

CURRICULUM VITAE

PART I: GENERAL INFORMATION

A. Name James Keith Pru

B. Contact Science Initiative Building, Room 3238
Program in Reproductive Biology
Department of Animal Science
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C. Education

2000-03	Postdoctoral Research Fellow, Molecular Reproductive Biology, Vincent Center for Reproductive Biology, Massachusetts General Hospital, Harvard Medical School, Boston, MA
1997-00	Ph.D., Reproductive Biology, University of Wyoming, Laramie, WY
1991-93	M.S., Zoology and Physiology, University of Wyoming, Laramie, WY
1988-91	B.S., Zoology and Physiology (major), Chemistry (minor), University of Wyoming, Laramie, WY
1986-88	A.S. Chemistry, Northwest College, Powell, WY

D. Professional Appointments

2021-pres	Professor and Curtis and Marian Rochelle Endowed Chair in Animal Science, Program in Reproductive Biology, Department of Animal Science, University of Wyoming, Laramie, WY
2017-20	Professor, Department of Animal Sciences, Washington State University, Pullman, WA
2015-20	Associate Director, Center for Reproductive Biology, Washington State University, Pullman, WA
2011-17	Associate Professor, Department of Animal Sciences, Washington State University, Pullman, WA
2011-20	Associate Faculty, School of Molecular Biosciences, Washington State University, Pullman, WA
2009-20	Core Faculty, Center for Reproductive Biology, Washington State University, Pullman, WA

2009-11	Assistant Professor, Department of Animal Sciences, Washington State University, Pullman, WA
2007-09	Assistant Professor, Obstetrics, Gynecology and Reproductive Biology, Harvard Medical School, Boston, MA
2006-09	Affiliate Faculty, Harvard Stem Cell Institute, Boston, MA
2003-07	Instructor and Assistant Biologist, Harvard Medical School, Massachusetts General Hospital, Vincent Center for Reproductive Biology, Boston, MA
1994-97	Faculty, Department of Biological Sciences, Southwestern Illinois College, Belleville, IL

PART II. SERVICE AND AWARDS

A. Committees, Directorships, and Review Panels

1. International/National

2021-2025	Standing Member and Co-Chair, NIH, Integrative and Clinical Endocrinology and Reproduction (ICER) Study Section
2021	Member, USDA-NIFA, Agriculture & Food Research Initiative (AFRI) Program Panel
2021	Member, NIH, 2021/05 ZHD1 DSR-M (55) 1 Centers to Advance Research in Endometriosis (CARE), P01 Clinical Trial Not Allowed, NICHD
2021	Member, NIH, ZHD1 DSR-G (02), Member Conflict Special Emphasis Panel, NICHD
2021-pres	Society for Reproductive Investigation, Annual meeting reviewer and oral/poster session judge
2020	<i>Ad hoc</i> Member, NIH, Cellular, Molecular, and Integrative Reproduction Study Section
2019	<i>Ad hoc</i> Member, NIH, Integrative and Clinical Endocrinology and Reproduction Study Section
2019	Member, NIH, 2019/05 ZRG1 EMNR-V (2) M, <i>Topics in Endocrinology, Metabolism and Reproductive Biology</i> Member Conflict Special Emphasis Panel, NICHD
2018	Reviewer, Medical Faculty of Dusseldorf's Heinrich-Heine University Grants Program, Dusseldorf, Germany.
2018	Member, Program Committee/Evaluator, 10 th International Ruminant Reproduction Symposium, Iguacu, PR, Brazil.
2018	Chair, NIH, 2019/01 ZRG1 F06-P (20) L, Special Emphasis Panel
2018	Member, NIH, Special Emphasis Panel, Gynecologic Stem Cell Study Section, NICHD
2018-20	Member, Expert Peer Reviewer for Italian Scientific Evaluation
2018	<i>Ad hoc</i> Member, NIH, Integrative and Clinical Endocrinology and Reproduction Study Section
2017	<i>Ad hoc</i> Member, NIH, Cellular, Molecular, and Integrative Reproduction Study Section

2017	Member, NIH, Special emphasis panel, Integrative Research in Gynecologic Health, 2017/10 ZHD1 DSR-L (50) 1, NICHD
2017	<i>Ad hoc</i> Member, NIH, Integrative and Clinical Endocrinology and Reproduction Study Section
2016	Member, NIH, ZHD1 DSR-L (AF), NICHD P01 Study Section
2016	Co-Chair, NIH, ZHD1 DRG-S (55)R, P50 National Centers for Translation Research in Reproduction and Infertility Study Section, NICHD
2015	<i>Ad hoc</i> Member, NIH, Cellular, Molecular, and Integrative Reproduction Study Section
2015	Member, NIH, Nuclear Receptor Signaling Atlas, Data Source Project Special Emphasis Panel, NICHD
2015	<i>Ad hoc</i> Member, NIH, Integrative and Clinical Endocrinology and Reproduction Study Section
2014	<i>Ad hoc</i> Member, NIH, Integrative and Clinical Endocrinology and Reproduction Study Section (fall)
2014	Reviewer, Wellbeing of Women Research Grants, United Kingdom
2014	<i>Ad hoc</i> Member, NIH, Integrative and Clinical Endocrinology and Reproduction Study Section (spring)
2014	<i>Ad hoc</i> Member, NIH, Cellular, Molecular, and Integrative Reproduction Study Section
2013	Member, USDA-NIFA, Agriculture & Food Research Initiative (AFRI) Program Panel
2013	<i>Ad hoc</i> Member, NIH, Integrative and Clinical Endocrinology and Reproduction Study Section
2013	Member, NIH, NICHD/ZHD1-DSR-L, U54 Specialized Cooperative Centers Program in Reproduction (SCCPIR) Study Section, Reproduction Centers Meeting, NICHD
2012	Member, NIH, Integrative and Clinical Endocrinology and Reproduction Study Section, Small Business: Diabetes, Obesity and Reproductive Sciences, ZRG1 EMNR-S (10), NICHD
2012	Member, NIH, 2013/01 ZHD1 DSR-L (55), U54 Center Grants, Special Emphasis Panel/Scientific Review Group, NICHD
2012	<i>Ad hoc</i> Member, NIH, Integrative and Clinical Endocrinology and Reproduction Study Section
2008	Core Member, Study Section, ZES1 LKB-D (S8) P, Superfund Basic Research and Training Program National Institutes of Health, NIEHS
2007	Member, Study Section, Superfund Basic Research and Training Program, National Institutes of Health, NIEHS
2007-pres	Reviewer, Lalor Foundation, Postdoctoral Fellowships
2007	<i>Ad hoc</i> Member, National Science Foundation Review Panel.
2006-08	Member, Program Committee, Society for the Study of Reproduction
2006	Member, NIH, Environmental Influences on Epigenetic Regulation, Special Emphasis Panel, NIEHS
2005-06	<i>Ad hoc</i> Member, Biotechnology and Biological Sciences Research Council, United Kingdom
2001-03	<i>Ad hoc</i> Panel Member, Education and Extension Service in the Animal Reproduction Program, United States Department of Agriculture, Cooperative State Research

2. Local

2025	Member, Vivarium Manager Search Committee, Science Initiative Institute, UW
2023-24	Chair, Vivarium Research Scientist Search Committee, Department of Animal Science, UW
2022-pres	Member, Program Committee, Rocky Mountain Reproductive Sciences Symposium.
2022-23	Chair, Faculty Search Committed, Joint Department of Animal Science and Zoology & Physiology position, UW
2022-23	Member, Faculty Search Committee, Department of Veterinary Sciences, UW
2022	ROAMWyo Project Steering Committee, implementation of new system for grant processing/tracking and animal protocols, UW
2022	Member, Faculty Search Committee, Department of Animal Science, Precision Livestock Management position, UW
2021-pres	Member, Tenure and Promotion Committee, College of Agriculture, Life Sciences, and Natural Resources, UW
2021	Member, Institutional 2-13 Life Sciences Reorganization Committee, UW
2021-pres	Member, Institutional Animal Care and Use Committee, UW
2019-20	Member, Misconduct Investigation Committee, Case 2019-01, Office of Research, WSU
2019	Member, Faculty Search Committees, Department of Animal Sciences, WSU
2018-20	Faculty Mentor, Team Mentoring Program, Office of Multicultural Student Services, WSU
2018	Member, Search Committee for new EALB Animal Care Technician, Department of Animal Sciences, WSU
2017	Member, Faculty Search Committee, School of Molecular Biosciences, WSU
2017	Member, Core Director Search Committee, Specialized Animal Resource Core, Center for Reproductive Biology and School of Molecular Biosciences, WSU
2017	Member, Faculty Search Committee for new faculty hire, Department of Animal Sciences, WSU
2017	Member, Faculty Search Committee for new faculty hire, School of Politics, Philosophy and Public Affairs, WSU
2016	Member, Faculty Search Committee for new faculty hire, School of Molecular Biosciences, WSU
2016	Member, Core Director Search Committee, Gene Editing Reagent Core, Center for Reproductive Biology and School of Molecular Biosciences, WSU
2015-20	Associate Director, Center for Reproductive Biology, WSU
2015-18	Member, CAHNRS Faculty Research Advisory Council, WSU
2015-20	Member, Tissue Imaging and Proteomics Laboratory Executive Oversight Committee, WSU
2014-18	Member, Honors Council, Provost Appointment, WSU
2014-17	Member, Faculty Hearing Committee Panel, Presidential appointment, WSU
2013-19	Member, Institutional Animal Care and Use Committee, Presidential appointment, WSU

2013-15	Director, Animal Procurement Service Center, WSU
2013-15	Director, Center for Reproductive Biology Radioimmunoassay Core Facility, WSU
2013-14	Director, Center for Reproductive Biology Animal Reproduction Core, WSU
2013	Member, Search Committee, Director of the Center for Reproductive Biology, WSU
2013-20	Member, Graduate Committee, Department of Animal Sciences, WSU
2012	Member, Advisory Committee, Center for Reproductive Biology, WSU
2012-15	Member, CAHNRS Tenure and Promotion Advisory Committee, WSU
2011	Member, Faculty Search Committee for the Baxter Endowed Chair, Department of Animal Sciences, WSU
2011	Member, CAHNRS Business Center Manager Search Committee, WSU
2010	Member, Faculty Search Committee for Livestock Management
2006	Chair, Faculty Search Committee, Vincent Obstetrics and Gynecology Service, Massachusetts General Hospital, Boston, MA Systems position, Department of Animal Sciences, WSU
2005-07	Chair, Chemical Hygiene Committee, Vincent Obstetrics and Gynecology Service, Massachusetts General Hospital, Boston, MA
2004-07	Member, Institutional Animal Care and Use Committee, Massachusetts General Hospital, Harvard Medical School, Boston, MA
1999-00	President, University of Wyoming Animal Science Graduate Student Association, University of Wyoming, Laramie, WY
1996-97	Member, Committee for Women and Minorities in Math and Science, Southwestern Illinois College, Belleville, IL
1992	Member, Student Representative Faculty Search Committee, Department of Zoology and Physiology, University of Wyoming, Laramie, WY

B. Editorial Boards:

1. Boards of Reviewing Editors

2025-pres	<i>Uterine Research</i>
2022	Special Topics Editor, <i>Cells</i> , "Progesterone Receptor Signaling"
2018-23	<i>Stem Journal</i>
2006-pres	<i>Menopause</i>
2014-17	<i>Biology of Reproduction</i>
2013-16	<i>Journal of Molecular and Genetic Medicine</i>
2004-13	<i>Journal of Experimental Clinical and Assisted Reproduction</i>

2. Ad Hoc Reviewer

Journals:

Journal of Clinical Investigation, Nature, Science, Nature Communications, Nature Biology, Proceedings of the National Academy of Sciences, Cancer Letters, Nature Genetics, FASEB J, Cell and Tissue Research, PLoS Genetics, Current Biology, PLoS One, Frontiers in Neuroendocrinology, Journal of Clinical Endocrinology and Metabolism, Stem Cells, Stem Journal, Cells, Gene Expression Patterns,

Reproduction, Journal of Experimental Clinical and Assisted Reproduction, American Journal of Pathology, American Journal of Physiology: Endocrinology and Metabolism, Cell Death and Differentiation, EMBO J, Journal of Cellular Physiology, Cell Cycle, Molecular Endocrinology, Reproductive Biology and Endocrinology, Journal of Endocrinology, Endocrine Reviews, Animal Reproduction, Human Reproduction, Stem Cells and Development, Molecular Human Reproduction, Journal of Molecular and Genetic Medicine, Reproductive Sciences, Menopause, Molecular Reproduction and Development, Biology of Reproduction, Endocrinology, Contraception, Breast Cancer Research, Cancer Biology & Therapy, Journal of Ovarian Research, Scientific Reports, Oncotarget, Oncogene, Translational Research, Molecular Phylogenetics and Evolution, Stem Cell Reports, Frontiers in Reproductive Health, Uterine Research

Textbooks:

Biology: Concepts and Applications, 3rd edition, Wadsworth Publishing Co. Starr C
Pathways to Pregnancy and Parturition, 3rd edition, Current Concepts, Inc. Senger PL

C. Awards and Honors

2023	Presidential Scholarly Achievement Award, Office of the President, University of Wyoming, Laramie, WY
2016	Excellence in Support of Undergraduate Research Award, Office of Undergraduate Research, WSU
2015	Outstanding Thesis Advisor Award, Honors College, WSU
2014	Plenary Session Chair, "Uterine and Placental Function", 3rd World Congress of Reproductive Biology, Edinburgh, Scotland
2012	Recipient, Teaching Award of Merit, North American Colleges and Teachers of Agriculture
2006	Platform Session Chair, "Implantation, Pregnancy and Parturition II," 39 th Annual Meeting of the Society for the Study of Reproduction, Omaha, NE
2005	Platform Session Chair, "Uterine Development and Post-Implantation Epigenetic Regulation", 38 th Annual Meeting of the Society for the Study of Reproduction, Quebec City, Quebec, Canada
2003	Larry Ewing Memorial Travel Grant, 36th Annual Meeting of the Society for the Study of Reproduction, Cincinnati, OH
2000	USDA NRI Travel Fellowship, 33rd Annual Meeting of the Society for the Study of Reproduction, Madison, WI
2000	Young Investigator Award (1st place), Trainee Research Platform Competition, 33rd Annual Meeting of the Society for the Study of Reproduction, Madison, WI
1998	Gamma Sigma Delta Honor Society, University of Wyoming, Laramie, WY
1998	Travel Award, 5th International Symposium on Reproduction in Domestic Ruminants, Colorado Springs, CO
1998-00	Graduate Research Assistantship, University of Wyoming, Laramie, WY
1992 & 1993	Outstanding Teaching Assistant Award, University of Wyoming, Laramie, WY

