

Interdisciplinary Reproductive Biology Seminar Series
Fall, 2002
Wednesday 4-5 PM
151 Animal Sciences Building

August

28 Louis J. Guillette, Zoology
Alligators and Contaminants: From Genes to Populations

September

4 Maria Grant, Pharmacology and Therapeutics
Stem Cells: Friends or Foe

11 Naohiro Terada, Pathology
An Identity Crisis From Stem Cells

18 Stan Williams, Obstetrics & Gynecology
Women's Health Initiative Results: What Does it Mean for Hormone Replacement Therapy?

25 Metin Pancarci, Animal Sciences
Use of Estradiol Cypionate in Reproductive Management Systems for Dairy Cattle

October

2 Ed Scott, Cancer Center
Stem Cells: The Holy Grail or Cheap Beer

9 Saban Tekin, Animal Sciences
Natural Killer-Like Cells in Peripheral Blood and Uterine Endometrium in Sheep:
Characteristics and Regulation by Pregnancy-Associated Proteins

16 Peter J. Hansen, Animal Sciences
Developmental Acquisition of Thermotolerance in Preimplantation Bovine Embryos - Possible
Mechanisms and Relevance to Dairy Cattle Fertility

23 Aydin Guzeloglu, Animal Sciences
Effects of Pregnancy and Bovine Somatotropin (bST) on Endometrial Function Related to
Maintenance of Pregnancy in Dairy Cattle

30 Doug Stocco, *Texas Tech University Health Sciences Center*
Factors Involved in the Regulation and Support of Steroid Hormone Biosynthesis

November

6 Richard Fayer-Hosken, *University of Georgia*
Immunocontraception of Free-Roaming African Elephant

13 Jeremy Block, Animal Sciences
Strategies to Increase Post-Transfer Survival of In Vitro Produced Bovine Embryos

20 Julian Bartolome, Large Animal Clinical Sciences
Resynchronization of Ovulation and Timed-Artificial Insemination in Lactating Dairy Cows

December

11 Kathleen T. Shiverick, Pharmacology & Therapeutics
Evaluation of the Effects of Environmental Chemicals on Cytokine Production and Cell Cycle in Human Uterine and Placental Cells

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January

15 Jon Wheaton, *University of Minnesota*

Inhibin Concentrations in Mares With Granulosa Cell Tumors

22 Alice Rhoton-Vlasak, Obstetrics & Gynecology

Premature Ovarian Failure: Diagnosis and Treatment

29 John Kastelic, Lethbridge Research Center, Alberta, Canada

Scrotal/Testicular Thermoregulation in Bulls

February

5 Dean Jousan, Animal Sciences

Effects of Differences in Dietary Protein and Varying the Interval From Collection of Bovine Embryos to Freezing on Embryo Quality and Viability

12 Erin Rhinehart, Neuroscience & Physiology

Leptin Receptor Replacement Using Recombinant Adeno-Associated Viral Vectors

19 Ryuzo Yanagimachi, *Donald Henry Barron Lecturer, University of Hawaii*

From Normal Fertilization to Cloning: My Research Path

26 Joel Hernandez, *University of Mexico*

Infertility in Lactating Dairy in Mexico: The Current Situation and Possible Treatments for Enhancing Fertility

March

5 Linda Penfold, *White Oak Conservation Center, Yulee, Florida*

Semen and Sperm Assessments as a Measure of Individual and Population Health in Endangered Species

19 Charlie Wood, Physiology

Estrogen Influence on Fetal Hypothalamus-Pituitary-Adrenal Axis Function

26 Carrie Haskell-Luevano, Medicinal Chemistry

Drugs Versus Exercise to Treat Obesity Associated with the Melanocortin Pathway

April

2 Leslie MacLaren, *Nova Scotia Agricultural College*
Integrins and Other Uterine Chat: Cow Cells Listen Too!

9 Rocio Rivera, Animal Sciences
Cellular, Subcellular and Developmental Responses of Two-Cell Bovine Embryos to a Physiologically Relevant Heat Shock

16 Elaine D. Watson, *University of Edinburgh*
Molecular and Functional Studies in the Equine Ovary

16 Michael J. Fields, Animal Sciences
Extragonadal LH Receptors in Domestic Animals: Do They Play a Role in the Reproductive Cycle?

