

## Seminar in Plant, Animal, and Microbial Biotechnology

**HRT/CSS/ANS/BAE 461**

Spring Semester 2026

Thursday 3:00 – 3:50 pm

A-159 Plant and Soil Science Building

Instructors: Ning Jiang (HRT), Dave Douches (PSM), Jason Knott (ANS), Yan Liu (BAE), and Wei Liao (BAE)

Jan. 15 **Week 1.** Introduction to the course.

Jan. 22 **Week 2.** Webinar. Dr. Muffy Koch, Simplot Plant Sciences, Senior Regulatory Affairs Manager. **Roadmap for biotech commercialization.**

Jan. 29 **Week 3.** Dr. Kevin Childs, Director, MSU Genomics Core Facility. Tour **MSU Genomics Core Facilities.**

Feb. 5 **Week 4.** Lecture. Dr. David Douches, Professor, Director of Plant Breeding, Genetics, and Biotechnology Program, Department of Plant, Soil and Microbial Sciences, MSU. **Global Biotech Potato Project.**

Feb. 12 **Week 5.** Webinar. Dr. Jennifer Jaqueth, Program Leader, Corteva Agriscience. **Deploying genome editing for native disease resistance in maize.**

Feb. 19 **Week 6.** Guest speaker. Dr. William M. (Mose) Moseley, Retired Director of Global Development & Operations and Global Project Team Leader (Pfizer, Zoetis). **Your career is your responsibility.**

Feb. 26 **Week 7.** Webinar. Dr. Diane Broek, Trans Ova Genetics. **Advancements in assisted reproductive technology in livestock.**

Feb. 28 – March 8 Spring break

March 12 **Week 8.** Guest speaker. Dr. Wen Huang, Associate Professor, Department of Animal Science, MSU. **Applications of Genomics in Animal Breeding.**

March 19 **Week 9.** Webinar Dr. Dan Carlson: Chief Scientific Officer and Senior Vice President of Research and Development, Recombinetics. **Livestock gene editing, overview and applications.**

March 26 **Week 10.** Field trip. Neogen, Lansing MI, Neogen Corp. **Diagnostics technologies.**

April 2 **Week 11** Lecture, Dr. Yan (Susie) Liu, Associate Professor, Department of Biosystems & Agricultural Engineering, Michigan State University. Current applications of microbial processing for biofuel/chemical production.

April 9 **Week 12** Field Trip: MSU Anaerobic Digestion Research and Education Center (ADREC) and MSU anaerobic digestion facility. Dr. Wei Liao, Professor, Department of Biosystems & Agricultural Engineering, Michigan State University will lead the field trip.

April 16 **Week 13** Field Trip: MSU new dairy farm. Time: **3:00–5:00 pm (two-hour trip)**. Dr. Wei Liao, Professor, Department of Biosystems & Agricultural Engineering, Michigan State University will lead the field trip.

April 23 **Week 14**. Webinar. Dr. Maricelis Acevedo, Research Professor and the Director of the Feed the Future Insect-Resistant Eggplant Partnership, Cornell University.

April 30 **Week 15 (Final)**. **5:45 PM-7:45 PM** Case study/student presentation