

BIOGRAPHICAL SKETCH

MILO C. WILTBANK, PROFESSOR

A. Education

Brigham Young University – B.S. 1980; Zoology
Brigham Young University – M.S. 1982; Zoology/Physiology
University of Michigan – Ph.D. 1987; Physiology
Colorado State University – Post-doctoral fellow – 1987-1991; Reproductive Physiology

B. Positions and Honors:

1991-1997. Assistant Professor, Dairy Science Department and Endocrinology-Reproductive Physiology Program, University of Wisconsin-Madison. 70% Research, 30% Teaching.
1997-2002. Associate Professor, University of Wisconsin-Madison.
2002- Present. Professor, University of Wisconsin-Madison.

Professional Memberships

Society for the Study of Reproduction (SSR)
American Dairy Science Association (ADSA)
American Animal Science Association (ASAS)
International Embryo Technology Society (IETS)
Brazilian Embryo Technology Society (SBTE)
Society for Reproduction and Fertility (SRF-British)

C. Biosketch

Dr. Milo Wiltbank joined the faculty at the University of Wisconsin-Madison in 1991 in the Department of Dairy Science and is currently Professor of Dairy Science and Endocrinology-Reproductive Physiology. He has done research in reproductive physiology throughout his career. Much of the basic research in Dr. Wiltbank's laboratory has focused on understanding the physiologic mechanisms that regulate selection of a single dominant follicle and the mechanisms allowing regression or maintenance of the CL. From a practical standpoint, he is probably best known for development, validation, and modification of the timed AI protocol known as Ovsynch. Current research projects in his laboratory are focused on:

- 1) Understanding and reducing pregnancy loss in lactating dairy cows and recipients of in vitro produced (IVF) and cloned embryos.
- 2) Mechanisms involved in primordial follicle activation and in selection of a single dominant follicle.
- 3) Rethinking reproductive management programs to simplify management and improve fertility.

Current Funding

Wiltbank, MC (PI); Influence of ovary, uterus, and embryo in pregnancy success in ruminants. Hatch Multi-State Research Fund; \$42,915.99/yr; 10/1/2017-9/30/2021; Provides Funding for one Ph.D. student – Currently Megan Mezera
Kirkpatrick, B (PI); Wiltbank, MC (Co-PI); Characterization of a major gene for bovine ovulation rates; USDA NIFA; \$500,000; 3/1/2018 to 2/28/2021.
Wiltbank, MC (PI); Pivotal periods of pregnancy loss and maintenance after embryo transfer. \$499,981; 1/1/2019 to 12/31/2022
Wiltbank, MC (PI); US-Israel Binational Agricultural Research (BARD); Pregnancy loss and maintenance of the corpus luteum; \$155,640; 6/3/2019 to 4/31/2022.

Service and Awards

New Investigator Award: First Place, Society for the Study of Reproduction, 1988.
John S. Donald Teaching Award, College of Agriculture and Life Sciences, University of Wisconsin-Madison, 1999.
NIH Reproductive Endocrinology and Reproductive Biology Study Sections adhoc panel member, multiple years.
USDA Reproductive Biology Study Section panel member, multiple years.
Pharmacia Physiology Award, American Dairy Science Association, 2001.
Chair, Membership Committee, Society for the Study of Reproduction, 2000-2002.
Director, Society for the Study of Reproduction, 2003-2006.
USA Representative for International Congress on Animal Reproduction, 2004-Present.
WALSAA Outstanding Advisor Award. College of Agriculture and Life Sciences, 2005.
Research Award. National Association of Animal Breeders, 2006.
Service to Agriculture Award. Farm and Industry Short Course Alumni, 2007.
Merial Dairy Management Award. American Dairy Science Association, 2008.
Chair of Graduate Program, Department of Dairy Science, 2007-2019

D. Teaching Program:

Dairy Science 534 – Reproductive Management of Dairy Cattle – 3 credit hours

16-20 students every Spring semester – Elective Course

2 h of lecture/discussion per week and 2 h of laboratory instruction per week

Role: Instructor

One of the most popular courses in Dairy Science, based on course evaluations.

Dairy Science/Animal Science 373 – Animal Physiology – 3 credit hours

70-80 students every Spring semester – Required Course for certain programs

Will be offered in Summer session starting in 2020.

3 h of lecture/discussion per week

Role: Co-Instructor with Dr. Laura Hernandez

Co-Instructor

Advanced Reproductive Physiology 703 – 3 credit course

This is a new on-line graduate course that is taught across a number of Universities. I am one of many instructors but I attempt to attend and participate in every class session.

Dairy Science 535 – Dairy Herd Practicum - Capstone Course – 3 credit hours

20-25 students every Fall semester – Required Course for Department of Dairy Science

I teach lectures and laboratories on evaluating reproduction on dairy farms (9 contact hours).

Endocrine Physiology – ObS&GYN 710 – 3 credit course

I teach the lectures and active learning session on the ovarian cycle (6 contact hours).

Pregnancy, Parturition and Lactation – Dairy Science 875 – 2 credit course

I teach the lectures and supervise the student presentations on Embryonic maintenance of the CL (6 contact hours).

E. Peer-Reviewed Publications – (From Web of Science, November 19, 2019: Total of 243 Research Articles; h-Index = 64; Average citations/manuscript = 53.5; Total Citations 12,991; Total Citing Articles 5,966)