

Faculty Publications continued from page 4

Geary TW, Grings EE, MacNeil MD, de Avila DM, **Reeves JJ**. (2006) Use of recombinant gonadotropin-releasing hormone antigens for immunosterilization of beef heifers. *J Anim Sci*. 84(2):343-50.

Hernandez JA, Zanella EL, Bogden R, de Avila DM, Gaskins CT, **Reeves JJ**. (2005) Reproductive characteristics of grass-fed, luteinizing hormone-releasing hormone-immunocastrated *Bos indicus* bulls. *J Anim Sci*. 83(12):2901-7.

Miranda TB, Webb KJ, Edberg DD, **Reeves R**, Clarke S. (2005) Protein arginine methyltransferase 6 specifically methylates the non-histone chromatin protein HMG1a. *Biochem Biophys Res Commun*. 336(3):831-5.

Outfattole M, Lin SW, Liu B, Mascarenhas D, Cohen P, **Rodgers BD**. (2006) RNA polymerase II binding subunit 3 (Rpb3), a potential nuclear target of IGFBP-3. *Endocrinology*. [Epub ahead of print].

Lucas JR, Freeberg TM, Egbert J, **Schwabl H**. (2006) Fecal corticosterone, body mass, and caching rates of Carolina chickadees (*Parus carolinensis*) from disturbed and undisturbed sites. *Horm Behav*. [Epub ahead of print].

Cariello MO, Macedo RH, **Schwabl HG**. (2006) Maternal androgens in eggs of communally breeding guira cuckoos (*Guira guira*). *Horm Behav*. [Epub ahead of print].

Marshall RC, Leisler B, Catchpole CK, **Schwabl H**. (2005) Male song quality affects circulating but not yolk steroid concentrations in female canaries (*Serinus canaria*). *J Exp Biol*. 208(Pt 24):4593-8.

Badyaev AV, **Schwabl H**, Young RL, Duckworth RA, Navara KJ, Parlow AF. (2005) Adaptive sex differences in growth of pre-ovulation oocytes in a passerine bird. *Proc Biol Sci*. 272(1577):2165-72.

Rosa AL, Wu YQ, Kwabi-Addo B, Coveler KJ, Reid Sutton V, **Shaffer LG**. (2005) Allele-specific methylation of a functional CTCF binding site upstream of MEG3 in the human imprinted domain of 14q32. *Chromosome Res*. 13(8):809-18.

Shaffer LG, American College of Medical Genetics Professional Practice and Guidelines Committee. (2005) American College of Medical Genetics guideline on the cytogenetic evaluation of the individual with developmental delay or mental retardation. *Genet Med*. 7(9):650-4.

Gallego MS, Zelaya G, Feliu AS, Rossetti L, **Shaffer LG**, Bailey KA, Bacino CA, Barreiro CZ. (2005) ATR-16 due to a de novo complex rearrangement of chromosome 16. *Hemoglobin*. 29(2):141-50.

Mao L, **Shelden EA**. (2006) Developmentally regulated gene expression of the small heat shock protein Hsp27 in zebrafish embryos. *Gene Expr Patterns*. 6(2):127-33.

Arias MC, **Sheppard WS**. (2005) Phylogenetic relationships of honey bees (Hymenoptera:Apinae:Apini) inferred from nuclear and mitochondrial DNA sequence data. *Mol Phylogenet Evol*. 37(1):25-35.

Skinner MK, Anway MD. (2005) Semiferous cord formation and germ-cell programming: epigenetic transgenerational actions of endocrine disruptors. *Ann N Y Acad Sci*. 1061:18-32.

Westfall SD, **Skinner MK**. (2005) Inhibition of phosphatidylinositol 3-kinase sensitizes ovarian cancer cells to carboplatin and allows adjunct chemotherapy treatment. *Mol Cancer Ther*. 4(11):1764-71.

Stellflug JN, Cockett NE, Lewis GS. (2006) Relationship between sexual behavior classifications of rams and lambs sired in a competitive breeding environment. *J Anim Sci*. 84(2):463-8.

Shupe JM, Kristan DM, Austad SN, **Stenkamp DL**. (2006) The eye of the laboratory mouse remains anatomically adapted for natural conditions. *Brain Behav Evol*. 67(1):39-52.

