

BRENDA MAE ALEXANDER

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EDUCATION:

Ph. D. Reproductive Biology - University of Wyoming, May 1999
Graduate Minor - Statistics, May 1999
M. S. Animal Science - University of Wyoming, August 1988
B. S. Animal Science - University of Wyoming, May 1986
High School Diploma - Pagosa Springs High School, Colorado 1982

PROFESSIONAL EXPERIENCE:

Professor, University of Wyoming, promoted 2018 (30% Research, 65% Teaching and Advising, 5% Service)
Associate Professor, University of Wyoming, promoted 2012
Assistant Professor, University of Wyoming, appointed August 2006.
Affiliate Faculty Appointment – University of Washington, Department of Neurobiology and Biophysics (formally, Department of Biological Structure) appointed 2010 - .
Research Scientist, September 2004 – August 2006 (Dr. William J. Murdoch). Project Leader for the IDeA Networks for Biomedical Research Excellence (INBRE) grant.
Assistant Research Scientist, September 2002 – September 2004 (Drs. Robert Stobart and Gary Moss). Project leader for an ARS Scrapie grant.
Research Associate, September 2000 - August 2002 (Drs. Doug Hixon and Bret Hess, University of Wyoming).
Doctoral Candidate, September 1992 - May 2000 (Dr. J. D. Rose, University of Wyoming)
Teaching Assistant HM6532 -The Nervous System (1998); Animal Science Comparative Anatomy-Physiology course 1996 (Dr. M. L. Riley) and Nervous System laboratory section Spring Semester 1997 (Dr. R. McCormick).
Research Associate, December 1990 - August 1992 (Dr. R. G. Sasser, University of Idaho)
Research Associate II, October 1988 - November 1990 (Dr. G. E. Moss, University of Wyoming)
Research Associate I, August 1988 - October 1988 (Dr. W. J. Murdoch, University of Wyoming)
Graduate Assistant, August 1986 - August 1988 (Dr. R. H. Stobart, University of Wyoming)
Teaching Assistant, ANSC Comparative Anatomy-Physiology 1987 (Dr. W. Steinhour, University of Wyoming)

PROFESSIONAL MEMBERSHIP

Society for Behavioral Neuroendocrinology
American Society of Animal Science
Society for the Study of Reproduction
W112 Western Regional Research Project: Reproductive Performance in Domestic Ruminants

HONORS AND AWARDS:

WSASAS Distinguished Teaching Award, 2023
Reflections Magazine Highest ranked article, UW College of Agriculture, 2023
Distinguished Speaker 2020, Ronald D. Randel appreciation club and Southern Section ASAS
Nominated 2017 Promoting Intellectual Engagement in the First Year (PIE) Award
Nominated for 2007, 2008, 2017, 2019 Lawrence Meeboer Outstanding Teacher Award
Nominated for 2007, 2008 College of Agriculture Outstanding Advisor Award
Reflections Magazine Highest ranked article, UW College of Agriculture, 2007
Moderator for National IDeA Symposium of Biomedical Research Excellence, 2006
Outstanding Graduate Minor Award - Dept. Statistics, 1999
Gamma Sigma Delta, Agriculture Honorary - Initiated 1988
Alpha Zeta (Agriculture Honorary) - Initiated 1984

DISSERTATION:

Alexander, B. M., 1999. Sexual behavior, endocrinology, neural development, and c-FOS activation of specific brain structures in low-performing, high-performing, and male-oriented domestic rams. Ph. D. Dissertation, University of Wyoming.

THESIS:

Alexander, B. M., 1988. The effect of abomasal D,L-methionine infusions or feeding a zein protected D,L-methionine product on wool fiber production. M. S. Thesis, University of Wyoming.

RESEARCH STATEMENT (30% Appointment): My research interest is the intersection of behavior and physiology and health with an emphasis in the neuroendocrine control of reproductive and appetitive behaviors.

REFEREED MANUSCRIPTS:

1. Anne Chenchar, Vitoria Mattos Pereira, Anisha Apte, Bailey D. Lyttle, Alyssa E. Vaughn, Tanner Lehmann, James R. Bardill, Carlos Zgheib, Kenneth W. Liechty, Kelly C. S. Roballo, Zhaojie Zhang, **Brenda M. Alexander**, and Sreejayan Nair. 2025. Targeting Cathepsin K to Accelerate Diabetic Wound Healing. ACS Pharmacology & Translational Science 2025 8 (7), 2258-2269. DOI: 10.1021/acsptsci.5c00295 <https://pubs.acs.org/doi/full/10.1021/acsptsci.5c00295>
2. Rodolfo Ungerfeld and **Brenda M. Alexander**. 2024. Determinants of ram sexual behavior and its impact on sheep breeding. Animal Reproduction Science. 270: 107599. <https://doi.org/10.1016/j.anireprosci.2024.107599>
3. Sutton, C. M., R. L. Ziegler, K. J. Austin, **B. M. Alexander**. 2023. Expression of TRPM8 in sheep reproductive and brain tissues. Physiology and Behavior 207: 114304. <https://doi.org/10.1016/j.physbeh.2023.114304>
4. Rule, D.C., E. A. Melson, **B. M. Alexander**,* and T. E. Brown. 2022. Dietary Fatty Acid Composition Impacts the Fatty Acid Profiles of Different Regions of the Bovine Brain. Animals. 12, 2696. <https://doi.org/10.3390/ani12192696>. *corresponding author
5. Baskaran, P.; Mohandass, A.; Gustafson, N.; Bennis, J., Louis, S.; **Alexander, B.**; Nemenov, M.; Thyagarajan, B.; Premkumar, L.S.^{2,6,*}. 2022. Evaluation of a polymer coated nanoparticle cream formulation of resiniferatoxin for the treatment of painful diabetic peripheral neuropathy. Pain. 2022 Aug. DOI: [10.1097/j.pain.0000000000002765](https://doi.org/10.1097/j.pain.0000000000002765) PMID: 36001079.
6. Rowell, J.E., J.E. Blake, K. Roth, C. Sutton, C. Sachse, A.S. Cupp, T.W. Geary, A.L. Zetzeski, **B.M. Alexander**, R.L. Ziegler, and M.P. Shipka. 2022. Medroxyprogesterone acetate in reindeer bulls: breeding success, testes histology, semen quality, and cfos activity in the brain. J Anim Sci. 100(6). <https://doi.org/10.1093/jas/skac106>
7. Kyle, E. M., H. B. Miller, J. Schueler, M. Clinton, **B. M. Alexander**, A. M. Hart, D. E. Larson-Meyer. 2022. Bone Mineral Density and Serum Lipids in Lactating Postpartum Women: Effect of Aerobic Fitness and Physical Activity. Nutrients. 14 (3): 703. <https://doi.org/10.3390/nu14030703>
8. Hlucny, Katelyn, **Brenda M. Alexander**, Ken Gerow, and D. Enette Larson-Meyer. 2021. Reflection of Dietary Iodine in the 24 h Urinary Iodine Concentration, Serum Iodine and Thyroglobulin as Biomarkers of Iodine Status: A Pilot Study. Nutrients as part of the Special Issue Biomarkers of Nutritional Exposure and Nutritional Status. Available online: <https://www.mdpi.com/2072-6643/13/8/2520/pdf>

