CURRICULUM VITAE

Craig Gifford
Extension Beef Cattle Specialist
New Mexico State University, Las Cruces, NM 88001

EDUCATION

University of Idaho ***Ph.D.*** ***2008*** **Animal Physiology**
Major Advisor: Dr. Troy Ott
Research Area: Effects of pregnancy on systemic gene expression in domestic ruminants.

New Mexico State University ***M.S.*** ***2004*** **Animal Physiology**
Major Advisor: Dr. Dennis Hallford
Thesis Title: Serum thyroid hormones, postpartum reproduction, and offspring performance in ewes receiving propylthiouracil with or without melatonin.

University of Wyoming ***B.S.*** ***2001*** **Animal Science**

ACADEMIC TRAINING HISTORY

October 2012 to June 2016. Research Associate. Department of Animal Science, Oklahoma State University
March 2009 to October 2012. Department of Animal Science, Oklahoma State University, Stillwater, OK. Mentor: Dr. Clint Krehbiel.
June 2008 to December 2009, Postdoctoral Research Associate. Department of Biology, New Mexico Highlands University, Las Vegas, NM. Mentor: Dr. Carol Linder.
August 2004 to May 2008, Graduate Research and Teaching Assistant. Department of Animal and Veterinary Science, University of Idaho, Moscow, ID.
January 2002 to July 2004, Graduate Research and Teaching Assistant. Department of Animal and Range Science, New Mexico State University. Las Cruces, NM.

UNERGRADUATE RESEARCH MENTORSHIP

Julia Matera. Current. Niblack scholar. 2nd place ASAS Undergraduate Poster competition.
Catherine Horsely. Current. Animal Science Departmental Research Scholar.
Molley Drakely. Current. Animal Science Departmental Research Scholar.
Kara Sutphen. Current. Semester Wentz proposal.
Jessica Baggerman. 2010-2011. Animal Science Departmental Research Scholar.
Julie Damante. 2010-2011. Animal Science Departmental Research Scholar.
Arantxa Lasa. 2011-2012. Zoology undergraduate research project.
Jessica Baggerman 2011-2012. Wentz Scholar.
Project Title: *Zinc activating protein finger in bovine respiratory disease.*
Julie Damante. 2011-2012. Wentz Scholar.
Project Title: Hepatic *prohibitin in bovine respiratory disease.*

GRADUATE STUDENT MENTORSHIP

Jessica Chase. M.S. 2014-2016. Thesis: "*Autologous intrauterine transfer of interferon-tau primed immune cells increases pregnancy rates to embryo transfer in beef cattle*"

Shiann Burns. M.S. 2016-current. Thesis *"Mechanisms of improved pregnancy rates in response to intrauterine transfer of immune cells"*

REVIEW ARTICLES

1. Hernandez Gifford, J.A., and **C.A. Gifford**. 2013. Role of reproductive biotechnologies in enhancing food security and sustainability. Animal Frontiers 3(3):14-19.
2. **C.A. Gifford**, B. P. Holland, R. L. Mills, C. L. Maxwell, J. K. Johnson, D. L. Step, C. J. Richards, L. O. Burciaga Robles, and C.R. Krehbiel. 2012. Impacts of inflammation on cattle growth and carcass merit. J. Anim. Sci. 90:1-15.
3. T.L. Ott and **C.A. Gifford**. 2011. Effects of Early Conceptus Signals on Circulating Immune Cells: Lessons from Domestic Ruminants. Am J Reprod Immunol. 64:245-254.

B. PEER REVIEWED ARTICLES

1. Impact of bovine respiratory disease during the receiving period on steer finishing performance, efficiency, carcass characteristics, and lung scores. 2016. Wilson, B., D.L. Step, C. Maxwell, **C.A. Gifford**, C. Richards, and C.R. Krehbiel. Submitted, PAS.
2. Type I Interferon response in calves experimentally infected with bovine viral diarrhea virus type 1b and *Mannheimia haemolytica*. 2015. J. L. Chase, B. K. Wilson, B. I. Gomez, J. A. Hernandez Gifford, D. L. Step, C. R. Krehbiel, C. J. Richards, and **C. A. Gifford**. The Veterinary Journal. In Preparation.
3. Matera, J., B.K. Wilson, J.A. Hernandez Gifford, D.L. Step, C.R. Krehbiel, and **C.A. Gifford**. 2014. Cattle with increased severity of Bovine Respiratory Disease Complex exhibit decreased capacity to protect against histone cytotoxicity. J. Anim. Sci. Accepted January, 2015.
4. Gomez, B. I., **C. A. Gifford**, D. M. Hallford, and *J. A. Hernandez Gifford. 2014. Protein kinase B is required for follicle-stimulating hormone mediated beta-catenin accumulation in bovine granulosa cells. J. Anim. Sci. Submitted. Revision returned.
5. **Gifford, C.A**., K.A. Branham, J.O. Ellison, B.I. Gomez, C.O. Lemley, C.G. Hart, C.R. Krehbiel, B.C. Bernhard, C.L. Maxwell, C.L. Goad, D.M. Hallford, and J.A. Hernandez Gifford. 2015. Effect of anabolic implants on adrenal cortisol production in feedlot cattle implanted early or late in the finishing phase. Physiol. & Behav. 138:118-123.
6. Stapp, A.D., B.I. Gomez, **C.A. Gifford**, D.M. Hallford and J.A. Hernandez Gifford. 2014. Canonical WNT Signaling Inhibits Follicle Stimulating Hormone Mediated Steroidogenesis in Primary Cultures of Rat Granulosa Cells. PLoS ONE. 9(1): e86432.
7. Stapp, A.D., **C.A. Gifford**, D.M. Hallford, and J.A. Hernandez Gifford. 2014. Evaluation of steroidogenic capacity after follicle stimulating hormone stimulation in bovine granulosa cells of Revalor 200® implanted heifers. J. Anim. Sci. Biotechnol. 5:2, doi:10.1186/2049-1891-5-2.
8. Castañon, B.I., A.D. Stapp, **C.A. Gifford**, L.J. Spicer, D.M. Hallford, and J.A. Hernandez Gifford. 2012. Follicle-stimulating hormone regulation of estradiol production: possible involvement of WNT2 and β-catenin in bovine granulosa cells. J. Anim. Sci. 90:3789-3797.
9. **Gifford, C. A**., A.M. Assiri, M.C. Satterfield, T.E. Spencer, and T.L. Ott. 2008. Receptor Transporter Protein 4 (RTP4) in Endometrium, Ovary, and Peripheral Blood Leukocytes of Pregnant and Cyclic Ewes. Biol Reprod 79:518-524.
10. **Gifford, C.A**., K. Racicot, D.S. Clark, K.J. Austin, T.R. Hansen, M.C. Lucy, C.J. Davies, and T.L. Ott. 2007. Regulation of interferon-stimulated genes in peripheral blood leukocytes in pregnant and bred, non-pregnant dairy cows. J Dairy Sci. 90:274-280.
11. **Gifford, C. A.**, J.L. Duffey, R.L. Knight, and D.M. Hallford. 2007. Serum thyroid hormones, postpartum reproduction, and offspring performance in ewes receiving propylthiouracil with or without melatonin. Anim Reprod Science. 100:32-43.