1991-93	Graduate Teaching Assistantship, University of Wyoming, Laramie, WY
1990	Graduate Teaching Assistantship (awarded as an undergraduate), University of Wyoming, Laramie, WY
1987-88	Reduced Tuition Grant for High GPA, Northwest College, Powell, WY
1987	Resident Assistant Scholarship, Northwest College, Powell, WY
1986	Rotary Scholarship, Northwest College, Powell, WY
1986	L.A. Konke Memorial Track Scholarship, Northwest College, Powell, WY
1986	Special Ability Scholarship for Academic Performance, Northwest College, Powell, WY

PART III: RESEARCH AND SCHOLARLY ACTIVITY

A. Nature and Significance of Research and Scholarship

1. Failure to establish/maintain pregnancy: An estimated 25%-60% of all conceptions end in pregnancy failure depending upon the mammalian species. Recurrent pregnancy loss, defined as two or more consecutive failed pregnancies, is a common complication to pregnancy in women that affects more than 1% of pregnancies. Epidemiological studies in humans and livestock, as well as genetic studies in model organisms, support the notion that failed pregnancy occurs due to faulty uterine function or miscommunication between the embryo and mother during implantation. While much research effort has been poured into understanding complications that occur later in pregnancy, only minimal consideration has been given to the problems that occur during the establishment of pregnancy. Paradoxically, most pregnancies fail during implantation, long before development of the embryonic placenta. As such, one of the major research themes in my lab is to understand how the embryo coordinates changes in the mother, both locally within the uterus, as well as systemically (*i.e.*, modulation of the maternal immune system) to allow for the successful establishment of pregnancy. We recently established that in response to the implanting embryo, the uterus takes on a non-erythroid hemoglobin biosynthetic function. We have identified the transcriptional regulatory mechanism by which this occurs and feel the studies have tremendous potential to increase our understanding of how the embryo modifies the maternal system to allow the semi-allogenic embryo to survive within the mother without rejection.

2. Contributions of faulty endometrial regeneration in pregnancy complications and development of uterine disease: Dysfunction of the uterus is a common factor affecting the quality of life and morbidity/mortality of the human female. Around 60,000 women (USA) are diagnosed with endometrial cancer annually, and endometriosis, which often results in infertility, affects up to 12% of all reproductive aged women with annual costs of about \$22 billion. Incomplete uterine involution following parturition is a major impediment to reestablishing pregnancy in dairy cattle, a persistent problem that costs the dairy industry millions of dollars annually. Recent advances have made it clear that most tissues exhibit renewal via adult stem cells in some tissues and cellular reprogramming in others. Using a combination of transgenic, transplantation and molecular biology approaches, we have established that the uterus harbors unique populations of cells within the stromal and epithelial compartments that can de-differentiate and re-differentiate during endometrial repair. Considering that insufficient endometrial thickening is a major hurdle for establishing a successful pregnancy, particularly in an *in vitro* fertilization (IVF) setting, studies of endometrial regeneration are of likely importance to fertility in mammals. Through the elucidation of mechanisms that

coordinate the activation of regeneration, basic studies of uterine cellular reprogramming will likely have practical application in developing therapeutic remedies for hyperproliferative diseases of the uterus like endometriosis and endometrial cancer.

3. Function of Progesterone Receptor Membrane Component Proteins:

Progesterone is the hormone of pregnancy. It is well-established from pharmacological and mouse mutagenesis studies that nuclear transcription factor-like receptors mediate many of the actions of the steroid hormone P₄. However, activation of these 'classical' receptors, such as the progesterone receptor, do not account for all of the actions of P₄. We are interested in identifying and characterizing the molecular machinery by which progesterone signals outside of the 'classical' pathway. Using mutant mouse models generated by our lab, we have demonstrated that progesterone receptor membrane component (PGRMC) 1 and PGRMC2 are necessary for normal fertility in the female, as well as proper hormone signaling in the uterus. Furthermore, our lab has demonstrated that increased expression of PGRMC1 contributes to the growth, progression, and chemoresistance of women's reproductive (e.g., endometrial, ovarian and breast) cancers. We are now focused on understanding the mechanism by which PGRMC1 and PGRMC2 function in reproductive tissues and whether or not they mediate progesterone signaling events. At the moment, we are testing the hypothesis that PGRMC1 and PGRMC2 regulate proliferative events in the female reproductive tract rather than serving as *bona fide* progesterone receptors. Pathways that may be regulated by PGRMC1 and PGRMC2 are those that regulate proliferation, post-translational protein transport, mRNA processing, and cellular energy homeostasis.

B. Presentations

1. International

2024	Invited Seminar, "Membrane progesterone receptor signaling in reproductive tissues," Annual Endocrine Society Meeting (ENDO 2024), Boston, MA
2023	Invited Seminar, "Omics-based approaches to understand the functions of PGRMC proteins in spermatogenesis," Fusion Symposium on Spermatogenesis. Dubrovnik, Croatia,
2021	Invited Seminar, "PGRMC1 and PGRMC2 in uterine physiology and disease," FASEB Science Research Conference, International Committee on Rapid Responses to Steroid Hormones, The Steroid Hormones and Receptors in Health and Disease Conference
2021	Invited Seminar, "Progesterone receptor membrane component (PGRMC) 1 and PGRMC2 in female reproductive physiology," Endocrine Society Meeting 2021, San Francisco, CA,
2018	Discussion Leader, "Cross-talk at the maternal-fetal interface", Gordon Research Conference on Mammalian Reproduction, Barga, Italy
2017	Invited Seminar, "PGRMC1 and PGRMC2 functions in female fertility and disease," 14 th Greenwald Symposium, Kansas University Medical Center, Kansas City, KS
2014	Invited Seminar, "Conditional deletion of progesterone receptor membrane component 1 (<i>Pgrmc1</i>) and <i>Pgrmc2</i> results in subfertility and aberrant endometrial epithelial cell proliferation". 3 rd World Congress of Reproductive Biology, Edinburgh, Scotland

- 2014 Seminar, "Development of an orthotopic transplantation model for assessing endometrial stem cell functions *in vivo*". 61st Annual meeting of the Society for Gynecologic Investigation, Florence, Italy

2. National/Regional

- 2025 Seminar, "Disruption of luteal, but not female germline or stromal, PGRMC1/2 homeostasis cause premature ovarian aging," 2025 Reproductive Aging Conference, San Jose, CA
- 2024 Invited Seminar, "Actions of PGRMC proteins in reproductive physiology and disease," Seminar in the Department of Obstetrics Gynecology and Women's Health, University of Missouri Medical School, Columbia, MO
- 2024 Invited Seminar, "PGRMC proteins in reproductive physiology and disease," Seminars in Obstetrics, Gynecology and Reproductive Biology, Grand Rounds, University of Kansas Medical Center, Kansas City, MO
- 2023 Invited Seminar, "Functions of PGRMC proteins in fertility," Inaugural Dr. Robert A. Godke Seminar, School of Animal Sciences, Louisiana State University, Baton Rouge, LA
- 2022 Invited Seminar, "PGRMC proteins in reproductive physiology and pathology" Olson Center for Women's Health, Department of Obstetrics and Gynecology, University of Nebraska Medical Center, Omaha, NE
- 2022 Invited Seminar, "Functions of the progesterone receptor membrane component family in female reproductive physiology and pathophysiology," Interdisciplinary Faculty of Reproductive Biology Program, Texas A&M University, College Station, TX
- 2022 Invited Presentation, "Reproductive and Regenerative Biology Center of Biomedical Research Excellence" University of Wyoming Board of Trustees meeting, Laramie, WY
- 2021 Invited Seminar, "Novel mechanisms of progesterone signaling in the female reproductive system," Department of Obstetrics and Gynecology, University of Connecticut Health Center, Farmington, CT
- 2021 Invited Presentation, "Wyoming Agriculture and Health Investment (WAHI), College of Agriculture and Natural Resource Sciences, University of Wyoming, Laramie, WY
- 2021 Invited Seminar, "E-proteins and non-erythroid hemoglobin synthesis at the maternal:embryo interface," Department of Biomedical Sciences, Colorado State University, Ft. Collins, CO
- 2021 Invited Seminar, "Functions of the Progesterone Receptor Membrane Component Family in Female Reproductive Physiology and Pathophysiology," Department of Zoology and Physiology, University of Wyoming, Laramie, WY
- 2020 Invited Seminar, "Immunomodulating nutrient supplementation increases endometrial vascular development and fecundity in a murine model of endometritis" Phibro Animal Health Corporation, virtual
- 2020 Invited Seminar, "Current and future research in uterine physiology and early pregnancy," University of Wyoming, Laramie, WY
- 2019 Invited Seminar, "E-proteins and hemoglobin at the maternal:embryo interface" Michigan State University, Grand Rapids, MI
- 2017 Invited Seminar, "PGRMC1 and PGRMC2 functions in uterine biology," University of Missouri, Columbia, MO

- 2017 Seminar, "A potential role for non-erythroid uterine-derived hemoglobin in the establishment of pregnancy. Gene Families and Isozymes Conference, Kona, HI
- 2017 Invited Seminar, "Functional analysis of PGRMC1 in female reproduction." Departments of Obstetrics and Gynecology and Cell Biology, University of Connecticut Health Center, Farmington, CT
- 2017 Invited Seminar, "PGRMC1 and PGRMC2 as nexus proteins in endometrial cancer," Center for Advanced Reproductive Services, Avon, CT
- 2016 Seminar, "TCF3 and TCF12 are essential for female fertility and bestow non-erythroid hemoglobin biosynthetic activity on the gravid uterus," Northwest Reproductive Sciences Symposium. Corvallis, OR
- 2016 Seminar, "Mechanisms coordinating endometrial physiology and pathophysiology," School of Molecular Biosciences, Washington State University, Pullman, WA
- 2015 Invited Seminar, "Mechanisms of uterine remodeling and tissue regeneration," Department of Obstetrics and Gynecology, University of Colorado Anschutz Medical Campus, Denver, CO
- 2015 Invited Seminar, "Mechanisms of endometrial regeneration," Department of Obstetrics and Gynecology, University of Connecticut Health Center, Farmington, CT
- 2014 Seminar, "Non-classical progesterone signaling through PGRMC1 and PGRMC2," Northwest Reproductive Sciences Symposium, Cle Elum, WA
- 2011 Invited Seminar, "Paracrine, endocrine and embryonic signaling in uterine physiology," Department of Biomedical Sciences, Colorado State University, Fort Collins, CO
- 2010 Invited Seminar, "Embryonic and maternal contributions to uterine decidualization," Reproductive Biology Forum, Texas A&M University, College Station, TX
- 2009 Seminar, "Endometrial stem/progenitor cells", Northwest Reproductive Sciences Symposium, Portland, OR
- 2009 Invited Seminar, "Mechanisms of endometrial regeneration," Center for Reproductive Biology, Washington State University, Pullman, WA
- 2009 Invited Seminar, "Non-classical progesterone signaling in reproductive physiology and disease," School of Molecular Biosciences, Washington State University, Pullman, WA
- 2009 Seminar, "Progesterone membrane component-1 promotes endometrial and breast cancer viability in response to chemotherapy *in vitro* and *in vivo*," 42nd Meeting of the Society for the Study of Reproduction, Pittsburg, PA
- 2009 Invited Seminar, "Regulatory mechanisms of uterine decidualization," Center for Reproductive Biology, Washington State University, Pullman, WA
- 2008 Invited Seminar, "Endocrine, paracrine and embryonic signaling in uterine physiology," Washington State University, Pullman, WA
- 2008 Plenary Presentation, "Endometrial responses to the implanting embryo," Satellite Conference 55th Annual Meeting of the Society for Gynecologic Investigation, San Diego, CA

- 2006 Seminary, Molecular signaling at the maternal:embryonic interface, Massachusetts General Hospital, Vincent Obstetrics and Gynecology Service
- 2005 Grand Rounds: "Stem/progenitor cells in uterine function: understanding mechanisms of extra-uterine cell recruitment," Massachusetts General Hospital, Vincent Obstetrics and Gynecology Service
- 2004 Research Prospectus in Implantation Biology, Massachusetts General Hospital, Vincent Memorial Hospital Board of Trustees, Boston, MA
- 2004 Seminar, "Regulation of sphingosine kinases during decidualization: A role for sphingosine-1-phosphate in uterine prostanoid production," 37th Meeting of the Society for the Study of Reproduction, Vancouver, BC, Canada
- 2004 Invited Seminar, "Sphingolipid signaling and environmentally-induced gene repression during uterine/placental development," Colorado State University, Fort Collins, CO
- 2003 Plenary Presentation, "The pursuit of genes and function by expression profiling: blind alleys and unbeknownst pathways in the ovary," International Symposium on Animal Functional Genomics, Michigan State University, East Lansing, MI
- 2001 Seminar, "Fas-mediated activation of the sphingomyelin pathway in bovine steroidogenic luteal cells," 34th Meeting of the Society for the Study of Reproduction, Ottawa, ON, CA

C. Professional Societies:

- 1992-pres Member, Society for the Study of Reproduction
- 2001-pres Member, The Endocrine Society
- 2021-pres Member, Society for Reproductive Investigation
- 2004-07 Member, Society for Developmental Biology
- 2002-18 Member, American Association for the Advancement of Science

D. Grant Support

1. Current

"PGRMC Proteins as Markers of Fertility and Overall Health Status"

Principal Investigator: Dr. James K. Pru, University of Wyoming
 Co-Invest: Drs. Emily Schmitt and Danielle Bruns, University of Wyoming
 Agency: NIH
 Type: R21 HD112788
 Status: Funded
 Funding: 9/15/2023-8/31/2026 (\$397,375; total)
 Objective: Given that mutations in the *PGRMC1* gene associate with premature ovarian insufficiency in women, the objective of this study is to determine if PGRMC family members are useful markers of fertility, healthspan and overall health status.