9. **Alexander, B. M.** 2021. Reproductive performance of rams that failed breeding soundness evaluation: The need to reconsider the evaluation. *Research in Veterinary Science*. 140:190. <https://doi.org/10.1016/j.rvsc.2021.09.005>
10. Chalcraft, J., L. Cardinal, P. Wechsler, B. Hollis, K. Gerow, **B. Alexander**, J. F. Keith, D. Enette Larson-Meyer. 2020. Vitamin D Synthesis Following a Single Bout of Sun Exposure in Older and Younger Men and Women. *Nutrients* 12(8), 2237; <https://doi.org/10.3390/nu12082237>
11. Larson-Meyer D. E., J. Schueler, E. Kyle; A.M. Hart; K. Austin, **B. Alexander**. 2020. Appetite-regulating hormones in human milk: a plausible biological factor for obesity risk reduction? *Journal of Human Lactation*. Available online. <https://doi.org/10.1177/0890334420954160>
12. Mohandass, Adithya, Vivek Krishnan, Ekaterina D. Gribkova, Swapna Asuthkar, Padmamalini Baskaran, Yelena Nersesyan, Zahir Hussain, Leslie M. Wise, Robert E. George, Nadarra Stokes, **Brenda M. Alexander**, Alejandro M. Cohen, Evgeny V. Pavlov, Daniel A. Llano, Michael X. Zhu, Baskaran Thyagarajan, and Eleonora Zakharian. 2020. TRPM8 as the rapid testosterone signaling receptor: Implications in the regulation of dimorphic sexual and social behaviors. *FASEB Journal*. 2020;00:1–20. <https://doi.org/10.1096/fj.202000794R>
13. Sutton, C. M. **B. M. Alexander**. 2019. Ewes express greater proceptive behavior toward high-sexually active rams. *Applied Animal Behavior*. 216:15-18. Available online. <https://www.sciencedirect.com/science/article/pii/S0168159118303976?via%3Dihub>
14. Kristina S Boss, Courtney M Sutton, Kathleen J Austin, Kristi M Cammack, Rebecca R Cockrum, **Brenda M Alexander**, The effect of aflatoxin B1 treatment on expression of transient receptor potential melastatin 8 in mouse ovary and testes, *Translational Animal Science*, Volume 3, Issue Supplement_1, December 2019, Pages 1683–1685, <https://doi.org/10.1093/tas/txz057>
15. Fensterseifer, S. R., K. J. Austin, S. P. Ford and **B. M. Alexander**. 2018. Effects of maternal obesity on maternal and fetal plasma concentrations of adiponectin and expression of adiponectin and its receptors in cotyledonary and adipose tissues at mid- and late-gestation in sheep. *Animal Reproduction Science*. 197:213-239. <https://doi.org/10.1016/j.anireprosci.2018.08.033>
16. **Alexander, B. M.** 2018. Male reproductive behavior: Sensory signaling in the brain of low-performing domestic rams. Invited Review. *Journal of Animal Science* 96:3003-3008. <https://doi.org/10.1093/jas/sky117>
17. Kramer, A.C., A.J. Mirto, K.J. Austin, C.E. Roselli, **B.M. Alexander**. 2017. Tyrosine Hydroxylase in the Ventral Tegmental Area of Rams with High or Low Libido—a role for Dopamine. *Animal Reproduction Science* 187:152-158. <https://doi.org/10.1016/j.anireprosci.2017.10.019>
18. **Alexander, B. M.**, B. C. Ingold, J. L. Young, S. R. Fensterseifer, P. Wechler, K. J. Austin, D. E. Larson-Meyer,. 2017. Sunlight exposure increases vitamin D sufficiency in growing pigs fed a diet formulated to exceed requirements. *Domestic Animal Endocrinology*. 59:37-43. <https://www.sciencedirect.com/science/article/pii/S0739724016300996>
19. Larson-Meyer, D. E., B. C. Ingold, S. R. Fensterseifer, K. J. Austin, B. W. Hollis, P. Wechler, **B. M. Alexander**. 2017. Sun exposure in growing pigs increases the vitamin D nutritional quality of pork. *Plos1*. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0187877>
20. Mirto, A.J., K.J. Austin, V.A. Uthlaut, C.E. Roselli, **B.M. Alexander**, 2017. Exposed to Urine from Estrous or Ovariectomized Ewes. *Applied Animal Behavior*. 186:22-28. Available online. doi:10.1016/j.applanim.2015.09.001. <https://doi.org/10.1016/j.applanim.2015.09.001>

