

OBITUARY

iii In Memoriam: Cornelis (Kees) F.M. de Lange

Breeding and Genetics

ARTICLE

G. Manafiazar, S. Zimmerman, and J.A. Basarab

118–126

Repeatability and variability of short-term spot measurement of methane and carbon dioxide emissions from beef cattle using GreenFeed emissions monitoring system

Growth and Development

ARTICLE

Chengbo Yang, Xiaojian Yang, and Ming Z. Fan

19–29

Apical Na⁺-dependent neutral amino acid exchanger ASCT2/ATB⁰ and mTOR-signaling components are expressed along the entire jejunal crypt–villus axis in young pigs fed a liquid milk replacer GreenFeed emissions monitoring system

Meat Science

SHORT COMMUNICATION

**M.L.P. Silva, M. Juárez, R.T. Nassu, R.R. Tullio,
A. Berndt, M.M. Alencar, D.C. Rolland,
and M.E.R. Dugan**

6–9

Relative contribution of breed, gender, and diet to the fatty acid profile of young crossbred beef cattle finished on feedlot

ARTICLE

**Yu-Miao Lang, Yong-Feng Wang, Bao-Zhong Sun,
Song-Shan Zhang, Peng Xie, Kun Sha, Li Zhang,
and Hai-Peng Li**

101–108

Myofiber characteristics and eating quality of three major muscles from Chinese Simmental cattle

Modelling Animal Systems

ARTICLE

- P. Escobar-Bahamondes, M. Oba, and K.A. Beauchemin 83–94 Universally applicable methane prediction equations for beef cattle fed high- or low-forage diets

Physiology and Endocrinology

ARTICLE

- B.J. Awda, K.M. Wood, F.E. Keomanivong, P.P. Borowicz, B.W. McBride, S.P. Miller, C.J. Fitzsimmons, and K.C. Swanson 145–153 The influence of pregnancy and plane of nutrition during pregnancy on pancreatic digestive enzymes and insulin-containing cell cluster morphology in beef cows

Ruminant Nutrition

ARTICLES

- L.J. Jancewicz, M.L. Swift, G.B. Penner, K.A. Beauchemin, K.M. Koenig, G.E. Chibisa, M.L. He, J.J. McKinnon, W.-Z. Yang, and T.A. McAllister 51–64 Development of near-infrared spectroscopy calibrations to estimate fecal composition and nutrient digestibility in beef cattle
- Cheryl L. Waldner and Fabienne D. Uehlinger 65–82 Factors associated with serum vitamin A and vitamin E concentrations in beef calves from Alberta and Saskatchewan and the relationship between vitamin concentrations and calf health outcomes
- Chen Bai, XianXian Huo, Khas-Erdene, ChangJin Ao, ShuaiWang Liu, XianJue Wang, FuQuan Zhang, and Peng Gao 127–135 Effects of acetate and long-chain fatty acids infusion into external pudic artery on lactation performance and milk fatty acid composition in lactating dairy cows

Non-ruminant Nutrition

ARTICLES

- M.N. Smit, J.L. Landero, M.G. Young, and E. Beltranena 30–41 Feeding diets with reduced net energy levels to growing–finishing barrows and gilts
- J.H. Cho, J.H. Park, D.H. Lee, J.M. Lee, T.H. Song, and I.H. Kim 95–100 Effects of xylanase supplementation on growth performance, digestibility, fecal gas emission, and meat quality in growing–finishing pigs
- Weiwei Wang, Wanli Ren, Zhui Li, Yunshuang Yue, and Yuming Guo 136–144 Effects of live yeast on immune responses and intestinal morphological structure in lipopolysaccharide-challenged broilers

Welfare, Behaviour, and Management

SHORT COMMUNICATIONS

- E. Shepley, R. Bergeron, F. Bécotte, and E. Vasseur 1–5 Dairy cow preference for outdoor access during winter under Eastern Canada climatic conditions
- Dana L.M. Campbell, Amber H. Lester-Saenz, Jane E. Link, and Steven J. Bursian 10–13 Comparison of wood shavings and chopped straw as bedding material for fur-farmed American mink (*Neovison vison*)

ARTICLES

- Iwona Janczarek, Izabela Wilk, Witold Kędzierski, Anna Stachurska, and Sylwester Kowalik 42–50 Offtrack training ameliorates emotional excitability in purebred Arabian racehorses
- Liesbeth Vermeulen, Sanne Van Beirendonck, Anneleen Bulens, Jos Van Thielen, and Bert Driessen 109–117 The perception about batch management production systems among pig producers

**D.A. Ekunseitan, S.S. Abiola, O.O. Oluwatosin,
O.M. Sogunle, O.O. Adeleye, L.T. Egbeyale,
and O.S. Iyasere**

154–164

Health status of laying birds administered extracts of *Lagenaria
breviflora* managed under two housing systems

OTHER

**H.P. Nunes, M. Faheem, M. Dinis, A. Borba,
and F. Moreira da Silva**

14–18

Effect of feed with *Pittosporum undulatum* in vivo on bovine
progesterone levels and embryos produced in vitro