30 Jose Santos, *University of California-Davis, Tulare*
Effects of Gossypol Intake and Plasma Gossypol Concentrations on Embryo Quality in Dairy Heifers, In Vitro Embryo Development, and Fertility in Lactating Dairy Cows

May

7 Allen Bridges, Animal Sciences
Efficacy of a Modified PGF₂ Treatment Administered 19 and 20 Days After a 14 Day Melengestrol Acetate Treatment to Synchronize Estrus and Induce Corpus Luteum Regression in Bos Indicus x Bos Taurus Heifers.

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22 Phil Laipis, Biochemistry & Molecular Biology
Gene Therapy for Phenylketonuria: Problem of Maternal PKU

29 Amber Brad, Animal Sciences
Metabolism and Related Factors Involved in Porcine Oocyte Maturation

October

6 Sihong Song, Pharmaceutics
Recombinant Adeno-Associated Virus (rAAV) Vector Mediated Gene Delivery for Preventing Type I Diabetes

13 DeeAnn M. Reeder, Boston University
Behavioral Endocrinology of Reproduction in Bats: Changes in Glucocorticoid Hormones and Social Influences on Endocrine and Immune Function

27 William W. Thatcher, Animal Sciences
Multiplicity of Factors Associated with Early Embryonic Death: Strategies to improve Embryo Survival in Dairy Cattle

November

3 Ross Bathgate, University of Melbourne, Australia
Relaxin Family Peptides and their Novel G-Protein Coupled Receptors

10 Luiz Paula, Animal Sciences
The Role of Oxytocin on Estradiol-Induced PGF_{2 α} Production by Bovine Endometrium

December

1 Zevi Roth, Animal Sciences
Involvement of Apoptosis in Heat-Shock Induced Disruption of Oocyte Competence

8 Pedro Melendez, Large Animal Clinical Sciences

Management of Transition period to improve Fertility in Dairy

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14 Danielle Maatouk, Molecular Genetics & Microbiology
Epigenetic Regulation of Fetal Germ Cell Development

21 Amber Brad, Animal Sciences
Metabolism and Related Factors Involved in Porcine Oocyte Maturation

28 Pete Hansen, Animal Sciences
Towards an embryocentric world - current and future uses of embryo technologies in dairy production

February

4 Kathy Shiverick, Pharmacology & Therapeutics
Antioxidants for Prostate Cancer Prevention and Progression

11 Patricia Schnulle, Animal Sciences
Characterization of Colostrogenesis and Lactogenesis in the Pig

18 Ken Roberts, University of Minnesota
The Role of Epididymal Protein Crisp-1 in Sperm Maturation and Regulation of Sperm Function

25 Steve Phelps, Zoology
The Evolution of Social Behavior: Individual and Species Differences in Vasopressin Receptors

March

3 Martin Cohn, Zoology
Development of External Genitalia: From Evolutionary Origins to Congenital Malformations

17 Pedro Melendez, Large Animal Clinical Sciences
Management of Transition Period to Improve Fertility in Dairy

24 Laura Higgins, Zoology
Quantitative genetic analysis of behavior in *Drosophila melanogaster*

31 Phil Senger, Washington State University
Cows and SQIDs (electronic implants): How Great Ideas and Good Results Get "Stuck"

April

7 Gregory Schultz, Obstetrics & Gynecology
Connective Tissue Growth Factor in Scar Tissue Formation

14 Mark Mirando, USDA-CSREES-Washington, DC
Enhancing Your Opportunity for Competitive Grant Funding at the USDA's Cooperative State
Research, Education and Extension Service

