

# Animal & Dairy Sciences Newsletter Vol. 91



# MISSISSIPPI STATE UNIVERSITY

## *Features*

**CALF COLLEGE - 2**

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**BQA WOMEN TRAINING - 3**

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**SOUTHERN PRODUCERS  
REPLACEMENT HEIFER SALE - 4**

---

**#DIDYOUKNOW - 5**

---

**#DIDYOUKNOW - 6**

---

**SCHEDULE A VISIT - 7**

---

**UPCOMING EVENTS - 8**

# CALF COLLEGE

## Calf College 2018

### GUEST SPEAKERS

#### Calf Health

- Dr. Brett and Dr. Tamor

#### Calf Housing and Behavior

- Dr. Krawczel, University of Tennessee

#### Calf Nutrition

- To Be Determined



### Thursday | 9.20.18

Room 201 of Lincoln County  
Extension Office  
301 S. 1st Street  
Brookhaven, MS 39601  
10 AM to 2 PM

### Friday | 9.21.18

Room 4044 of Wise Center  
240 Wise Center Drive  
Mississippi State, MS 39762  
10 AM-2 PM

\*Lunch will be provided for both  
workshops\*



MISSISSIPPI STATE  
UNIVERSITY.

EXTENSION

FOR MORE INFORMATION,  
CONTACT AMANDA STONE AT  
AMANDA.STONE@MSSTATE.EDU

# BQA WOMEN TRAINING



Mississippi State University Extension Beef shared Mike Russell Farmweek's video.



May 24 at 7:22pm · 🌐

Check out this story featuring last months Cattle Handling and Advanced BQA for Women Producers!



1,721 Views

Mike Russell Farmweek

May 24 at 10:52am · 🌐

👍 Like Page

STEERED STRAIGHT -- So what's a woman to do if she wants to learn the day-to-day basics of a livestock operation, but has no one willing to teach her? A recent Extension-sponsored training "For Women Only" provided a unique learning experience.

👍 Like

💬 Comment

➦ Share



[https://www.facebook.com/FarmWeekMike/videos/1037213223097988/?hc\\_ref=ARQVJT2-7AD6Oro-Qb9gPPbXjBuAph\\_GBobjZmGZGGm64mAMkgA8sl77ka6sio\\_3k4](https://www.facebook.com/FarmWeekMike/videos/1037213223097988/?hc_ref=ARQVJT2-7AD6Oro-Qb9gPPbXjBuAph_GBobjZmGZGGm64mAMkgA8sl77ka6sio_3k4)

# SOUTHERN PRODUCERS REPLACEMENT HEIFER SALE



**Mississippi State University Extension Beef** added an event.



May 16 at 10:36am · 🌐

The 17th Annual Southern Producers Replacement Heifer Sale will feature 250 of Mississippi's best bred heifers.



**AUG**  
**25**

**Southern Producers Bred Heifer Sale**

Sat 1 PM · Southeast Mississippi Livestock · ...  
58 people interested

★ Interested

Like

Comment

Share



# #DIDYOUKNOW



## Balanced Cows, Better Beef

The personality of livestock may seem secondary to productiveness, but research shows that the two may be connected. Cow temperament is correlated with how much money the cow brings in and how frequently it gets sick. Poor-tempered cattle are also known to produce less marbling and tougher beef. In an on-going study at the Brown Loam Research Station, researchers have studied the link between a cow's temperament and performance. Dr. Rhonda Vann, research professor in the Department of Animal and Dairy Sciences and the Experiment Station, pioneered work on this front.

# #DIDYOUKNOW



## Happy Mom, Happy Calf

Melatonin is a hormone our body naturally produces. Melatonin as a supplement is considered an antioxidant. While many people may take melatonin for a good night's rest, researchers in the Mississippi Agricultural and Forestry Experiment Station are evaluating how melatonin supplements might help pregnant Holstein heifers give birth to healthier calves.

Dr. Caleb Lemley, assistant professor in the Department of Animal and Dairy Sciences, along with two graduate and two undergraduate researchers, studied how melatonin supplementation affected blood flow between dam and calf during gestation.

# ATTENTION FUTURE ADS MAJORS!

Future student make sure to schedule a visit to come tour and see what Animal and Dairy Sciences has to offer.

<http://www.ads.msstate.edu/visit.asp>

## Schedule a Visit

Thank you for your interest in the Department of Animal and Dairy Sciences. If you would like to schedule a visit to find out more information about our department, please fill out the form below.

Name

Phone

Email

Date you would like to attend

Number of Students

Number of Guests

**BEEF EXTENSION - Dr. Brandi Karisch and  
Cobie Rutherford**



**June 20-23: Beef Improvement Federation Meetings,  
Loveland, CO**

**July 13: Deep South Stocker Conference  
Greenboro, AL**

**EQUINE EVENTS - Dr. Clay Cavinder**



For info on Events, call (662) 325-7466 or email  
[clay.cavinder@msstate.edu](mailto:clay.cavinder@msstate.edu)