"Regulation of Endometrial Proliferation by the PGRMC Family"

Principal Investigator: Dr. James K. Pru, University of Wyoming
 Agency: NIH
 Type: R01 HD102386

Status: Funded

Funding: 4/2021-3/2026 (\$1,625,625; total)

Objective: Understand how PGRMC family members coordinate proliferative events in the endometrium.

“Application of Functional Genomics to Animal Health and Disease”

Principal Investigator: Dr. James K. Pru, University of Wyoming

Agency: USDA

Type: Animal Health and Disease Research

Status: Funded

Funding: 7/3/2024-9/30/2028 (\$85,000; total)

Objective: To apply functional genomics and gene editing approaches to understand genetic processes that coordinate disease resistance and reproductive fitness in production species and animal model systems.

“Rocky Mountain Reproductive Sciences Symposium Conference”

Principal Investigator: Dr. Thomas R. Hansen, Colorado State University

Collaborator: Dr. James K. Pru, University of Wyoming

Agency: USDA

Type: NIFA AFRI conference application 2023-11917

Status: Funded

Funding: 2025-2029 (\$62,500; total)

Objective: Support for the annual Rocky Mountain Reproductive Sciences Symposium.

“Reproductive Performance in Domestic Ruminants”

Principal Investigator: Dr. Brenda Alexander, University of Wyoming

Co-PI: Dr. James K. Pru, University of Wyoming

Agency: USDA

Type: W4112 USDA Multistate Research Project

Status: Approved

Funding: 10/2021-9/2026

Objective: Discover mechanisms that have potential to translate into applicable biotechnologies to improve reproductive efficiency in domestic ruminants.

2. Pending/Under Review/In Preparation

“Center of Reproductive and Regenerative Biology”

Principal Investigator: Dr. James K. Pru, University of Wyoming

Agency: NIH

Type: P20 Centers of Biomedical Research Excellence (COBRE), Phase I

Status: reviewed and scored, January 2026 resubmission

Funding: 2025-2029 (\$10,505,500; total)

Objective: To procure funding to help develop intellectual and infrastructural strength in the areas of reproductive biology and stem cell/regenerative biology at the University of Wyoming. To develop a research cores centered on animal gene editing for functional genomics and systems biology.

“Investigating Transgenerational Effects of Hypoxia Exposure on Male Fertility”

Principal Investigator: Dr. Tessa Lord, University of Newcastle, Australia

Co-Invest: James K. Pru, University of Wyoming

Agency: Australian Research Council

Type: Discovery Program

Status: pending, under review

Funding: 2025-2027

Objective: To demonstrate that hypoxia and tight oxygen regulations in the testis is a principal regulator of spermatogenesis. The project will focus on a role for non-erythroid hemoglobin beta in coordinating spermatogenic progression.

“AMPK Functions during Pregnancy”

Principal Investigator: Dr. James K. Pru, University of Wyoming

Agency: NIH

Type: R01

Status: reviewed and scored, resubmission November 2025

Funding: 2026-2031 (\$3,096,074; total)

Objective: To establish a role for the AMPK signaling pathway in the establishment and maintenance of early pregnancy.

“Intracellular and Secreted Functions of ISG15 during Pregnancy”

Principal Investigator: Dr. James K. Pru, University of Wyoming

Co-Invest: Dr. Thomas R. Hansen, Colorado State University

Co-Invest: Dr. Jason Gigley, University of Wyoming

Agency: NIH

Type: R01

Status: new, Oct 2025 submission

Funding: 2026-2031 (\$3,540,250; total)

Objective: To understand the molecular underpinnings by which PGRMC proteins function to initiate and promote oncogenesis through post-translational protein transport and lipid metabolism.

“Lipid Metabolism in Oncogenesis and Tumor Progression”

Principal Investigator: Dr. James K. Pru, University of Wyoming

Co-Invest: Dr. Julie Kim, Northwestern University

Agency: NIH

Type: R01

Status: new, February 2026 submission

Funding: 2026-2031 (\$3,450,887; total)

Objective: To understand the molecular underpinnings by which PGRMC proteins function to initiate and promote oncogenesis through post-translational protein transport and lipid metabolism.

“Luteal Dyslipidemia Drives Ovarian Aging and Premature Ovarian Insufficiency”

Principal Investigator: Dr. James K. Pru, University of Wyoming

Agency: NIH

Type: R01

Status: new, February 2026 submission

Funding: 2026-2031 (\$3,267,520; total)

Objective: To understand the molecular underpinnings by which PGRMC proteins function to initiate and promote oncogenesis through post-translational protein transport and lipid metabolism.

“PGRMC Proteins Regulate Spermatogenesis by Coordinating Lipid Metabolism and Cell Division”

Principal Investigator: Dr. James K. Pru, University of Wyoming

Multi-PI: Dr. Chris Geyer, Eastern Carolina University

Agency: NIH

Type: R01

Status: new, February 2026 submission

Funding: 2026-2031 (\$3,218,319; total)

Objective: To understand the molecular underpinnings by which PGRMC proteins regulate lipid metabolism and mitosis/meiosis.

3. Past

“Establishing Mechanisms of Action for PGRMC Proteins”

Principal Investigator: Dr. Scott Seville, University of Wyoming

Co-PI: Dr. James K. Pru

Agency: NIH

Type: P20 GM103432

Status: Funded

Funding: 9/2023-8/2025 (\$69,568; total)

Objective: To provide support for a PhD student to evaluate the function of PGRMC proteins in mammalian uterine biology.

“Functions of Non-erythroid Hemoglobin at the Maternal:Fetal Interface”

Principal Investigator: Dr. James K. Pru, Washington State University

Agency: NIH

Type: R21 HD097641

Status: Funded

Funding 1/2019-12/2021 (\$420,750; total)

Objective: To establish a role for uterine-derived hemoglobin at the maternal:fetal interface with emphasis on sequestration of reactive oxygen species.

“Computer-Assisted Semen Analysis”

Principal Investigators: Dr. James K. Pru; University of Wyoming

Agency: USDA/NIFA

Type: Capacity grant

Status: Completed

Funding: 1/2023 (\$124,299; total)

Objective: To acquire a computer-assisted semen analysis system equipped with both bright field and fluorescence microscope for semen analysis.

“Microscopy Systems in Animal Science”

Principal Investigators: Dr. James K. Pru; University of Wyoming

CoPI: Dr. Jeremy Block; University of Wyoming

Agency: USDA/NIFA

Type: Capacity grant

Status: Completed
Funding: 4/2022 (\$91,185; total)
Objective: To acquire a Zeiss Axiolmager D2 upright bright field and fluorescence microscope for cell and tissue imaging.

“Micromanipulation System for Gene Editing”

Principal Investigators: Dr. James K. Pru; University of Wyoming
Co-PI: Dr. Jeremy Block and Brenda Alexander; University of Wyoming
Agency: USDA/NIFA
Type: Capacity grant
Status: Completed
Funding: 12/13/2021 (\$126,682; total)
Objective: To acquire a micromanipulation system for functional genomics studies in large animals using gene editing. The system is also designed for studies of reproductive biology, pre-implantation embryo development, and cellular reprogramming/regeneration.

“Gene Editing and Equipment Modernization in Animal Science”

Principal Investigator: Dr. James K. Pru, University of Wyoming
Co-PI: Dr. Jeremy Block, Brenda Alexander, Cody Gifford; University of Wyoming
Agency: USDA/NIFA
Type: Capacity grant
Status: Completed
Funding: 3/18/2021 (\$33,875; total)
Objective: To acquire microscopy equipment with LED and fluorescent light capabilities, imaging system, software and computer for evaluating whole tissue specimens by white light or direct fluorescence.

“Mechanisms of PGRMC1 Action in Endometrial Proliferation”

Principal Investigator: Dr. James K. Pru, Washington State University
Agency: NIH
Type: R21 HD086402
Status: Completed
Funding: 7/29/2016-6/30/2019 (\$419,500; total)
Objective: To understand the role of PGRMC1 in endometrial epithelial cell proliferation and progression toward endometrial cancer.

“Investigation of Tissue Recovery and Fertility in a Mouse Metritis Model Following OmniGen-AF® Supplement”

Principal Investigator: Dr. James K. Pru, Washington State University
Agency: OmniGen
Type: Industry
Status: Completed
Funding: 1/2016-6/2018 (\$25,000; total)
Objective: To evaluate the effects of OmniGen-AF nutritional supplement on endometrial involution following parturition.

“Targeting AMPK and Associated Pathways for Attenuating Inflammation and Adhesion/Fibrosis in Endometriosis”

Principal Investigator: Dr. James K. Pru, Washington State University

- Agency: Bayer AG Corporation
Type: Grants4Targets
Status: Completed
Funding: 12/2015-12/2017 (\$27,000; total)
Objective: To identify mechanisms contributing to the development and progression of endometriosis.
- “Investigation of the Role of PGRMC1 in Mediating Progesterone-Induced Autophagy”
Principal Investigator: Nicole Clark (student)
Mentor: Dr. James K. Pru (Co-PI), Washington State University
Agency: NSF
Status: Completed
Type: NSF Graduate Research Fellowship Program Fellowship
Funding: 7/2014-6/2017 (\$182,000; total)
Objective: To demonstrate the functional link between progesterone signaling and induction of autophagy in the female reproductive tract.
- “Mechanisms of PGRMC2 Action in Female Reproduction”
Principal Investigator: Dr. James K. Pru, Washington State University
Co-PI: Dr. John Peluso, University of Connecticut Health Center
Agency: NIH
Type: R21 OD016564
Status: Completed
Funding: 6/2014-5/2017 (\$432,009; total)
Objective: To determine the functional requirement of *Pgrmc2* in female reproductive physiology.
- “Uterine Vascular Remodeling during Pregnancy”
Principal Investigator: Dr. James K. Pru, Washington State University
Agency: NIH
Type: R21 OD010488
Status: Completed
Funding: 6/2013-4/2016 (\$394,903; total)
Objective: To establish a functional role for the novel embryo-induced G protein-coupled receptor in the decidualizing endometrium during embryo implantation.
- Faculty Productivity Grant
Principal Investigator: Dr. James K. Pru, Washington State University
Agency: College of Agriculture, Human, and Natural Resource Sciences, WSU
Status: Completed
Funding: 5/1/2013-4/30/2014 (\$20,000; total)
Objective: To evaluate *Pgrmc1* and *Pgrmc2* actions in female reproductive tissues.
- “Functional Analysis of Endometrial Stem/Progenitor Cells”
Principal Investigator: Dr. James K. Pru, Washington State University
Agency: NIH
Type: R21 HD066297
Status: Completed
Funding: 7/2010-6/2013 (\$393,518; total)

Objective: To understand how endometrial stem/progenitor cells contribute in endometrial regeneration.

"PGRMCI Function in Female Reproductive Physiology"

Principal Investigator: Dr. John J. Peluso

Co-PI: Dr. James K. Pru, Washington State University

Agency: NIH (subcontract)

Type: R21 RR030264

Status: Completed

Funding: 1/2009-10/2012 (\$174,000; total subcontract)

Objective: To determine the functional importance of PGRMC1 to female fertility through the use of conditional mutagenesis.

"Environmental Disruption of Uterine Function"

Principal Investigator: Dr. James K. Pru, Massachusetts General Hospital

Agency: NIH

Type: R01 ES012070

Status: Completed

Funding: 7/2004-4/2009 (\$1,105,672; total)

Objective: To evaluate the functional requirement of the aryl hydrocarbon receptor during early pregnancy and establish a role for this receptor in mediating genotoxic stress.

"Contribution of Bone Marrow-Derived Stem Cells to Uterine Function and Potential Use for Regenerative Therapy Following Radiation-Induced Damage"

Principal Investigator: Dr. Carla DiGirolamo, Massachusetts General Hospital

Mentor: Dr. James K. Pru

Agency: American Society for Reproductive Medicine and Organon

Type: Private

Status: Completed

Funding: 6/2005-5/2006 (\$50,000; total)

Objective: To determine if bone-marrow derived stem cells contribute to endometrial repair following radiation therapy.

"Sunfield Grant "

Principal Investigator: Dr. James K. Pru, Massachusetts General Hospital

Agency: Sunfield Foundation

Status: Completed

Funding: 2003 (\$10,000; total)

Objective: Purchase 2D-gel electrophoresis equipment for proteomic studies.

"Control of Maternal-Fetal Interactions by PAS Genes"

Principal Investigator: Dr. James K. Pru, Massachusetts General Hospital

Agency: NIH

Type: F32 ES11941 (Postdoctoral Fellowship)

Status: Completed

Funding: 7/2002-6/2004 (\$76,640; total)

Objective: To demonstrate the negative impact of DMBA exposure on uterine decidualization and early pregnancy.

"The Sphingolipid Pathway Mediates Regression of the Corpus Luteum"

Principal Investigator: Dr. James K. Pru, Massachusetts General Hospital
 Agency: The Lalor Foundation
 Type: Postdoctoral Fellowship
 Status: Completed
 Funding: 7/2001-6/2002 (\$45,000; total)
 Objective: To establish a role for sphingolipid signaling in bovine luteal function.