21 Victor Shille, Department of Large Animal Clinical Sciences
Conservation of Endangered Species: Politics and Reality

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1 Surendra Sharma, Brown University Medical School
Uterine NK Cells, and Inflammation: A Paradoxical Relationship in Pregnancy-Associated Diseases

8 Pete Hansen, Animal Sciences
Physiological and Cellular Basis for Thermotolerance in Zebu Cattle

15 Alan Ealy, Animal Sciences
Regulation of interferon-tau gene expression in ruminants

22 Phil Laipis, Biochemistry & Molecular Biology
Gene Therapy for Phenylketonuria: Problem of Maternal PKU

29 Amber Brad, Animal Sciences
Metabolism and Related Factors Involved in Porcine Oocyte Maturation

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26 Danielle Maatouk, Molecular Genetics & Microbiology
Regulation of Primordial Germ Cell Development within the Murine Fetal Gonad

February

2 Karen von Deneen, Pathobiology
Plasma and Fecal Progesterone During Placentation in the Mare

9 John Verstegen, Large Animal Clinical Sciences
Long term preservation of chilled semen in the dog: interests of medium composition and exchanges

16 Julian Bartolome, Universidad Nacional de La Pampa, Argentina
Diagnosis Treatment of Bovine Ovarian Cysts

23 Collete Saint Marie, Zoology
The evolution of male parental care: evidence for sexual as well as natural selection.

March

9 Brian Harfe, Molecular Genetics & Microbiology
Patterning the vertebrate embryo

16 Himangshu Bose, Physiology & Functional Genomics
Understanding first step of steroidogenesis

23 Robert W. Cook, Northwestern University, Department of Neurobiology and Physiology
Activin and Inhibin in the Female Reproductive Axis

30 Kathleen Shiverick, Pharmacology & Therapeutics
Activation of Oxidative Stress and Th1 Cytokine Pathways by Environmental Chemicals in Human Uterine and Trophoblastic Cell Lines

April

6 Amy Fisher, Animal Sciences
Culture system-specific effects on development of in vitro produced bovine embryos

13 Bronwyn Crane, Large Animal Clinical Sciences

A Clinical and Economic Comparison of Synchronization of Ovulation with Timed Insemination and Exogenous Progesterone with Insemination at an Induced-Estrus as Therapeutic Strategies for Ovarian Cysts in the Lactating Dairy Cow

20 Todd Bilby, Animal Sciences

Effects of Feeding Fatty Acids on Oocyte Quality and Embryo Development in Lactating Dairy Cows

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7 Amir Niasari-Naslaji, University of Tehran
The Difference in Follicular Response to GnRH and Steroids in Cattle and Buffalo

14 Frank F. (Skip) Bartol, Auburn University
Uterine Development and Endometrial Programming

21 James L. Resnick, Molecular Genetics & Microbiology
Epigenetic regulation of fetal germ cell development

28 Judy Luborsky, Departments of Pharmacology & Obstetrics & Gynecology
Rush University Medical Center
Is ovarian auto immune disease a risk factor for ovarian cancer?

October

5 William Thatcher, Animal Sciences
Factors Affecting the Success of AI Programs

12 Trent Clark, Florida State University College of Medicine
Smad8 expression in the developing reproductive system and brain

19 Amir Niasari-Naslaji, University of Tehran
Semen Collection, Processing, Characterization and Preservation in Bactrian Camel

26 Joel Yelich, Animal Sciences
Synchronization of estrus and (or) ovulation in cattle of *Bos indicus* breeding

November

2 Jim Gelsleichter, Mote Marine Laboratory, Sarasota
Pollutant Exposure and Reproductive Effects in Shark and their Relatives

9 Thomas Yang, Biochemistry and Molecular Biology
Mechanisms of genomic imprinting in the Angelman/Prader-Willi syndrome region

16 Kenneth Beaman, Dept. of Microbiology & Immunology, Rosalind Franklin University of
Medicine & Science
RTF: A Master Regulator of Implantation and Immunity

