



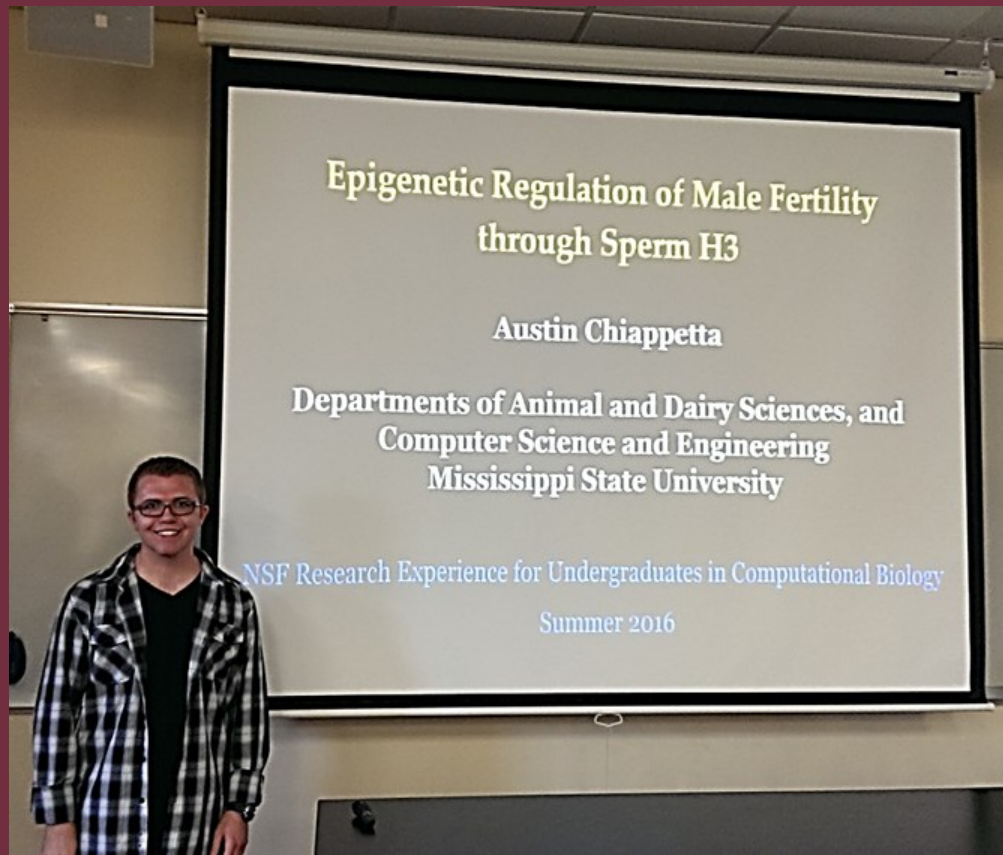
• Teaching • Research • Extension • Departmental Activities

Teaching and Research News

Submitted by Dr. Erdogan Memili



Austin Chiappetta, a junior biology and biochemistry double-major at the University of Northwestern (UNW) in St. Paul, MN, completed his mentored research in Dr. Memili's laboratory at the Department of Animal and Dairy Sciences (ADS). Austin presented his summer undergraduate research at MSU to the UNW Biology & Biochemistry faculty and research students at their monthly research meeting on September 19, 2016.



For his summer research in ADS, Austin had received a competitive fellowship through the National Science Foundation's (NSF) Research Experiences for Undergraduates (REU) Program on Computational Biology. His

research was aimed at elucidating epigenetic mechanisms regulating bull fertility using modern approaches in molecular, cell and developmental biology as well as in computational biology.

Working with his graduate mentor Naseer Kutchy and postdoctoral mentor Dr. Erika Menezes, Austin has generated new knowledge in functional genomics of bull fertility, and presented his research at MSU's Summer Undergraduate Research Symposium. Following his graduation from the UNW, Austin plans to pursue graduate studies in cell biology.



Mississippi State University Extension Beef

@MSStateExtBeef



Mississippi State University Extension Beef

October 11 at 7:14pm · 🌐

Mississippi State University Animal & Dairy Sciences Department Head, Dr. John Blanton addresses the pasture tour group.



Upcoming Extension Events

Beef Extension – Dr. Brandi Karisch Cobie Rutherford



- **MSU Artificial Insemination School**, Oct. 13-15, 2016
- **Mississippi Cattlemen's Association Cattlemen's College**, Oct. 27, 2017, Hattiesburg
- **Mississippi Cattlemen's Association Cattlemen's College**, Oct. 28, 2017, Batesville

Equine Events – Dr. Clay Cavinder



- **Ranch Horse Clinic** series is coming to Starkville in Spring 2017.
Be on the lookout for the official dates.

