

CURRICULUM VITAE
DAVID M. GRIEGER, Ph.D.

A. EDUCATION:

<u>Institution</u>	<u>Degree</u>	<u>Year</u>	<u>Field of Study</u>
Washington State University	Ph.D.	1989	Reproductive Endocrinology Advisor: Dr. Jerry J. Reeves
Purdue University	M.S.	1984	Reproductive Physiology Advisor: Dr. M. A. Diekman
Purdue University	B.S.	1981	Animal Science

B. PROFESSIONAL EXPERIENCE:

2015 - present	Professor of Animal Sciences & Industry Kansas State University
1998-2015	Associate Professor of Animal Sciences & Industry Kansas State University
1992-1998	Assistant Professor of Animal Sciences & Industry Kansas State University
1989-1992	Research Fellow with Dr. Hélène Meunier at the Hospital for Sick Children, Toronto, Ontario, CANADA
1985-1989:	Graduate Research Assistant, Department of Animal Sciences, Washington State University
1981-1984:	Graduate Research Assistant, Department of Animal Science, Purdue University

C. TEACHING:

I teach reproductive physiology courses that include topics on estrous synchronization, ultrasonography, pregnancy diagnosis and calving. In addition, I teach two courses on applications of biotechnology to animal agriculture as well as a graduate course focusing on gene regulation of reproductively important genes.

- Introduction to Biotechnology Laboratory (ASI 210)
- Farm Animal Reproduction (ASI 400)
- Farm Animal Reproduction-Distance (ASI 400D)
- Bovine Reproductive Technology (ASI 512)
- Applied Animal Biotechnology (ASI 600)
- Animal Science & Industry Problems-A.I. (ASI 662)
- Molecular Reproductive Endocrinology (ASI 831)

D. RESEARCH:

My applied research interests focus on estrous synchronization and timed artificial insemination protocols for beef heifers. My basic research focuses on genes important to reproductive function in livestock.

- Trainees supervised - 10 M.S. students, 3 Ph.D. students

E. Recent PUBLICATION LIST**PEER-REVIEWED PUBLICATIONS:**

M. L. Butler, * J. M. Bormann, R. L. Weaver, **D. M. Grieger**, and M. M. Rolf. *Selection for beef bull fertility: a review*. Transl. Anim. Sci. **2020**.4:423–441. doi: 10.1093/tas/txz174

Stevenson, J.S., S. L. Hill, **D. M. Grieger**, K. C. Olson, J. R. Jaeger, J. Ahola, G. E. Seidel, and R. K. Kasimanickam. *Two split-time artificial insemination programs in suckled beef cows*. J. Anim. Sci. 95:5105-5111, **2017**

Ebarb, S. M., K. J. Phelps, J. S. Drouillard, K. R. Maddock-Carlin, M. A. Vaughn, D. D. Burnett, J. A. Noel, C. L. Van Bibber- Krueger, C. B. Paulk, **D. M. Grieger** and J. M. Gonzalez. *Effect of anabolic implants and ractopamine-HCl on Longissimus lumborum muscle fiber morphometrics, collagen solubility, and cooked meat tenderness*. J. Anim. Sci. 95(3): 1219-1231, **2017**. doi:10.2527/jas.2016.1263

C. D. Sinclair, S. K. Webel, T. L. Douthit, L. W. Murray, A. L. Jager, **D. M. Grieger** and J. M. Kouba. *Evaluation of an intravaginal triptorelin acetate gel for inducing ovulation in mares*. J. Anim. Sci. Vol 95, Issue 8, pg. 3631-3638, **2017**.

Ebarb, S.M., J. S. Drouillard, K. R. Maddock-Carlin, K. J. Phelps, M. A. Vaughn, D. D. Burnett, C. L. Van Bibber-Krueger, C. B. Paulk, **D. M. Grieger** and J. M. Gonzalez. *Effect of growth-promoting technologies on Longissimus lumborum muscle fiber morphometrics, collagen solubility, and cooked meat tenderness*. J. Anim. Sci. Feb; 94(2):869-881, **2016**. doi:10.2527/jas.2015-9888.

Douthit, T.L., S.L. Schaake, M.R. Hay McCammant, **D.M. Grieger** and J.J. Bormann. *Student blogs and journals as assessment tools for faculty-led study abroad trips*. NACTA Journal 59.3: 213-218, Sep **2015**.

White, K. L., J. M. Bormann, K. C. Olson, J. R. Jaeger, S. Johnson, B. Downey, **D.M. Grieger**, J. W. Waggoner, D. W. Moser and R. L. Weaver. *Phenotypic relationships between docility and reproduction in Angus heifers*. J. Anim. Sci. Feb;94(2):483-489, **2016**. doi:10.2527/jas.2015-9327.

