

**William J. McGuire, Ph.D.**

Mora County Courthouse, Extension Office  
Highway 518, 10 Decky Park  
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**Education**

Doctor of Philosophy, Physiology Department, College of Veterinary Medicine and Biomedical Sciences, Colorado State University 1993.

Master of Science in Animal Science. Kansas State University, 1989.

Bachelor of Science in Animal Science, Kansas State University, 1983.

**Rank**

Assistant Professor

**Title**

County Extension Program Director/Agricultural Agent-Mora County, 2013-present.

Administration and supervision of budget, personnel, and planning for the county program.

Organization, development, and teaching of agricultural programs for the citizens of Mora County.

Organization, development, and teaching of 4-H programs, providing hands on learning opportunities for the youth of Mora County.

Department Head and Instructor, Agriculture Department, Cloud County Community College, 1999-2013.

Responsibilities include Department Head duties, Director of the Equine Program, teaching Animal Science, Human Physiology and Anatomy classes, coaching the livestock and horse judging team.

Moorman's Manufacturing Company, Prairieland Beef Team Representative, 1996-1999.

Responsibilities include direct interaction with producers to help solve nutritional needs, producer meetings, and provide a professional resource both to producers and beef team members.

Research Physiologist (Animal), US-I1, Roman L. Hruska U.S. Meat Animal Research Center, 1993-1996

Responsibilities included designing, conducting, analyzing and publishing results of experimental studies in physiology.

### **Professional and Leadership Roles and Memberships**

NMSU CES Small Farm and Ranch Task Force member, 2013-present.  
Livestock and youth committee member, 2013-present.

New Mexico Association of County Agricultural Agents, 2013-present.

New Mexico Association of 4-H Agents, 2013-present.

Sangre De Cristo Livestock and Growers Association Board member, 2013-present.

New Mexico Horse Breeders Association member, 2013-present.

Southwest Extension Climate Change committee member, 2015-Present.

## PUBLICATIONS

McGuire W.I. 1989. The response of prepubertal heifers to norgestomet and/or follicular fluid and the induction of estrus in ovariectomized cows with SY NCR.O-MATE B. M.S. Thesis. Kansas State University.

Viker SD, **McGuire WJ**, Wright .TV, Beeman KB, and Kiracofe GH. 1989. Cow-calf association delays postpartum ovulation in mastectomized cows. *Theriogenology* 32:467-474.

**McGuire WJ**, Larson RL, and Kiracofe GH. 1990. Syncro-Mate B induces estrus in ovariectomized cows and heifers. *Theriogenology* 34:33-37.

**McGuire WJ**. 1993. Second messenger systems mediating P GF<sub>2a</sub> -induced luteal regression. Ph.D. Dissertation. Colorado State University.

Niswender GD, Juengel JL, McGuire WJ, Belfiore CJ, and Wiltbank M.C. 1994. Luteal function: The estrous cycle and early pregnancy. *Biol Reprod* 50:239-247.

Juengel JL, Guy N4K. Tandeski TR, McGuire WJ, and Niswender GD. 1994. Steady-state concentrations of messenger ribonucleic acid encoding cytochrome P450 side-chain cleavage and 3 β-hydroxysteroid dehydrogenase/delta-4 isomerase in the ovine corpus lutea during the estrous cycle. *Biol Rcpod* 5 1:380-384.

McGuire **WJ**, Juengel JL, and Niswender GD\_ 1994. Protein kinase C second messenger system mediates the antisteroidogenic effects of prostaglandin F<sub>2α</sub> in the ovine corpus luteum *iii vivo*. *Biol Reprod* 51:800-806.

Imakawa K, Tamura K, **McGuire WJ**, Khan S, Harbison LA, Stanga JP, Helmer SD, and Christenson RK. 1995. Effect of intcrlcukin-3 on ovine trophoblast interferon during early conceptus development. *Endocrine* 3:511-517.

McGuire **WJ**, Imakawa K, and Christenson RK.. Regulation of Endometrial Granulocyte-Macrophage Colony-Stimulating Factor (GM-CST) in the Ewe during Maternal Recognition of Pregnancy. (Submitted *Biol. Reprod* 11/9/95).

McGuire WJ, Imakawa K. and Christenson RK. Quantitation and *in situ* localization of mRNA encoding retinol binding protein in the developing neonatal pig uterus. (Manuscript in preparation).

McGuire WJ and Christenson RK. Insulin-like growth factor binding protein Gene expression under crowded and roomy uterine environments in the sow. (Manuscript in preparation).

McGuire WJ. EHV in horses. Paper submitted for NMSU Extension publication