



• Teaching • Research • Extension • Departmental Activities



Donna Rogers, Radiation Safety Officer



Dr. Jean Feugang

Biophotonics Group

Submitted by Dr. Jean Feugang



The Biophotonic Research Group has acquired a new IVIS Lumina XRMS series XIII for bioluminescence, fluorescence, and X-Ray imaging. This instrument is installed, fully functional, and ready to use for all aforementioned imaging of cellular, tissular, and live/dead animal systems.

Access to the system is granted upon attending the Radiation safety and live training classes. A training class was held today and more are to follow.

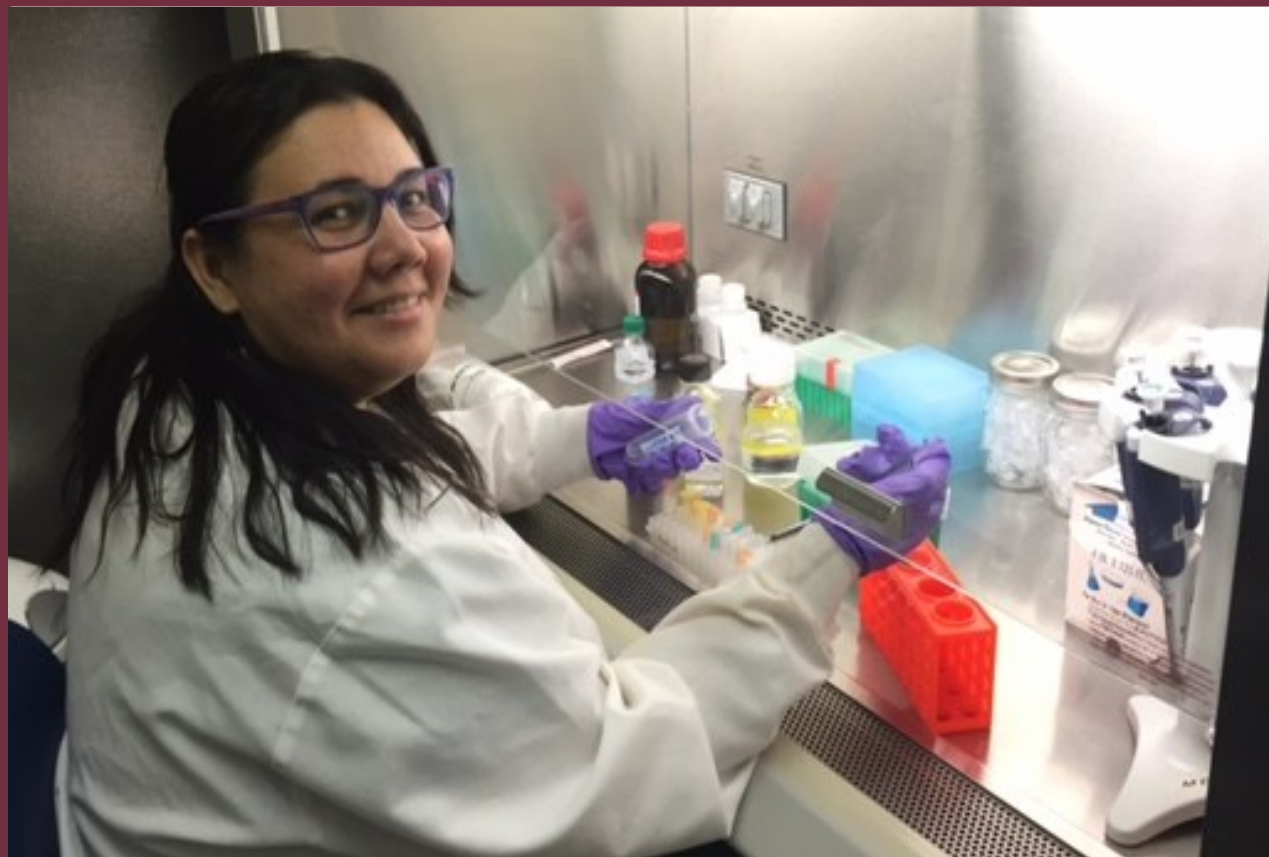


Junior and Senior 4-H State Livestock Judging Contests



Submitted by Dr. Dean Jousan

On Saturday, May 21, the junior and senior 4-H State Livestock Judging Contests were held at the MSU Horse Park. Mississippi FFA also had their state Livestock Judging Contests in conjunction with the 4-H contests. Altogether, nearly 150 youth competed in the combined event. There were 13 junior 4-H teams (54 juniors) and 9 senior 4-H teams (35 seniors) who competed. Youth judged 8 classes of livestock (two classes each of beef cattle, sheep, hogs, and goats) and gave oral reasons to defend their class placings. Senior 4-H'ers gave 4 sets of reasons, one on each species, while juniors were allowed to give reasons on any of the species. Both winning junior and senior teams were from Lincoln 4-H, and the high point winners of the junior and senior contests were siblings, Whitney Watts and Will Watts, respectively. The winning senior team will represent Mississippi 4-H at the 2017 Western National 4-H Roundup in