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- Association of single nucleotide polymorphisms in the leptin gene with body weight and backfat growth curve parameters for beef cattle. *J. L. Lusk* 1865

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- Genetic parameters for measures of the efficiency of gain of boars and the genetic relationships with its component traits in Duroc pigs. *M. A. Hoque, H. Kadowaki, T. Shibata, T. Oikawa, and K. Suzuki* 1873
- Comparison of estimates of hip dysplasia genetic parameters in Estrela Mountain Dog using linear and threshold models. *A. M. Silvestre, M. M. D. Ginja, A. J. A. Ferreira, and J. Colaço*..... 1880
- Bovine respiratory disease in feedlot cattle: Phenotypic, environmental, and genetic correlations with growth, carcass, and longissimus muscle palatability traits. *G. D. Snowden, L. D. Van Vleck, L. V. Cundiff, G. L. Bennett, M. Koohmaraie, and M. E. Dikeman*.... 1885

ANIMAL GROWTH, PHYSIOLOGY, AND REPRODUCTION

Growth and Developmental Biology

- Effect of ractopamine-hydrochloride and trenbolone acetate on longissimus muscle fiber area, diameter, and satellite cell numbers in cull beef cows. *J. M. Gonzalez, J. N. Carter, D. D. Johnson, S. E. Ouellette, and S. E. Johnson* 1893
- Intramuscular fat deposition in principal muscles from twenty-four to thirty months of age using identical twins of Japanese Black steers. *T. Okumura, K. Saito, H. Sakuma, T. Nade, S. Nakayama, K. Fujita, and T. Kawamura* 1902

Physiology, Endocrinology, and Reproduction

- Intravaginal impedance and sexual behavior of ovariectomized goats given estrogen alone or in combination with progesterone. *D. B. Imwalle, A. R. Lehrer, and L. S. Katz* 1908
- Vascularity and expression of angiogenic factors in bovine dominant follicles of the first follicular wave. *A. T. Grazul-Bilska, C. Navanukraw, M. L. Johnson, K. A. Vonnahme, S. P. Ford, L. P. Reynolds, and D. A. Redmer* 1914
- Evaluation of classification modes potentially suitable to identify metabolic stress in healthy dairy cows during the peripartur period. *S. Hachenberg, C. Weinkauf, S. Hiss, and H. Sauerwein* 1923
- Comparison of progestin-based estrus synchronization protocols before fixed-time artificial insemination on pregnancy rate in beef heifers. *D. C. Busch, D. J. Wilson, D. J. Schafer, N. R. Leitman, J. K. Haden, M. R. Ellersieck, M. F. Smith, and D. J. Patterson* 1933
- Comparison of progestin-based protocols to synchronize estrus and ovulation before fixed-time artificial insemination in postpartum beef cows. *D. J. Schafer, J. F. Bader, J. P. Meyer, J. K. Haden, M. R. Ellersieck, M. C. Lucy, M. F. Smith, and D. J. Patterson* 1940

ANIMAL NUTRITION

Nonruminant Nutrition

- Corn expressing an *Escherichia coli*-derived phytase gene: A proof-of-concept nutritional study in pigs. *E. K. D. Nyannor, P. Williams, M. R. Bedford, and O. Adeola* 1946

Meta-analysis of phosphorus balance data from growing pigs. <i>M. Schulin-Zeuthen, E. Kebreab, W. J. J. Gerrits, S. Lopez, M. Z. Fan, R. S. Dias, and J. France</i>	1953
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Ruminant Nutrition

Effects of exogenous cellulase supplementation on microbial growth and ruminal fermentation of a high-forage diet in Rusitec fermenters. <i>L. A. Giraldo, M. L. Tejido, M. J. Ranilla, and M. D. Carro</i>	1962
Energy and protein requirements for growth and maintenance of F ₁ Nellore × Red Angus bulls, steers, and heifers. <i>M. L. Chizzotti, S. C. Valadares Filho, L. O. Tedeschi, F. H. M. Chizzotti, and G. E. Carstens</i>	1971
Prediction of nitrogen excretion in feces and urine of beef cattle offered diets containing grass silage. <i>T. Yan, J. P. Frost, T. W. J. Keady, R. E. Agnew, and C. S. Mayne</i>	1982
Use of condensed tannin extract from quebracho trees to reduce methane emissions from cattle. <i>K. A. Beauchemin, S. M. McGinn, T. F. Martinez, and T. A. McAllister</i>	1990
Urea metabolism in beef steers grazing Bermudagrass, Caucasian bluestem, or gamagrass pastures varying in plant morphology, protein content, and protein composition. <i>G. B. Huntington, J. C. Burns, and S. L. Archibeque</i>	1997

ANIMAL PRODUCTS

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Consequence of muscle hypertrophy on characteristics of Pectoralis major muscle and breast meat quality of broiler chickens. <i>C. Berri, E. Le Bihan-Duval, M. Debut, V. Santé-Lhoutellier, E. Baéza, V. Gigaud, Y. Jégo, and M. J. Duclos</i>	2005
Effects of winter stocker growth rate and finishing system on: I. Animal performance and carcass characteristics. <i>J. P. S. Neel, J. P. Fontenot, W. M. Clapham, S. K. Duckett, E. E. D. Felton, G. Scaglia, and W. B. Bryan</i>	2012
Effects of heifer finishing implants on beef carcass traits and longissimus tenderness. <i>B. A. Schneider, J. D. Tatum, T. E. Engle, and T. C. Bryant</i>	2019
Evaluation of the impact of errors in the measurement of backfat depth on the prediction of fat-free lean mass. <i>A. P. Schinckel, M. E. Einstein, K. Foster, and B. A. Craig</i>	2031

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Effects of frequent out-of-feed events on growth performance of nursery and grow-finish pigs. <i>S. K. Linneen, S. S. Dritz, R. D. Goodband, M. D. Tokach, J. M. DeRouche, and J. L. Nelssen</i>	2043
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