

# RIDING THE RANGE

**EXPLORE EDUCATION, RESEARCH AND EXTENSION EFFORTS TO BUILD THE FUTURE OF AGRICULTURE**

335 WISE CENTER DRIVE  
MISSISSIPPI STATE, MISSISSIPPI 39762  
(662) 325-2802

JOHN BLANTON JR., PH.D.  
PROFESSOR & DEPARTMENT HEAD  
<https://www.ads.msstate.edu/>

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## ***2020 Dixie National Junior Round-Up Dairy Show Photo***

*Courtesy of Jeff Homan and Amble Thompson:  
<https://www.jefflhoman.com/>.*



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DEPARTMENT OF ANIMAL  
AND DAIRY SCIENCES



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# ADS FACULTY/STAFF BUSY DURING COVID-19

During the current shelter-in-place mandate during the COVID-19 (Coronavirus) pandemic, the faculty and staff of the Department of Animal and Dairy Sciences are continuing to teach their classes and laboratories in an online format. Plans are underway to teach all summer classes in this manner as well. Our departmental seminar still takes place each week utilizing WebEx, and we have weekly faculty meetings via Microsoft Teams to ensure we are prepared for the upcoming challenges and opportunities with our students and clientele.

While research has stopped during the shelter-in-place, graduate students and researchers are hard at work on analyzing data to write manuscripts and plan future studies. Our ADS farm crews are to be commended for their continued work to care for our research and production livestock as well.

To learn about ways to prevent the spread of this illness, visit the website for Mississippi State University Extension where tips can be reviewed along with resources and videos - <https://extension.msstate.edu/food-and-health/health/coronavirus>.



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# SHARING SWINE RESEARCH WITH MPPA

The annual meeting of the Mississippi Pork Producers Association (MPPA) was held at Lake Tiak O'Khata near Louisville, MS, on March 14, 2020. Representing the swine science group of the Department of Animal and Dairy Sciences this year were Dr. Shengfa Liao, Mr. Shamimul Hasan, and Ms. Rebecca Humphrey. This meeting reviewed and discussed the business of current hog production in Mississippi, current industry trends, and the 2020 Dixie National Junior Round-Up MS Bred Swine Shows. Dr. Liao presented *"Swine Research Program at Mississippi State University: 2020 Update,"* which covered the research activities at Mississippi State University over the past year concerning swine nutrition and production as well as the various peer-reviewed publications generated by the swine science group in ADS.

The short- and long-term research goals of the group were also reiterated by Dr. Liao. At the end, Mr. Hasan and Ms. Humphrey both briefly presented their respective graduate research projects to the MPPA delegates. As Dr. Liao recalled, this group has attended the MPPA annual meeting every year since 2013.



**Drs. Mark Crenshaw and Shengfa Liao at the Annual MS Pork Producers Association Meeting**

*Submitted by Rebecca Humphrey*

# PHOTO CONTRIBUTION FROM SAMMY BLOSSOM



**Sammy Blossom is an alumnus of ADS and captured many photos during his 16-year career with the Mississippi Cattlemen’s Association. Here is a photo from his collection of ranchers on horseback penning cattle as the sun rises on a new day.**

Photo courtesy of Sammy Blossom Photography: <https://www.sammyblossomphotography.com/>.



# DNJR MARKET STEER SHOW

The 2020 Dixie National Junior Round-Up Market Steer Show included 106 steers shown by 98 4-H and FFA youth. There were 33 English steers, 24 American steers, and 49 European steers.



**Grand Champion Steer:** Exhibited by Drew & Russ Wagner, Newton 4-H/FFA. Buyers: Blue Cross/Blue Shield of MS; Haley & Marsha Barbour; Ergon.

**Reserve Grand Champion Steer:** Exhibited by Hannah Katherine Jones, Madison 4-H. Buyers: MS Farm Bureau Federation; SFB Casualty Insurance Company; SFB Life Insurance Company; MS FB Casualty Insurance Company; Tico's Steakhouse; N&W Construction Co.; TeleSouth Communications; Matthews, Cutrer & Lindsay; Farm Bureau Bank; First Financial Bank; Hilton.





# DNJR COMMERCIAL BEEF HEIFER SHOW

The 2020 Dixie National Junior Round-Up Commercial Beef Heifer Show included 147 commercial beef heifers shown by 155 4-H and FFA youth. There were 64 English heifers, 47 American heifers, and 36 European heifers.



