

ANIMAL & DAIRY SCIENCES

Mississippi State University



OUR MISSION:

Our faculty are committed to serving the citizens of this state through teaching, research and extension programs.

Research and extension centers are located strategically throughout the state. Animal research facilities at the Leveck Animal Research Center, Bearden Dairy Cattle Research Center, Prairie Research Unit, Brown Loam Research Station, and the White Sands Unit give faculty opportunities to investigate the challenges facing the livestock industry.

Our Mission is to provide science-based solutions for animal agriculture through innovative and effective education, research and extension programming. Our Vision is Building the Future of Agriculture.

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SCHOLARSHIP IN THE LAND-GRANT MISSION



Dr. Erdogan Memili was hosted by Dr. Olga Bolden-Tiller of Tuskegee University and by Dr. Fernando Biase of Auburn University to explore collaborations in research, teaching and service between February 25 and 27, 2019. In addition, Dr. Memili gave a platform talk “Functional genomic and epigenomic markers of male fertility” at Tuskegee on February 26, 2019.



SPECIAL SEMINAR

Functional Genomic and Epigenomic Markers of Male Fertility

Presented by
Dr. Erdogan Memili, Professor (Mississippi State University)

When: Tuesday, 2/26/19
Time: 3:00PM

ADS 2221 STUDENTS TOUR THE CVM SMALL ANIMAL CLINIC



The new Animal & Dairy Sciences laboratory course, ADS 2221 Companion Animal Management Laboratory, got an up close look at what goes on behind the scenes at the College of Veterinary Medicine Small Animal Clinic. ADS 2221 laboratory toured last week the small animal clinic with Mrs. Julie Burt, Clinical Services Coordinator, and Dr. Carla Huston, CVM Pathobiology/Population Medicine Department, learning about what pet health care is available through the clinic including various diagnostic imaging options and specialized physical therapy programs. Students got to see firsthand treatment using laser therapy and the benefits of the various therapeutic options available for companion animals. As a part of the community-engaged learning activities associated with the course, ADS 2221 students will be volunteering this semester at the small animal clinic. The new laboratory course is taught this spring by Dr. Molly Nicodemus and graduate teaching assistant Dr. Muhammet Ugur. The course will be offered this summer. Individuals wanting more information about the course can contact Dr. Nicodemus at mnicodemus@ads.msstate.edu.

Above: ADS 2221 Students with instructor Dr. Molly Nicodemus learning about the benefits of aqua-therapy for canine surgical recovery.

Below: ADS 2221 Students during the CVM Small Animal Clinic Tour with tour guides Mrs. Julie Burt and Dr. Carla Huston.



LEGISLATIVE SHOWDOWN



Dixie National had a very successful Legislative Beef Cattle Showdown. They had over 25 teams of elected officials team up with a youth in the show who trained their Representative/Senator in how to show a beef animal.

The winners were Representative Vince Mangold (Agriculture Vice-Chair) and Mary Beth Ainsworth, Lawrence 4-H/North Pike FFA.

Above: The winners were Representative Vince Mangold (Agriculture Vice-Chair) and Mary Beth Ainsworth, Lawrence 4-H/North Pike FFA.



EQUESTRIAN TEAM - HEADED TO SEMI FINALS



Above: Hart Daniels

Below: Savanna Blackburn

Mississippi State University Equestrian Team:

We are headed to Semi-Finals! Congratulations to Savanna Blackburn and Hart Daniels! Savanna will compete in Beginner Horsemanship and Hart in Reining.

Semi-finals will be held in Ocala Fl March 16th and 17th.



PRESENTING: PARTICIPANTS OF THE DIXIE NATIONAL BEEF AND LAMB SHOW



PRESENTING: PARTICIPANTS OF THE DIXIE NATIONAL JR RODEO - DAIRY CATTLE & SWINE



DAIRY DAY at THE PARK

Join The Dairy Alliance and Mississippi State Extension
for a day of education and fun!

Saturday March 23

Mississippi State University Bearden Dairy Research Center,
2128 Turkey Creek Rd, Starkville MS 39759

EVENTS SCHEDULE

10:00 a.m. - The Dairy Alliance -
Mekenzie Panhans

10:30 a.m. - Dairy market outlook and how
to determine the right time to sell animals -
Dr. Josh Maples and Tori Marshall

11:00 a.m. - Prioritizing mental health along
with animal health - Dr. Amanda Stone

11:30 a.m. - Lunch and Dairy research
updates - Dr. Amanda Stone, Dr. Henry
Paz, Mauricio Xavier, Carly Becker

12:00 p.m. - Tour of MSU Bearden Dairy
Research Center - Kenneth Graves, Carly
Becker, Colby Hardin

12:30 p.m. - Leave for baseball game

All farm families are invited to join The Dairy Alliance at the baseball field to teach consumers about all things dairy. We will then enjoy watching Mississippi State Bulldogs take on the Auburn Tigers at 2 p.m. Admission to the game is covered by The Dairy Alliance.