Denver, CO. Thanks to **Mr. Brett Crow** and his former/current collegiate livestock judging team members for officiating the contest and listening to reasons. Also, thanks to the Department of Animal and Dairy Sciences for sponsoring a pizza lunch and water for all contestants and contest workers.



Graduate Fellowship Award

Submitted by Dr. Erdogan Memili



Dr. Erika Menezes, a postdoctoral research fellow in **Dr. Erdogan Memili's** research program, has been awarded a competitive fellowship to attend the 4th Annual Workshop on Metabolomics at University of Alabama at Birmingham (UAB). The course is jointly sponsored by the National Institute of General Medical Sciences as part of the NIH Common Fund Metabolomics initiative, and the Departments of Chemistry and Pharmacology and Toxicology at UAB. The four day workshop is scheduled to take place on the UAB campus July 17-21, 2016. The \$1,000 fellowship will cover Erika's travel and conference expenses.

Grant Award

Submitted by Dr. John Blanton



Congratulations to **Dr. Brandi Karisch** and **Mr. Cobie Rutherford** on receiving a SARE grant amount of \$83,185. Their project is titled "*Grass-Fed Beef in the Southeast: From Seed to Plant.*"



MSU Beef Unit Field Day

Submitted by Dr. Brandi Karisch

Sharing research with Mississippi's beef producers is a big part of what we do. It was a beautiful day at the Beef Unit for a field day. The ADS Meat Lab fed around 70 producers. Thank you to all the ADS faculty, students and staff that worked hard to make the field day a success!





Julie, Morgan and Matthew White



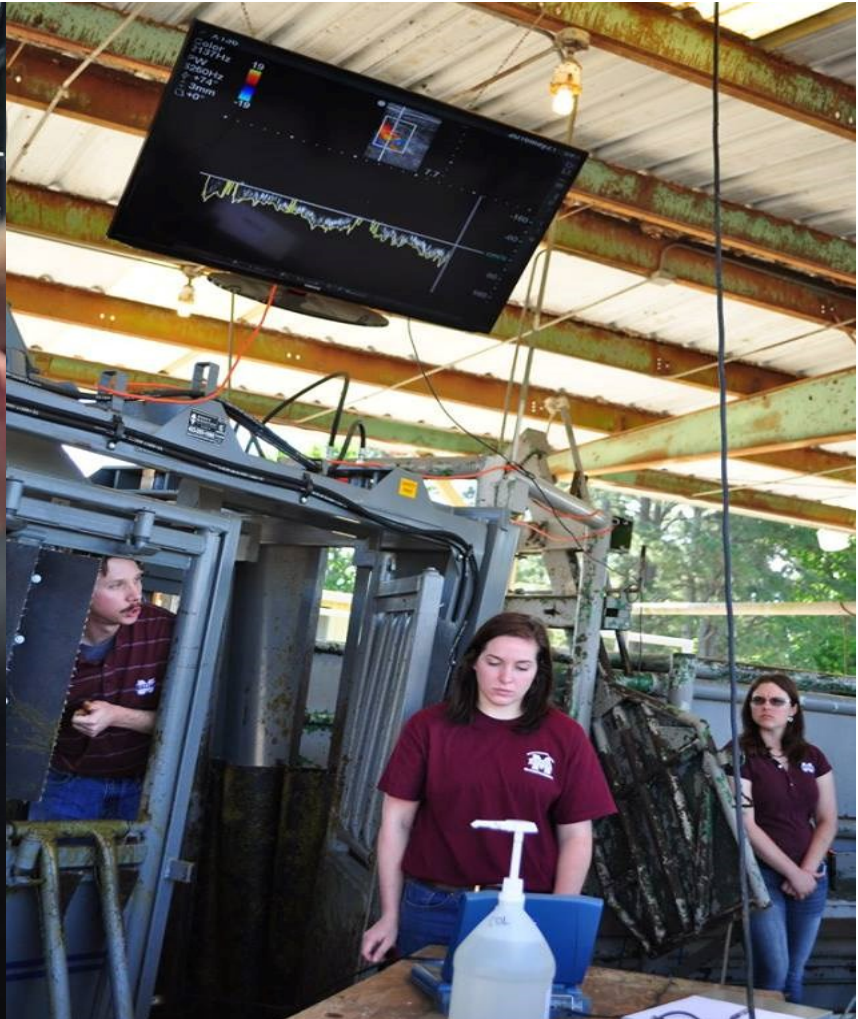
Producers & Dr. Gary Jackson, Dir. Of Ext.