Prabhudesai SN, Cameron DA, **Stenkamp DL**. (2005) Targeted effects of retinoic acid signaling upon photoreceptor development in zebrafish. *Dev Biol*;287(1):157-67.

Brown KH, Lee RW, **Thorgaard GH**. (2006) Use of androgenesis for estimating maternal and mitochondrial genome effects on development and oxygen consumption in rainbow trout, *Oncorhynchus mykiss*. *Comp Biochem Physiol B Biochem Mol Biol*. 143(4):415-21.

Martinez V, **Thorgaard G**, **Robison B**, Sillanpaa MJ. (2005) An application of Bayesian QTL mapping to early development in double haploid lines of rainbow trout including environmental effects. *Genet Res*. 86(3):209-21.

Vanderwall DK, **Woods GL**, Roser JE, Schlafer DH, Sellon DC, Tester DE, White KL. (2006) Equine cloning: applications and outcomes. *Reprod Fertil Dev*. 18(1-2):91-8.

Vanderwall DK, Hyde KJ, **Woods GL**. (2006) Effect of repeated transvaginal ultrasound-guided follicle aspiration on fertility in mares. *J Am Vet Med Assoc*. 228(2):248-50.

Jansen C, **von Wettstein D**, Schafer W, Kogel KH, Felk A, Maier FJ. (2005) Infection patterns in barley and wheat spikes inoculated with wild-type and trichodiene synthase gene disrupted *Fusarium graminearum*. *Proc Natl Acad Sci U S A*. 102(46):16892-7.

Hagen JJ, Kusakabe M, **Young G**. (2006) Effects of ACTH and cAMP on steroidogenic acute regulatory protein and P450 11beta-hydroxylase messenger RNAs in rainbow trout interrenal cells: relationship with in vitro cortisol production. *Gen Comp Endocrinol*. 145(3):254-62.

Nakamura I, Evans JC, Kusakabe M, Nagahama Y, **Young G**. (2005) Changes in steroidogenic enzyme and steroidogenic acute regulatory protein messenger RNAs in ovarian follicles during ovarian development of rainbow trout (*Oncorhynchus mykiss*). *Gen Comp Endocrinol*. 144(3):224-31.

Center For Reproductive Biology Calendar

5/3/06 "Retinoids in Gonadal Development," Dr. Kwan Hee Kim, WSU, CUE 202, 4:10–5:00 pm.

5/17/06 "Fish Reproduction," Dr. Caird Rexroad, USDA/ARS, Leetown, West Virginia, CUE 202, 4:10–5:00 pm.

6/1/06 10th Annual Center for Reproductive Biology Retreat, Dworshak Reservoir, Camp Three Meadows

6/14/06 "Insect Reproduction," Dr. Steven Sheppard, WSU, CUE 202, 4:10–5:00 pm.

7/12/06 "Plant Reproduction," Dr. Andrew McCubbin, WSU, CUE 202, 4:10–5:00 pm.

8/9/06 "Clinical Reproduction," Dr. Mushtaq Memon, WSU, CUE 202, 4:10–5:00 pm.

9/13/06 "Ovarian Biology and Endocrinology," Dr. Janice Bahr, University of Illinois, CUE 202, 4:10–5:00 pm.

9/27/06 "Fish Reproduction," Dr. William Davidson, Simon Fraser University, CUE 202, 4:10–5:00 pm.

10/11/06 "Signaling Pathways," Dr. Mary Hunzicker-Dunn, WSU, CUE 202, 4:10–5:00 pm.

10/25/06 "Nutritional regulation of reproduction in the sow and cow: new information from genomics, proteomics and metabolic studies," Dr. John McNamara, WSU, CUE 202, 4:10–5:00 pm.

* The CRB seminar workshop program is designed to host one guest speaker per month. As it happens we have one slot open for a guest speaker on November 8, 2006, that we would like to fill soon. Please send me your recommendations of someone you would like to have present to Center members to crb@wsu.edu.

