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**Genetics, Animal Genetic Resources and Breeding**

- Analysis of reproductive seasonality in *Entrepelado* and *Retinto* Iberian pig varieties under intensive management  
M. Martín de Hijas-Villalba, L. Varona, N. Ibáñez-Escriche, J.P. Rosas, J.L. Noguera and J. Casellas 104441

*Original research articles*

- Genome-wide association study for beef fatty acid profile using haplotypes in Nellore cattle  
F.L.B. Feitosa, A.S.C. Pereira, L.F. Mueller, P.A.d.S. Fonseca, C.U. Braz, S. Amorin, R. Espigolan, M.A. Lemos, L.G. de Albuquerque, F.S. Schenkel, L.F. Brito, N.B. Stafuzza and J. Baldi 104396

- Genomic prediction ability for carcass composition indicator traits in Nellore cattle  
R.P. Silva, R. Espigolan, M.P. Berton, R.B. Lôbo, C.U. Magnabosco, A.S.C. Pereira and F. Baldi 104421

- Heterosis effects on 305-day milk yield in a Girolando dairy cattle population in different lactation orders  
D.d.S. Daltro, R. Negri and J.A. Cobuci 104428

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- Short communication: Genome wide association study for gastrointestinal nematodes resistance in *Bos taurus* x *Bos indicus* crossbred cattle  
P.I. Otto, S.E.F. Guimarães, L.L. Verardo, A.L.S. Azevedo, C.A. Sevillano, M.C.A. Prata, J. Furlong, C. de Freitas, R.S. Verneque, M.F. Martins, J.C.C. Panetto, W.A. Carvalho, A.O. Garcia, R.M.d.P. Daibert, M.V.G.B. da Silva and M.A. Machado 104403

- Stayability and consecutive rebreeding ability associated to carcass and growth traits in Brazilian Nellore cattle: A Bayesian framework  
P.V.B. Ramos, L.C. da Silva, B. da Costa Perez, R.A. de Almeida Torres Júnior, G.R. de Oliveira Menezes, L.C. Alvarenga, R.d.A.T. Filho, M. de Souza Duarte and F. Fonseca e Silva 104416

**Ruminant Nutrition***Original research articles*

- Feed utilization and rumen fermentation characteristics of Thai-indigenous beef cattle fed ensiled rice straw with *Lactobacillus casei* TH14, molasses, and cellulase enzymes  
A. Cherdthong, C. Suntara, W. Khota and M. Wanapat 104405

- Increasing levels of de-oiled wet distillers grains in feedlot diets on nutrient digestibility, ruminal fermentation and microbiology  
L.d.A. Tomaz, M.B. Niehues, W.A. Baldassini, P. Castagnino, J.P.A. Bertoco, E. van Cleef, J. Ezequiel, M.d.B. Arrigoni, C.L. Martins and O.R.M. Neto 104415

- Effect of reduced of water supply on carcass characteristics, non-carcass components and the volume of digestive compartments of Santa Inês ewes  
C.d.A. Araújo, A.L.R. Magalhães, G.G.L. de Araújo, F.S. Campos, G.C. Gois, M.H.T. de Matos, M.A.Á. Queiroz, V.G. Menezes, C.d.J.P. Costa, K.C. dos Santos and A.C.S.P. Leite 104402

- Effects of grain-based concentrate feeding and rumination frequency on the milk production, methane and carbon dioxide fluxes, and activity of dairy cows in a pasture-based automatic milking system  
L.J. Watt, C.E.F. Clark, R.I. Albornoz, G.L. Krebs, C.E. Petzel and S.A. Utsumi 104420

- The effect of whole sesame seeds on milk chemical composition, fatty acid profile and antioxidant status in goats  
C. Mitsiopolou, K. Sotirakoglou, N.E. Labrou and E. Tsiplakou 104452

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- Effects of hydroxy trace mineral supplementation on gain and reproductive performance in beef heifers  
S.A. Springman, M.E. Drewnoski and R.N. Funston 104425

**Non-Ruminant Nutrition***Original research articles*

- Growth characteristics and meat quality of broiler chickens fed earthworm meal from *Eudrilus eugeniae* as a protein source  
A. Nalunga, A.J. Komakech, J. Jjagwe, H. Magala and J. Lederer 104394

- Dietary encapsulated *Bacillus subtilis* and essential oil supplementation improves reproductive performance and hormone concentrations of broiler breeders during the late laying period  
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- Effect of feed form and heat processing on the growth performance of growing and finishing pigs  
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- Apparent total and ileal digestibility of rice bran with or without multicarbohydriase and phytase in weaned piglets  
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- Metabolizable energy and digestible lysine for Japanese quails reared in a hot climate  
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- The effect of organic and inorganic zinc source, used with lignocellulose or potato fiber, on microbiota composition, fermentation, and activity of enzymes involved in dietary fiber breakdown in the large intestine of pigs  
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- Multi-breed investigation of pig social rank and biological rhythm based on feeding behaviors at electronic feeding stations  
D. Chen, W. Xin, T. Yao, L. Rao, S. Xu, S. Xiao and Z. Zhang 104419

- Estrus signs in Holstein Friesian dairy cows and their reliability for ovulation detection in the context of visual estrus detection  
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*Original research articles*

- Pasture and animal production in silvopastoral and open pasture systems managed with crossbred dairy heifers  
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- Application of depth sensor to estimate body mass and morphometric assessment in Nellore heifers  
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- Relationship among serum metabolic hormones with pregnancy rates to fixed-time artificial insemination in *Bos indicus* beef females  
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