

Douglas R. Eborn

Texas A&M University - Commerce
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EDUCATION

Postdoctoral Research Physiologist – USDA, ARS, U.S. Meat Animal Research Center

Research Areas: *Estrous Synchronization in Beef Cattle; Effect of Blood Chimerism on Reproductive Tract Development in Freemartins; Incidence of DNA Exchange between Dam and Fetus in Cattle* – Dr. Sherrill Echternkamp

Postdoctoral Research Assistant (USDA-NRI grant) – Dept of Animal Sciences and Industry, Kansas State University

Research Project: *Regulation of the Nanog Gene in the Pig* – Dr. David Grieger and Dr. Duane Davis

PhD – Dept of Animal Sciences and Industry, Kansas State University

Emphasis: Reproductive Physiology

Dissertation: *Cloning and Expression of Pluripotent Factors Around the Time of Gastrulation in the Porcine Conceptus; Timed Insemination of Beef Heifers using the 7-11 Synch Protocol.*

M.S. – Dept of Animal Sciences and Industry, Kansas State University

Emphasis: Animal Breeding and Genetics

Thesis: *Genetic Relationships of Body Condition Score with*

Carcass Traits in Limousin Cattle

B.S. – Biology, Utah State University

Minor: Animal Science

Overall GPA: 3.6 Graduation: December 1999

TEACHING EXPERIENCE

Assistant Professor – Texas A&M University - Commerce

2014 to Present

Introduction to Animal Science Laboratory (ANS 1119)

- Spring 2016 (33 students)(2 sections)
 - Ave. Student Rating = 1.15

Introduction to Animal Science (ANS 1319)

- Spring 2016-2017
- Fall 2016

Animal Nutrition (ANS 308)

- Fall 2015

Genetics of Livestock Improvement (ANS 310)

- Spring 2014-2017

Reproductive Physiology of Domestic Animals (ANS 311)

- Fall 2014-2016

Artificial Breeding of Domestic Animals (ANS 312)

- Spring 2015/Spring 2017

Dairying (ANS 313)

- Summer 2014/2016

Livestock Management Techniques (ANS 317)

- Spring 2014-2015/Spring 2017
- Fall 2014

Sheep and Goat Management (ANS 411)

- Summer 2015-2016

Beef Cattle Management (ANS 412)

- Fall 2015

Swine Management (ANS 413)

- Summer 2015/Summer 2017

Diseases and Parasites of Livestock (ANS 419)

- Summer 2017

Advanced Reproductive Physiology (ANS 511)

- Fall 2014/Fall 2016

Advanced Animal Nutrition (ANS 515)

- Spring 2016

Advanced Dairying (ANS 597)

- Summer 2014

Scientific Methodology in Agricultural Research (AG 532)

- Spring 2015

Graduate Teaching Assistant – Kansas State University

2000 to 2008

ASI Problem/Calving (ASI 666)

Spring 2005-2007

- Managed course schedule related to “hands-on” experience at animal units
- Lectured yearly on calving genetics

ASI Problem/Applied Animal Technology (ASI 666), 15 students

Spring 2005-2007

- Set up and assisted with setup of labs
- DNA isolation, primer design, PCR
- Sperm labeling
- Cell transformations and transfections

Bovine reproductive technologies (ASI 512), 24 students

Fall 2001, 2004-2007

- Assisted with weekly labs in: rectal palpation, embryo transfer, ultrasound of pregnancy
- Taught classes in absence of professor when needed on reproductive physiology

The Horse as a Window to the World (ASI 330), 30 students

Spring 2007

- Graded weekly assignments, quizzes, exams, and papers
- Managed and interacted with students on an online discussion board

Animal Breeding Principles (ASI 510), 40 students

Fall 2000, Spring 2004

- Graded weekly assignments and taught lectures on beef cattle crossbreeding

Farm Animal Reproduction (ASI 400), 80 students

Fall 2002

- Graded assignments and 4 major exams; assisted with weekly lab sessions

Genetics (ASI 500), 40 students

Spring 2001

- Graded weekly assignments and quizzes

ACADEMIC, PROFESSIONAL, AND COMMUNITY POSITIONS/SEVICE

Texas A&M University-Commerce

Academic Integrity Taskforce – Texas A&M University-Commerce	October 2014 - Present
<ul style="list-style-type: none">• Committee member; assist with proposing new university guideline and standards for academic integrity and updating policies• Academic Integrity in the Classroom/Online – subcommittee member	
School of Agriculture Graduate Coordinator	March 2014 – Present
School of Agriculture Executive Committee – <i>Member</i>	January 2015 - Present
Agricultural Sciences Strategic Planning Committee - <i>Member</i>	April 2014 – August 2014
Agricultural Sciences Interim Farm Manager	May 2014 – August 2014
Agricultural Sciences Farm Manager Search Committee – <i>Chair</i>	Summer 2014
Agricultural Sciences Assistant Professor of Agronomy Search Committee – <i>Member</i>	Spring 2014

Community

Riley Round-Up for MS – <i>Volunteer</i>	December 6, 2014
<ul style="list-style-type: none">• Livestock show that raises money for multiple sclerosis	

GRADUATE CURRICULUM

- Asi 801 Hormonal Control of Reproduction and Lactation (3 credits)
- Asi 710 Physiology of Reproduction in Farm Animals (3 credits)
- Asi 802 Gametes, Fertilization, and Pregnancy in Farm Animals (3 credits)
- Asi 825 Stress Physiology of Livestock (3 credits)
- Asi 902 Topics: Biotechnology in Stem Cells (1 credit)
- Stat 703 Statistical Methods for Natural Scientists (3 credits)
- Stat 704 Analysis of Variance (2 credits)
- Stat 705 Regression and Correlation Analysis (2 credits)
- Stat 720 Design of Experiments (3 credits)
- Stat 870 Analysis of Messy Data (3 credits)
- Bioch 755/765 Biochemistry (6 credits)
- Asi 661 Applied Animal Breeding (3 credits)
- Asi 749 Advanced Animal Breeding (3 credits)
- Agron 830 Quantitative Genetics / Plant Breeding (3 Credits)
- Asi 680 Ruminant Nutrition (2 credits)
- Asi 683 Grazing Livestock Nutrition (1 credit)
- Asi 684 Nutrition of Feedlot Cattle (1 credit)
- Agron 501 Range Management (3 credits)

FIELD AND LABORATORY TECHNIQUES

- Ultrasonography
 - Ovarian Scanning
 - Pregnancy Determination
 - Fetal Sexing
- Real-time PCR
- Northern and Western Blots
- Gene Cloning and Sequencing
- Gene Reporter Assays

- Stem Cell Culture