

Contents

Volume 63 Issue 3 2023

Review

- An assessment of global ruminant methane-emission measurements shows bias relative to contributions of farmed species, populations and among continents
M. M. Della Rosa, G. C. Waghorn, R. E. Vibart and A. Jonker 201–212

Genetics and Genomics

- Diversity and population structure of indigenous chicken in Congo, using MHC-linked microsatellite LEI0258
Bigman Aganze Bigabwa, Steven Ger Nyanjom, Martina Kyallo, John Juma, Jean-Baka Domelevo Entfellner and Roger Pelle 213–226

Nutrition and Metabolism

- A simplified approach for producing Tier 2 enteric-methane emission factors based on East African smallholder farm data
P. W. Ndung'u, C. J. L. du Toit, T. Takahashi, M. Robertson-Dean, K. Butterbach-Bahl, L. Merbold and J. P. Goopy 227–236
- Ruminal dry matter disappearance, total gas and methane production, and fermentation parameters as affected by fat and protein concentration in by-product supplemented grass hay-based diets
P. J. Tamayao, K. H. Ominski, S. Robinson, K. M. Wittenberg, G. Crow and E. J. McGeough 237–248
- Predicting the extent to which excess lipid is deposited in the physical components of a broiler when dietary protein content is reduced
Matheus P. Reis, Nilva K. Sakomura, Jefferson M. Azevedo, Gabriel S. Viana, Juliano César P. Dorigam, Joao Batista K. Fernandes and Robert M. Gous 249–255

Feed Quality, Nutritional Value and Toxicology

- Effects of germination on the energy value of cereal grains for livestock
J. L. Black, A. M. Tredrea, S. H. Bird, R. J. Hughes and S. G. Nielsen 256–268
- Availability to ruminants of nitrogen in senesced C₄ tropical grasses
R. M. Dixon and R. J. Mayer 269–278

Grazing Management and Behaviour

- Similar grazing mechanisms explain contrasting intake and sward-height dynamics under different grazing management
Arthur Pontes-Prates, Paulo César de Faccio Carvalho, Anderson Michel Soares Bolzan, Jean Víctor Savian, Gentil Félix da Silva Neto, Ángel Sánchez Zubieta and Emilio Andrés Laca 279–290

Technology and Meat Quality

- Phenotypic causal networks between boar taint compounds measured in biopsies and carcasses
Margareth Evangelista Botelho, Marcos Soares Lopes, Pramod K. Mathur, Egbert F. Knol, Daniele B. D. Marques, Paulo Sávio Lopes, Fabyano Fonseca e Silva, Simone Eliza Facioni Guimarães and Renata Veroneze 291–300