21. Barcal, J. N., J. T. Thomas, B. W. Hollis, K. J. Austin, **B. M. Alexander**, D. E. Larson-Meyer. 2016. Vitamin D and Weight Cycling: Impact on Injury, Illness, and Inflammation in Collegiate Wrestlers. *Nutrients* 2016, 8(12), 775; doi: 10.3390/nu8120775. Available online: <http://www.mdpi.com/2072-6643/8/12/775>
22. Howe, SM, T. M. Hand, D. E. Larson-Meyer, K. J. Austin, **B. M. Alexander**, and M. M. Manore. 2016. No Effect of Exercise Intensity on Appetite in Highly-Trained Endurance Women. *Nutrients* 8(4), 223; doi:10.3390/nu8040223. Available online <http://www.mdpi.com/2072-6643/8/4/223>
23. Burton, D. J., P. A. Ludden, R. H. Stobart, **B.M. Alexander**. 2015. Fifty years of the Wyoming Ram Test: How sheep have changed. *Journal of Animal Science*. 93:1327-1331. <https://www.animalsciencepublications.org/publications/jas/abstracts/93/3/1327?search-result=1>
24. Schueler, J.L., **B.M. Alexander**, A.M. Hart, K.J. Austin, and D.E. Larson-Meyer. 2013. Presence and Dynamics of Leptin, GLP-1, and PYY in Human Breast Milk at Early Postpartum. *Obesity*. 21:1451-1458 *Epub* <http://www.ncbi.nlm.nih.gov/pubmed/23408760>.
25. Breton, A.B., K.J. Austin, M.G. Leedy, and **B.M. Alexander**. 2012. Effects of Progesterone and RU486 on development and expression of adult male sexual behavior and gene expression in the amygdala and preoptic area of the hypothalamus. *Reproduction, Fertility and Development*. 24:916-922. <http://www.publish.csiro.au/RD/RD12006>
26. Larson-Meyer, D.E., S. Palm, K.J. Austin, A.M. Hart, A. Bansal, **B.M. Alexander**. 2012. Influence of Running and Walking on Hormonal Regulators of Appetite in Women. *Journal of Obesity*. 2012:730409 (15 pages). <http://www.hindawi.com/journals/jobes/2012/730409/>.
27. **Alexander, B.M.**, N. Cockett, D. J. Burton, T. L. Hadfield, G. E. Moss. 2012. Reproductive Performance of Rams in Three Wyoming Producer Flocks: Evidence of poor sexual behavior in the field. *Small Ruminant Research*. 107:117-120. <https://doi.org/10.1016/j.smallrumres.2012.04.003>
28. Austin, K.J., R.C. Cockrum, A.M. Jons, **B.M. Alexander**, K.M. Cammack. 2012. Renin mRNA is upregulated in testes and testicular cells in response to treatment with Aflatoxin B₁. *Theriogenology*. 77:331-337. <http://www.sciencedirect.com/science/article/pii/S0093691X11003967>
29. **Alexander, B.M.**, D.C. Skinner, C.E. Roselli. 2011. Wired on steroids: Sexual differentiation of the brain and its role in the expression of sexual partner preferences. *Frontiers in Endocrinology* 2:42. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3356085/>
30. Uthlaut, V.A., G.E. Moss, R. H. Stobart, B. A. Larson, **B. M. Alexander**. 2011. Sexual Performance and Production Traits in white faced yearling rams. *Small Ruminant Research*. 100:63-66. <http://www.sciencedirect.com/science/article/pii/S0921448811002392>
31. Breton, A.B., R.R. Cockrum, K.J. Austin, K.M. Cammack, S.P. Ford, B.W. Hess, G.E. Moss, P.W. Nathanielsz, **B.M. Alexander**. 2011. Hypothalamic Expression of Genes for Appetite Regulators and Estrogen α , Estrogen β , and Leptin Receptors in Obese Dams and their Fetuses. *Animal*. 5: 1944-1948. <https://www.cambridge.org/core/journals/animal/article/hypothalamic-expression-of-genes-for-appetite-regulators-and-estrogen-estrogen-and-leptin-receptors-in-obese-dams-and-their-fetuses/06C85CA1CAE99BD9E229C7290789206D>
32. Larson-Meyer, D.E., K.S. Willis, L.M. Willis, K.J. Austin, A M. Hart, A.B. Breton, **B.M. Alexander**. 2010. Effect of honey versus sucrose on appetite, appetite regulating hormones and postmeal thermogenesis. *J. American College of Nutrition* 29:482-493. <http://www.tandfonline.com/doi/abs/10.1080/07315724.2010.10719885>

33. **Alexander B.M.**, P. Singh, K.J. Austin, R.R. Cockrum, K.M. Cammack, B.W. Hess, G.E. Moss, P.W. Nathanielsz, S.P. Ford. 2009. Effect of maternal fatness on fetal steroids and Semi-quantitative Real-Time PCR expression of their receptors. *Anim. Reprod. Sci.* 116:58-64.
<http://www.sciencedirect.com/science/article/pii/S0378432008005034>
34. Scholljegerdes E.J., Hess B.W., Grant M.H.J., Lake S.L., **Alexander B. M.**, Weston T.R., Hixon D.L., VanKirk E.A., and Moss G.E. 2009. Effects of feeding high-linoleate safflower seeds on postpartum reproduction in beef cows. *J Anim Sci.* 87:2985-95.
<https://www.animalsciencepublications.org/publications/jas/abstracts/87/9/2985?search-result=1>
35. **Alexander B.M.**, Stobart R.S., Moss G.E. 2008. Scrapie resistance and production traits in Rambouillet rams: Ram performance test 2002-2006. *Research in Veterinary Science* 85: 345-348.
<http://www.sciencedirect.com/science/article/pii/S0034528807002706>
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37. **Alexander B.M.**, Van Kirk E.A., Naughton L. M., Murdoch W.J. 2007. Ovarian morphometrics in *TP53*-deficient mice. *The Anatomical Record* 290:59-64. <http://onlinelibrary.wiley.com/doi/10.1002/ar.20409/full>
38. **Alexander B.M.**, Kiyama Z., McFarland M., Van Kirk E. A., Hallford D.M., Hawkins D.E., Kane K.K., and Moss, G.E. 2007. Influence of Short-Term Fasting during the Luteal Phase of the Estrous Cycle on Ovarian Follicular Development during the Ensuing Proestrus of Ewes. *Animal Reprod Sci* 97:356-363.
<http://www.sciencedirect.com/science/article/pii/S0378432006000339>
39. Lake, S.L., T.R. Weston, E.J. Scholljegerdes, C.M. Murietta, **B.M. Alexander**, D.C. Rule, G.E. Moss, and B.W. Hess. 2007. Effects of postpartum dietary fat and body condition score at parturition on plasma, adipose tissue, and milk fatty acid composition of lactating beef cows. *J. Anim. Sci.* 85: 717-730.
<https://www.animalsciencepublications.org/publications/jas/abstracts/85/3/0850717?search-result=1>
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42. Grant, M.H.J., **Alexander B.M.**, Hess, B.W., Bottger, J.D., Hixon D.L., Van Kirk E.A., Nett T.M., and Moss G.E. 2005. Dietary supplementation with safflower seeds differing in fatty acid composition differentially influences serum concentrations of prostaglandin F metabolite in postpartum beef cows. *Reprod. Nutr. Dev.* 45:721-727. <https://rnd.edpsciences.org/articles/rnd/abs/2005/06/r5605/r5605.html>
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46. **Alexander, B. M.**, B. W. Hess, D. L. Hixon, B. L. Garrett, D. C. Rule, M. McFarland, J. D. Bottger, D. D. Simms and G. E. Moss. 2002. Influence of prepartum fat supplementation on subsequent beef cow reproduction and calf performance. *Prof. Animal Scientist.* 18:351-357.
<https://search.proquest.com/docview/230394631?pq-origsite=summon>
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- Singh, P., K.J. Austin, R.R. Cockrum, B.W. Hess, G.E. Moss, S.P. Ford, **B.M. Alexander**. Maternal nutrition influences expression of fetal steroids and their receptors. University of Wyoming, Department of Animal Science Annual Report 2007:109.
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Alexander, B.M., G.E. Moss, W.J. Murdoch, and E.A. Van Kirk. Does feed deprivation prior to breeding influence oocyte quality? Dept. of Animal Science Annual Report 2006:100.

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Grant, M.H., B.W. Hess, J.D. Bottger, D.L. Hixon, E.A. Van Kirk, **B.M. Alexander**, T.M. Nett and G.E. Moss. Influence of supplementation with safflower seeds on prostaglandin F metabolite in serum of postpartum beef cows. Dept. Animal Sci. Annual Report 2002:56.

Alexander, B. M., J. D. Rose, J. N. Stellflug, J. A. Fitzgerald and G. E. Moss. Morphology and activity of brain regions in domestic rams following exposure to rams or ewes. Dept. Animal Sci. Annual Report 2001:11.