**4-H EVENTS - Dr. Dean Jousan**



**June 7-8: District 4-H Horse Show and Judging  
Contest in Jackson, Tunica, Gulfport, Verona**

**DAIRY EXTENSION - Dr. Amanda Stone**



**July 16-July 18: Cow Camp 2018**

**September 20: Calf College 2018- in Brookhaven &  
September 21 in Starkville**

**October 27-28: Breakfast on the Farm, Bearden  
Dairy, Starkville**





## 2018 Refereed Publications

- Hart, CG, BE Voelz, KE Brockus, **CO Lemley**. Hepatic steroid inactivating enzymes, hepatic portal blood flow and corpus luteum blood perfusion in cattle. *Reproduction in Domestic Animals*. 2018;53:751–758.
- Camacho, L.E., **C.O. Lemley**, S.T. Dorsam, K.C. Swanson, K.A. Vonnahme. Effects of maternal nutrient restriction followed by realimentation during early and mid-gestation in beef cows. II. Placental development, umbilical blood flow, and uterine blood flow responses to diet alterations. *Theriogenology*. <https://doi.org/10.1016/j.theriogenology.2018.04.013>.
- Lemley, C.O.**, L.E. Camacho, D.M. Hallford, K.A. Vonnahme. Uteroplacental secretion of progesterone and estradiol 17beta in an ovine model of intrauterine growth restriction. *Animal Reproduction Science*. 193 (2018) 68-78. <https://doi.org/10.1016/j.anireprosci.2018.04.001>.
- T. Williams, **B. Rude**, **S. Liao**, C. Mochal-King, **M. Nicodemus**. Effects of fat supplementation on plasma glucose, insulin and fatty acid analysis in ponies maintained on a forage- based diet. *Journal of Animal Physiology and Animal Nutrition*. 2018;1–8. DOI: 10.1111/jpn.12905.
- Gastal, G.D.A., **J.M. Feugang**, F.L.N. Aguiar, A.P.R. Rodrigues, J.M. Scimeca, G.A. Apgar, W.J. Banz, E.L. Gastal. Cryopreservation and in vitro culture of white-tailed deer ovarian tissue. *Theriogenology*. 113 (2018) 253-260.
- Velho, Ana Luiza Cazaux, Einko Topper, Erika Menezes, **Thu Dinh**, Abdullah Kaya, Arlindo Alencar Moura, **Erdogan Memili**. Metabolomic markers of fertility in bull seminal plasma. *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0195279>.
- Owen, MPT , EN Ferjak, **CA Cavinder**, KJ McCarty, KC Yankey, CG Hart, **DD Burnett**, **TTN Dinh**, **CO Lemley**. Effects of body condition score (BCS) on steroid- and eicosanoid- metabolizing enzyme activity in various mare tissues during winter anoestrus. *Reproduction in Domestic Animals*. 2018;53:296–303. <https://doi.org/10.1111/rda.13104>.
- Park, Seong B., **Scott T. Willard**, Christy S. Steadman, Atul A. Chaudhari, Shreekumar R. Pillai, Shree R. Singh, **Peter L. Ryan** and **Jean M. Feugang**. Proteomic analysis of antimicrobial effects of pegylated silver coated carbon nanotubes in Salmonella enterica serovar Typhimurium. *Journal of Nanobiotechnology*. (2018) 16:31 <https://doi.org/10.1186/s12951-018-0355-0>.
- Cavinder, C. A.**, PAS, E. N. Ferjak, C. A. Phillips, **D. D. Burnett**, and **T. T. N. Dinh**. REVIEW: The importance of overall body fat content in horses. *The Professional Animal Scientist* 34:125–132. <https://doi.org/10.15232/pas.2017-01708>.
- Sukumaran, Anuraj T. , Alexander J. Holtcamp, April K. Englishbey, Yan L. Campbell, Taejo Kim, Mark W. Schilling, **Thu T.N. Dinh**. Effect of deboning time on the growth of Salmonella, E. coli, aerobic, and lactic acid bacteria during beef sausage processing and storage. *Meat Science* 139 (2018) 49–55.
- Wang, T., **M. A. Crenshaw**, N. Regmi, **B. J. Rude**, M. S. Hasan, A. T. Sukumaran, **T. Dinh**, and **S. F. Liao**. 2018. Effects of dietary lysine level on the content and fatty acid composition of the intramuscular fat in late-stage finishing pigs. *Canadian Journal of Animal Science*. 98: 241-249. DOI: [dx.doi.org/10.1139/cjas-2017-0083](https://doi.org/10.1139/cjas-2017-0083).
- Owen, M.P.T., K.J. McCarty, C.G. Hart, C.S. Steadman, **C.O. Lemley**. Endometrial blood perfusion as assessed using a novel laser Doppler technique in Angus cows. *Animal Reproduction Science*. 190 (2018) 119-126. <https://doi.org/10.1016/j.anireprosci.2018.01.015>.

## 2018 Refereed Publications

**Feugang, Jean M. , Shengfa F. Liao, Scott T. Willard, and Peter L. Ryan.** In-depth proteomic analysis of boar spermatozoa through shotgun and gel-based methods. *BMC Genomics*. (2018) 19:62 DOI 10.1186/s12864-018-4442-2.

**Liao, Shengfa F.,** Naresh Regmi, Guoyao Wu. Homeostatic Regulation of Plasma Amino Acid Concentrations. *Frontiers in Bioscience, Landmark*. 23, 640-655, January 1, 2018.

## 2018 Book Chapters:

Jain, Sapna, Seong B. Park, Shreekmar R. Pillai, **Peter L. Ryan**, **Scott T. Willard** and **Jean M. Feugang**. Applications of Fluorescent Quantum Dots for Reproductive Medicine and Disease Detection. In *Unraveling the Safety Profile of Nanoscale Particles and Materials—From Biomedical to Environmental Applications*, Chapter 6, pp. 133-148, <http://dx.doi.org/10.5772/intechopen.72978>.