**Supreme Champion Commercial Beef Heifer:** Exhibited by Jace Welborn, Jasper 4-H. Jace received a \$1,500 scholarship through the Sale of Junior Champions.

**Look for more highlights from the 2020 Dixie National Junior Round-Up in future editions of Ride the Range.**



# DNJR BEEF BREEDING SHOW

The 2020 Dixie National Junior Round-Up Beef Breeding Show included 636 beef breeding cattle shown by 399 4-H and FFA youth. For a breakdown of the beef breeding champions and numbers shown in each breed, go to the March 2020 Animal Lines Newsletter: <http://extension.msstate.edu/newsletters/4h-animal-lines-newsletters>.

## Supreme Champion Beef Breeding Female (Angus)

Exhibited by Dalton Cooper, Union 4-H



## Supreme Champion Beef Breeding Bull (Hereford)

Exhibited by Walker McGuffie, Simpson 4-H





# DNJR DAIRY CATTLE SHOW

The 2020 Dixie National Junior Round-Up Dairy Cattle Show included 118 dairy cattle shown by 53 4-H and FFA youth. There were 42 Holsteins, 66 Jerseys, and 10 Other Dairy Breeds cattle in the show.



**Supreme Champion Dairy Cattle Female:** Exhibited by Lee Taylor, Prentiss 4-H. Lee received a \$1,500 scholarship through the Sale of Junior Champions.



# DNJR COMMERCIAL DAIRY HEIFER SHOW

The 2020 Dixie National Junior Round-Up Commercial Dairy Heifer Show included 28 commercial dairy heifers shown by 28 4-H and FFA youth.



**Champion Commercial Dairy Heifer:** Exhibited by Cambree Brumfield, Walthall 4-H.

# 2020 REFEREED PUBLICATIONS

- To, K.V., X. Zhang, W. Shao, J.D. Hendrix, M.D. Byron, Y.L. Campbell, T.W. Phillips, **T. Dinh**, and M.W. Schilling. 2020. The effects of dry-cured ham initial water activity on *Tyrophagus putrescentiae* infestations. *Journal of Stored Products Research*. 87:101069. <https://www.sciencedirect.com/science/article/abs/pii/S0022474X20300540?via%3Dihub>
- Bowman, B.A., M.D. Denny, and **A.E. Stone**. 2020. Exploring Producer Innovation Adoption Using an Extension-Led Trialing Program. *Journal of Extension*. 58(1): v58-1rb2. <https://joe.org/joe/2020february/rb2.php>.
- Özbek, M., M. Hitit, E. Ergün, L. Ergün, F. Beyaz, F. Erhan, N. Yildirim, B. Kandil, O. Özgenç, and **E. Memili**. 2020. Expression profile of Toll-like receptor 4 in rat testis and epididymis throughout postnatal development. *First International Journal of Andrologia*. 00:e13518. <https://doi.org/10.1111/and.13518>.
- Gomes, F. P., J. K. Diedrich, A. J. Saviola, **E. Memili**, A. Moura, and J. R. Yates III. 2020. EThcD and 213 nm for top-down analysis of bovine seminal plasma proteoforms on electrophoretic and chromatographic time frames. *Analytical Chemistry*. 92(4): 2979-2987. <https://pubs.acs.org/doi/10.1021/acs.analchem.9b03856>.
- Ugur, M. R., **T. Dinh**, M. Hitit, A. Kaya, E. Topper, B. Didion, and **E. Memili**. 2020. Amino acids of seminal plasma associated with freezability of bull sperm. *Frontiers in Cell and Developmental Biology*. 7(347). <https://www.frontiersin.org/articles/10.3389/fcell.2019.00347/full>.
- Hasan, M.S., **M.A. Crenshaw**, and **S.F. Liao**. 2020. Dietary lysine affects amino acid metabolism and growth performance, which may not involve the GH/IGF- axis, in young growing pigs. *Journal of Animal Science*. 98(1): 1-7. <https://academic.oup.com/jas/article/98/1/skaa004/5700336>.

***Dr. Dean Jousan, Editor of Riding the Range, a newsletter produced by the Department of Animal and Dairy Sciences at Mississippi State University***

***P: 662-325-2424; Email: [dean.jousan@msstate.edu](mailto:dean.jousan@msstate.edu)***

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