Center Faculty

Amin Ahmadzadeh, UI
Gustavo Arrizabalaga, UI
John Brown, WSU
John Browse, WSU
Ken Cain, UI
Doug Call, WSU
Allan Caplan, UI
Ricardo Chebel, UI
Joe Cloud, UI
Doug Cole, UI
Laura Corley, WSU
Rebecca Craft, 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
Mary Hunzicker-Dunn, WSU
Rolf Ingermann, UI
Heiko Jansen, WSU
Zhihua Jiang, WSU
Jill Johnson, UI
Kwan Hee Kim, WSU
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
Rodney Mead, UI
Kathryn Meier, WSU
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 Scheinder, 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 Tegeger, WSU
Gary Thorgaard, WSU
Ahmed Tibary, WSU
Dirk Vanderwall, UI
Pau 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
Email: crb@wsu.edu
Web: www.reproduction.wsu.edu

CENTER REPORT

Spring
2006

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. The Center 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 88 faculty and over 250 trainees and staff. The Center integrates 7 Colleges and 18 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 of the Center are making progress as discussed in the Report. Outlined in this report 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

Individual Faculty Grant and Contract Awards (last 5 months)

Rebecca Craft (Psychology, WSU) DHHS, \$71,675
Rolf Ingermann (Biological Sciences, UI) USDA, \$99,880
Terry Hassold (SMB, WSU) DHHS, \$575,000
Terry Hassold (SMB, WSU) DHHS, \$75,783
Kwan Hee Kim (SMB, WSU) DHHS, \$235,438
Paige Lawrence (Pharm. Sciences, WSU) DHHS, \$98,580
Paige Lawrence (Pharm. Sciences, WSU) DHHS, \$21,749
Andrew McCubbin (SBS, WSU) NSF, \$130,000
Michelle McGuire (Food Sci. & Human Nutrition, WSU) We are Booked, \$4,500
Bruce Miller (MMBB, UI) NIH/NCRR-COBRE, \$182,800

Ruth Phillips (School of Biological Sciences, WSU) Univ. WA, \$14,358
Sandra Ristow (Agricultural Research Center, WSU) USDA, \$331,504
Hubert Schwabl (School of Biological Sciences, WSU) EPA, \$13,341
Lisa Shaffer (HREC, WSU Spokane) Albert Einstein Col, \$47,002
Lisa Shaffer (HREC, WSU Spokane) Sacred Heart Med., \$32,899
Lisa Shipley (Natural Resource Sciences, WSU) BLM, \$4,133
Michael Skinner (School of Molecular Biosciences, WSU) DHHS, \$195,244
Gary Thorgaard (School of Biological Sciences, WSU) Univ. CT, \$20,000
Diter Von Wettstein (Crop and Soil Sciences, WSU) WTC, \$29,300
Michael Webster (School of Biological Sciences, WSU) NSF, \$13,500

Worthy of Note:

[Dr. Diter von Wettstein](#) has been awarded a grant from the National Institute of Health (NIH) to begin research on developing strains of wheat that will be safe for people to consume who have celiac disease. Celiac disease is an autoimmune disease that can be caused by infection, stress, or surgery and affects approximately 1% of Americans. Those who are afflicted by this condition are unable to ingest gluten proteins from wheat, barley, or rye, as the immune system will attack the villi that line the small intestine. Presently, those with celiac disease have to maintain a gluten-free diet. Gluten is commonly found in breads, pastas, lunch meats, sweets, and vitamins and can also be used in the adhesive of stamps and envelopes. Dr. von Wettstein is searching for a new strain of the protein that does not incite the disease and those strains will ultimately be tested for safety in food products.

[Dr. Michael Skinner](#) was recently honored by WSU as a recipient of the Sahlin Faculty Excellence Award for research, scholarship, and arts. The Sahlin award is given to honor those faculty members who exemplify the uppermost level of performance and excellence in the pursuit of WSU's goals. To receive this award, one must have made significant and widely renowned contributions that have had substantial influence at WSU. Other considerations for this award are the recipient's creativity, honors, and recognition of the work he/she has received in their specialized field. Dr. Skinner's recent research investigating how environmental compounds can alter a future generation's epigenetic structure for up to four generations has been a groundbreaking discovery. Dr. Skinner and his team suggest that toxins may play an important role in heritable diseases that were once thought to be caused solely by genetic mutations and indicates a role for environmental impacts during evolution. This new discovery may be a major factor in understanding disease etiology.