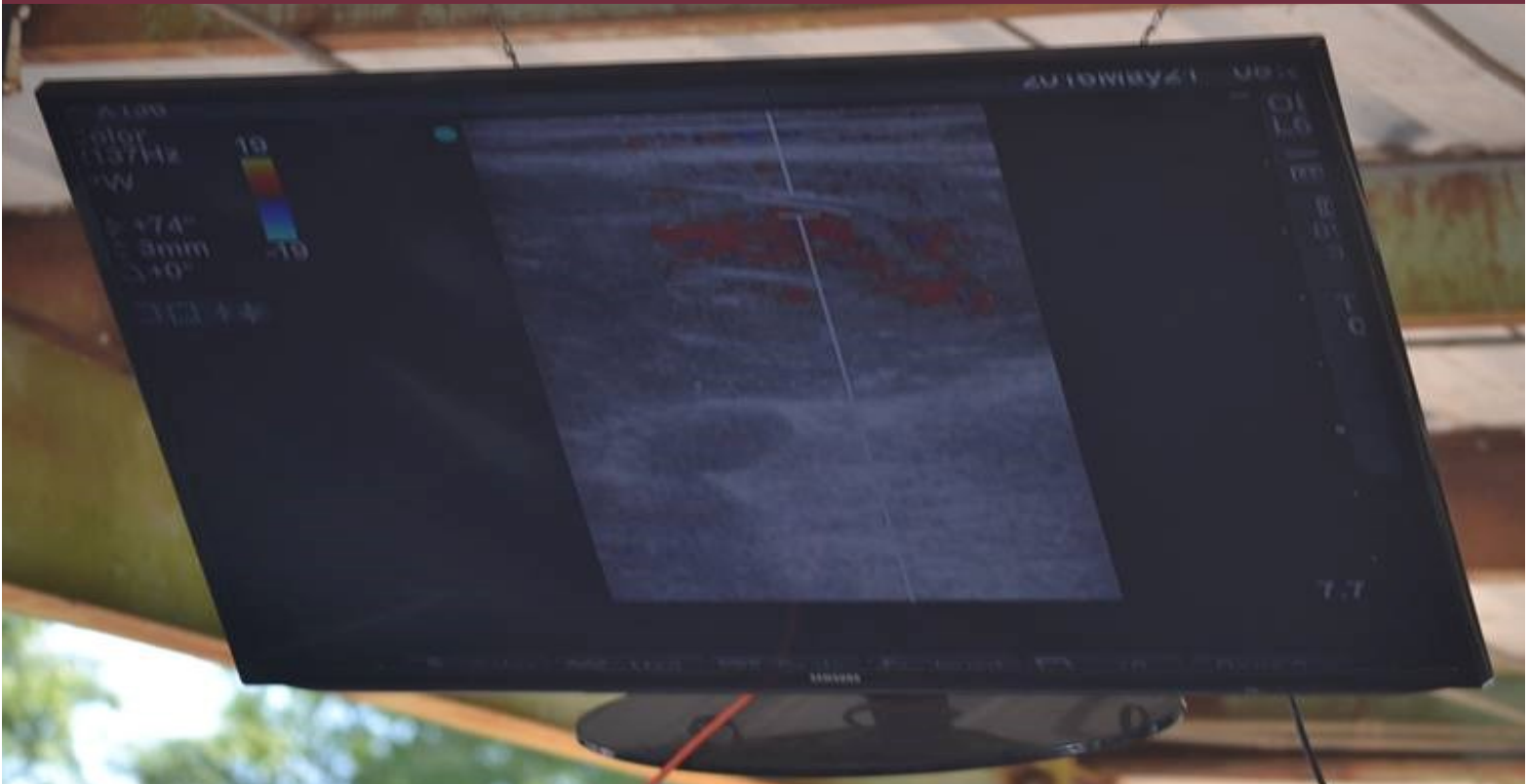
Dr. Brandi Karisch



Latham Brister & Liz Caldwell (standing)



Dr. Caleb Lemley, Keelee McCarty and Megan Coleson



Demonstration of Doppler Ultrasound Technology to measure blood flow.