4-H Events – Dr. Dean Jousan



- **Mississippi State Fair**: October 6 - 17, 2016
- **National Association of Extension 4-H Agents (NAE4-HA) Annual Conference**, New Orleans, LA, Oct. 9-13, 2016
- **4-H Day at the State Fair**, Oct. 15, 2016

Dairy Events – Dr. Amanda Stone



- **Dairy Science Field Day**: March 17, 2017, Starkville
- **Bearden Dairy Research Center Open House**: May 20, 2017

ADS CLUBS and ORGANIZATIONS

Mississippi State University's

Equestrian Team



Fall Show Dates



**September 24: Berry College
2 Western**

**October 15-16: Berry College
2 Hunt Seat, 1 Western**

**October 29-30: Auburn University
1 Hunt Seat, 2 Western**

**November 12: Georgia College
1 Hunt Seat**



ADS CLUBS and ORGANIZATIONS

Support the MSU Equestrian Team on Facebook



Mississippi State University Equestrian Team

October 11 at 11:54am · 🌐

Want your very own MSU equestrian team gear? Check out the team's new shirts up for sale on JCG by following the link below and using the password "horse"

<https://www.facebook.com/msuequestrianteam/posts/1217357378287609>

← jcgstore.com SHARE

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equestrianteam - msstate - fundraiser - 6580
\$25.00
Deadline: Oct 24, 2018 10:00 pm

equestrianteam - msstate - fundraiser - 6498
\$25.00
Deadline: Oct 24, 2018 10:00 pm

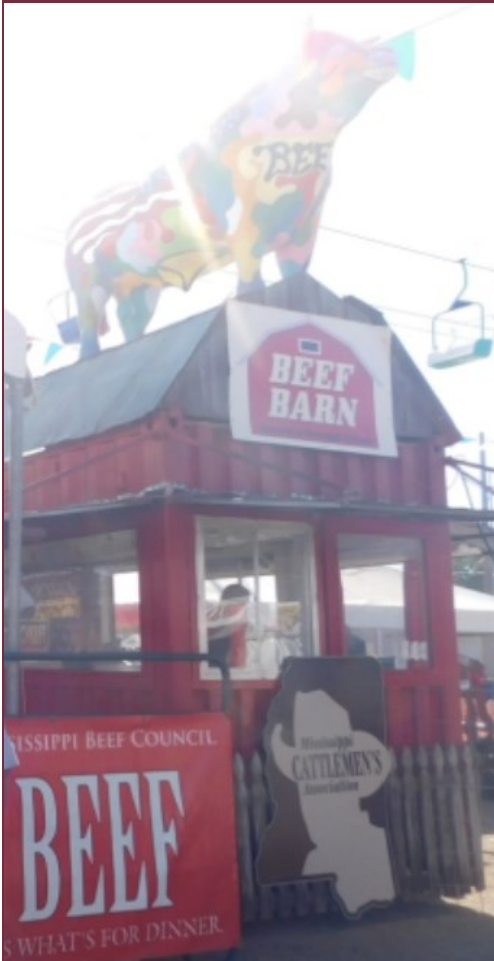
No shared items currently available.

Mississippi State University Collegiate Cattlemen's Association at the State Fair



Submitted by Dr. John Blanton

The MSU Cattlemen's Association is working their annual fundraiser at the Mississippi State Fair. They are cooking and selling Bully Burgers at the Beef Barn concession stand.



Renee Anderson, Sarah Byrd and Michael Agar



James Cannon, John Blanton, Derris Burnett, Tim Armstrong, Trent Smith

2016 Refereed Publications:

- Lamb, G. C., PAS, V. R. G. Mercadante, D. D. Henry, P. L. P. Fontes, C. R. Dahlen, **J. E. Larson**, and N. DiLorenzo. Invited Review: Advantages of current and future reproductive technologies for beef cattle production. *The Professional Animal Scientist* 32 (2016):162–171; <http://dx.doi.org/10.15232/pas.2015-01455>.
- Regmi, Naresh, Taiji Wang, **Mark A. Crenshaw**, **Brian J. Rude**, Guoyao Wu, **Shengfa F. Liao**. Effects of dietary lysine levels on plasma free amino acid profile in late-stage finishing pigs. *SpringerPlus* (2016) 5:888, DOI 10.1186/s40064-016-2463-3.
- 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.