Recently, [Dr. John Browse](#) was awarded the 2006 Regents professorship for his role as one of the top plant biologists in the world. Congratulations Dr. Browse.

[Dr. Griswold](#), Professor and Dean of the College of Sciences at Washington State University was given the 2006 Society for the Study of Reproduction Research Award. This award is given only to those members of SSR who have had outstanding research published over a period of six years. Mike receives this award for his many research accomplishments. His other awards include a MERIT award from the National Institutes of Health and WSU's Sahlin Faculty Excellence Award for Research, Scholarship, and the Arts. Great work Dr. Griswold!

News

Center Administrative Reorganization

As you will recall from our last newsletter, with the success and rapid expansion of the Center, we have undergone some organizational changes. We added a new Associate Director position, an Assistant Director position taken by [Jill Griffin](#) and another Coordinator's position that was accepted by [Rochelle Pedersen](#). We have now filled the Associate Director position and we are proud to announce that [Dr. James Nagler](#) has agreed to take the position with the full support of the UI administration. Dr. Nagler brings many years of experience as a founding member of the Center to the position and with the leadership of [Dr. Michael Skinner](#), Dr. Nagler will work closely with the Steering Committee to improve productivity, collaborative projects, and help oversee day-to-day operations, grants, and projects. In particular, Dr. Nagler will represent the Center in the operations and administration at the University of Idaho and begin to prepare for a Idaho State Initiative that would fund the Center at the UI campus. We wish to thank Jim for his willingness to come aboard the Center's administrative unit and help us in our efforts to continue our expansion and growth as a world renowned Center of excellence in reproductive biology.

Patents

[Howard Hosick](#), Amit Bandyopadhyay, and Susmita Bose, WSU, "Methods and Compositions for the Diagnosis and Treatment of Cell Proliferative Conditions and Disorders by Adhesion of Cancer Cells to Ceramic Surfaces and Other Materials," [Zhihua Jiang](#), Matthew Garcia, and Jennifer Michal, WSU, "Calpastatin Markers for Fertility and Lonjevity," 60/756,383. [Michael K. Skinner](#), WSU, "Bioactive Lipid-Based Approach for Enhancement of Cancer" 60/726,969

Center Departures

Please join us in wishing Drs. Troy Ott (UI) and B. Paige Lawrence (WSU) the best as they begin their new positions and depart the WSU and UI campuses. Dr. Ott has taken a position with Pennsylvania State University as a Professor in the dairy and animal science department. Dr. Ott was instrumental in the development of the Center and has actively participated in the Center's administration through his role on the Center's Steering Committee. Good luck Troy; you will be missed!

Dr. Lawrence will depart WSU this summer to accept a faculty position in the Department of Environmental Medicine in the University of Rochester School of Medicine and Dentistry as an Associate Professor. Dr. Lawrence became a member of the Center in 2002 and has been extremely active since that time. Her insight and assistance in Center administrative activities has been essential in the progress of the Center. Thank you Paige, and good luck in your new position!

Faculty Spotlight:

Dr. Joseph Cloud

Dr. Joseph Cloud is a Professor and Associate Dean for the Department of Biological Sciences and College of Science at the University of Idaho. Dr. Cloud received his doctorate in 1974 from the University of Wisconsin-Madison and continued his research as a Postdoctoral Research Associate at Johns Hopkins School of Public Health Hygiene for several years. He joined the faculty at the University of Idaho as an Assistant Professor of zoology in 1977 and has become a leading researcher in the area of fish reproduction and cryopreservation. Dr. Joe Cloud has provided significant insights into the developmental biology and reproduction of fish (i.e. salmonids). Although his research has focused on the trout and salmon as a model, insight into the broader area of reproduction and development have also been provided. His research in the cryopreservation of gametes has been instrumental in developing germ-plasm repositories around the world for a number of species. Dr. Cloud is considered one of the world's leading authorities in cryopreservation of the germ cell. His research in gonadal development and regeneration has also provided significant insight into the processes required in obtaining novel organ development. Dr. Cloud's recent research in tissue transplantation and regeneration is both innovative and critical to develop an understanding of the ability of the germ cell (i.e. gamete) to regenerate and postulate the developing gonad. His past and current research accomplishments are truly significant and have made Dr. Joe Cloud an internationally recognized expert in fish reproduction, gamete cryopreservation, and gonadal development.