E. Publications

1. Refereed Articles

Note: Google Scholar *h*-index=35; *Pru, JK senior author;

Contributions:

- a. Developed the initial idea
- b. Provided a research tool or funding
- c. Collected and analyzed data
- d. Wrote or played a major role in writing the article
- e. Edited the article

87. *Kelp NC, Pru CA, Paudel S, Lydon JP, Kim JJ, Peluso JJ, **Pru JK**. Uterine *Pgrmc2* deficiency attenuates endometrial hyperplasia and cancer and prolongs lifespan in a *Pten* loss-of-function-induced cancer model. *Cancers* 2025;17:1178. PMID:40227710 (**a-e**).
86. Nauli S, Amirrad F, La V, Ohadi S, Webster S, **Pru JK**, Shamloo K, Mohieldin A, Albotaif M. PGRMC2 is a pressure-volume regulator critical for myocardial responses to stress in mice. *Nat Commun* 2025;16:2422. PMID:40069180 (**b,e**)
85. McGlade EA, Stephens KK, Mao J, Arguc FN, Wu SP, Winuthayanon S, Shirwan H, Yolcu ES, Hunter MK, **Pru JK**, Lydon JP, DeMayo FJ, Winuthayanon W. Progesterone signaling in the oviductal epithelial cells modulates immune response to support preimplantation embryo development. *Sci Adv* 2025;11:eadt6113. PMID:40249812 (**b,e**)
84. ***Pru JK**. The value of leukocyte counts in prospectively predicting the severity of post-acute sequelae of SARS-CoV-2 infection in postmenopausal women. *Menopause* 2025;32:189-190. PMID:39998968 (**a-e**)
83. ***Pru JK**. Considering off-label dosing with estrogen as a component of personalized menopausal hormone therapy. *Menopause* 2025;32:101-102. PMID:39854672 (**a-e**)
82. Britz SM, Nelson S, Earhart KM, **Pru JK**, Schmitt EE. Circadian disruption impact fetal development. *J Circadian Rhythms* 2024;22:4. PMID:39712938 (**c-e**)
81. ***Pru JK**. Defining liquid biopsy parameters in postmenopausal women for disease diagnosis. *Menopause* 2024;1:169-170 PMID:38385728 (**a-e**)
80. Makhijani RB, Bartolucci AF, Pru CA, **Pru JK**, Peluso JJ. Non-erythroid hemoglobin promotes human cumulus cell viability and the developmental capacity of the human oocyte. *Fert Steril Sci* 2023;4:121-132. PMID:36933864 (**a-e**)
79. ***Pru JK**. Low serum anti-Mullerian hormone in middle-aged women associates with obesity markers. *Menopause* 2023;30:237 PMID:36811962 (**a-e**)
78. ***Pru JK**. Pleiotropic actions of PGRMC proteins in cancer. *Endocrinology* 2022;163:bqa078 PMID:35595324 (**a-e**)
77. ***Pru JK**. A causal link between disrupted AKT signaling and hyperproliferative endometrial diseases. *Endocrinology* 2022;163:bqac006. PMID:35041749 (**a-e**).
76. ***Pru JK**. The impact of postmenopausal hormone therapy on the duodenal microbiome. *Menopause* 2022;29:253. PMID:35131962 (**a-e**).

75. Peluso JJ, **Pru JK**. Progesterone receptor membrane component (PGRMC) 1 and PGRMC2 and their roles in ovarian and endometrial cancer. *Cancers* 2021;13:5953. PMID:34885064 (a-e)
74. ***Pru JK**. Lipid equilibrating actions of syringic acid following lost ovarian function. *Menopause* 2021;28:1328. PMID:34854836 (a-e)
73. ***Pru JK**. Initial observations describing a lack of endometrial estrogenicity in response to low-dose estrogen vaginal implants. *Menopause* 2021;28:969. PMID:34313614 (a-e)
72. ***Pru JK**. Differences in gut microbiota observed in premenopausal and postmenopausal women associated with HIV infection status. *Menopause* 2021;28:480 PMID:33739314 (a-e)
71. *Griffiths RM, Pru CA, Behura SK, Cronrath AR, McCallum ML, Kelp NC, Winuthayanon W, Spencer TE, **Pru JK**. AMPK is required for uterine receptivity and normal responses to steroid hormones. *Reproduction* 2020;159:707-717. PMID:32191914 (a-e)
70. Galmozzi A, Kok BP, Kim AS, Montenegro-Burke R, Lee JY, Spreafico R, Mosure S, Albert V, Cintron-Colon R, Goido C, Webb WR, Conti B, Solt LA, Kojetin D, Parker CG, Peluso JJ, **Pru JK**, Siuzdak G, Caravatt BF, Saez E. PGRMC2 is an intracellular heme chaperone critical for adipocyte function. *Nature* 2019;576:138-142. PMID:31748741 (b,e)
69. ***Pru JK**. Persistent concerns over the use of compounded hormone therapies. *Menopause* 2019;26:945. PMID: 31389858 (a-e)
68. Peluso JJ, Pru CA, Liu X, Kelp NC, **Pru JP**. Progesterone receptor membrane components 1 and 2 regulate granulosa cell mitosis and survival through a NFkB-dependent mechanism. *Biol Reprod* 2019;100:1571-1580. PMID:30877763 (b,c,e)
67. Patterson AL, George J, Chatterjee A, Carpenter T, Wolfrum E, **Pru JK**, Teixeira JM. Label-retaining, putative mesenchymal stem cells contribute to repair of the myometrium during uterine involution. *Stem Cells Dev* 2018;27:1715-1728. PMID:30328770 (c,e)
66. *McCallum ML, Pru CA, Smith AR, Kelp NC, Foretz M, Viollet B, Du M, ***Pru JK**. A functional role for AMPK in female fertility and endometrial regeneration. *Reproduction* 2018;156:501-513. PMID: 30328345 (a-e)
65. Peluso JJ, Liu X, Uliasz T, Pru CA, Kelp NC, **Pru JK**. PGRMC1/2 promote luteal vascularization and maintain the primordial follicles in mice. *Reproduction* 2018;156:365-373. PMID:30306772 (a-e)
64. Banerjee K, Resat H, Pru CA, **Pru JK**. STAT3 knockdown induces tumor formation by MDA-MB-231 cells. *Clin Oncol Res* 2018;1:1-8. PMID:30234199 (b-e)
63. Ciccarelli M, Waqas MS, **Pru JK**, Tibary A. Oxytocin is not involved in luteolysis and early maternal recognition of pregnancy (MRP) in alpacas. *Anim Reprod Sci* 2017;187:28-38. PMID:29029875. (b,c)
63. ***Pru JK**. Another link between exercise and relief from postmenopausal decline. *Menopause* 2017;24:602. PMID:28419070 (a-e)
61. *Clark NC, Pru CA, Yee SP, Lydon JP, Peluso JJ, **Pru JK**. Conditional ablation of progesterone receptor membrane component 2 causes female premature reproductive senescence. *Endocrinology* 2017;158:640-651. PMID:28005395 (a-e)
60. Kelleher AM, Peng W, **Pru JK**, Pru CA, DeMayo FJ, Spencer TE. Forkhead box a2 (FOXA2) is essential for uterine function and fertility. *Proc Natl Acad Sci* 2017;114:E1018-E1026. PMID:28049832 (b,c,e)
59. *Clark NC, Pru CA, **Pru JK**. Novel regulators of hemodynamics in the pregnant uterus. *Pro Mol Biol Transl Sci* 2017;145:181-216. PMID:28110751 (a-e)

58. ***Pru JK**. Late maternal age at last childbirth and telomere homeostasis. *Menopause* 2017;24:478. PMID:28419065 (**a-e**)
58. 16. ***Pru JK**. Lack of a functional response to SERM treatment in ovariectomy-induced vaginal remodeling. *Menopause* 2016;23:117-118. PMID:26757273 (**a,d,e**)
57. *McCallum ML, Pru CA, Niikura Y, Yee SP, Lydon JP, Peluso JJ, **Pru JK**. Conditional ablation of progesterone receptor membrane component 1 results in subfertility in the female and development of endometrial cysts. *Endocrinology* 2016;157:3309-3319 PMID:27309940 (**a-e**)
56. ***Pru JK**. Spectral response to reversing coronary artery atherosclerosis in Vitamin D supplementation in postmenopausal cynomolgus monkeys. *Menopause* 2016;23:475-476. PMID: 27045701 (**a-e**)
55. *Clark NC, Friel AM, Pru CA, Zhang L, Shioda T, Rueda BR, Peluso JJ, **Pru JK**. Progesterone receptor membrane component 1 promotes survival of human breast cancer cells and growth of xenograft tumors. *Cancer Biol Ther* 2016;17:262-271. PMID:26785864 (**a-e**)
54. ***Pru JK**. A neuroprogenitor cell-based mechanism for exercise-enhanced cognition following reproductive senescence. *Menopause* 2016;23:5-6. PMID:26671192 (**a-e**)
53. Dey S, Chamero P, **Pru JK**, Chien MS, Ibarra-Soria X, Spencer KR, Logan DW, Matsunami H, Peluso JJ, Stowers L. Cyclic regulation of sensory perception by a female hormone alters behavior. *Cell* 2015;161:1334-1344. PMID: 26046438 (**b,e**)
52. Henkes LE, **Pru JK**, Ashley RL, Anthony RV, Veeramachaneni DNR, Gates KC, Hansen TR. Embryo mortality in *Isg15*^{-/-} mice is exacerbated by environmental stress. *Biol Reprod* 2015;92:36. PMID: 25505199 (**a,c,d,e**)
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50. Hansen TR, **Pru JK**. ISGylation: A conserved pathway in mammalian pregnancy. *Adv Exp Med Biol* 2014; 759:13-31. PMID: 25030758 (**d,e**)
49. Griffin D, Liu X, Pru CA, **Pru JK**, Peluso JJ. Expression of progesterone receptor membrane component-2 within the immature rat ovary and its role in regulating mitosis and apoptosis of spontaneously immortalized granulosa cells. *Biol Reprod* 2014;91:36. PMID: 24990806 (**a-e**)
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47. ***Pru JK**. New reagents for detecting low anti-Mullerian hormone serum levels in perimenopausal women. *Menopause* 2014;21:1261-1262. PMID: 25335104 (**a-e**)
46. ***Pru JK**. Genetic predisposition to the ovotoxic effects of smoking may hasten the time to menopause. *Menopause* 2014; 21:685-686. PMID: 24915508 (**a,c,d,e**)
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44. ***Pru JK**, Clark NC. PGRMC1 and PGRMC2 in uterine physiology and disease. *Front Neurosci.* 2013; 7:168. PMID: 24065879 (**a-e**)
43. ***Pru JK**. The bone-promoting actions of formononetin in established osteopenia - reply. *Menopause.* 2013; 20:478-479. PMID: 23921476 (**a-e**)
42. ***Pru JK**. Benefits and recently identified limitations of bazedoxifene acetate on postmenopausal symptoms. *Menopause.* 2013; 20:252-253. PMID: 23435020 (**a-e**)
41. *Patterson AL, **Pru JK**. Long-term label retaining cells localize to distinct regions within the female reproductive epithelium. *Cell Cycle.* 2013; 12:2888-2898. PMID: 24018418 (**a-e**)

40. *Patterson AL, Zhang L, Arango NA, Teixeira J, **Pru JK**. Mesenchymal-to-epithelial transition contributes to endometrial regeneration following natural and artificial decidualization. *Stem Cell Dev*. 2013; 22:962-974. PMID: 23216285 (a-e)
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38. ***Pru JK**. The bone promoting actions of formononetin in established osteopenia. *Menopause*. 2012; 19:843-844. PMID: 22828286 (a-e)
37. ***Pru JK**. Preclinical evidence supporting a beneficial role for vitamin D and its cognate receptor in cardiovascular health. *Menopause*. 2012; 19:952-953. PMID: 22922511 (a-e)
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34. ***Pru JK**. Exercise restores autonomic balance in menopause and after cardiovascular events. *Menopause*. 2010; 17:676-677. PMID: 20505540 (a-e)
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2. Books and Chapters in Books

6. *Paudel S, **Pru JK**. Structural characterization and functions of non-classical sex steroid receptors in female reproduction. *Encyclopedia of Reproduction, Female Reproduction.* 3rd edition. 2024:1-9 DOI:10.1016/B978-0-443-21477-6.00064-X (a-e)
5. *Clark NC, Pru CA, **Pru JK**. Novel regulators of hemodynamics in the pregnant uterus, in "Molecular Biology of Placental Development and Disease." *Pro Mol Biol Transl Sci* 2017;145:181-216. PMID:28110751 (a-e)
4. Hansen TR, **Pru JK**. ISGylation: A conserved pathway in mammalian pregnancy. In: *Posttranslational protein modifications in the reproductive system.* Sutovsky P (ed). Springer Press 2014. (a,d,e)
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3. Refereed publications or book chapters in preparation or under review

4. Patents and Invention Disclosures

2. Invention Disclosure: INV19-020, Colorado State University, "Animal Health Diagnostics". Inventors: Thomas R. Hansen, Kathleen J. Austin, James K. Pru. Filed 10/2018
1. Invention Disclosure: 10/299,497, "Methods and compositions for the detection of bovine pregnancy which utilize members of the 1-8 family of interferon inducible genes. Inventors: Thomas Hansen, Kathleen Austin, James Pru. Filed 11/16/2001