RSVP to Mekenzie Panhans by March 20th | 404.210.4504 | mpanhans@thedairyalliance.com

**MISSISSIPPI STATE EQUESTRIAN TEAM
PRESENTS**

27

APRIL 2019

\$400

PER FOURSOME OR
\$100 INDIVIDUAL



GOLF

★ T O U R N A M E N T ★

MISSISSIPPI STATE UNIVERSITY GOLF COURSE

SHOTGUN START AT 1 PM / DINNER PROVIDED / SILENT AUCTION

2019 BASS CAT BOAT AND TV "HOLE IN ONE" PRIZES

- CASH PRIZES FOR 1ST THROUGH 3RD PLACE -

FREE WARRIOR GOLF CLUB AND GOODIE BAG FOR ALL PARTICIPANTS

FOR MORE INFORMATION AND REGISTRATION GO TO:

APP.EVENTCADDY.COM/EVENTS/PAR-FOR-THE-HORSE-84

OR CONTACT ASHLEY GLENN AES779@MSSTATE.EDU



UPCOMING EXTENSION EVENTS

Beef Extension - Dr. Brandi Karisch

March 11: Local/Grassfed Beef Workshop, MSU Meat Science Laboratory, Mississippi State, MS
March 14 - 16: MSU Artificial Insemination School, Animal and Dairy Sciences Department, MSU
April 26-27: ADS Alumni Weekend

Phone: (662) 325-7465 Email: brandi.karisch@msstate.edu
Beef Calendar: <http://extension.msstate.edu/livestock/beef/beef-calendar>

Dairy Extension - Dr. Amanda Stone

March 23: Dairy Day at the Park, Bearden Dairy Research Center, Starkville

Phone: (662) 325-8773 Email: amanda.stone@msstate.edu
Website: <http://extension.msstate.edu/dairy>

4-H Events - Dr. Dean Jousan

March 26: Mississippi Livestock Council Meeting, MCA Office, Jackson
April 5: State 4-H Dairy Judging Contest, MSU Bearden Dairy, Starkville

Phone: (662) 325-2424
Email: dj230@msstate.edu www Website: <http://extension.msstate.edu/4-h>

Equine Events - Dr. Clay Cavinder

April 6: HANDS ON HORSES, MAFES Horse Unit, Starkville, MS

Contact Dr. Cavinder for information about programs and events at (662) 325-7566 or
Email: clay.cavinder@msstate.edu

Website: <http://extension.msstate.edu/agriculture/livestock/equine/upcomingprograms>

2019 Refereed Publications

- Casey L. Durfey, Sabrina E. Swistek, **Shengfa F. Liao**, **Mark A. Crenshaw**, Henry J. Clemente, Rooban V. K. G. Thirumalai, Christy S. Steadman, **Peter L. Ryan**, **Scott T. Willard** and **Jean M. Feugang**. Nanotechnology-based approach for safer enrichment of semen with best spermatozoa. *Journal of Animal Science and Biotechnology*. (2019) 10:14. <https://doi.org/10.1186/s40104-018-0307-4>.
- Mayo, L. M., W. J. Silvia, D. L. Ray, B. W. Jones, **A. E. Stone**, I. C. Tsai, J. D. Clark, J. M. Bewley, and G. Heersche Jr. Automated estrous detection using multiple commercial precision dairy monitoring technologies in synchronized dairy cows. *Journal of Dairy Sciences*. 2019. J. Dairy Sci. 102:1–12. <https://doi.org/10.3168/jds.2018-14738>
- Yang, Zhongyue, Md. Shamimul Hasan, John K. Htoo, **Derris D. Burnett**, **Jean M. Feugang**, **Mark A. Crenshaw**, and **Shengfa F. Liao**. Effects of dietary supplementation of L-methionine vs. DL-methionine on performance, plasma concentrations of free amino acids and other metabolites, and myogenesis gene expression in young growing pigs. *Translational Animal Science*. Transl. Anim. Sci. 2019.3:113–123. doi: 10.1093/tas/txy109.
- Gastal, G.D.A., **J.M. Feugang**, F.L.N. Aguiar, G.M. Ishak, **C.A. Cavinder**, **S.T. Willard**, **P.L. Ryan**, E.L. Gastal. Effect of cryopreservation techniques on proliferation and apoptosis of cultured equine ovarian tissue. *Theriogenology*. <https://doi.org/10.1016/j.theriogenology.2018.11.034>.