One of Dr. Cloud's most significant attributes is his dedication and performance as a teacher and mentor. Joe has received a number of University of Idaho teaching awards and has developed innovative and effective approaches to his courses. He has trained dozens of graduate students and postdoctoral fellows. The students and fellows that he has mentored are in numerous academia and government institutions throughout the world. In addition, Dr. Cloud has trained thousands of undergraduate students at the University of Idaho in his general biology classes. The impact he has made on the field of biology through the students he has trained is a testament to his scholarly commitment to being a mentor and teacher.

Dr. Cloud's integrity, scientific insight, and record of productivity on a national and international scale are reflected in his commitment to research, teaching, mentoring, and service to the University of Idaho.

Congratulations Dr. Cloud on your accomplishments and participation—the Center looks forward to future collaborations.

Items of Interest

New Center Faculty

Please welcome new faculty member Dr. Mary Hunzicker-Dunn.

Dr. Hunzicker-Dunn is a Professor in the School of Molecular Biosciences at Washington State University. Dr. Hunzicker-Dunn comes to WSU from Northwestern University Medical School where she was a Professor in the Department of Medicine and the Department of Cell and Molecular Biology. Her research interest focuses on signaling pathways by which the prototypical glycoprotein hormones follicle stimulating hormone (FSH) and lutenizing hormone (LH) signal to initiate cellular responses of differentiation and proliferation. Welcome to the Center for Reproductive Biology, Mary—we are excited to have you join us and look forward to collaborative efforts with you!

ARCS

The Achievement Rewards for College Scientists (ARCS) Foundation is a nation-wide organization that provides scholarships to academically outstanding graduate students studying to complete their degrees in science, medicine, and engineering, thereby contributing to the worldwide advancement of science and technology. The ARCS Awards are \$5,000 per year top-off fellowships the student can add to their stipend and are granted for three-year intervals. Students are nominated by a faculty member in the Center for Reproductive Biology and are rated by the Center Steering Committee. The annual luncheon is held in Seattle, Washington, each November. Recently we were able to add to our list of accomplished ARCS fellows by selecting Jane Stewart to be awarded one of the ARCS fellowships to begin in the 2006–2007 academic year. Jane will join Dr. Tobin Peever's laboratory in the Department of Plant Pathology this fall. She has substantial research experience already including time spent as an entomology and forestry technician. Jane's doctoral research will be in the general area of fungal reproductive biology and focus on the role of host specificity in the speciation of plant-pathogenic fungi. Congratulations to Jane, our new ARCS Fellow and to all of our previous recipients!

Retreat & 10th Anniversary of the Center!

The 10th annual Center for Reproductive Biology Retreat will be held June 1–2, 2006, at Camp Three Meadows at Dworshak Reservoir. We are excited to have Dr. David Paige as our keynote speaker. Dr. Paige is the Whitehead Institute Director and has conducted fundamental studies of mammalian sex chromosomes and their roles in germ cell development, with special attention to the function, structure, and evolution of the Y chromosome. The retreat provides Center members and trainees an opportunity to share their research and collaborate on future endeavors. Please mark your calendars and plan on attending the retreat. For more information and to register please view the meetings section of the Center's Web site at: www.reproduction.wsu.edu.

Faculty Publications (last 5 months)

Pszczolkowski MA, [Brown JJ](#), Ramaswamy SB. (2005) Effect of metabotropic glutamate receptor agonists and signal transduction modulators on feeding by a caterpillar. *Pharmacol Biochem Behav.* 82(4):678-85.

Watts JL, [Browse J](#). (2006) Dietary manipulation implicates lipid signaling in the regulation of germ cell maintenance in *C. elegans*. *Dev Biol.* [Epub ahead of print].