5. Proceedings Abstracts

116. Flesvig A, Sinzu-Prieto DB, Pru CA, **Pru JK**. Evaluating a role for non-erythroid hemoglobin in female and male reproductive tissues. Wyoming INBRE Summer Symposium, 2025
115. Zielinski-Schloegel AE, Sinzu-Prieto DB, Pru CA, Srivastava N, Schmitt EE, **Pru JK**. Casein kinase 1 delta and epsilon regulate expression of the long non-coding RNA rhabdomyosarcoma 2-associated transcript during postnatal development of the female reproductive tract. Wyoming INBRE Conference, Laramie, WY 2025
114. **Pru JK**, Srivastava N, Pru CA, Sinzu-Prieto D, Paisley TS, Pru JM, Bruns DR, Schmitt EE, Lodde V, Schindler K, Peluso JJ. Loss of luteal PGRMC1/2 homeostasis accelerates ovarian aging resulting in premature ovarian insufficiency. Gordon Research Conference, Biology of Aging, Barga, Italy 2025.
113. Flesvig A, Srivastava N, Pru CA, Sinzu-Prieto D, **Pru JK**. A novel *Pgrmc1*^{H165R-HA} missense mutant mouse line to study PGRMC1 functions in physiology and disease. Wyoming INBRE Conference, Laramie, WY 2025
112. Srivastava N, Pru CA, Sinzu-Prieto D, Paisley TS, Pru JM, Bruns DR, Schmitt EE, Lodde V, Schindler K, Peluso JJ, **Pru JK**. Disrupted luteal, but not female germline or stromal, PGRMC1/2 homeostasis causes premature ovarian aging. 4th Reproductive Aging Conference, San Jose, CA 2025
111. **Pru JK**, Kelp NC, Pru CA, Paudel S, Kim JJ. Metabolic profiling of human PGRMC1-intact and PGRMC1-deplete xenograft endometrial tumors. 72nd Society for Reproductive Investigation meeting, Charlotte, NC 2025
110. Srivastava N, Paudel S, Govaerts JA, McDaniel, J, Pru CA, Schoborg TA, **Pru JK**. Use of microCT imaging to assess the effects of uterine PGRMC1 overexpression on embryonic, fetal and placental development. 72nd Society for Reproductive Investigation meeting, Charlotte, NC 2025
109. Lungren E, Pru CA, Pru JM, Guzeloglu A, Hansen TR, **Pru JK**. Establishing the uterine function of ISG15 in mammalian pregnancy. Rocky Mountain Reproductive Sciences Symposium, Fort Collins, CO 2024
108. Sinzu-Prieto D, Pru CA, Lydon JP, Schmitt EE, **Pru JK**. An essential role for casein kinase 1 delta and epsilon in endometrial development and pregnancy. Rocky Mountain Reproductive Sciences Symposium, Fort Collins, CO 2024
107. Srivastava N, Paisley TS, Pru CA, Lydon JP, **Pru JK**. The functional requirement for PGRMC proteins in uterine decidualization and their role in lipid and RNA biology. Rocky Mountain Reproductive Sciences Symposium, Fort Collins, CO 2024
106. Lungren E, Pru CA, Pru JM, Guzeloglu A, Hansen TR, **Pru JK**. Establishing the uterine function of ISG15 in mammalian pregnancy. Wyoming INBRE Conference, Laramie, WY 2024

105. **Pru JK**, Lungren E, Pru CA, Pru JM, Guzeloglu A, Hansen TR. Identification of ISG15 conjugated proteins in murine reproductive tissues during early pregnancy. Society for the Study of Reproduction, Dublin, Ireland 2024
104. Sinzu-Prieto D, Pru CA, Lydon JP, Schmitt EE. **Pru JK**. An essential role for casein kinase 1 delta and epsilon in endometrial development and pregnancy. 71st Society for Reproductive Investigation meeting. Vancouver, BC, Canada, 2024
103. Srivastava N, Paisley TS, Pru CA, Lydon JP, **Pru JK**. The functional requirement for PGRMC proteins in uterine decidualization and their role in lipid and RNA biology. 71st Society for Reproductive Investigation meeting. Vancouver, BC, Canada, 2024
102. Lungren E, Pru CA, **Pru JK**. Establishing a role for ISG15 in mammalian pregnancy. INBRE Summer Undergraduate Research Symposium, Laramie, WY 2023
101. Lungren E, Pru CA, **Pru JK**. Establishing a functional role for inhibitor of DNA binding (ID) proteins in mammalian spermatogenesis. Rocky Mountain Reproductive Sciences Symposium, Fort Collins, CO 2023
100. Paisley TS, Pru CA, **Pru JK**. Evaluating the impact of PGRMC2 over-expression in the female reproductive tract. Rocky Mountain Reproductive Sciences Symposium, Fort Collins, CO 2023
99. Paudel S, Kelp NC, Pru CA, **Pru JK**. PGRMC1 promotes growth, vascularization and immune cell recruitment in endometrial and breast xenograft tumors. Rocky Mountain Reproductive Sciences Symposium, Fort Collins, CO 2023
98. Britz S, Earhart K, **Pru JK**, Schmitt EE. Circadian disruption impacts female fertility. Western Student and Resident Medical Research Forum, Carmel, CA, 2022
97. Grossman AC, Pru CA, Herrera NT, Winuthayanon W, Topping TB, Griswold MD, **Pru JK**. Progesterone receptor membrane component (PGRMC) 1 and PGRMC2 are essential for spermatogenesis and male fertility. Northwest Reproductive Sciences Symposium, Stevenson, WA, 2022
96. Jorgensen-Muga K, Pru CA, Kelp NC, Lydon JP, Li L, Love PE. **Pru JK**. Transcriptional co-activator Lim domain-binding protein 1 (LDB1) is required for female fertility and non-erythroid uterine hemoglobin biosynthesis. Society for the Study of Reproduction, Spokane, WA, 2022
95. Flock JW, Pru CA, Lydon JP, Oatley JM. **Pru JK**, Navratil AM. Transcription factor (TCF) 3 and TCF12 regulate female reproduction in part through gonadotrope regulation and luteinizing hormone expression and secretion. Society for the Study of Reproduction, Spokane, WA, 2022
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92. Sir CG, Pru CA, Grossman AC, Topping T, Anamthathmakula P, Winuthayanon W, Griswold, **Pru JK**. Conditional ablation of *Pgrmc1* and *Pgrmc2* from the male germline compromises spermatogenesis and male fertility. SURCA Symposium, WSU, 2020
91. Jorgensen-Muga K, Pru CA, McLean DJ. **Pru JK**. Effect of OmniGen-AF supplementation on uterine involution and fertility in a murine model of endometritis. Annual Meeting of the American Society of Animal Science, Vancouver, CA 2018.

90. Griffiths RM, Kelp NC, Pru CA, Pru JK. A role for progesterone receptor membrane component 1 (PGRMC1) in hormone-dependent mRNA metabolism. Center for Reproductive Biology Annual Retreat, Orofino, ID, 2018
89. Gallaway SD, Pru CA, Kelp NC, **Pru JK**. PGRMC1 enhance the growth and development of triple-negative breast cancer. Showcase for Undergraduate Research and Creative Activities, WSU, 2018.
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80. Peng W, Kelleher A, **Pru JK**, Spencer TE. Forkhead box a2 (*Foxa2*) is essential for adult uterine function and fertility. 49th Annual Meeting of the Society for the Study of Reproduction, San Diego, CA, 2016
79. Adams HL, Peluso JJ, **Pru JK**, Petersen SL. Progesterone receptor membrane component 1 regulation of janus kinase and prolactin signaling in hypothalamic neurons through progesterone-dependent and -independent mechanisms. Annual Meeting of the Endocrine Society, Boston, MA, 2016
78. Clark NC, Burns GW, Pru CA, Lydon JP, Peluso JP, Spencer TE, **Pru JK**. Conditional deletion of *Pgrmc1* and *Pgrmc2* results in aberrant endometrial gene expression, histoarchitecture and estrogen signaling. 48th Annual Meeting of the Society for the Study of Reproduction, Puerto Rico, 2015.
77. **Pru JK**, Patterson AL, Pru CA. Development of an orthotopic transplantation model for assessing endometrial stem cell functions *in vivo*. 61st Annual Meeting of the Society of Gynecological Investigation, Florence, Italy, 2014
76. **Pru JK**, Clark NC, Pru CA, McCallum ML, DeMayo FJ, Lydon JP, Peluso JJ. Conditional deletion of *progesterone receptor membrane component 1 (Pgrmc1)* and

- Pgrmc2* results in subfertility and aberrant endometrial epithelial cell proliferation. 3rd World Congress for Reproductive Biology, Edinburgh, Scotland, 2014
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 74. Reinelt MCL, Clark NC, Pru CA, Herndon MK, Demayo FJ, Lydon JP, Zhuang Y, Oatley JM, Nilson JH, **Pru JK**. E2A and HEB are indispensable transcriptional regulators of pituitary and uterine physiology. 47th Annual Meeting of the Society for the Study of Reproduction, Grand Rapids, MI, 2014
 73. McCallum ML, Niikura Y, Pru CA, DeMayo FJ, Lydon JP, Yee SP, Peluso JJ, **Pru JK**. Conditional *Pgrmc1* deletion results in subfertility in the female and progression toward endometrial cancer. 47th Annual Meeting of the Society for the Study of Reproduction, Grand Rapids, MI, 2014
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 69. Pru CA, Compton BK, Kanda Y, **Pru JK**. Identification of a novel endometrial and pregnancy-specific gene at the maternal-embryo interface. 61st Annual Meeting of the Society of Gynecological Investigation, Florence, Italy, 2014
 68. Clark NC, Friel AM, Zhang L, McCallum ML, Shioda T, Pru CA, Peluso JJ, Rueda BR, **Pru JK**. PGRMC1 mediates progesterone-induced chemoresistance and facilitates tumor growth of breast cancer. Gordon Research Conference, Hormone-Dependent Cancers, Smithfield, RI, 2013
 67. Clark NC, McCallum ML, Pru CA, **Pru JK**. Non-classical progesterone signaling in uterine physiology. Showcase for Undergraduate Research and Creativity Activities. WSU, Pullman, WA, 2013
 66. Reinelt MCL, Pru CA, Oatley JM, **Pru JK**. E2A and HEB function in female fertility. Showcase for Undergraduate Research and Creativity Activities. WSU, Pullman, WA, 2013
 65. Spencer TE, **Pru J**, DeMayo FJ, Lydon JP, Filant J. Fibroblast growth factor receptor two (FGFR2) regulates uterine epithelial integrity and fertility in mice. 46th Annual Meeting of the Society for the Study of Reproduction, Montreal, Canada
 64. Compton BK, Cashell EW, Boland EL, Pru CA, **Pru JK**. Embryonic modification of innate immunity during early pregnancy. College of Agriculture, Human and Natural Resource Sciences Undergraduate Research and Creativity Project. (*First place student competition*) 2012
 63. Patterson AL, Cashell EW, Pru CA, **Pru JK**. Identification of paracrine signaling pathways that may facilitate cellular transdifferentiation during uterine regeneration. Center for Reproductive Biology Retreat, Washington State University, Pullman, WA, 2012

62. Cashell, EW, Patterson AL, Pru CA, Lydon JP, DeMayo FJ, **Pru JK**. Homeostatic glucocorticoid signaling is required for normal pregnancy. Center for Reproductive Biology Retreat, Washington State University, Pullman, WA, 2012
61. Yenick K, **Pru JK**, Peluso JJ, McLean DJ. Conditional deletion of *Pgrmc1* in germ cells disrupts spermatogenesis. 45th Annual Meeting of the Society for the Study of Reproduction, State College, PA, 2012
60. Balash HR, Cashell EW, Pru CA, **Pru JK**. The function of *Nr3c1* in ovarian biology. Showcase for Undergraduate Research and Creativity Activities. WSU, Pullman, WA, 2012
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58. Cashell EW, Patterson AL, Pru CA, Lydon JP, DeMayo FJ, **Pru JK**. Homeostatic glucocorticoid signaling is required for normal pregnancy. 45th Annual Meeting of the Society for the Study of Reproduction, State College, PA, 2012
57. Patterson AL, **Pru JK**. H2B-GFP label retention reveals slow cycling stromal cells as a potential population of endometrial stem/progenitor cells. 44th Annual Meeting of the Society for the Study of Reproduction, Portland, OR, 2011
56. Cloninger E, Pru CA, DiGirolamo CM, **Pru JK**. Glucocorticoid intracrine signaling at the maternal-embryo interface. 44th Annual Meeting of the Society for the Study of Reproduction, Portland, OR, 2011
55. Hansen TR, Henkes LE, Ashley RA, Veeramachaneni DNR, Ashley RL, Anthony RV, McBroom KC, Bouma GJ, **Pru JK**. Isgylation: a conserved pathway in mammalian pregnancy. 44th Annual Meeting of the Society for the Study of Reproduction, Portland, OR, 2011
54. McCallum ML, Pru CA, Rueda BR, Peluso JJ, **Pru JK**. Progesterone receptor membrane component 1 (PGRMC1) and its role in the establishment and progression of female cancers. CAHNRS Undergraduate Research and Creativity Fair, Washington State University, Pullman, WA, 2011
53. Cloninger E, Pru CA, DiGirolamo CM, **Pru JK**. Glucocorticoid intracrine signaling at the maternal-embryo interface. Center for Reproductive Biology Retreat, Washington State University, Pullman, WA, 2011
52. McCallum ML, Pru CA, Rueda BR, Peluso JJ, **Pru JK**. Progesterone receptor membrane component 1 (PGRMC1) and its role in the establishment and progression of female cancers. Undergraduate Research Competition, Washington State University, Pullman, WA, 2011
51. Broady J, De Avila J, Peluso JJ, **Pru JK**, McLean DJ. Conditional deletion of *Pgrmc1* in Sertoli cells disrupts germ cell development and steroidogenesis in the male. 44th Annual Meeting of the Society for the Study of Reproduction, Portland, OR, 2011
50. Krull AL, Zhang L, Arango NA, Teixeira J, **Pru JK**. A Potential Role for Mesenchymal-to-epithelial transition during endometrial regeneration. 43rd Annual Meeting of the Society for the Study of Reproduction, Milwaukee, WI, 2010
49. Krull AL, Zhang L, Arango NA, Teixeira J, **Pru JK**. A potential role for mesenchymal-to-epithelial transition during endometrial regeneration. 12th Annual Northwest Reproductive Sciences Symposium, and the WSU Center for Reproductive Biology Retreat, Spokane, WA, 2010
48. **Pru JK**, Friel AM, Zhang L, Blok, LJ, Shioda T, Peluso JJ, Rueda BR. Progesterone receptor membrane component 1 promotes endometrial and breast cancer cell viability in response to chemotherapy in vitro and in vivo. 42nd Annual Meeting of the Society for the Study of Reproduction, Pittsburgh, PA, 2009