30 Carlos Risco, Large Animal Clinical Sciences

Comparison of Reproductive Performance by Artificial Insemination versus Natural Service Sires in Dairy Herds

December

7 Mike Russell, University of Buffalo

Mucosal Immune Responses in the Genital Tract

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- January 23: Cliff Lamb; University of Minnesota
- February 1: Dean Jousan; Department of Animal Sciences
Insulin-like growth factor-I as a survival factor for the bovine preimplantation embryo subjected to heat shock.
- February 15: Rodolfo Luzbel de la Sota; Fulbright Scholar
- February 22: Pedro Melendez DVM, MS, PhD; Food Animal Reproduction and Medicine Service, Department of Large Animal Clinical Sciences
Characterization of milk production and reproduction in Holstein cattle of Chile.
- March 1: Fred Vom Saal; University of Missouri
- March 8: Nasser Chegini; Department of Obstetrics and Gynecology
Proinflammatory and Profibrotic Mediators in Women Reproductive Disorders
- March 22: Kathleen Shiverick; Department of Pharmacology and Therapeutics
Mechanisms of Antioxidant Interaction with Prostate Cancer Therapy.
- March 29: Bruno Amaral; Department of Animal Sciences
- April 5: Jonathan Green; Department of Animal Science, University of Missouri
- April 12: David Barber; Department of Physiological Sciences
- April 19: Mauricio Benzaquen; Department of Large Animal Clinical Sciences

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September 13: John Roberts, DVM; Dept. Infectious Diseases and Pathology

September 20: Thea Edwards; Dept. Zoology

Reproductive variability associated with nitrate exposure in Florida mosquitofish populations.

September 27: Alan Ealy; Dept. Animal Sciences.

How fibroblast growth factors influence placental development in ruminants: A progress report.

October 4: Margo Macpherson, DVM, MS; Large Animal Clinical Sciences

October 18: Edward F. Orlando, Ph.D.; Department of Biological Sciences, Florida Atlantic University at Harbor Branch Oceanographic Institution.

October 25: Regina Esterman; Dept. Animal Sciences.

November 8: Amber Brad, MS; Dept. Animal Sciences

Regulation of apoptosis in preimplantation bovine embryos.

November 15: Leticia Reyes DVM, Ph.D; Dept. Pathobiology,

November 29: Barbara Loureiro; Dept. Animal Sciences.

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- January 31: Dr. Peter J. Hansen; Dept. Animal Sciences
Developmental regulation of apoptosis responses in preimplantation embryos.
- February 7: Luciano Silva; Dept. Animal Sciences
Endometrial Vascular Perfusion during Early Pregnancy in Mares .
- February 14: Geoff Dahl; Dept. Animal Sciences
*Effects of Short Day Photoperiod on Mammary Growth of Dry Cows:
Altered Prolactin & IGF Signaling*
- February 21: Dr. George W. Smith; Michigan State University
*Local regulation of follicular steroidogenesis: Role of Cocaine and Amphetamine
Regulated Transcript (CART) and its mechanism of action.*
- February 28: Dr. Mary B. Brown; Dept. Pathobiology
Porphyromonas gingivalis & Adverse Pregnancy Outcome
- March 7: Luiz Augusto de Castro e Paula; Dept. Animal Sciences
*Role of oxygen and reactive oxygen species in the effects of heat shock in
preimplantation bovine embryos*
- March 21: Dr. Steve Ford; University of Wyoming
*Maternal Nutrition and Programming of Placental, Fetal and Postnatal
Development*
- March 28: Dr. Dan Sharp; Dept. Animal Sciences
- April 4: Dr. Fabio Lima; Dept. Large Animal Clinical Sciences
*Effects of Feeding Rumen Protected Choline on Reproductive Performance and
Milk Production of Dairy Cows*
- April 11: Dr. Erin Connor; Research Molecular Biologist; Bovine Functional Genomics
Laboratory; USDA-ARS
- April 18: Dr. Sally Johnson; Dept. Animal Sciences
- April 25: Dr. Steven E. Ellis; Clemson University