Hixon, D. L., R. D. Landeis, **B. M. Alexander**, D. W. Moore, D. D. Carr and G. E. Moss. A MGA-prostaglandin-GnRH estrus synchronization protocol suitable for timed artificial insemination. Dept. Animal Sci. Annual Report 2001:94.

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Alexander, B. M., Stellflug, J. N., Rose, J. D., Fitzgerald, J. A., Moss, G. E. Behavior and endocrine changes associated with exposure of heterosexual, low-performing and male-oriented domestic rams to rams and ewes in estrus. Dept. of Animal Science Semi-Annual Report 1999:82.

Smith, D. E., D. L. Hixon, D. W. Moore, E. A. Van Kirk, **B. M. Alexander**, G. E. Moss, R. V. Anthony. Effects of dexamethasone (DEX) and porcine relaxin (pRLX) on induced parturition of beef heifers. University of Wyoming Dept. of Animal Science Annual Report 1993:147.

Alexander, B. M., J. P. Kile, D. M. Hallford, T. M. Nett and G. E. Moss. Undernourishment differentially affects release of pituitary hormones. University of Wyoming Dept. of Animal Science Annual Report 119-122; and Annual College of Agriculture Progress Report 1990:137.

Alexander, B. M., E. A. Van Kirk, W. J. Murdoch and G. E. Moss. 1990. Affects of season on brain histamine and secretion of LH in response to diphenhydramine in ovariectomized and ovariectomized-estradiol treated ewes. University of Wyoming Dept. of Animal Science Annual Report 113-117; and Annual College of Agriculture Progress Report: 130-136.

POPULAR PRESS:

Pigs to the rescue: How a familiar barnyard animal has helped advance wound treatment for diabetics. By Brooke Ortel. Reflections, College of Agriculture, Life Sciences and Natural Resources 2023 Research Report.

Non-traditional Livestock: UW researches progesterone management in reindeer bulls. 2020 Wyoming Livestock Roundup. By Hannah Bugas. Vol 32, No. 2. Pg.1.

Enette Larson-Meyer, Brenda M. Alexander, Ann Marie Hart, 2013. Letter to the Editor. New England Journal of Medicine. 368:2235. <http://www.nejm.org/doi/full/10.1056/NEJMc1303009>

University of Wyoming Study Reveals Robust Sheep Industry. University of Wyoming Extension News <http://www.wyomingextension.org/news/2012/05/23/university-of-wyoming-study-reveals-robust-wyoming-sheep-industry/> and Wyoming Public Radio audio report.

Burton, Devin J., Paul A. Ludden, Robert H. Stobart, **Brenda M. Alexander**. Fifty years of the Wyoming Ram Test: How have we changed? The Shepherd. 57 (2):6, April 2012.

Brenda M. Alexander and Gary E. Moss. 2012. BREEDING PERFORMANCE OF RAMS: 25% of rams sire nearly 40% of the lambs. UW College of Agriculture and Natural Resources. Reflections. p 20-21.

Enette Larson-Meyer and Brenda Alexander. 2012. The magic of human milk. UW College of Agriculture and Natural Resources. Reflections (2nd Place Story). p 11-13.

Twin's gender impacts ewes' production. Wyoming Livestock Roundup. 22:16, September 2010.

Devin Burton, Gary Moss and **Brenda Alexander**. Is a sister better than a brother for a ewe. University of Wyoming, College of Agriculture. Reflections. 2010: 47.

UW researches ways to determine high-sexually active rams. Barnyards and Backyards. UW Cooperative Extension Service. April 2009, pp 3.

Ashley Breton and **Brenda Alexander**. Maternal Hormone Environment Influences Development of Male Sexual Behavior. University of Wyoming, College of Agriculture. Reflections. 2009:33.

UW Study Distinguishes Ram Performance, Cost of Keeping Non-Performing Rams. Wyoming Livestock Roundup. Vol 20 (13): 4, 2008.

Gail Leedy and **Brenda Alexander**. 2007. Developing an Animal Model of Postpartum Depression (What can this Ewe tell Tom Cruise about PPD?). University of Wyoming, College of Agriculture. Reflections: June 2007, pp 1-3.

Alexander, B.M. Who's who? Retinal identification can tell. University of Wyoming, College of Agriculture. Reflections 2004:69.

Alexander, Brenda. 1987. How photoperiod affects wool growth. The Shepherd. 36(6): 12-13.

OTHER MEDIA:

Gay or Straight: Is it a choice? Thierry Berrod Documentry. 2014. Featuring research of: **Brenda Alexander**, Charles Roselli, Jacques Baltazar, Rene Zayan, Ivanka Savic, Philippe Brenot, et al. Premiered at the 7th Life Sciences Film Festival. International Festival of Documentary Films on Life Sciences, Prague, October 16–20, 2017 <http://lsff.cz/filmy/gay-or-straight-is-it-a-choice/?lang=en>

INVITED PRESENTATIONS:

Ram Reproduction – SSASAS, Extension Webinar, November 2021

Reproductive Behavior - the basis of reproductive success. Invited ASAS Webinar. March 25, 2020.

Reproductive Behavior—the basis of reproductive success. Invited oral presentation. Randel Symposium. Southern Section American Society of Animal Science. Chattanooga, TN. January 2020.

Male reproductive behavior. Texas A & M. Department of Veterinary Science. College Station, TX, September 2017.

Male reproductive behavior: pathways and messengers. ASAS-SSR Triennial Reproductive Symposium. Washington D.C. July 13, 2017.

Dietary iodine and the Thyroid. Wyoming Academy of Nutrition and Dietetics. Laramie, WY February 2013.

Hormones and Exercise. SCAN. Denver, CO Spring 2012.

Male Sexual Behavior: An Absence of Expression. Program in Reproductive Sciences. University of Colorado Medical Center, Colorado. November 22, 2011.

Raising Sheep. UW Extension, Park County. January 27, 2011.

Effect of Sex of Co-Twin and Breed on Ewe Flock Productivity. National America Sheep Industry Meetings, Nashville, TN. January 21, 2010.

Ram Reproductive Behavior: Most Important Trait. University of Northern Colorado. March 20, 2009.

Development and Expression of Sexual Behavior in the Domestic Ram. University of Wyoming, Physiology Club. October 8, 2009.

Ram Behavior. November 15, 2008. Mountain Plains Sheep and Goat Conference.

Women in Animal Science. October 25, 2008. Sigma Alpha (Agriculture Sorority).

Introduction to Ram Behavior Research. NRI Project (Webinar). September 11, 2008. Profitable and Sustainable Agricultural Systems Initiative Team for CES.

Development and Expression of Sexual Behavior in the Domestic Ram: A role for Progesterone. October 13, 2008. Physiology Seminar Series, Colorado State University.

Ram Reproductive Behavior: The Most Important Trait. September 12, 2007. Animal Science Department, University of Nebraska Lincoln.

Research, Extension, Education—Pulling it Together. September 14, 2007. Animal Biological Systems Seminar, University of Nebraska Lincoln.

