

Breeding and Genetics

SHORT COMMUNICATION

**Astrid Koeck, Janusz Jamrozik,
Gerrit J. Kistemaker, Flavio S. Schenkel,
Robert K. Moore, Daniel M. Lefebvre,
David F. Kelton, and Filippo Miglior**

302–305

Genetic and phenotypic associations of milk β -hydroxybutyrate with ketosis in Canadian Holsteins

ARTICLES

**S. Puangdee, M. Duangjinda, W. Boonkum,
S. Buaban, and S. Katawatin**

410–415

Effect of milk fat to protein ratio on genetic variance for milk yield in Thai tropical Holstein cattle

G. Bilal, R.I. Cue, and J.F. Hayes

434–447

Genetic and phenotypic associations of type traits and body condition score with dry matter intake, milk yield, and number of breedings in first lactation Canadian Holstein cows

**Y. Mu, G. Vander Voort, M.K. Abo-Ismael,
R. Ventura, J. Jamrozik, and S.P. Miller**

448–455

Genetic correlations between female fertility and postweaning growth and feed efficiency traits in multibreed beef cattle

Growth and Development

ARTICLE

**W. Ren, F.F. Zhao, A.Z. Zhang, N. Jiang,
Q. Wu, L. Qi, X.M. Liu, K. Yang, W. Liu, S. Zhu,
L.X. Wang, and Y. Mu**

425–433

Gastrointestinal tract development in fattening lambs fed diets with different amylose to amylopectin ratios

Ruminant Nutrition

SHORT COMMUNICATIONS

H. Salim, K.M. Wood, J.P. Cant, and K.C. Swanson

294–298

Influence of feeding increasing levels of dry or modified wet corn distillers grains plus solubles in whole corn grain-based finishing cattle diets on pancreatic α -amylase and trypsin activity

P. Vahmani, D.C. Rolland, T.A. McAllister, H.C. Block, S.D. Proctor, L.L. Guan, N. Prieto, J.L. Aalhus, and M.E.R. Dugan	299–301	Feeding steers hay with extruded flaxseed together or sequentially has a profound effect on erythrocyte <i>trans</i> 11-18:1 (vaccenic acid)
ARTICLES		
J. Nair, G.B. Penner, P. Yu, H.A. (Bart) Lardner, T.A. McAllister, D. Damiran, and J.J. McKinnon	342–353	Evaluation of canola meal derived from <i>Brassica juncea</i> and <i>Brassica napus</i> on rumen fermentation and nutrient digestibility by feedlot heifers fed finishing diets
U.Y. Anele, W.Z. Yang, P.J. McGinn, S.M. Tibbetts, and T.A. McAllister	354–363	Ruminal in vitro gas production, dry matter digestibility, methane abatement potential, and fatty acid biohydrogenation of six species of microalgae
B. Wolfger, C. Quinn, G.W. Torres, M. Taylor, and K. Orsel	404–409	Comparison of feeding behavior between black and red Angus feeder heifers
Non-ruminant Nutrition		
SHORT COMMUNICATION		
S.M. Waititu, J.M. Heo, R. Patterson, and C.M. Nyachoti	289–293	Dietary yeast-based nucleotides as an alternative to in-feed antibiotics in promoting growth performance and nutrient utilization in weaned pigs
ARTICLES		
Kehui Ouyang, Mingsheng Xu, Yan Jiang, and Wenjun Wang	332–341	Effects of alfalfa flavonoids on broiler performance, meat quality, and gene expression
Jun Liu, Tao Zeng, Xue Du, Guoqin Li, Yongliang Yu, Lizhi Lu, and Chunmei Li	397–403	Effects of water supplemented with Saccharicterpenin and photosynthetic bacteria on egg production, egg quality, serum immunoglobulins, and digestive enzyme activities of ducks
M. Diaz-Vargas, A.E. Murakami, I.C. Ospina-Rojas, L.H. Zanetti, M.M. Puzotti, and A.F.Q.G. Guerra	416–424	Use of okara (aqueous extract residue) in the diet of starter broilers
Welfare, Behaviour, and Management		
ARTICLES		
Kayla Bilsborrow, Yolande M. Seddon, Jennifer Brown, Cheryl Waldner, and Joseph M. Stookey	376–385	An investigation of a novel behavioural test to assess pain in piglets following castration
Lihua H. Wang and Yuzhi Z. Li	386–396	Effect of continuous access to feeding stalls during mixing on behavior, welfare, and performance of group-housed gestating sows in different social ranks
Other REVIEW		
Susantha Jayasundara, J.A.D. Ranga Niroshan Appuhamy, Ermias Kebreab, and Claudia Wagner-Riddle	306–331	Methane and nitrous oxide emissions from Canadian dairy farms and mitigation options: An updated review
ARTICLE		
Stefanie Fryza, Jared G. Carlberg, Mohammad Khakbazan, Clayton D. Robins, Hushton C. Block, Shannon L. Scott, John Huang, and Obioha N. Durunna	364–375	An economic analysis of resting versus nonresting perennial pastures during the critical acclimation period