

Canadian Journal of Animal Science

VOLUME 97, NUMBER 4, DECEMBER 2017

Breeding and Genetics

ARTICLE

Tianfu Yang, Zhiquan Wang, Younes Miar,
Heather Bruce, Chunyan Zhang, and
Graham Plastow

721–733

A genome-wide association study of meat colour in commercial crossbred pigs

Growth and Development

ARTICLE

Michael E. Kautzman, Natacha S. Hogan,
Susantha M. Gomis, Kaitlyn S. Brown, and
Mark L. Wickstrom

689–700

Using near infrared transmittance to generate sorted fractions of *Fusarium*-infected wheat and their immunological impact on broiler chickens

Meat Science

ARTICLES

J. Roberts, A. Rodas-González, M. Juárez,
Ó. López-Campos, I.L. Larsen, and J.L. Aalhus

562–573

Muscle profiling of retail characteristics within the Canadian cull cow grades

Sivakumar Allur Subramaniyan, Da Rae Kang,
Young Chul Jung, Jong Hyun Jung, Yang Il Choi,
Mun Jun Lee, Ho Sung Choe, and Kwan Seob Shim

640–649

Comparative studies of meat quality traits and the proteome profile between low- and high-pH muscles in *longissimus dorsi* of *Berkshire*

Cecilia Esquivelzeta, Joaquim Casellas, Marta Fina,
María de Mar Campo, and Jesús Piedrafita

734–741

Carcass traits and meat fatty acid composition in Mediterranean light lambs

Modelling Animal Systems

ARTICLE

P. Escobar-Bahamondes, M. Oba, R. Kröbel,
Tim A. McAllister, D. MacDonald, and
K.A. Beauchemin

599–612

Estimating enteric methane production for beef cattle using empirical prediction models compared with IPCC Tier 2 methodology

Physiology and Endocrinology

ARTICLE

- Marcio E. Lima, Rubens A. Pereira, Andressa S. Maffi, Joabel Tonello dos Santos, Carlos E.G. Martin, Fancisco A.B. Del Pino, Sofia D.C.B.S. Leal, Cassio C. Brauner, and Marcio N. Correa 633–639 Butaphosphan and cyanocobalamin: effects on the aspiration of oocytes and in vitro embryo production in Jersey cows

Ruminant Nutrition

ARTICLES

- M.A. Rodenhuis, F.E. Keomanivong, J.J. Gaspers, T.C. Gilbery, S.R. Underdahl, M.L. Bauer, V.L. Anderson, C.L. Engel, and K.C. Swanson 545–552 Influence of grain source and dried corn distillers grains plus solubles oil concentration on finishing cattle performance and feeding behavior
- B.I. Wiese, J. Campbell, S. Hendrick, and G.B. Penner 581–589 Ruminal pH, short-chain fatty acid concentrations, and serum acute phase protein concentrations during finishing for steers with and without rumen and liver pathology
- Basim Refat, WenZhu Yang, David A. Christensen, John J. Mckinnon, Aaron D. Beattie, Tim A. Mcallister, and Peiqiang Yu 622–632 Comparison of barley silages with varying digestible fiber content to corn silage on rumen fermentation characteristics and microbial protein synthesis using rumen simulation technique
- L.J. Jancewicz, G.B. Penner, M.L. Swift, C.L. Waldner, D.J. Gibb, and T.A. McAllister 701–720 Predictability of growth performance in feedlot cattle using fecal near-infrared spectroscopy
- Braden M. Tye, Si-Yong Yang, Jong-Su Eun, Allen J. Young, and Jeffery O. Hall 742–752 An investigation of feeding high-moisture corn grain with slow-release urea supplementation on lactational performance, energy partitioning, and ruminal fermentation of dairy cows

Non-ruminant Nutrition

ARTICLES

- N.V.P. Silva, J.C. Dadalt, F.E.L. Budiño, A.H. Gameiro, and M.A. Trindade Neto 553–561 Apparent total tract digestibility, performance, and methane emissions in pigs maintained under different sanitary conditions and supplemented with antibiotic or *Bacillus subtilis*
- Fei Han, Yongwei Wang, Weiwei Wang, Fan Cheng, Zixian Lu, Aike Li, Xiuheng Xue, Qinghua Zeng, and Juhua Wang 574–580 Effects of enzymatically hydrolyzed wheat gluten on growth performance, antioxidant status, and immune function in weaned pigs
- Gustavo A. Mejicanos, Anna Rogiewicz, Charles M. Nyachoti, and Bogdan A. Slominski 613–621 Fractionation of canola meal using sieving technology
- Dervan D.S.L. Bryan, Janice L. MacIsaac, Bruce M. Rathgeber, Nancy L. McLean, and Derek M. Anderson 658–667 Meal residual oil level and heat treatment after oil extraction affects the nutritive value of expeller-pressed canola meal for broiler chickens
- Emily J. Walker and Stephanie A. Collins 668–672 The effect of exercise intensity and use of an electrolyte supplement on plasma electrolyte concentrations in the Standardbred horse
- C.A. Hernández-Martínez, J.A. Maldonado Herrera, G. Méndez-Zamora, C.E. Hernández-Luna, and G. Gutiérrez-Soto 683–688 Enzymatic extract of *Trametes maxima* CU1 on productive parameters and carcass yield of rabbits

Welfare, Behaviour, and Management

ARTICLES

- Liesbeth Vermeulen, Sanne Van Beirendonck, Anneleen Bulens, Jos Van Thielen, and Bert Driessen 590–598 The perception of biosecurity, management, and labour of batch management production systems among pig producers

**Artemio J. Vargas-Galicia, Eliseo Sosa-Montes,
Leodan T. Rodríguez-Ortega, Arturo Pro-Martínez,
Ciro A. Ruiz-Feria, Fernando González-Cerón,
Jaime Gallegos-Sánchez, Jesús Arreola-Enríquez, and
Jaime Bautista-Ortega**

673–682

Effect of litter material and stocking density on bone and tendon strength, and productive performance in broilers

Other

ARTICLE

**Kaley G. Mackie, Paula I. Menzies, Ken G. Bateman,
and Jessica L. Gordon**

650–657

An observational study of naturally occurring gastrointestinal nematode infections in a seasonal grazing cow–calf herd in southern Ontario