Control of Ram Behavior. April 27, 2007. 30 Years of Neuroscience. Festschrift-Roast to Honor James D. Rose. University of Wyoming, Laramie.

RESEARCH FUNDING:

WWAMI medical education. Approximately \$145,000 has been earned for my teaching efforts in WWAMI since 2006. These dollars have been used to fund my research efforts including funding graduate students, purchasing supplies, and travel to scientific meetings.

Proposals under review:

\$250,000. Browning of white adipose tissue with TRPV1 agonist. NIH SBIR, phase II. *Scored. 53 Percentile.*
In revision PI: Baskaran, P. Co-PI: Thyagarajan, B., Sturek, M. S., Alexander, B.M.

Federally Funded Competitively received dollars:

\$120,944. Funding 09/01/25/ - 7/30/2026. Topical Treatment for Burn Pain by Blocking Cutaneous Pain

Receptors. PI: Kumaril Bhargava. B. Alexander (collaborator, Animal studies). R43GM150295

\$241,148 Period of funding: 9/15/20–9/14/21. Title: Development of a New Treatment for Diabetic Wounds. PI: Nair S, Co-PI: Alexander, BM; Co-PI: Nutriwoy LLC
NIH-NIDDK (R411R41DK125213-01A1)

\$500,000 Period of funding: 02/01/19-01/31/20. Development and evaluation of a polymer coated proprietary cream formulation of resiniferatoxin nanoparticles for the treatment of pain associated with Diabetic Peripheral Neuropathy. PI: Premkumar Consortium PI: Alexander, BM. 1R43DK117674-01A1, NIH NIDDK

\$99,814 Period of funding: 11/01/18-10/31/20. Title: Targeting Cathepsin K to promote healing of diabetic wound. PI: Nair S, Collaborator: Alexander, BM. NIH-NIDDK DIACOMP (18AU3901);

Neuroscience Core Center- P30 RR32128. Francis W. Flynn (PI). This is a new Center grant with the goal to support the research infrastructure- particular Microscopy and to bolster neuroscience research programs and foster collaborative projects. B. M. Alexander is included in the grant as a user of the facilities and with collaborative efforts with Donal Skinner.

\$283,231, 2009-2011. A ram model of neuroendocrine function. 3RO1RR014270-10S1 NIH/DHHS; C.E. Roselli (PI), B.M. Alexander, D. C. Skinner.

\$450,000, 2009-2012. Role of ghrelin and PYY in postpartum body weight regulation and presence in human milk. P20RR016474-09 NIH/NCRR; Enette Larson-Meyer (PI); Brenda M. Alexander, Ann Marie Hart.

\$10,000, 2008. Effect of dry beans on appetite regulation in humans. Dry Bean Health Research Program. Northarvest Bean Growers Association; D. Enette Larson-Meyer, PI. Co-PI: Brenda M. Alexander.

\$379,468, 2007-2012. Genetic identification of poor sexually performing rams to enhance profitability of small and medium sized flocks. USDA-NRI 2007-55618-18176.13; B.M. Alexander, PI; Co-PIs G.E. Moss, K.M. Cammack, R.H. Stobart, J.P. Hewlett.

\$60,909, 2007. Thermogenesis, Ghrelin and Neuropeptide YY Responses: Mechanisms explaining honey's beneficial influence on body weight regulation; USDA-AMS National Honey Board; D.E. Larson-Meyer, PI; B.M. Alexander CO-PI.

\$24,388, 2007 Purchase of an Odyssey Infrared Imaging System for Reproductive Biology Research. USDA-NRI Equipment Grant (Min Du, PI; Co-PI, B.M. Alexander, S.P. Ford, D.C. Rule, K.M. Cammack);

Internally Funded – Competitive received dollars:

\$5,000. Global Perspectives. Travel to Turkiye to meet with Zekeriya Kiyma, PhD and Associate Professor Department of Animal Science, Eskisehir Osmangazi University.

\$16,200. Equipment Grant. Gas anesthesia machine for LREC Surgery Unit. Proposing Faculty: Jared Bushman, Brenda Alexander, Sreejayan Nair, Jeremy Block, Baskaran Thyagarajan, and John Oakey. Wyoming INBRE.

\$25,000 University of Wyoming. Agriculture Experiment Station. Equipment Grant. Cryostat.

\$ 26,591, 2014. Enette Larson-Meyer, Brenda M. Alexander, Co-PIs; Joi Thomas, Co-PI. Timing and Pattern of Cutaneous Vitamin D Synthesis in a High Altitude, High Latitude Mountainous Region in swine UW-AES

\$25,000, 2008. Influence of running and walking on hormonal regulators of appetite. UW INBRE Pilot.; E. Larson-Meyer, PI; B.M. Alexander, PhD, A.M. Hart, PhD.

\$6,965, 2007. Influence of Maternal Nutrition on the Development of Fetal Appetite Regulation. University of

Wyoming Faculty Grant in Aid; B.M. Alexander and K. M. Cammack.

\$7,064, 2006. Development of a Model for Postpartum Depression using Domestic Sheep. University of Wyoming Faculty Grant in Aid.; Gail Leedy and B.M. Alexander.

Not funded since 2012:

NIH NIDDK R01 \$300,000/annual
PI: Enette Larson-Meyer; Co-PI: Ann Marie Hart; Co-Investigators: Brenda M. Alexander, Brian Cherrington, Brenda Davy, Cheryl Lovelady. Protective Effect of Breastfeeding on Obesity Risk: Influence of Appetite Regulation.

NIFA \$257,303/3 yr
PI: Brenda M. Alexander; Co-Investigators: John P. Hewlett (UW), James Berardinelli (MSU), Kreg Leymaster (USDA-MARC). Effect of a male co-twin on the ewe reproductive capacity and flock profitability.

NIH NIDDK R01 \$225,000/annual
PI: Enette Larson-Meyer; Co-Investigators: Brenda M. Alexander, Ann Marie Hart, Christine McKibbin. Human Appetite Regulation: Influence of Exercise Mode & Intensity on Hormonal Regulators.

UW – AES \$52,096/ 2 yr
2010. B. M. Alexander (P.I.), G. E. Moss, J. Berardinelli, K. Leymaster. Effect of the Male Co-twin on the Ewe Reproductive Capacity.

NIFA \$391,872/ 4 yr
2016. Exposure to Sunlight and the Immune Protective effects of Naturally Synthesized Vitamin D in Swine. USDA-NIFA-AFRI-005843. Brenda M. Alexander (PI), Enette Larson-Meyer and Jason P. Gigley (co-PI).

2015. Exposure to Sunlight and the Immune Protective effects of Synthesized Vitamin D in Swine. University of Wyoming, Agriculture Experiment Station. \$58,261 (B.M. Alexander, PI, E. Larson-Meyer, CO-PI). Not funded.