Sullivan, R. R., Faris, B. R., Eborn, D., **Grieger, D. M.**, Cino-Ozuna, A. G., & Rozell, T. G. *Follicular expression of follicle stimulating hormone receptor variants in the ewe*. Reproductive Biology and Endocrinology, 11(1) **2013**.

Eborn, D.R and **D.M. Grieger**. *Timed insemination of beef heifers using the 7-11 Synch protocol*. J Anim. Sci. February, Vol. 91(2): 666-672, **2013**.

Mundell, L.R., J. R. Jaeger, J. W. Waggoner, J. S. Stevenson, **D. M. Grieger**, L. A. Pacheco, J. W. Bolte, N. A. Aubel, G. J. Eckerle, M. J. Macek, S. M. Ensley, L. J.

Havenga, and K. C. Olson. *Effects of prepartum and postpartum bolus injections of trace minerals on performance of beef cows and calves grazing native range.* Professional Animal Scientist, 28:82-88, **2012**.

Spiker, C.R., J. Kouba, and **D.M. Grieger**. *Suppression of Cyclicity and Estrus Behavior in Mares Through Immunization Against a Recombinant GnRH Antigen.* Journal of Equine Veterinary Science. Vol. 29, Issue 5, Pages 328-330, **2009**.

Epp, M.P., D.A. Blasi, B.J. Johnson, J.P. Kayser, **D.M. Grieger**, J.S. Stevenson and J.E. Minton. 2008. *Serum Steroid concentrations at different phases of production and brain monamine oxidase type A messenger ribonucleic acid in buller steers.* Professional Animal Scientist, Dec 01, **2008**.

ABSTRACTS

Ashley R. Hartman, Madison L. Butler, Sharon K. Tucker, Jennifer M. Bormann and **David M. Grieger**. *The effect of method of collection and season on ejaculate characteristics of beef bulls.* J. Anim. Sci., Vol 98, Suppl. 3, Nov **2020**, pg. 111-112.

McCabe, E. D., L. P. Sorell, M. Zhang, A. Hartman, K.E. Fike, K.G. Odde and **D.M. Grieger**. *Imitating the dynamic bovine cervix with 3D printing technology to teach artificial insemination in cattle.* J. of Anim. Sci. Vol 98, Suppl. 3, Nov **2020**, pg. 147.

Oosthuizen, N., P. Fontes, R. Filho, C.R. Dahlen, **D.M. Grieger**, J.B. Hall, S. Lake, C. Looney, V.R.G. Mercadante, B.W. Neville and C. Lamb. *Presynchronization and delayed fixed-time artificial insemination increases pregnancy rates with sex-sorted semen in replacement beef heifers.* J. Anim. Sci., Vol 98, Suppl 4, Nov 2020 pg. 115-116.

Shaw, D.C., K.E. Fike and **D.M. Grieger**. *Effect of delayed insemination of non-estrous beef heifers following a 7-d-CO-Synch plus controlled internal drug release (CIDR) insert timed artificial insemination protocol.* J. Anim. Sci. Vol 94, E-Suppl. 5. Abst. #1109, pg. 522. **2016**.

Hill, S.L., **D.M. Grieger**, K.C. Olson, J.R. Jaeger, C.R. Dahlen, M.R. Crosswhite, N. Negrin Pereira, S.R. Underdahl B.W. Neville, J.K. Ahola, M.C. Fischer, G.E. Seidel and J.S. Stevenson. *GnRH increased pregnancy risk in suckled beef cows that did not display estrus when subjected to a split-time artificial insemination program.* J. Anim. Sci. Vol 94, E-Suppl. 5. Abst. #1110, pg. 522. **2016**.

Sinclair, C. D., S. K. Webel, T. L. Douthit, **D. M. Grieger** and J. M. Kouba. *Application of either a single or multiple doses of an intravaginal gonadotropin-releasing hormone agonist to induce ovulation in mares.* J. Anim. Sci. Vol 94, E-Suppl. 5. Abst. #0802, pg. 378. **2016**.

C.J. Douthit, R.A. Cederberg, A.T. Desaulniers, J.M. Kouba, T.L. Douthit, **D.M. Grieger** and B.R. White. *Identification of GnRH isoforms and their cognate receptors in the equine testis.* J. Equine Vet. Sci. Volume 35, Issue 5, Pages 439–440, **2015**.
doi.org/10.1016/j.jevs.2015.03.144

Sinclair, C. D., J. Kouba, T. L. Douthit, **D. M. Grieger**, L. W. Murray and S. K. Webel. *Use of intravaginal triptorelin gel for ovulation induction in mares.* Volume 35, Issue 5, Pages 437–438, **2015**. doi.org/10.1016/j.jevs.2015.03.139