.

Ulker H, Kanter M, Gokdal O, Aygun T, Karakus F, Sakarya ME, deAvila DM, **Reeves JJ.** (2005) Testicular development, ultrasonographic and histological appearance of the testis in ram lambs immunized against recombinant LHRH fusion proteins. *Anim Reprod Sci.* 86(3-4):205-19.