2014. Does sun exposure in pigs enhance the vitamin D content and health benefits of fresh pork products? National Pork Board. \$87,500. Letter of Intent. (D. Enette Larson-Meyer, PhD, RD, PI and Brenda Alexander, PhD., co-PI).

2015. Exposure to Sunlight and the Immune Protective effects of Synthesized Vitamin D in Swine. National Pork Board. \$82,062 (B.M. Alexander, PI, with D. E. Larson-Meyer, J.P. Gigley, co-PI).

2015. Exposure to Sunlight and the Immune Protective effects of Synthesized Vitamin D in Swine. University of Wyoming, Faculty Grant in Aid. \$7,160 (B.M. Alexander, J. P. Gigley, Molecular Biology, CO-PI).

2016. Does sun exposure in pigs enhance the vitamin D content and health benefits of pork products? National Pork Board. Enette Larson-Meyer (PI) and Brenda M. Alexander (co-PI). \$54,231.

2018. Exposure to Sunlight (or UVB) and the Immune Protective effects of Synthesized Vitamin D in Swine. B. M. Alexander (PI), D. E. Larson-Meyer and J. L. Gigley (Co-PIs). National Pork Board. \$84,976

SERVICE ACTIVITIES

EDITORIAL BOARDS:

Animal Reproduction Science
Animals

AD HOC REVIEWER FOR:

Animal
Animals
Animal Feed Science and Technology
Animal Genetics
Animal Reproduction Science
Applied Animal Behavior Science
Biology of Reproduction
Domestic Animal Endocrinology
Hormones and Behavior
International Journal of Molecular Science
International Journal of Sheep and Wool Science
Journal of Animal Science
Journal of Applied Animal Research
Journal of Veterinary Research
Livestock Science
Reproduction
Reproduction in Domestic Animals
Research in Veterinary Science
Small Ruminant Research
Scientifica
Translational Animal Science
USDA-NRI Grants

NATIONAL

Symposium Proposal Accepted for 2024 ASAS. Heat Stress and Animal Production
Symposium Proposal Accepted for 2023 ASAS. Gene editing—a tool for increased animal welfare and human health
Symposium Proposal Accepted for 2022 ASAS. Animal Production Practices and Greenhouse Gasses
Committee Chair, ASAS Animal Behavior and Welfare 2024
Abstract reviewer for the 10th International Ruminant Reproduction Symposium, Brazil 2018
Review Panel. USDA-NIFA. Reproduction. 2013, 2015
Review Panel. NIH-SBIR 2023
Review Panel. NIH Research Projects to Enhance Applicability of Mammalian Models for Translational Research 2024
External Reviewer of UNL Agriculture Experiment Station Grants, 2010
Moderator, Women's Health and Reproductive Biology, National IDeA Symposium of Biomedical Research Excellence, Washington DC 2006
Review Committee, National IDeA Symposium of Biomedical Research Excellence 2006, 2008
Review Committee, Western Section American Society of Animal Science 2008
Heritage Committee, Society for the Study of Reproduction. 2019-2021
Membership Committee, Society for the Study of Reproduction. 2021-2024
Program Committee Animal Behavior and Well-Being, American Society of Animal Science 2021--2024

REGIONAL

Organization Committee Rocky Mountain Reproduction Sciences Symposium 2011 - present
WSASAS – Advising and Coordinating Committee, 2018 - 2021
WSASAS – Graduate Student Competition Committee, 2014 Chair, 2015
WSASAS – Outstanding Graduate Student Award Selection Committee 2015 – 2017
W2112 – Regional Project rewrite chair 2015 – 2016
W3112 – Regional Project rewrite chair 2020-2021

UNIVERSITY

University Tenure and Promotion Committee, 2024 - 2026
Faculty Advisor for Wyoming Alpine Ski Team 2016 (established)

Faculty Advisor for Sigma Alpha, Agriculture Sorority 2016 - 2022
Review Panel UW AES 2014
External Reviewer for UW AES Grant Proposal 2011
Women in Science Panel, 2010
Faculty Advisor for UW Equestrian Team 2007-present
University of Wyoming Reproductive Biology Program, co-director 2012 - present
University of Wyoming Neuroscience Program
State Science Fair Judge 2012 – 2023
Women in Science, Workshop 2012- 2023
Search Committee – WWAMI Director 2024

COLLEGE

AES Early Career Research Achievement Award, Selection committee 2019
Radiation Safety Committee member 2015-present, Chair 2025 -
Agriculture Experiment Station, Sheep Unit Management Team, Fall 2011 - 2015
University of Wyoming Library Board Fall 2008-2015, Chair 2010 – 2011 (academic year) 2022-
Selection Committee for UW College of Agriculture Ambassadors 2007
Reviewer for UW College of Agriculture Reflections Magazine 2007
Search Committee – SBC Faculty, Dept. of Zoology and Physiology 2024

DEPARTMENT

Selection Committee, Chair – Assistant Professor (Reproduction), 2019
Selection Committee – Department Head, 2020
Selection Committee – Assistant Lecturer, 2018
Selection Committee – Reproduction Physiologist, 2016
Selection Committee – Sheep Extension Specialist, 2016
Selection Committee – Department Head 2014
Selection Committee – Equine Instructor 2014
Equine Option Committee 2010-2011
Selection Committee – Departmental Accountant, 2011
Selection Committee -- Equine Instructor 2008
Editor University of Wyoming Animal Science Department Annual Report 2006-- 2016
Block and Bridle Academic Quadrathlon, Judge Oral Presentations and Equine Lab Practicum. April 2008, 2009

INSTRUCTION

Departmental Courses Taught:

Anatomy and Physiology (ANSC 3010; 4 Cr; approx. 70 students.) Spring 2017 – 2024
Domestic Animal Systems Physiology (ANSC 3010; 4 Cr.; approx. 70 students) Spring 2025 -
Equine Nutrition and Physiology (ANSC 3150; 3 Cr; approx. 60 students) Fall 2005--
Introduction to Animal Science (ANSC 1010; 4 Cr) Team Taught Fall 2005, 2006, 2007, 2008, 2013
2 lectures, Introduction to Equine Science
Mammalian Endocrinology (ANSC 4260 and 5260; 3 Cr) Spring 2007—2016; Fall 2017-
Reproductive Biology Seminar (ANSC 5870; 1 Cr) Fall 2016 -
Advanced Seminar (ANSC 5890; 1Cr) Fall 2007, Spring 2011, Spring 2013

University Courses Taught:

WWAMI Homeostasis and Energetics (HM 6650; 7 Cr)—Course director, 2015- present
This course is independent of Animal Science teaching requirements.
WWAMI Nervous System (HM 6532; 5 Cr) –Team Taught Spring 2007-- 2014
This course is independent of Animal Science teaching requirements
Guest Lecturer HLSC 4020 – SPARX 2 Remembered Wellness: Another name for the placebo effect. Colleen Hubble, Professor. Gave one lecture on the neurobiology of the placebo effect (Oct. 3, 2007)

