



### Mission

To advance agriculture using multidisciplinary approaches to teach, generate, disseminate and apply knowledge in swine biology and management

### Vision

The center will be utilized by dedicated faculty, staff and students to develop successful graduates, conduct innovative research and engage stakeholders.

### Location

4813 Powerline Drive  
Lansing, MI 48910

### Manager:

Kevin Turner  
517-203-6564  
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## STATISTICS & INFORMATION

Home to:

- 240 sows and six boars
- 500 suckling pigs
- 1500 nursery/finishing hogs

### Production Performance

#### Highlights:

- 13.0 total born, 12.5 total weaned, market hogs finished at 255 lb. in less than 150 days

### Farm Upgrades & Capital Improvements:

- 80' x 110' group sow housing addition completed, including housing for 128 females in free-access stalls, and 80 in four small group, electronic sow feeding pens
- Retrofitting old gestation area into gilt development barn to house replacement females from 60 lb. until breeding age, including 12 group pens and 40 free-access stalls

## RESEARCH

Research at this center is designed to advance animal agriculture using multidisciplinary approaches to swine nutrition, behavior and genetics. Many of the ongoing research projects are funded by M-AAA, USDA-NIFA or NIH/NICHD.

### Highlighted Research:

- Examining impacts of weaning stress on resilience in pigs (Cathy Ernst, Ph.D., Janice Siegford, Ph.D.)
- Characterizing intergenerational resilience in pigs: Impacts of group-housing on epigenetic modifications associated with behavioral and physiological stress phenotypes (Cathy Ernst, Ph.D., Janice Siegford, Ph.D.)
- Effects of supplementing non-nutritive artificial sweeteners on weaned pigs (Kwangwook Kim, Ph.D.)
- Targeting Histamine to control early life GI inflammation and improve long-term health in pigs (Adam Moeser, DVM)
- Neuroimmune Mechanisms in Early Life Stress-Induced Gastrointestinal Disease (Adam Moeser, DVM)
- Immune-Mediated Alterations in Gut Nutrient Transport During Stress: Implications for Nutrient Utilization and Feed Efficiency in Pigs (Adam Moeser, DVM)

## TEACHING

The center regularly provides the facilities, swine or pork for numerous experiential learning

opportunities.

- Farm hosts 16 courses, across six departments and three colleges, hosting over 1,000 students annually and combining for nearly 4,000 student contact hours
- Teaching focus is on basic swine production, including but not limited to handling, health, reproduction, parturition, lactation, nutrition, genetics, welfare assessment, environmental stewardship, and human/animal interaction

## OUTREACH

The center regularly provides the venue and swine for a wide range of outreach events.

- Hosted an open house of group housing addition for stakeholders/pork producers
- Hosted representative Alyssa Slotkin
- Hosted Dr. Dale Rozeboom's retirement party and tours through group housing addition
- Provide pigs for the Block & Bridle Clubs Little International show
- Provide pigs for MSU Extension to use in E-RAIL (Emergency Responder) trainings

