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

- Quantifying the negative impact of clinical diseases on productive and reproductive performance of dairy cows in central Argentina  
F. Masia, G. Molina, C. Vissio, M. Balzarini, R.L. de la Sota and M. Piccardi 104894

- Lifetime productivity: Genetic study of longevity and its associations with economically important traits in dairy buffaloes  
R.R. Aspilcueta-Borquis, L.d.O. Seno, F.R.d. Araujo Neto, D.J.d.A. Santos, N.A. Hurtado-Lugo and H. Tonhati 104900

- Mix of natural extracts to improve the oxidative state and liver activity in bulls finished feedlot  
V.D. Avila, V.M. Carvalho, E. Bonin, L.S. Moreira, C. Mottin, A.V.G. Ramos, A.B. Meniqueti, D.C. Baldoqui, J.F. Comar and I.N. do Prado 104895

**Ruminant Nutrition***Original research articles*

- Replacement of soybean meal with alternative protein sources in the concentrate supplement for lactating Holstein × Gyr cows in an intensive tropical pasture-based system: Effects on performance, milk composition, and diurnal ingestive behavior  
C.A. Bittencourt, R.T. Alves Júnior, E.E.P. Silva, J.R.S. Meneguette, B.R.F. Schuh, V.L. Daley, S.R. Fernandes, R.D. Signoretti and J.A. Freitas 104898

- Milk production potential of whole crop faba bean silage compared with grass silage and rapeseed meal  
A. Palmio, A. Sairanen, K. Kuoppala and M. Rinne 104881

- Growth curve of early-weaned Hereford calves in a semidesert temperate zone (Patagonia, Argentina)  
O. Bruzzone, D.A. Castillo and E.S. Villagra 104908

**Non-Ruminant Nutrition**

- Microalgae as feed ingredients and a potential source of competitive advantage in livestock production: A review  
A. Bature, L. Melville, K.M. Rahman and P. Aulak 104907

*Original research articles*

- Efficacy of whole wheat grain in combination with acidified drinking water on growth performance, gizzard development, intestinal morphology, and microbial population of broiler chickens  
M.S. Mahdavi Sadati, V. Rezaei pour and R. Abdollahpour 104911

- Broiler meat production as affected by dietary supplemental hydroxy-selenomethionine  
S.L. Vieira, V.Q. Teixeira, C.T. Simões, P. Soster, L. Kindlein and C. Stefanello 104912

**Livestock Farming Systems and Management***Original research articles*

- Cattle-oil palm integration – a viable strategy to increase Malaysian beef self-sufficiency and palm oil sustainability  
N.A. Grinnell, A. van der Linden, B. Azhar, F. Nobilly and M. Slingerland 104902

- Slaughtering of heifers in a local or an industrial abattoir: Animal welfare and meat quality consequences  
P. Guarnido-López, V.C. Resconi, M.d.M. Campo, A. Guerrero, G.A. María and J.L. Olleta 104904

- Development and implementation of a training dataset to ensure clear boundary value of body condition score classification of dairy cows in automatic system  
Y. Tao, F. Li and Y. Sun 104901

- Forage chain in extensive pig farming: Performance and meat quality traits of Cinta Senese vs Large White × Cinta Senese pigs  
F. Sirtori, S. Parrini, R. Bozzi, C. Aquilani, A. Crovetti, A. Bonelli and C. Pugliese 104910