Koo AJ, Fulda M, [Browse J](#), Ohlrogge JB. (2005) Identification of a plastid acyl-acyl carrier protein synthetase in Arabidopsis and its role in the activation and elongation of exogenous fatty acids. *Plant J.* 44(4):620-32.

[Call DR](#), Kang MS, Daniels J, Besser TE. (2006) Assessing genetic diversity in plasmids from *Escherichia coli* and *Salmonella enterica* using a mixed-plasmid microarray. *J Appl Microbiol.* 100(1):15-28.

Khachatryan AR, Hancock DD, Besser TE, [Call DR](#). (2006) Antimicrobial drug resistance genes do not convey a secondary fitness advantage to calf-adapted *Escherichia coli*. *Appl Environ Microbiol.* 72(1):443-8.

Borucki MK, Gay CC, Reynolds J, McElwain KL, Kim SH, [Call DR](#), Knowles DP. (2005) Genetic diversity of *Listeria monocytogenes* strains from a high-prevalence dairy farm. *Appl Environ Microbiol.* 71(10):5893-9.

[Cole DG](#). (2005) Intraflagellar transport: Keeping the motors coordinated. *Curr Biol.* 15(19):R798-801.

Sellars CB, [Dalton JC](#), Manzo R, Day J, [Ahmadzadeh A](#). (2006) Time and incidence of ovulation and conception rates after incorporating estradiol cypionate into a timed artificial insemination protocol. *J Dairy Sci.* 89(2):620-6.

Howard JM, Manzo R, [Dalton JC](#), Frago F, [Ahmadzadeh A](#). (2005) Conception rates and serum progesterone concentration in dairy cattle administered gonadotropin releasing hormone 5 days after artificial insemination. *Anim Reprod Sci.* [Epub ahead of print].

[Dalton JC](#), Manzo R, [Ahmadzadeh A](#), Shafii B, Price WJ, DeJarnette JM. (2005) Short communication: Conception rates following detection of estrus and timed AI in dairy cows synchronized using GnRH and PGF2alpha. *J Dairy Sci.* 88(12):4313-6.

Ellis SA, Bontrop RE, Antczak DF, Ballingall K, [Davies CJ](#), Kaufman J, Kennedy LJ, Robinson J, Smith DM, Stear MJ, Stet RJ, Waller MJ, Walter L, Marsh SG. (2006) ISAG/IUIS-VIC comparative MHC nomenclature committee report, 2005. *Immunogenetics.* 57(12):953-8.

Traul DL, Bhushan B, Eldridge JA, Crawford TB, Li H, [Davies CJ](#). (2005) Characterization of Bison bison major histocompatibility complex class IIa haplotypes. *Immunogenetics.* 57(11):845-54.

[Dittman A](#). (2005) Chemical cues for sea lamprey migration. *Nat Chem Biol.* 1(6):316-7.

Amstislavsky SY, Amstislavskaya TG, Amstislavsky VS, Tibeikina MA, Osipov KV, [Eroschenko VP](#). (2006) Reproductive abnormalities in adult male mice following preimplantation exposures to estradiol or pesticide methoxychlor. *Reprod Toxicol.* 21(2):154-9.

Rosenke K, Samuel MA, McDowell ET, Toerne MA, [Fortunato EA](#). (2006) An intact sequence-specific DNA-binding domain is required for human cytomegalovirus-mediated sequestration of p53 and may promote in vivo binding to the viral genome during infection. *Virology.* [Epub ahead of print].

Koubova J, Menke DB, Zhou Q, Capel B, [Griswold MD](#), Page DC. (2006) Retinoic acid regulates sex-specific timing of meiotic initiation in mice. *Proc Natl Acad Sci U S A.* [Epub ahead of print].

Meng J, Holdcraft RW, Shima JE, [Griswold MD](#), Braun RE. (2005) Androgens regulate the permeability of the blood-testis barrier. *Proc Natl Acad Sci U S A.* 102(46):16696-700.

Hodges CA, Revenkova E, Jessberger R, [Hassold TJ](#), [Hunt PA](#). (2005) SMC1beta-deficient female mice provide evidence that cohesins are a missing link in age-related nondisjunction. *Nat Genet.* 37(12):1351-5.