Guest Lecturer ANSC 5061 – Cell signaling. Min Du, Instructor. One lecture on Introduction to Endocrinology. (Fall 2008). Wei Guo, Instructor. Dopamine signaling in the brain (Fall 2015-2018)

ADVISING:

Graduate Student Advisees:

Priyanka Singh (MS) – begin Spring Semester 2007 Completed Summer 2009 (current HS teacher)
 Ashley Breton (MS) – begin Spring Semester 2008 Completed Fall 2009 (current HS teacher)
 Anna Fuller (MS) – begin Fall Semester 2008 Completed Summer 2010 (current research scientist, UNL)
 Valerie Uthlaut (MS)—begin Fall Semester 2008 Completed Spring 2010 (current HS teacher)
 Amanda Mirto (MS)- begin Fall Semester 2011 Completed Summer 2013 (current HS career counselor)
 Kayla Otto (MS)-begin Fall Semester 2011 – Did not complete
 Samanta R. Fensterseifer (MS)—begin Spring 2014 – Completed Spring 2016 (current Industry Scientist)
 Bennett Ingold (MS-co-advisor) - begin Summer 2014—Did not complete
 Jennifer Wyatt (PhD) –begin Fall Semester 2014 – Did not complete
 Avery C. Kramer (MS) – begin Fall Semester 2014 – Completed Summer 2016 (current Post-doc, CU)
 Jonathan Boothe (MS – co-advisor)-begin Fall 2014—Did not complete
 Courtney Sutton (PhD) – begin Fall Semester 2016—Completed Summer 2019 (current post doc BMC)
 Adam Suluburic (MS) – begin Fall Semester 2016—Completed Summer 2018 (current Industry Scientist)
 Kristina Boss (MS) – begin Fall Semester 2018—Completed Summer 2020
 Katelyn Hlucny (MS-co-advisor) –begin Fall Semester 2019—Completed Spring 2021
 Mary Freeman (MS) – Plan B—begin Fall Semester 2019—Completed Summer 2023
 Katherine Agster (MS) – begin Fall Semester 2020, completed Summer 2022
 Jacob Merkley (MS)- Plan B, begin Fall Semester 2021, Completed Spring 2022
 Courtney Blake (MS) begin Spring Semester 2024
 Martin Akandawen (MS) begin Summer 2024
 Janelle Grant (MS)- Plan B, begin Fall Semester 2025

Graduate Student Committees:

Academic Year	Student	Degree Sought
2006	Marjorie MacGregor (Steve Horn, Advisor)	MS – Finished 2008
2007	Kentz Williams (Enette Larson-Meyer, Advisor)	MS—Finished 2008
2008	Catilyn Murphey (Bill Murdoch, Advisor)	PhD—Finished 2011
2009	Clay Buchanan (Jeff Beck, Advisor)	PhD—Finished 2014
2009	Sonnie M. Palm (Enette Larson-Meyer, Advisor)	MS—Finished 2011
2009	Ashley Breton (Matt McEchron, Advisor)	PhD—Finished 2012
2010	Jesse Schuler (Enette Larson-Meyer, Advisor)	MS—Finished 2011
2010	Lane Gardiner (Ben Rashford, Advisor)	MS—Finished 2011
2011	Paige Chamberlain (Donal Skinner, Advisor)	MS—Finished 2012
2012	Brian Edwards (Donal Skinner, Advisor)	PhD—Finished 2014
2013	Erin Kyle (Enette Larson-Meyer, Advisor)	MS—Finished 2014
2014	Jacque Barcal (Enette Larson-Meyer, Advisor)	MS—Finished 2016

2015	Linda Cardinal (Enette Larson-Meyer, Advisor)	MS--Finished 2017
2016	Vivek Krishnan (Baskaran Thyagarajan, Advisor)	PhD—Finished 2018
2017	Demetre Gostas (Enette Larson-Meyer, Advisor)	MS—Finished 2019
2017	Corey Douglas (Enette Larson-Meyer, Advisor)	MS—Finished 2019
2017	Chaoqun Zhu (Wei Guo, Advisor)	PhD—Finished 2019
2018	Jessica Berg (Amy Navratil, Advisor)	MS—Finished 2019
2018	Maimaiti Rexiati (Wei Gau, Advisor)	PhD—Finished 2020
2018	Amy Schick (Alan Buss, Advisor)	MS, Plan B, Education—Finished 2020
2019	Adithya Mohandass (Baskaran Thyagarajan, Advisor)	PhD—Did not Complete
2019	Georgia Kirkpatrick (Travis Brown, Advisor)	PhD—Finished 2023
2019	Anne Chenchar (Sreejayan Nair, Advisor)	MS—Finished 2023
2020	Austin Coulter (Jonathan Prather, Advisor)	MS—Finished 2022
2020	JuliAnne Allgood (Jared Bushman, Advisor)	PhD – Finished 2025
2023	Firoozeh Tarkesh, VT (Enette Larson-Meyer, Advisor)	PhD
2024	Olivia Ohm (Jeremy Block, Advisor)	MS—Finished 2025

Undergraduate Research Interns and Projects:

Nik Pierson. Ram Behavior. Presented UW Undergraduate Research Day, April 2025.

Bridger Sparks. GnIH and its influence on ovarian epithelial carcinoma cells. INBRE funded (2021-2022). Unregulated blood glucose during the peri-pubertal period using a swine model. NASA funded (2022-2023).

Jena Thompson. Influence of unregulated blood glucose during the peri-pubertal period using a swine model. McNair Scholar – Spring 2020

Robert Ziegler. TRPM8 channels in the amygdala of sexually active and inactive rams.

Jessica Wonderly. Nonsurgical Artificial Insemination in the Ewe and Comparison of Effects of Cryopreservation Diluents on the Ability of Ram Sperm to Reduce Resazurin Dye. *Presented* UW Undergraduate Research Day and Rocky Mountain Reproduction Sciences Symposium, April 2017.

Avery C. Kramer. Dopamine synthesis in the ventral tegmental area. *Presented* Rocky Mountain Reproduction Sciences Symposium. Ft. Collins, CO May 2014

Alli Bass. GRP synthesis in the ovine pituitary: Influence of Reproductive Hormones. ANSC 4500 – Spring 2012.

Clayton Malson. A Need for Change: Improving UW Cattle Handling Facilities. 2 Cr. Presented at Undergraduate Research Day. Spring 2011

Lindsey Edinger. Effects of Neonatal Progesterone or its Antagonist on Testes Morphology in the Rat. 2 Cr. Presented at Undergraduate Research Day. Spring 2010.

Carlie Koonce. Canine Influenza (H3N8) in the Rocky Mountain Region. 2 Cr. Presented at Undergraduate Research Day. Spring 2009. Funded by Paul Stock Undergraduate Research (\$1,364)

Stephanie Pruitt. Effect of Progesterone on Expression of Ram Sexual Behavior. 2 Cr. Fall 2008.