47. Henkes, LE, **Pru, JK**, Hansen, TR. Implication of interferon stimulated gene 15 (ISG15) in the recruitment of uterine natural killer cells into the murine implantation site. 42nd Annual Meeting of the Society for the Study of Reproduction, Pittsburgh, PA, 2009
46. Board W, Littell RD, **Pru JK**, Lynch MP, Guo L, Rueda BR. Cables 1 mediates progesterone-induced inhibition of endometrial epithelial cell proliferation. 41st Annual Meeting of the Society for the Study of Reproduction, Kailua-Kona, HI. 2008
45. Ashley RL, Henkes LE, Anthony RV, McBroom KC, **Pru JK**, Hansen TR. ISG15 is a molecular sentinel that functions to assist mothers in coping with environmental stressors imposed on pregnancy. 41st Annual Meeting of the Society for the Study of Reproduction, Kailua-Kona, HI. 2008
44. Kanda Y, Zhang L, **Pru JK**. Restricted expression of a novel gestation-dependent gene at the maternal:embryonic interface. 64th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA. 2008
43. Skaznik-Wikiel ME, Zhang L, Kanda Y, Roberts D, Ecker J, **Pru JK**. Expression of S1P synthetic enzymes and cognate S1P receptors at the human maternal-fetal interface. 54th Annual Meeting of the Society for Gynecologic Investigation, Reno, NV. 2007
42. DiGirolamo CM, Kashiwagi A, Shioda T, Kanda Y, Hansen TR, **Pru JK**. Regulation of uterine decidualization at the maternal:embryonic interface. Improving the health of women through research at Massachusetts General Hospital, 3rd Annual Women's Health Research Celebration. 2006
41. DiGirolamo CM, Kashiwagi A, Shioda T, Hansen TR, **Pru JK**. Mechanisms regulating uterine steroidogenesis at the maternal:fetal interface. 62nd Annual Meeting of the American Society for Reproductive Medicine, New Orleans, LA. 2006.
40. DiGirolamo C, Zhang L, **Pru JK**. A Sub-fraction of sca-1-negative uterine stromal cells exhibits stem/progenitor cell qualities. 53rd Annual Meeting of the Society for Gynecologic Investigation, Toronto, Canada. 2006
39. DiGirolamo CM, Kashiwagi A, Shioda T, Hansen TR, **Pru JK**. Mechanisms regulating uterine steroidogenesis at the maternal:embryonic interface. Massachusetts General Hospital Research Fellows Forum. 2006
38. DiGirolamo CM, Kashiwagi A, Shioda T, Kanda Y, Hansen TR, **Pru JK**. Regulation of uterine decidualization at the maternal:embryonic interface. Massachusetts General Hospital Research Fellows Forum. 2006
37. Kashiwagi A, **Pru JK**. Impact of the Endocrine Disruptor 7,12-dimethylbenz[a]anthracene on uterine decidualization and pregnancy maintenance. 62nd Annual Meeting of the American Society for Reproductive Medicine, New Orleans, LA. 2006
36. **Pru JK**, Zhang L, Zhang H, Peluso JJ. Membrane progestin receptors in the mouse uterus. 39th Annual Meeting of the Society for the Study of Reproduction, Omaha, NE. 2006
35. Zhang L, Johnson J, Skaznik-Wikiel ME, Forkert R, Adams G, Scadden DT, **Pru JK**. Stem cell support of uterine function: implications for cyclic remodeling, pregnancy, and uterine disease. 38th Annual Meeting of the Society for the Study of Reproduction, Quebec City, QC, Canada. 2005
34. Kashiwagi A, **Pru JK**. Epigenetic control of uterine tissue morphogenesis. 38th Annual Meeting of the Society for the Study of Reproduction, Quebec City, QC, Canada. 2005
33. Skaznik-Wikiel ME, Kaneko-Tarui T, **Pru JK**. Regulation of uterine angiogenesis during early pregnancy by sphingosine-1-phosphate receptors. 38th Annual Meeting of the Society for the Study of Reproduction, Quebec City, QC, Canada. 2005

32. Johnson J, Canning J, Kaneko T, **Pru JK**, Tilly JL. Germline stem cells and follicular repopulation in the postnatal mammalian ovary. Massachusetts General Hospital, Scientific Advisory Committee Poster Session, 2004
31. **Pru JK**, Trobovich AM. Apoptosis gene expression profiling and evaluation of cell death-inducing cytokines during early murine gestation. 51st Annual Meeting of the Society for Gynecologic Investigation, Houston, TX 2004
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29. Johnson J, Canning J, Kaneko T, **Pru JK**, Tilly JL. Germline stem cells and follicular repopulation in the postnatal mammalian ovary. 51st Annual Meeting of the Society for Gynecologic Investigation, Houston, TX 2004
28. Styer AK, **Pru JK**, Lynch MP, Rueda BR. Gene array comparisons of apoptosis related genes between preovulatory granulosa cells and corpora lutea of mid and late pregnancy. 50th Annual Meeting of The Society for Gynecologic Investigation, 50th Annual Meeting, Washington, D.C. 2003
27. Kaneko T, Ge R, **Pru JK**. Sphingolipid signaling coordinates decidual cell cox-2 expression. 36th Annual Meeting of the Society for the Study of Reproduction, Cincinnati, OH, 2003
26. **Pru JK**, Kollara A, Johnson J, Brown TJ. Pharmacologic ligands of the aryl hydrocarbon receptor repress cell cycle regulatory genes in the decidua of early pregnancy. 36th Annual Meeting of the Society for the Study of Reproduction, Cincinnati, OH, 2003
25. **Pru JK**, Tilly JL. Coordinated expression of multiple apoptosis-regulatory genes in the ovary by environmental biohazards. 50th Annual Meeting of the Society for Gynecologic Investigation, Washington D.C., 2003
24. Styer AK, **Pru JK**, Lynch MP, Rueda BR. Survivin expression between preovulatory cells and corpora lutea of mid and late pregnancy. 36th Annual Meeting of the Society for the Study of Reproduction, Cincinnati, OH. 2003
23. DeBernardo RL, Kirley SD, **Pru JK**, Duska LR, Zukerberg LR, Rueda BR. Malignant Transformation of the endometrium associated with the loss of CABLES expression. 48th Annual Meeting of the Society for Gynecologic Investigation, Los Angeles, CA, 2002
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21. Kim MR, **Pru JK**, Tilly JL. Characterization of BH3-only Bcl-2 family members in the mouse ovary by gene array and northern blot analysis. The Endocrine Society's 84th Annual Meeting, San Francisco, CA, 2002
20. Takai Y, Canning J, **Pru JK**, Perez GI, Yuan J, Korsmeyer SJ, Kolesnick RN, Tilly JL. Molecular mechanisms of apoptosis in 4-vinylcyclohexene diepoxide-induced ovotoxicity. The Endocrine Society's 84th Annual Meeting, San Francisco, CA, 2002
19. Hansen TR, Bany BM, Austin JK, **Pru JK**, Belden EL, Cross JC. ISG15, a ubiquitin paralog, is up-regulated by pregnancy and not simply by decidual response in the murine endometrium. 1st International Conference on Ubiquitin, Ubiquitin-like Proteins and Cancer, Houston, TX, 2002
18. **Pru JK**, Austin KJ, Kolesnick RN, Hansen TR, Tilly JL. Embryo-induced uterine expression of acid sphingomyelinase during the invasion phase of implantation. The Endocrine Society's 84th Annual Meeting, San Francisco, CA, 2002

17. DeBernardo RL, Kirley SD, **Pru JK**, Duska LR, Zukerberg LR, Rueda BR. Loss of CABLES: a critical step in malignant transformation of the endometrium? 36th Annual Meeting of the Society for Gynecologic Oncology, Miami Beach, FL, 2002
16. Cavicchio VA, **Pru JK**, Davis JS, Rueda BR, Townson DH. Regulation of monocyte chemoattractant protein-1 (MCP-1) by pro-inflammatory cytokines in endothelial cells of the bovine corpus luteum. 34th Annual Meeting of the Society for the Study of Reproduction, Ottawa, ON, CA, 2001
15. Townson DH, Cavicchio V, **Pru JK**, Hendry IR, Davis JS, Rueda BR. Monocyte chemoattractant protein-1 (MCP-1) in the bovine corpus luteum: regulation by cytokines in luteal cell cultures containing endothelial cells. 34th Annual Meeting of the Society for the Study of Reproduction, Ottawa, ON, CA, 2001
14. **Pru JK**, Hendry IR, Davis JS, Rueda BR. Fas-mediated activation of the sphingomyelin pathway in bovine steroidogenic luteal cells. 34th Annual Meeting of the Society for the Study of Reproduction, Ottawa, ON, CA, 2001
13. Carr AL, **Pru JK**, Austin JK, Belden EL, Hansen TR. Epifluorescent localization of the ubiquitin paralog, ISG17, in bovine endometrial cells treated with recombinant bovine interferon-tau using confocal microscopy. 34th Annual Meeting of the Society for the Study of Reproduction, Ottawa, ON, CA, 2001
12. Nakad TI, **Pru JK**, Davis JS, Rueda BR. Fas and ceramide inhibition of the phosphatidylinositol-3-kinase (PI3K) cell survival pathway in human granulosa luteal cells (HGLC). 62nd Annual Meeting of the American Society for Reproductive Medicine, Orlando, FL, 2001
11. Austin KJ, Carr AL, **Pru JK**, Belden EL, Haas AL, Hansen TR. Pregnancy and interferon-tau induce the ubiquitin homolog, ISG17, but have no effects on ubiquitin conjugates or ubiquitin conjugating enzyme in bovine uterine cross-sections. 34th Annual Meeting of the Society for the Study of Reproduction, Ottawa, ON, CA, 2001
10. Hansen TR, Austin KJ, Carr AL, **Pru JK**, Belden EL. An interferon-stimulated gene (ISG) encoding a 15-kDa protein (ISG15) is up-regulated during implantation in the mouse uterus. 34th Annual Meeting of the Society for the Study of Reproduction, Ottawa, ON, CA, 2001
9. Zhang B, Ambrosi DJ, **Pru JK**, Davis JS, Rueda BR, Tsang PCW. Collagenase 3 (MMP-13): Expression in the bovine corpus luteum and its regulation by cytokines in luteal-derived endothelial cells. 28th New England Endocrinology Conference, Storrs, CT, 2001
8. Cavicchio VA, **Pru JK**, Davis JS, Rueda BR, Townson DH. Regulation of monocyte chemoattractant protein-1 (MCP-1) by pro-inflammatory cytokines in endothelial cells of the bovine corpus luteum. 28th New England Endocrinology Conference, Storrs, CT, 2001
7. **Pru JK**, Hendry IR, Davis JS, Rueda BR. Ceramide mediated signaling in steroidogenic luteal cells. The Endocrine Society's 83th Annual Meeting, Denver, CO, 2001
6. Rueda BR, Suter JC, Obholz KL, Davis JS, **Pru JK**, Austin KJ, Hansen TR. Prostaglandin F₂ α (PGF₂ α) induction of interferon response factor (IRF)-1 in the corpus luteum. The Endocrine Society's 82th Annual Meeting, Toronto, ON, CA, 2000
5. Davis JS, Obholz KL, Fong HW, **Pru JK**, Austin KJ, Hansen TR, Chen DB, Rueda BR. Early versus late signaling events; differential expression of c-fos and c-jun mRNA in response to prostaglandin F₂ α in the corpus luteum and primary luteal cell cultures. The Endocrine Society's 82th Annual Meeting, Toronto, ON, CA, 2000
4. **Pru JK**, Austin KJ, Haas AL, Hansen TR. Pregnancy and interferon-tau induce 1-8U mRNA in the bovine uterus. 33rd Annual Meeting of the Society for the Study of Reproduction. Madison, WI, 2000

3. Hansen TR, **Pru JK**, Rueda BR, Austin KJ, Guzeloglu A, Thatcher WW. Interferon-tau suppresses prostaglandin F2 α release through a MAP kinase- and NF κ B-independent mechanism. 33rd Annual Meeting of the Society for the Study of Reproduction. Madison, WI, 2000
2. **Pru JK**, Austin KJ, Hansen TR. Production, purification and carboxy-terminal sequencing of bioactive recombinant bovine interferon-stimulated gene product 17. 32nd Annual Meeting of the Society for the Study of Reproduction, Pullman, WA 1999
1. Austin KJ, Collins AM, Perry DJ, **Pru JK**, Hansen TR. Cloning of the cDNA encoding bovine granulocyte chemotactic protein-2: a uterine chemokine. 32nd Annual Meeting of the Society for the Study of Reproduction, Pullman, WA 1999

6. Other Scholarly Works

a. Dissertation and Thesis

2. **Pru JK**. *Regulation of bovine uterine proteins and prostaglandin F2 alpha release by interferon-tau* (Doctoral dissertation). Laramie, WY, University of Wyoming, 2000.
1. **Pru JK**. *Developmental and comparative analysis of ubiquitin gene expression* (Master thesis). Laramie, WY, University of Wyoming, 1993.

b. Non-print Materials

8. **Pru JK**. Online lecture notes for ANSC5300, Stem Cell Biology and Regenerative Medicine, University of Wyoming
7. **Pru JK**. Online lecture notes for LIFE3050, Genetics, undergraduate level course, University of Wyoming.
6. **Pru JK**. Online lecture notes for AS451/551, Endocrine Physiology, undergraduate and graduate level course. Washington State University, Pullman, WA.
5. **Pru JK**. Online lecture notes for AS581, Stem Cell Biology, Therapeutics and Regenerative Medicine, graduate level course. Washington State University, Pullman, WA.
4. **Pru JK**. Online lecture notes for AS440, Domestic Animal Physiology. Washington State University, Pullman, WA.
3. **Pru JK**. Laboratory Procedures for Studies in Implantation Biology. 2005. Vincent Center for Reproductive Biology, Massachusetts General Hospital.
2. **Pru JK**. Lecture notes for General Biology I and II, Microbiology, Genetics, and Anatomy and Physiology I and II; 1997. Lecture and laboratory notes for all courses taught at Southwestern Illinois College made available online to students.
1. **Pru JK**, Atherton RW. Laboratory in developmental biology; 1993. Laboratory manual for studies in developmental biology.