Dr. Derris Burnett, Dr. Thu Dinh and Tim Armstrong



William White, Corey White, Michael Agar, Alex Holtcamp, Liz Caldwell, Dr. Brandi Karisch, Jake Penley, Latham Brister, Cody Glenn (l-r)

Graduate Seminar

MR. TAIJI WANG

1:00 PM * Monday, June 20, 2016

Wise 4043



Effects of dietary lysine on muscle gene expression and fatty acid profiles and the selected carcass characteristics and plasma hormone concentrations in late-stage finishing pigs

All faculty, staff, and students are invited to attend

2016 Refereed Publications:

- Mayer, J. J., J. D. Davis, J. L. Purswell, E. J. Koury, N. H. Younan, **J. E. Larson**, and T. M. Brown-Brandl. 2016. Development and characterization of a continuous tympanic temperature logging (CTTL) probe for bovine animals. *Transactions of the ASABE*. 59:703-714. (DOI: 10.13031/trans.59.11367).
- Gilfeather, CL and **CO Lemley**. 2016. Effects of Interferon-Tau and Steroids on Cytochrome P450 Activity in Bovine Endometrial Epithelial Cells. *Reproduction in Domestic Animals*, 51, 415–420 (2016); doi: 10.1111/rda.12695.
- Prezotto, L. D., L. E. Camacho, **C. O. Lemley**, F. E. Keomanivong, K. A. Vonnahme and K. C. Swanson, J. S. Caton. Nutrient restriction and realimentation in beef cows during early and mid-gestation and maternal and fetal hepatic and small intestinal in vitro oxygen consumption. *The Animal Consortium* 2015. doi:10.1017/S1751731115002645.
- Ye, G., J. Liu, Y. Liu, X. Chen, **S. F. Liao**, D. Huang, and K. Huang. 2016. Feeding glycerol-enriched yeast culture improves lactation performance, energy status, and hepatic gluconeogenic enzyme expression of dairy cows during the transition period. *J. Anim. Sci.* doi: 10.2527/jas.2015-0021.
- Cline, G. F., A. M. Muth-Spurlock, B. E. Voelz, **C. O. Lemley**, and **J. E. Larson**. 2016. Evaluating blood perfusion of the corpus luteum in beef cows during fescue toxicosis. *J. Anim. Sci.* 94:90-95.
- Brockus, K. E., C. G. Hart, C. L. Gilfeather, B. O. Fleming, **C. O. Lemley** (2016). Dietary melatonin alters uterine artery hemodynamics in pregnant Holstein heifers. *Domestic Animal Endocrinology*, 55, 1-10.
- Kaya, A., **E. Memili**. Sperm macromolecules associated with bull fertility. *Animal Reproduction Science*. (2016), <http://dx.doi.org/10.1016/j.anireprosci.2016.02.015>
- Hunt, M.R., J.F.Legako, **T.T.N. Dinh**, A.J.Garmyn, T.G.O'Quinn, C.H. Corbin, R.J. Rathmann, J.C. Brooks, M.F. Miller. Assessment of volatile compounds, neutral and polar lipid fatty acids of four beef muscles from USDA Choice and Select graded carcasses and their relationships with consumer palatability cores and intramuscular fat content. *Meat Science* 116 (2016) 91–101.
- Keomanivong, F. E., **C. O. Lemley**, L. E. Camacho, R. Yunusova, P. P. Borowicz, J. S. Caton, A. M. Meyer, K. A. Vonnahme and K. C. Swanson. Influence of nutrient restriction and melatonin supplementation of pregnant ewes on maternal and fetal pancreatic digestive enzymes and insulin-containing clusters. *Animal* (2016), 10:3, pp 440–448.
- Brockus, KE, CG Hart, BO Fleming, T Smith, **SH Ward** and **CO Lemley**. Effects of Supplementing Holstein Heifers with Dietary Melatonin during Late Gestation on Growth and Cardiovascular Measurements of their Offspring. *Reproduction in Domestic Animals*. 51, 240–247 (2016); doi: 10.1111/rda.12672 ISSN
- Vasquez, Erick S., **Jean M. Feugang**, **Scott T. Willard**, **Peter L. Ryan** and Keisha B. Walters. Bioluminescent magnetic nanoparticles as potential imaging agents for mammalian spermatozoa. *Journal of Nanobiotechnology*. (2016) 14:20.