Carlie Koonce. Blood Lactate and Heart Rate Recovery in Exercised Horses. 2 Cr. Undergraduate Research Day 2008.

John T. Raines Presented at 2007 Undergraduate Research Day, University of Wyoming

Megan May, 2 Cr ANSC 4500 – Spring 2011

Kari Randle, 1 Cr ANSC 4500 – Fall 2007

Savannah Feehan, 2 Cr ANSC 4500 – Fall 2007

Ashley Nelson Presented at 2006 Undergraduate Research Day, University of Wyoming

Vihn Nguyen Laboratory Intern from Northwest Community College Summer 2006

Other Instruction Activities:

Women in Science 2007, 2008: From DNA to Antibodies: The Science behind Animal Science

Women in Science 2011, 2012, 2013, 2014, 2015: So you want to be a doctor? Anatomy of Brain and Body

Women in Science 2016-2024, ongoing annually: So you want to be a veterinarian? Gross Anatomy

State Science Fair Workshop 2015

Students in Science 2025 - , Ongoing annually: Anatomy Treasure Hunt. Gross Anatomy

PROFESSIONAL ENRICHMENT:

2025 Society for the Study of Reproduction. Washington DC

2024 National and Western Section ASAS, Calgary, Alberta Canada

2024 Western Regional Project- W4112, Madison WI

2023 National and Western Section ASAS, Albuquerque, NM

2023 Society for the Study of Reproduction, Ottawa, Canada

2023 Western Regional Project- W4112, Fairbanks, AK

2022 Western Section ASAS, Park City, UT

2022 American Society of Animal Science (ASAS), Oklahoma City, OK

2022 Western Regional Project- W4112, Lincoln, NE

2021 Western Section for Animal Science, Ft. Collins, CO

2021 Society for the Study of Reproduction, St. Louis, MO

2021 Western Regional Project- W3112, virtual Meeting

2020 Western Section for Animal Science, Virtual Meeting

2020 Western Regional Project- W3112, virtual Meeting

2019 Western Section for Animal Science, Boise, ID

2019 Western Regional Project- W3112, Caldwell, ID

2018 Western Regional Project- W3112, Overton, TX

2018 Western Section for Animal Science, Bend, OR

2017 Western Regional Project- W3112, Fargo, ND

2017 Western Section American Society for Animal Science, Fargo, ND

2017 Society for the Study of Reproduction, Washington DC

2016 Western Regional Project, Las Vegas, NV

2016 ASAS JAM, Salt Lake City, UT

2015 Rocky Mountain Reproductive Sciences Symposium, Ft. Collins, CO

2015 Society for Behavioral Neuroendocrinology, Pacific Grove, CA

2015 Western Section American Society for Animal Science, Ruidoso, NM

2015 Western Regional Meeting W2112, Las Cruces, NM

2014 Western Regional Meeting W2112, Fairbanks, AK

2014 Rocky Mountain Reproductive Sciences Symposium, Ft. Collins, CO

2014 Western Section National American Society of Animal Science, San Angelo, TX

2013 Western Regional Meeting W2112

2013 Society for Behavioral Neuroendocrinology, Atlanta, GA

2013 Society for the Study of Reproduction, Montreal, Quebec

2012 Western Regional Meeting W2112, Reno, NV

2012 Society for Behavioral Neuroendocrinology, Madison, WI

2012 Rocky Mountain Reproductive Sciences Symposium, Longmont, CO

2012 National American Society of Animal Science, Phoenix, AZ

2011 Western Regional Meeting W2112, Hawaii
2011 Society for the Study of Reproduction, Portland, OR
2011 Society for Behavioral Neuroendocrinology, Queretaro, Mexico
2011 Rocky Mountain Reproductive Sciences Symposium, Ft. Collins, CO
2011 9th Annual Meeting of the Front Range Neuroscience Group, Ft. Collins, CO
2010 National and Western Section American Society for Animal Science, Denver, CO
2010 Society for Behavioral Neuroendocrinology, Toronto, Canada
2010 Rocky Mountain Reproductive Sciences Symposium, Ft. Collins, CO
2010 8th Annual Meeting of the Front Range Neuroscience Group, Ft. Collins, CO
2009 Western Section American Society for Animal Science, Ft. Collins, CO
2009 Society for Behavioral Neuroendocrinology, East Lansing, MI
2009 Society for the Study of Reproduction, Pittsburg, PA
2009 Rocky Mountain Reproductive Sciences Symposium, Ft. Collins, CO
2009 7th Annual Meeting of the Front Range Neuroscience Group, Ft. Collins, CO
2008 Western Section American Society for Animal Science, Laramie, WY
2008 Society for Behavioral Neuroendocrinology, University of Groningen, Netherlands
2008 Rocky Mountain Reproductive Sciences Symposium, Ft. Collins, CO
2007 Society for the Study of Reproduction Meetings, San Antonio, TX
2007 Western Section American Society for Animal Science Meetings, Moscow, ID
2007 Grants 101: Professional Grant Writing Workshop, Denver, CO
2006 Society for the Study of Reproduction Meetings, Omaha, NE
2006 National IDeA Symposium of Biomedical Research Excellence, Washington DC
2006 Grant Writers Workshop, University of Wyoming
2006 USDA-CREES Grantsmanship Workshop, Grapevine, TX

TEACHING ENRICHMENT

2020 ECTL, University of Wyoming – Virtual Teaching
2012 Teaching and Curriculum in the Animal Sciences, Madison, WI
2008 Advances in GCPR Research, Science Webinar Series
2007 Western Regional Teaching Symposium, Tucson, AZ
2006 Ellbogen Center for Teaching and Learning, University of Wyoming, New Faculty and Lecturer Workshops.
2006 Ellbogen Center for Teaching and Learning, University of Wyoming, Spring Colloquium, Expanding the Boundaries of Student Learning: *What the best teachers do*.
2005 Western Regional Teaching Symposium. Pingree Park, Colorado.

TRAINING

COVID19- Return to Campus, 2020
CITI Training, Refresher, 2023 20
Biomedical Responsible Conduct of Research, CITI Training
Investigators, Staff and Students, CITI Training
Aseptic Surgery, CITI Training
Working with Swine, Citi Training
Formaldehyde and Respirator Training
Human Subjects Training
Citi Animal Care Training
Sexual Harassment and Other Forms of Discrimination 2006
Sexual Harassment – Advocacy Training 2017
WyoCloud Financial Management Training 2017

COMMUNITY ACTIVITIES

Volunteer, Winter Park Competition Center
Volunteer, Wyoming Public Media Fund Drives
Board Member, Cowboy Kids Laramie Wrestling Club 2009-2011
Albany County Relay for Life – Brief Talk on UW Research in Ovarian Cancer 2006

Substitute Driver of Home Delivered Meals 2002-2007
Initiated and Directed Jelm Mountain Run 1996 - 2005
Director Pilot Hill 25K, 1997-2005
Wyoming Senior Olympics Road Race Coordinator, 2000