PART IV: TEACHING

A. Didactic, Laboratory, and Seminar Courses

2026	ANSC3850, Perspectives in Biotechnology (new course offering, approved and in development), undergraduate course, 3 credits, course instructor of record, UW, Laramie, WY
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2023-pres	ANSC 5880, Mammalian Pregnancy, 3 credits, course instructor of record, special topics course, UW, Laramie, WY
2023	LIFE 3050, Genetics, undergraduate course, 3 credits, course instructor of record, UW, Laramie, WY
2021-pres	ANSC 5960, Thesis Research, variable credits, UW, Laramie, WY
2021-pres	ANSC 5980, Dissertation Research, variable credits, UW, Laramie, WY
2022-pres	ANSC5300, Stem Cell Biology and Regenerative Medicine, graduate course, 3 credits, UW, Laramie, WY
2018-21	AS451/551, Endocrine Physiology, undergraduate and graduate course, 3 credits, course instructor of record, WSU, Pullman, WA.
2018-21	AS520, Preparation of Scientific Literature in Animal Sciences, graduate course, 3 credits, team taught course. 6-8 weeks of lectures on grant writing.
2013-21	AS500, Seminar in Animal Sciences, graduate course, 1 credit, course instructor of record, WSU, Pullman, WA.
2013-19	AS581, Stem Cell Biology, Therapeutics and Regenerative Medicine, graduate course, 3 credits, course instructor of record and developer of course, WSU, Pullman, WA.
2009-21	AS440, Physiology of Domestic Animals, senior/graduate course, 3 credits, WSU, course instructor of record, Pullman, WA.
2012-21	AS504, Special Topics in Embryo Implantation, graduate course, 3 credits, course instructor of record, WSU, Pullman, WA.
2013-21	MBIOS499, Special Problems in Undergraduate Research, 3 credits, WSU, Pullman, WA.
2009-21	MBIOS700/800, Master's/Doctoral Research, Dissertation and/or Examination, 1-12 credits, WSU, Pullman, WA
2013-21	MBIOS593, Research Proposal, WSU, Pullman, WA
2010-21	HONORS450, Honors Thesis, 2-3 credits, WSU, Pullman, WA.
2009-21	AS499, Special Problems in Undergraduate Research, 2-9 credits, WSU, Pullman, WA.
2009-21	AS399, Internship Practicum, undergraduate level course, 2-9 credits, WSU, Pullman, WA.

2009-21	AS700/800, Master's/Doctoral Research, Dissertation and/or Examination, 1-12 credits, WSU, Pullman, WA
2009-21	Lectures (1-5 per semester) in AS101 (Introductory Animal Science), AS474 (Beef Cattle Production), AS504 (Special Topics: Muscle Physiology), AS558 (Molecular and Cellular Reproduction), AFS101 (Applied Food Systems), UH198 (University Honors Freshman Experience), AS488/588 (Perspectives in Biotechnology), and MBIOS568 (Advanced Topics in Molecular Biosciences), WSU, Pullman, WA
2003-09	Lecturer, formal and informal lectures on laboratory research and basic science principles in reproductive biology to clinical fellows and residents in the Vincent Obstetrics and Gynecology Service, Massachusetts General Hospital, Harvard Medical School, Boston, MA
1995-97	Lecture and laboratory courses in General Biology I, General Biology II, Human Anatomy and Physiology I, Human Anatomy and Physiology II, Genetics, and Microbiology; 24-27 student contact hours/week; Southwestern Illinois College, Belleville, IL

B. Mentoring

1. Non-tenured Faculty, Postdoctoral/Clinical Fellows, Laboratory Technicians

2024-pres	Chameera Keerthirathne (Laboratory Technician, Vivarium), Supervisor, UW
2024-pres	Dania Sinzu-Prieto (Laboratory Technician), Supervisor, UW
2022- 2024	Dr. Sandeep Paudel, (Postdoctoral Research Fellow), Mentor, UW
2021-pres	Cindy Pru (Laboratory Manager, non-tenured faculty), Mentor, UW
2013-15	David DeAvila (Research Associate, non-tenured faculty), Supervisor, WSU
2013-14	Jeanine DeAvila (Research Associate, non-tenured faculty), Supervisor, WSU
2010-11	Yuichi Niikura, Ph.D. (Postdoctoral Research Fellow), Supervisor, WSU
2009-21	Cindy A. Pru (Associate in Research, non-tenured faculty), Mentor, WSU
2008-09	Daniel Katz, M.D. (Clinical Research Fellow), Mentor, Massachusetts General Hospital.
2006-08	Yoshiaki Kanda, M.D. (Postdoctoral Research Fellow), Mentor, Massachusetts General Hospital.

- 2005-07 Ri Le Ge, M.D., Ph.D. (Postdoctoral Research Fellow), Mentor, Massachusetts General Hospital.
- 2005-08 Carla DiGirolamo, M.D., Ph.D. (Clinical Research Fellow), Mentor, Massachusetts General Hospital.
Recipient: American Society for Reproductive Medicine and Organon, *Contribution of bone marrow-derived stem cells to uterine function and potential use for regenerative therapy following radiation-induced damage*, 2006-2008
- 2004-07 Aki Kashiwagi, M.D. (Postdoctoral Research Fellow), Mentor, Massachusetts General Hospital.
- 2004-09 Ling Zhang, M.D. (Postdoctoral Research Fellow), Mentor, Massachusetts General Hospital.
- 2003-06 Malgorzata E. Skaznik-Wikiel, M.D. (Postdoctoral Research Fellow), Co-mentor, Massachusetts General Hospital
- 2003-04 Tomoko Kaneko-Tarui, M.D., Ph.D. (Postdoctoral Research Fellow), Co-mentor, Massachusetts General Hospital.

2. Graduate Student Advisor

a. Thesis/Dissertation Major Advisor

- 2025-pres Lydia Looby (M.S. student), Department of Animal Science, Mentor and Graduate Committee Chair, UW
Recipient: LIFE Graduate Assistantship, University of Wyoming, University of Wyoming, 2025-2026
- 2025-pres Ashley Zielinski-Schloegel (Ph.D. student), Departments of Animal Science and Molecular Biology, Molecular and Cellular Life Sciences Graduate Program, Mentor and Graduate Committee Chair, UW
Recipient: LIFE Graduate Assistantship, University of Wyoming, University of Wyoming, 2025-2026
- 2024-pres Arpita Saha (Ph.D. student), Department of Animal Science, Mentor and Graduate Committee Chair, UW
- 2022-24 Dania-Belen Sinzu-Prieto (M.S. student), Department of Animal Science, Mentor and Graduate Committee Chair, UW
- 2022-pres Nikhil Srivastava (Ph.D. student), Departments of Animal Science and Molecular Biology, Molecular and Cellular Life Sciences Graduate Program, Mentor and Graduate Committee Chair, UW
Recipient: International Student Scholarship, University of Wyoming, 2025
Recipient: Animal Science Graduate Student Association Travel Award, University of Wyoming, 2025

- Recipient: School of Graduate Education Travel Award, University of Wyoming, 2025
Recipient: URM Award, Society for Reproductive Investigation, Charlotte, NC, 2025
Recipient: Dr. Stephen Ford Animal Science Department Scholarship, University of Wyoming, 2024
Recipient: Wyoming Computational Biology Workshop, 3rd place award, Hackathon Project and Presentation, University of Wyoming, 2024
Recipient: Kusum Lata Excellence Award, 71st Annual Society for Reproductive Investigation, Vancouver, BC 2024
Recipient: Wyoming INBRE Graduate Research Assistantship, P20 GM103432, “Establishing mechanisms of action for PGRMC proteins”, University of Wyoming, 2023-2025
Recipient: LIFE Graduate Assistantship, University of Wyoming, University of Wyoming, 2022-2023
- 2019-21 Nathaniel Herrera (M.S. student), Department of Animal Sciences, Mentor and Graduate Committee Chair, WSU.
Recipient: Ensminger Scholarship, 2020
- 2019-21 Alanna Grossman (M.S. student), Department of animal Sciences, Mentor and Graduate Committee Chair, WSU
Recipient: James C. Nofzinger Fellowship, 2020
Recipient: Iris Kay Llyod Scholarship, 2019
- 2017-19 Richard Griffiths (M.S. student), *A Role for Adenosine Monophosphate-activated Protein Kinase in Steroid Hormone Signaling and Uterine Receptivity*, Department of Animal Sciences, Mentor and Graduate Committee Chair, WSU
Recipient: Sally A & Edward L. Veenhuizen Scholarship, 2018
Recipient: Kassebaum Jogn & Loella K. Scholarship, 2017
- 2016-18 Katriana Jorgensen-Muga (M.S. student), *Functional Role of LIM Domain Binding Protein 1 in Murine Female Reproductive Physiology and Uterine Hemoglobin Biosynthesis*. Department of Animal Sciences, Mentor and Graduate Committee Chair, WSU
Recipient: Louis C. and Mary Lee Chestnut Scholarship, Department of Animal Sciences, WSU, 2017
Recipient: Animal Science Graduate Student Association Travel Grant, WSU, 2017
- 2015-17 Andrea Smith (M.S. student), *Transcription Factors 3 and 12 Regulate Non-erythroid Uterine Hemoglobin Biosynthesis and Decidualization in Mice and Humans*, Department of Animal Sciences, Mentor and Graduate Committee Chair, WSU
Recipient: 2016-17 Graduate and Professional Student Association Teaching Assistant of the Year, WSU
Recipient: 2017 Outstanding Graduate Student Award, Department of Animal Sciences, WSU, 2017
Recipient: Ralph Erb Graduate Fellowship, Department of Animal Sciences, WSU, 2016

- Recipient: Center for Reproductive Biology Travel Award, WSU, 2016
Recipient: Larry Ewing Memorial Trainee Travel Grant, Society for the Study of Reproduction, 2016
- 2014-17 Nicole Kelp (Clark, Ph.D. student), *Progesterone Receptor Membrane Components 1 and 2 in Female Reproductive Physiology and Pathology*. School of Molecular Biosciences, Center for Reproductive Biology, Mentor and Graduate Committee Chair, WSU
Recipient: Dr. Robert A. And Winona Nilan Fellowship, School of Molecular Biosciences, WSU, 2017
Recipient: Harriett B. Rigas Award for Outstanding Women in Graduate Studies at the Doctoral Level, 1st place, WSU, 2017
Recipient: Larry Ewing Memorial Trainee Travel Grant, Society for the Study of Reproduction, 2016
Recipient: Center for Reproductive Biology Travel Award, WSU, 2016
Recipient: Molecular Biosciences Graduate Student Presentation Award, Travel Award, WSU, 2015
Recipient: Larry Ewing Memorial Trainee Travel Grant, Society for the Study of Reproduction, 2015
Recipient: Graduate School Scholar's Travel Award, WSU, 2015
Recipient: Center for Reproductive Biology Travel Award, WSU, 2015
Recipient: School of Molecular Biosciences Thesis Presentation, Travel Award, WSU, 2014
Recipient: Center for Reproductive Biology Trainee Symposium Award, Sponsored by OmniGen Research Laboratories of Prince Agri Products, WSU, 2014
Recipient: National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) Fellowship, 2014-2017
- 2013-15 Brooke Compton (M.S. student), *Regulation of Stromal Cell Decidualization by Helix-Loop-Helix Proteins*. Department of Animal Sciences, Mentor and Graduate Committee Chair, WSU
Recipient: Center for Reproductive Biology Travel Award, WSU, 2015
- 2013-15 Melissa McCallum (M.S. student), *Prkaa1 and Prkaa2 are Functionally Required for Endometrial Regeneration Following Parturition and Fertility in the Female*. Department of Animal Sciences, Mentor and Graduate Committee Chair, WSU
Recipient: Center for Reproductive Biology Travel Award, WSU, 2015
Recipient: Lalor Foundation Merit Award, Society for the Study of Reproduction, 2014.
Recipient: Trainee Research Competition Award (3rd place), Society for the Study of Reproduction, 2014.
- 2013-14 Meghan Munter (M.S. student), *Cellular Mechanisms Regulating Spermatogonial Stem Cell and Mitochondrial Function Following Ethanol Exposure*, Department of Animal Sciences, Co-mentor and Graduate Committee Co-chair, WSU

- 2009-13 Amanda Patterson (Ph.D. student), *Mechanisms of Endometrial Regeneration*, Department of Animal Sciences, Mentor and Graduate Committee Chair, WSU
Recipient: Harriett B. Rigas Award for Outstanding Women in Graduate Studies at the Doctoral Level, 3rd place, WSU, 2013
Recipient: Larry Ewing Memorial Trainee Travel Grant, Society for the Study of Reproduction, 2012
Recipient: Travel Award, Graduate and Professional Student Association, WSU, 2012
Recipient: Outstanding Graduate Student Award for a Ph.D. student, Department of Animal Sciences, WSU, 2012
Recipient: Teaching Award of Merit, North American Colleges and Teachers of Agriculture (NACTA), 2011
Recipient: Iris Kay Lloyd Memorial Scholarship, Animal Science Department, WSU, 2010-2011
Recipient: Fred W. Frasier Memorial Scholarship, Animal Science Department, WSU, 2010-2011
Recipient: Second place, Trainee Research Award Platform Competition, Society for the Study of Reproduction 43rd Annual Meeting, 2010
Recipient: Lalor Foundation Merit Award, Society for the Study of Reproduction 43rd Annual meeting, 2010
Recipient: Graduate Student Teaching Award of Merit, North American Colleges and Teachers of Agriculture, 2010
Recipient: Ralph Erb Graduate Fellowship, Department of Animal Sciences, WSU, 2010
Recipient: Larry Ewing Memorial Trainee Travel Award, Society for the Study of Reproduction 43rd Annual Meeting, 2010
Recipient: First place, Outstanding Pre-doctoral Oral Presentation Award, Presented with travel award, 14th Annual Center for Reproductive Biology Retreat, WSU, 2010
Recipient: Ralph Erb Graduate Fellowship, Department of Animal Sciences, WSU, 2009
- 2011-12 Elizabeth Cloninger (M.S. student), *Homeostatic Glucocorticoid Signaling is Required for Normal Pregnancy*, Department of Animal Sciences, Mentor and Graduate Committee Chair, WSU
Recipient: Larry Ewing Memorial Trainee Travel Grant, Society for the Study of Reproduction, 2012
Recipient: Travel Award, Graduate and Professional Student Association, WSU, 2012
Recipient: Outstanding Graduate Student Award for a Master's student, Department of Animal Sciences, WSU, 2012
Recipient: Second place, Outstanding Pre-doctoral Oral Presentation Award, Presented with travel award, 15th Annual Center for Reproductive Biology Retreat, WSU, 2011

b. Graduate Committee Member

- 2024-pres Martin Akandawen (MS Student), Graduate Committee, Department of Animal Science, UW

