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**Breeding and Genetics**

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Allison L. Fleming, Daniel P. Hays, Stephen Moore,  
Graham Plastow, and Stephen P. Miller

471–477 History of the Hays Converter

ARTICLES

Tomasz Szwaczkowski, Monika Gregula-Kania,  
Anna Stachurska, Alicja Borowska,  
Zbigniew Jaworski, and Tomasz M. Gruszecki

570–580 Inter- and intra-genetic diversity in the Polish Konik horse:  
implications for the conservation program

Magdalena Zatoń-Dobrowolska, Magdalena Moska,  
Anna Mucha, Heliodor Wierzbicki, Piotr Przysiecki,  
and Maciej Dobrowolski

589–597 Variation in fur farm and wild populations of the red fox,  
*Vulpes vulpes* (Carnivora: Canidae) — Part I: Morphometry

**Cellular and Molecular Biology**

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Cuiping Yu, Chaochao Luo, Xinyu Gu, Yanli Zang,  
Bo Qu, Nagam Khudhair, Qingzhang Li,  
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478–487 14-3-3 $\gamma$  affects eIF5 to regulate  $\beta$ -casein synthesis in bovine  
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Yang Chen, Yiyu Tong, Yang Li, Ran Liu, Qi Xu,  
Guobin Chang, and Guohong Chen

619–625 Ferritin heavy polypeptide 1 mediates apoptosis-related gene  
expression of duck (*Anas platyrhynchos domesticus*)

## Growth and Development

### ARTICLE

- Daria Murawska, Vladimir Hanzal,  
Pawel Janiszewski, Barry D. Lambert, Michal Gesek,  
Magdalena Zawacka, Danuta Michalik,  
and Rafal Borkowski
- 504–511 Selected growth parameters of farm-raised mallard  
(*Anas platyrhynchos* L.) ducklings

## Meat Science

### ARTICLES

- H. Zhang, J.L. Aalhus, C. Gariépy, B. Uttaro,  
O. López-Campos, N. Prieto, M.E.R. Dugan, Y. Jin,  
and M. Juárez
- 512–523 Effects of pork differentiation strategies in Canada on pig  
performance and carcass characteristics
- Erico da Silva Lima, Jozivaldo Prudêncio Gomes  
de Moraes, Roberto de Oliveira Roça, Tiago Neves  
Pereira Valente, Ernani Nery de Andrade,  
and Bruno Borges Deminicis
- 581–588 Performance and carcass characteristics of cattle fed lipid sources  
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## Ruminant Nutrition

### SHORT COMMUNICATIONS

- Mei Shigematsu, Tomoya Yamada, Yun Yi Wong,  
Yohei Kanamori, Masaru Murakami,  
Yusuke Fujimoto, Mika Suzuki, Ryosuke Kida,  
Yuhang Qiao, Shozo Tomonaga, Tohru Matsui,  
and Masayuki Funaba
- 457–460 Dietary regulation of Ucp2 and Ucp3 expressions in white adipose  
tissues of beef cattle
- E.H.C.B. van Cleef, J.B.D. Sancanari, Z.F. Silva,  
A.P. D'Aurea, V.R. Fávoro, F.O.S van Cleef,  
A.C. Homem Júnior, and J.M.B. Ezequiel
- 461–465 High concentrations of crude glycerin on ruminal parameters,  
microbial yield, and in vitro greenhouse gases production in dairy  
cows

### ARTICLES

- Q.Q. Huang, L. Jin, Z. Xu, S. Acharya,  
T.A. McAllister, T.M. Hu, A. Iwaasa,  
M. Schellenberg, K. Peng, and Y. Wang
- 524–531 Effects of conservation method on condensed tannin content,  
ruminal degradation, and in vitro intestinal digestion of purple  
prairie clover (*Dalea purpurea* Vent.)
- L.J. Jancewicz, G.B. Penner, M.L. Swift,  
J.J. McKinnon, C.L. Waldner, and T.A. McAllister
- 532–549 Characterization of the variation in the daily excretion of faecal  
constituents and digestibility predictions in beef cattle fed feedlot  
diets using near-infrared spectroscopy
- C.H.S. Rabelo, F.C. Basso, T.A. McAllister, J.F. Lage,  
G.S. Gonçalves, E.C. Lara, A.A. Oliveira,  
T.T. Berchielli, and R.A. Reis
- 550–562 Influence of *Lactobacillus buchneri* as silage additive and  
forage:concentrate ratio on the growth performance, fatty acid  
profile in *longissimus* muscle, and meat quality of beef cattle
- Jayakrishnan Nair, David Christensen,  
Peiqiang Yu, Aaron D. Beattie, Tim McAllister,  
Daalkhaijav Damiran, Natalie Preston, Leland Fuhr,  
and John J. McKinnon
- 598–608 A nutritional evaluation of common barley varieties grown for  
silage by beef and dairy producers in western Canada

## Non-ruminant Nutrition

### ARTICLES

- Leonardo Henrique Zanetti, Alice Eiko Murakami,  
Mayra Diaz-Vargas,  
Ana Flávia Quiles Garcia Guerra,  
Ivan Camilo Ospina-Rojas,  
Paula Toshimi Matumoto Pinto,  
and Valquíria Cação Cruz-Polycarpo
- 488–494 By-product of passion fruit seed (*Passiflora edulis*) in the diet of  
commercial laying hens

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| <b>M.M. Hossain, J.W. Park, C.M. Nyachoti,<br/>and I.H. Kim</b>                            | <b>495–503</b> | Effects of extracted rice bran supplementation on growth performance, nutrient digestibility, diarrhea score, blood profiles, and fecal microbial shedding in comparison with apramycin (antibiotic growth promoter) in weanling pigs          |
| <b>F. Zhang, D. Ragland, and O. Adeola</b>   | <b>563–569</b> | Comparison of apparent ileal and total tract digestibility of calcium in calcium sources for pigs  |
| <b>H.S. Chen, D.E. Velayudhan, A. Li, Z. Feng,<br/>D. Liu, Y.L. Yin, and C.M. Nyachoti</b> | <b>609–618</b> | Growth performance, gastrointestinal microbial activity, and immunological response of piglets receiving microencapsulated <i>Enterococcus faecalis</i> CG1.0007 and enzyme complex after an oral challenge with <i>Escherichia coli</i> (K88) |

### **Welfare, Behaviour, and Management**

#### **SHORT COMMUNICATION**

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| <b>C.J. Bench, M.A. Oryschak, and D.R. Korver</b> | <b>466–470</b> | Oxidized subbituminous coal water additive has no adverse effect on growth performance or water consumption of growing broilers |
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### **Summaries of Communications of the 2016 Meeting of the Animal Science Modelling Group, Salt Lake Marriott Downtown, Salt Lake City, Utah, 19 July 2016**

#### **ABSTRACTS**

**626–635**