

Annual Meeting
Multistate Project NE1727: Ovarian Influences on Reproductive Success in Ruminants

Cornell University, Ithaca, NY

AGENDA

Sunday, May 13th, 2018

1. Check into **Best Western Hotel** (East hill Plaza; Group Name: Multi-State Project Meeting)
2. Dinner TBD

Monday, May 14th, 2018

Breakfast in main dining hall

8:00 AM - Meeting begins

Food science conference center meeting room (Adjacent to Morrison Hall)

8:00 AM Welcome, pictures for press release, and introductions

8:15 AM Station reports for NE-1227

Objective 1: Determine the Impact of Altered Ovarian Function on Ruminant Reproductive Performance (IA, KY, MS, NE, NH, NY, PA, VA, VT, WI, WV)

Objective 1A. Role of specific signaling pathways in regulation of follicle development, granulosa and thecal cell function, and vascular development of follicles: Hedgehog, HIPPO, SMAD, CCN1, Fas, ERK, and MAPK pathways – (NH, NY, PA, VT, WI)

Hike & Lunch and break-out discussions of collaborations – lunch at Cornell University (~12N).

Objective 1B. Role of periconceptional stress (LPS, heat stress, and fescue toxins) and how it alters the ovarian reserve, follicular environment (steroidogenesis), CL development (vascularization) and ultimately how this impacts oocyte quality (early programming of methylation) and early embryo development--(IA, KY, MA, NE, VA)

Objective 1C. Evaluate the intracellular pathways utilized by Prostaglandin F2a (PGF) in regulating function of the corpus luteum -- (PA, VT, WV, WI)

4:00 PM NIFA information

Dinner at:

7:00 PM Dinner (TBD)

Tuesday May 15th, 2018

8:00 AM Brief report from Alan Ealy about the multi-institutional graduate course in Reproductive Biology that arose from this multistate group.

8:20 AM Continue Station Reports

Objective 2: Identify Alterations in Embryo Development and Uterine and CL Function Associated with Declining Pregnancy Establishment in Ruminants – (NY, PA, VA, WI)

Objective 3: Identify Changes in Genetics and Reproductive Management that Lead to Improved Pregnancy Rates in Ruminants

Objective 3A. Evaluate genetic and genomic methods for improving reproduction in dairy cattle – (NY, PA, VA, WI)

Objective 3B. Development of reproductive management protocols (ART) – (NY, PA, VA, VT, WI)

Discussion of group project – Alu1^{-/-} versus Alu1^{+/+} GHR SNP and pregnancy rates

1. AA comments –Gary Thompson
2. Nomination of new director
3. Identify meeting time and place for 2019 meeting

1PM adjourn meeting