2023-pres	Vindya Kumara (PhD Student), Graduate Committee, Department of Molecular Biology, UW
2023-24	Shaonil Binti (PhD Student) Graduate Committee, Department of Molecular Biology, UW
2023-pres	Zachary Bonomo (PhD Student) Graduate Committee, School of Animal Science, Louisiana State University
2023-24	Shay Nelson (MS Student) Graduate Committee, Division of Kinesiology and Health, UW
2022-23	Elizabeth Straight (MS Student) Graduate Committee, Division of Kinesiology and Health, UW
2022-23	Kylie Earhart (MS Student) Graduate Committee, Division of Kinesiology and Health, UW
2022-24	Joseph Flock (MS Student) Graduate Committee, Department of Zoology and Physiology, UW
2021-23	Whitney Brown (MS Student) Graduate Committee, Department of Animal Science, UW
2021-24	Michaela Kuzniar (MS Student) Graduate Committee, Department of Animal Science, UW
2021-23	Brooke Mitrisin (MS Student) Graduate Committee, Department of Animal Science, UW
2019-21	Cristian Perino (MS student) Graduate Committee, Department of Veterinary Clinical Sciences, WSU
2018-23	Emily Harris (McGlade) (PhD student) Graduate Committee, School of Molecular Biosciences, WSU and University of Missouri, Department of Obstetrics, Gynecology, and Women's Health
2018-20	Junseok Son (PhD student) Graduate Committee, Department of Animal Sciences, WSU
2016-21	Liang Zhao (PhD student) Graduate Committee, Department of Animal Sciences, WSU
2016-21	Qiyu Tian (PhD student) Graduate Committee, Department of Animal Sciences, WSU
2015-17	Michela Ciccarelli (MS student) Graduate Committee, Department of Veterinary Clinical Sciences, WSU

2014-16	Alexis Campbell (MS student) Graduate Committee, Department of Veterinary Clinical Sciences, WSU
2013-15	Brenda Jesernig (MS student) Graduate Committee, Department of Animal Sciences, WSU
2013-17	Aileen Helsel (PhD student), Graduate Committee, School of Molecular Biosciences, WSU
2013-15	Frieda Chan (Ph.D. student), Graduate Committee, School of Molecular Biosciences, WSU
2013-15	Andrew Kelleher (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2013-16	Victor Bii (PhD student) Graduate Committee, Department of Pharmacological Sciences, WSU
2013-17	Aaron Simmons (PhD student) Graduate Committee, Department of Biological Sciences, University of Idaho
2013-15	Zulema Garcia (MS student) Graduate Committee, School of Molecular Biosciences, WSU
2012-15	Kelsey Brooks (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2012-15	Greg Burns (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2012-14	Ryan Anderson (MS student) Graduate Committee, School of Molecular Biosciences, WSU
2012-13	Carl Rogers (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2012-15	Qiyuan Yan (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2012-15	Xing Fu (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2011-13	Shannon Shields (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2011-12	Megan Minten (Ph.D. student), Graduate Committee, Department of Animal Sciences, WSU
2011-13	Kristy Yenick (MS student), Graduate Committee, Department of Animal Sciences, WSU

2011-13	Piotr Dorniak (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2011-13	Justyna Filant (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2010-11	ReAnna Roby (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2010-12	Johnathan Broady (PhD student), Graduate Committee, Department of Animal Sciences, WSU
2009-11	Trista Robison, (MS student), Graduate Committee, Department of Animal and Veterinary Sciences, University of Idaho

3. Undergraduate Research and Academic Advising

a. Undergraduate Select/Honors Student Research Advisor

2024-pres	Abigail Flesvig, Animal Science (undergraduate student) Mentor, UW <u>Recipient:</u> Wyoming INBRE Undergraduate Research Internship, 2025 <u>Recipient:</u> Wyoming INBRE Transition Scholarship, 2024-26
2022-pres	Elizabeth Lungren, (undergraduate) Wyoming Research Scholars Program, Department of Animal Science, Mentor, UW <u>Recipient:</u> Wyoming Research Scholars Award, University of Wyoming, 2024-2025 <u>Recipient:</u> Wyoming Research Scholars Award, University of Wyoming, 2023-2024 <u>Recipient:</u> Wyoming INBRE Undergraduate Research Internship, 2023 <u>Recipient:</u> Wyoming Research Scholars Award, University of Wyoming, 2022-2023
2018-20	Caroline Sirr, (undergraduate Honors student), Thesis: <i>A Functional Role for Members of the Progesterone Receptor Membrane Component Family in Maintenance of the Male Germline</i> , Department of Animal Sciences, Mentor, WSU <u>Recipient:</u> Honors College Pass with Distinction Award, WSU, 2020 <u>Recipient:</u> WSU Animal Sciences and Veterinary School Combined Program Award, entry into WSU's 7 year accelerated BS/DVM program, 2019
2018-20	Agata Skarbek, (undergraduate Honors student), Thesis: <i>Progesterone Receptor Membrane Component 2 is Dispensable for Spermatogenesis</i> , Department of Animal Sciences, Mentor, WSU <u>Recipient:</u> Honors College Pass with Excellence Award, WSU, 2020 <u>Recipient:</u> WSU Animal Sciences and Veterinary School Combined Program Award, entry into WSU's 7 year accelerated BS/DVM program, 2019

- 2017-18 Mary LaLone, (undergraduate Students Targeted toward Advanced Research Studies student), Rotation, School of Molecular Biosciences STARs student, Mentor, WSU
- 2016-18 Sierra Gallaway, (undergraduate Honors student), Thesis: *Over-expression of PGRMC1 Enhances Triple-negative Breast Cancer Growth*, Department of Animal Sciences, Mentor, WSU
Recipient: Honors College Pass with Distinction Award, WSU, 2018
- 2014-16 Hannah French, (undergraduate Honors student), Thesis: *Role of PGRMC1/2 in Uterine Lipid Metabolism via the INSIG/SCAP/SREBP pathway*, Department of Animal Sciences, Mentor, WSU, 2016
Recipient: Honors College Pass with Excellence Award, WSU, 2016
Recipient: Novice Researcher Award, Showcase for Undergraduate Research and Creativity, WSU, 2016
Recipient: CAHNRS Internship Program Award, WSU, 2015
Recipient: Auvil Scholars Fellowship, WSU, 2014
Recipient: WSU Animal Sciences and Veterinary School Combined Program Award, entry into WSU's 7 year accelerated BS/DVM program, 2014
- 2014-16 Seila Day, (undergraduate Honors student), Thesis: *Does Conditional Deletion of Pgrmc1/2 Reduce the Severity of PTEN Deficiency-Induced Endometrial Hyperplasia and Cancer?* Department of Animal Sciences, Mentor, WSU, 2016
- 2013-15 Natalie Nelson, (undergraduate Honors student), Thesis: *Evaluation of Dihexa as an Ovoprotectant during Chemotherapy Treatment*. Department of Animal Sciences, Mentor, WSU
Recipient: Honors College Pass with Distinction Award, WSU, 2015
Recipient: Auvil Scholars Fellowship, WSU, 2014
Recipient: WSU Animal Sciences and Veterinary School Combined Program Award, entry into WSU's 7 year accelerated BS/DVM program, 2013
Recipient: Auvil Scholars Fellowship, WSU, 2013
- 2013-14 Courtney Roller (undergraduate Honors student), Department of Animal Sciences, Mentor, WSU
- 2013-15 Michelle Chan, (undergraduate Honors student), Thesis: *Functional Role of Basic Helix-Loop-Helix Proteins in Female Reproduction*. Department of Animal Sciences, Mentor, WSU
Recipient: CAHNRS Internship Program Award, WSU, 2014
Recipient: Boeing Cyber Grant Research Scholarship, WSU, 2014
Recipient: Auvil Scholars Fellowship, WSU, 2013
Recipient: WSU Animal Sciences and Veterinary School Combined Program Award, entry into WSU's 7 year accelerated BS/DVM program, 2013

- 2012-14 Nicole Clark, (undergraduate Students Targeted toward Advanced Research Studies student), School of Molecular Biosciences STARs student, Mentor, WSU
Recipient: Boeing Crimson Award, Showcase for Undergraduate Research and Creativity, WSU, 2014
Representative: College of Veterinary Medicine, Commencement Ceremony, WSU, 2014
Recipient: Summer Undergraduate Research Program Fellowship, St. Jude Children's Research Hospital, Memphis, TN, 2013
Recipient: Gray Award, Showcase for Undergraduate Research and Creativity, WSU, 2013
Recipient: Auvil Scholars Fellowship, WSU, 2012
Recipient: Norma C. Fuentes and Gary M. Kirk Award for Excellence in Undergraduate Research, WSU, 2012
Recipient: Barry M. Goldwater Scholarship, WSU, 2012
- 2011-14 Michele Reinelt, (undergraduate Honors student), Thesis: *The Functional Roles of E2A and HEB in Female Reproduction*, Department of Animal Sciences, Mentor, WSU
Recipient: Honors College Pass with Distinction Award, WSU, 2014
Recipient: Norma C. Fuentes and Gary M. Kirk Award for Excellence in Undergraduate Research, WSU, 2014
Recipient: CAHNRS Internship Program Award, WSU, 2013
Recipient: Early Career Award, Showcase for Undergraduate Research and Creativity, WSU, 2013.
Ambassador: College of Human and Natural Resource Sciences, WSU
Recipient: Auvil Scholars Fellowship, WSU, 2012
Recipient: WSU Animal Sciences and Veterinary School Combined Program Award, entry into WSU's 7 year accelerated BS/DVM program, 2012
- 2011 Ray Lee, (undergraduate Honors student), Department of Animal Sciences, Mentor, WSU
- 2010-13 Melissa McCallum (undergraduate Honors student), Thesis: *Actions of PGRMC1 in Female Reproductive Physiology*, Department of Animal Sciences, Mentor, WSU, 2013
Recipient: Honors College Pass with Excellence Award, WSU, 2013
Recipient: 1st place presentation, CAHNRS Undergraduate Research and Creative Projects Poster Fair, WSU, 2011
Recipient: Undergraduate Research and Creative Project Award, WSU, 2010
- 2010-12 Hannah Balash (undergraduate Honors student), Thesis: *Assessing the Functional Role of Nr3c1 in Ovarian Biology*, Department of Biology, Mentor, WSU
Recipient: Honors College Pass with Excellence Award, WSU, 2012
Recipient: Auvil Scholars Fellowship, WSU, 2011

b. Undergraduate Student Research Advisor

2022-23	Tristan Zimmerman, Animal Science (undergraduate student, Mentor, UW
2022-24	Aden Scheer, Animal Science (undergraduate student) Mentor, UW
2021-24	Anna Maitri Foley, Molecular Biology (undergraduate student) Mentor, UW
2021-24	Todd Paisley, Molecular Biology (undergraduate student), Mentor, UW
2021-22	Dania-Belen Sinzu-Prieto, Molecular Biology (undergraduate student), Mentor, UW
2021	Megan Matthews, Molecular Biology (undergraduate student), Mentor, UW
2021-22	Kelly Gragson, Animal Science (undergraduate student), Mentor, UW
2021-22	Katelyn Bond, Animal Science (undergraduate student), Mentor, UW
2021-23	Jordan Johnson, Animal and Veterinary Science (undergraduate student), Mentor, UW
2020-21	Talia Sanazzaro, Bioengineering (undergraduate student), Mentor, WSU
2020-21	Emily Kindelberger, School of Molecular Biosciences (undergraduate student), Mentor, WSU
2015-16	Kayleen Oliver, (undergraduate student), Mentor, WSU
2014-15	Andrea Smith, Animal Sciences (undergraduate student), Mentor, WSU
2011-13	Brooke Compton, (undergraduate student), Mentor, WSU <u>Recipient:</u> 1 st place presentation, CAHNRS Undergraduate Research and Creative Projects Poster Fair, WSU, 2012 <u>Recipient:</u> CAHNRS Undergraduate Research and Creative Project Award, WSU, 2011
2011-12	Erin Boland, (undergraduate student), Mentor, WSU
2009-10	Jessica Crannell (undergraduate student), Mentor, WSU

c. Honors College Thesis Evaluator

2016	McKenzie Corpron, "Can behavior, ovarian structures, and reproductive maturity characterize fertility in cattle? Dynamics of follicle size and estrus intensity and their effect on fertility in beef cows and heifers following 7-day COSynch + CIDR estrus synchronization protocol," Honors College, WSU
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- 2014 Corrine Harris, "Calcification in white muscle disease in calves and lambs: the *Seprn1*^{-/-} murine model," Honors College, WSU
- 2012 Megan Munter, "Cellular mechanisms regulating ovarian follicular growth, oocyte quality and reproductive success in ewes," Honors College, WSU
- 2012 Jeff Davis "A role for advanced germ cells in the control of the spermatogenic wave," Honors College, WSU
- 2011 Kelly Hollister, "The impact of replacing alfalfa hay with liquid supplement in the diets of growing beef heifers," Honors College, WSU
- 2011 Robert Thonney, "Potential role for VEGF isoforms in regulating the onset and maintenance of spermatogenesis in bulls," Honors College, WSU
- 2010 Casey Lawson, "Functional divergence of the myostatin gene family: a phylogenetic analysis," Honors College, WSU

d. Undergraduate Academic Advisor

- 2009-18 Undergraduate academic advisor, Department of Animal Sciences, WSU (n=9-18 students/semester).