

Animal & Dairy Sciences Newsletter Vol. 89



MISSISSIPPI STATE UNIVERSITY

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DR. THU DINH IS THE MEATMAN

This summer, Dr. Thu Dinh will conduct meat cooking demonstrations at Vowell's.

ASK THE MEATMAN
on Facebook  

Sponsored by **Vowell's** MARKET PLACE

Dr. Thu Dinh
MSU Animal & Dairy Sciences
Ph. (662) 325-7554
Email: thu.dinh@msstate.edu



MEATUP



Guide to beef, pork, lamb, and veal cuts found in supermarkets, including cooking tips and recipes. FREE APP on itunes.apple.com

How do you choose your steaks?



GOOD or BAD?



WHAT AFFECTS BEEF TENDERNESS?

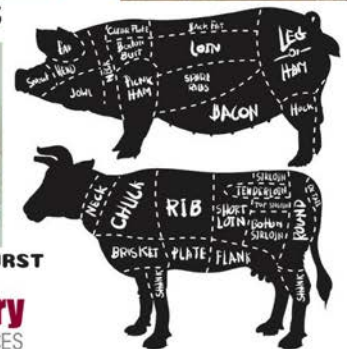
- Anatomical differences: locomotion vs. support
- Connective Tissues
- Age
- Breed, species

MSU ADS MEAT LAB PRODUCTS

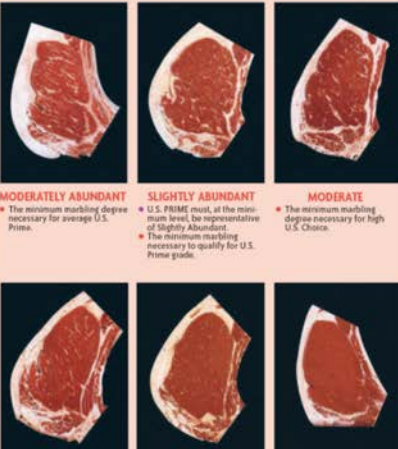


GROUND BEEF, PORK CHOP, EDAM CHEESE BRATWURST

 **MISSISSIPPI STATE UNIVERSITY** **Animal and Dairy** SCIENCES



MARBLING



MODERATELY ABUNDANT
• The minimum marbling degree necessary for average U.S. Prime.

SLIGHTLY ABUNDANT
• U.S. PRIME must, at the minimum level, be representative of Slightly Abundant.
• The minimum marbling necessary to qualify for U.S. Prime grade.

MODERATE
• The minimum marbling degree necessary for high U.S. Choice.

MODEST
• The minimum marbling degree necessary for average U.S. Choice.

SMALL
• U.S. CHOICE must, at the minimum level, be representative of Small.
• The minimum marbling necessary to qualify for U.S. Choice grade.

SLIGHT
• U.S. SELECT must, at the minimum level, be representative of Slight.

4-H COMPETITION



Mississippi State University Extension Beef



May 19 at 8:57am · 🌐

Over 100 4-H members are competing today at the Livestock Judging contest!



👍 Like

💬 Comment

➦ Share



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

JUNIOR AND SENIOR 4-H STATE LIVESTOCK JUDGING CONTEST RESULTS

The Junior and Senior State 4-H Livestock Judging Contest, held on May 19 at the MSU South Farm, ran extremely smooth and those that assisted with the contests are to be commended. In the junior livestock judging contest, we had 47 contestants and 12 teams, while the senior contest had 46 contestants and 10 teams.

Congratulations to the junior team from Pontotoc County who won 1st place and to the senior team from Lincoln County for winning the senior livestock judging contest. An extensive list of photographs can be found on the Mississippi 4-H Livestock and Horse Programs Facebook page located at <https://www.facebook.com/Mississippi-4-H-Livestock-and-Horse-Programs-763274590406280/?ref=bookmarks>.

Thanks to the contest sponsors - Mississippi Beef Council and Mississippi Pork Producers Association.

A big thank you goes to Strickland Show Lambs, B&W Show Goats, and Clear Water Cattle, LLC, for providing classes of crossbred ewes, wether dam does, and Charolais bulls and heifer calves for youth to evaluate during the contest. Finally, thank you to Brett Crow and his judging team members (past and present) for officiating the contest.

JUNIOR AND SENIOR 4-H STATE LIVESTOCK JUDGING CONTEST RESULTS

1ST PLACE JUNIOR TEAM



Pontotoc 4-H
(L-R)
Leighton Horton
Ty Franklin
Molly Randle
Grace Randle

JUNIOR AND SENIOR 4-H STATE LIVESTOCK JUDGING CONTEST RESULTS

HIGH POINT INDIVIDUAL - JUNIORS



Back row (L - R)

1st Place: Ian Johnson, Lincoln 4-H; 2nd Place: Ethan McCreary, Lee 4-H; 3rd Place: Sadee Dickens, Covington 4-H; 4th Place: Ty Franklin, Pontotoc 4-H.

Front row (L to R): 5th Place: Melanie Sanders, Marion 4-H; 6th Place: Ayden Wolken, Simpson 4-H; 7th Place: Dylan Harper, Lowndes 4-H (not pictured); 8th Place: Kaci Ladner, Pearl River 4-H; 9th Place: Leighton Horton, Pontotoc 4-H; 10th Place: Jorja Roberson, Union 4-H.

JUNIOR AND SENIOR 4-H STATE LIVESTOCK JUDGING CONTEST RESULTS

1ST PLACE - SENIOR TEAM



(L - R)

Lincoln 4-H:
Jennifer Williams
(Extension agent),
Whitney Watts,
Kathryn Johnson,
Laney Anderson,
Madelyn Boyd, Will
Watts (volunteer)

JUNIOR AND SENIOR 4-H STATE LIVESTOCK JUDGING CONTEST RESULTS

HIGH POINT INDIVIDUALS - SENIORS



Front row (L to R):
1st Place: Kathryn Johnson, Lincoln 4-H; 2nd Place: Marlee Turner, Alcorn 4-H; 3rd Place: Sarah Hancock, Jones 4-H; 4th Place: Chad Sappington, Marion 4-H; 5th Place: Mary Beth Ainsworth, Lawrence 4-H.

Back row (L to R):
6th Place: Whitney Watts, Lincoln 4-H; 7th Place: Tucker Woods, Covington 4-H; 8th Place: Tatum Madden, Covington 4-H; 9th Place: Madelyn Boyd, Lincoln 4-H; 10th Place: Levi Sides, Alcorn 4-H (not pictured).

**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



**June 1-3 Youth Horse Judging Camp,
MSU, Starkville**

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



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

UPCOMING EVENTS

2018 Refereed Publications

- 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>.
- 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>.