

Genetics, Animal Genetic Resources and Breeding*Original research articles*

- Heat production and body composition of primiparous Holstein cows with or without grazing pastures in early lactation
A. Jasinsky, D.A. Mattiauda, M. Ceriani, A. Casal and M. Carriquiry 1
- Effect of sward height on short-term intake by steers grazing winter oat pastures
L. Nadin, F.S. Chopra, M.L. Agnelli, J.K. da Trindade and H. Gonda 8
- Evaluation of genetic structure across U.S. climate zones using prominent AI sires of Red Angus cattle
B.C. Krehbiel, M.G. Thomas, C.S. Wilson, S.E. Speidel, R.M. Enns, S.R. Paiva and H.D. Blackburn 26
- Effects of dietary supplementation with *S. platensis* and probiotics on the growth performance, immune response and the fecal *Lactobacillus* spp. and *E. coli* contents of weaned piglets
L. Zhang, P. Jin, S. Qin, J. Liu, Z. Yang, H. Zhao and Q. Sheng 32
- Effects of replacing soybean meal, soy protein concentrate, fermented soybean meal or fish meal with enzyme-treated soybean meal on growth performance, nutrient digestibility, antioxidant capacity, immunity and intestinal morphology in weaned pigs
X. Ma, Q. Shang, J. Hu, H. Liu, C. Brøkner and X. Piao 39
- Genetic association between residual feed intake and carcass traits in a herd of Nellore beef cattle
L.R.A. Abreu, P.G.M.A. Martins, V.M.P. Ribeiro, G.C. Gouveia and G.F. Moraes 53
- Genetic effects of the *EIF5A2* gene on chicken growth and skeletal muscle development
X. Chen, H. Ouyang, B. Chen, G. Li, Z. Wang and Q. Nie 62
- Genomic prediction of bovine leukosis incidence in a US Holstein population
E.A. Abdalla, F.B. Lopes, T.M. Byrem, K.A. Weigel and G.J.M. Rosa 73
- Effects of butyric acid supplementation of acidified milk on digestive function and weaning stress of cattle calves
Y.Y. Sun, J. Li, Q.S. Meng, D.L. Wu and M. Xu 78
- A combined genome-wide approach identifies a new potential candidate marker associated with the coat color sidedness in cattle
S. Mastrangelo, G. Sottile, M.T. Sardina, A.M. Sutura, M. Tolone, R. Di Gerlando and B. Portolano 91
- Effect of dietary standardized ileal digestible lysine and copper density on growth performance, nutrient digestibility, blood profiles, fecal microbiota, backfat thickness and lean meat percentage in growing pigs
X. Ao, S. Zhang, J.K. Kim and I.H. Kim 96
- Phospholipase C zeta 1 mRNA as a marker of oocyte-activation and fertilization potential of water buffalo (*Bubalus bubalis*) semen
E.P. Atabay, Z.P. Fajardo, R.D. Tadeo, E.C. Atabay, E.V. Venturina, C.N. Mingala and R.A. Fissore 103
- Nutrient digestibility and ruminal parameters of cattle fed dried brewers grains and *Saccharomyces cerevisiae*
A. Faccenda, M.A. Zambom, A.S. de Avila, J. Garcias, E.I. Eckstein, J.L. Fornari, K.V. de Almeida and G.T. Santos 109
- Time class for racing performance of the Quarter Horse: Genetic parameters and trends using Bayesian and multivariate threshold models
R.A.S. Faria, A.M. Maiorano, L.E.C.d.S. Correia, M.L. Santana Jr and J.A. Il Vasconcelos Silva 116
- Effects of a single trace mineral injection on body parameters, ovarian structures, pregnancy rate and components of the innate immune system of grazing Nellore cows synchronized to a fixed-time AI protocol
M. Vedovatto, P. Moriel, R.F. Cooke, D.S. Costa, F.J.C. Faria, I.M. Cortada Neto, C. da Silva Pereira, A.L.D.L. Bento, R.G. de Almeida, S.A. Santos and G.L. Franco 123
- Genetic parameters for reproductive, longevity and lifetime production traits in Bísaro pigs
G. Paixão, Â. Martins, A. Esteves, R. Payan-Carreira and N. Carolino 129
- Partial substitution of soybean meal with a yeast-derived protein in the diet of dairy cows under a rotational grazing system
H.P. de Freitas, C.F.A. Lage, V.M.R. Malacco, A.M. Moura, J.P.P. Rodrigues, H.M. Saturnino, S.G. Coelho and R.B. Reis 144
- Short communication*
- Genome scan for selection in South American chickens reveals a region under selection associated with aggressiveness
A. Luzuriaga-Neira, L. Pérez-Pardal, S.M. O'Rourke, G. Villacís-Rivas, F. Cueva-Castillo, G. Escudero-Sánchez, A. Ulloa-Nuñez, M. Rubilar-Quezada, M.R. Miller and A. Beja-Pereira 135
- Alternative count Bayesian models for genetic evaluation of litter traits in pigs
H.T. Silva, D.B.D. Marques, P.S. Lopes, J.T. de Paiva, R. Veroneze, E.G. Camargo, E.A.P. de Figueiredo and F.F.e. Silva 140

Ruminant Nutrition

Original research articles

- Supra-nutritional copper influences blood parameters including antioxidant markers and immune response in Murrah buffalo (*Bubalus bubalis*) calves
V. Mudgal, A.K. Garg, R.S. Dass and M. Rawat 15

Non-Ruminant Nutrition

Short communication

- Lepidium cake as a feedstuff for pigs
H. Arefaine, L. Rydhmer, R. Andersson and E. Ivarsson 47

Reproduction Physiology

Original research articles

- Histopathological and ultrasonographic testicular evaluation of young bulls fed a hyperenergetic diet
M.S.e. Cunha, D.V. Bonato, D.P. Vrisman, A.R. Taira, L.P.B. Borges, R. dos Santos Albuquerque, L.N. Coutinho, M.R.H. da Silva, M. Neumann and P.P.M. Teixeira 85