Brown PW, Judis L, Chan ER, Schwartz S, Seftel A, Thomas A, [Hassold TJ](#). (2005) Meiotic synapsis proceeds from a limited number of subtelomeric sites in the human male. *Am J Hum Genet.* 77(4):556-66.

Yi W, Lee TH, Tompkins JD, Zhu F, Wu X, [Her C](#). (2006) Physical and functional interaction between hMSH5 and c-Abl. *Cancer Res.* 66(1):151-8.

Reznick D, Bryant M, [Holmes D](#). (2006) The evolution of senescence and post-reproductive lifespan in guppies (*Poecilia reticulata*). *PLoS Biol.* 4(1):e7.

Sleipness EP, Sorg BA, [Jansen HT](#). (2005) Time of day alters long-term sensitization to cocaine in rats. *Brain Res.* 1065(1-2):132-7.

[Jiang Z](#), Wu XL, Michal JJ, [McNamara JP](#). (2005) Pattern profiling and mapping of the fat body transcriptome in *Drosophila melanogaster*. *Obes Res.* 13(11):1898-904.

[Jiang Z](#), Michal JJ, Melville JS, Baltzer HL. (2005) Multi-alignment of orthologous genome regions in five species provides new insights into the evolutionary make-up of mammalian genomes. *Chromosome Res.* 13(7):707-15.

Griffin KB, Michal JJ, Fox LK, Gaskins CT, [Jiang Z](#). (2005) Fine mapping of the bovine chromosome 22q24 region that harbours antimicrobial genes and a QTL for somatic cell score. *Anim Genet.* 36(5):448-50.

Kunej T, Michal JJ, Dovc P, [Jiang Z](#). (2005) Genetic variation of the mitochondrial D-loop region containing Mitochondrial Transcription Factor A (TFAM) binding sites is not associated with marbling in Wagyu x Limousin F2 crosses. *Acta Agriculturae Slovenica* 86:99-102.

Flom G, Weekes J, Williams JJ, [Johnson JL](#). (2006) Effect of mutation of the tetratricopeptide repeat and asparatate-proline 2 domains of Stt1 on Hsp90 signaling and interaction in *Saccharomyces cerevisiae*. *Genetics.* 172(1):41-51.

[McCubbin AG](#), Lee C, and Hetrick A. (2006) Identification of genes showing differential expression between morphs in developing flowers of *Primula vulgaris*. *Sexual Plant Reproduction*: DOI: 10.1007/s00497-006-0022-8 Issue: Online First.

Gyeong MY, Dowd PE, Gilroy S, [McCubbin AG](#). (2006) Calcium-Dependent protein kinase isoforms in *Petunia* have distinct functions in pollen tube growth, including regulating polarity. *Plant Cell* 18: 867-878.

Mosley EE, Wright AL, [McGuire MK](#), [McGuire MA](#). (2005) Trans fatty acids in milk produced by women in the United States. *Am J Clin Nutr.* 82(6):1292-7.

Zhang Z, [Meier KE](#). (2006) New assignments for multi-tasking signal transduction inhibitors (Relates to Article by Chen, et al. FastForward). *Mol Pharmacol.* [Epub ahead of print].

Nierman WC, Pain A, [Miller BL](#), et al. (2005) Genomic sequence of the pathogenic and allergenic filamentous fungus *Aspergillus fumigatus*. *Nature.* 438(7071):1151-6.

Galagan JE, Calvo SE, [Miller B](#), et al. (2005) Sequencing of *Aspergillus nidulans* and comparative analysis with *A. fumigatus* and *A. oryzae*. *Nature.* 438(7071):1105-15.

Landis ED, Palti Y, Dekoning J, Drew R, [Phillips RB](#), Hansen JD. (2006) Identification and regulatory analysis of rainbow trout tapasin and tapasin-related genes. *Immunogenetics.* 58(1):56-69.

Artieri CG, Mitchell LA, Ng SH, Parisotto SE, Danzmann RG, Hoyheim B, [Phillips RB](#), Morasch M, Koop BF, Davidson WS. (2006) Identification of the sex-determining locus of Atlantic salmon (*Salmo salar*) on chromosome 2. *Cytogenet Genome Res.* 112(1-2):152-9.

Faculty Publications continued on page 5