

ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 57, Issue 4, 2017, 601–800

Workshop Review

Utilisation of loss and waste during the food-production cycle as livestock feed

Olaf Thieme and Harinder P. S. Makkar 601–607

Genetics and Genomics

Single nucleotide polymorphisms associated with osteochondrosis dissecans in Warmblood horses at different stages of training

D. Lewczuk, M. Hecold, A. Ruść, M. Frąszczak, A. Bereznowski, A. Korwin-Kossakowska, S. Kamiński and J. Szyda 608–613

Genetic study of visual scores and hip height at different ages in Nelore cattle

D. D. Silveira, L. De Vargas, V. M. Roso, G. S. Campos, F. R. P. Souza and A. A. Boligon 614–621

The effect of long term under- and overfeeding on the expression of genes related to glucose metabolism in the mammary tissue of goats

E. Tsiplakou, E. Fletetakos, E. D. Kouri and G. Zervas 622–626

Daily methane emissions and emission intensity of grazing beef cattle genetically divergent for residual feed intake

J. I. Velazco, R. M. Herd, D. J. Cottle and R. S. Hegarty 627–635

Nutrition and Metabolism

Ruminal fermentation, nutrient digestibility and microbial protein synthesis in sheep fed diets with different levels of date pulp

A. Khezri, S. Javidan, O. Dayani and R. Tahmasbi 636–642

Methane emissions from lactating and non-lactating dairy cows and growing cattle fed fresh pasture

Arjan Jonker, German Molano, John Koolaard and Stefan Muetzel 643–648

Crude glycerin as a replacement for corn in starter feed: performance and metabolism of pre-weaned dairy calves

C. M. M. Bittar, G. G. O. Nápoles, C. E. Oltramari, J. T. Silva, M. R. De Paula, F. H. R. Santos, M. P. C. Gallo and G. B. Mourão 649–655

Effects of dietary active dried yeast (*Saccharomyces cerevisiae*) supply at two levels of concentrate on energy and nitrogen utilisation and methane emissions of lactating dairy cows

C. Muñoz, D. A. Wills and T. Yan 656–664

Effects of oats grain supplements on performance, rumen parameters and composition of beef from cattle grazing oats pasture

H. M. Arelovich, J. Marinissen, B. A. Gardner, M. F. Martínez and R. D. Bravo 665–674

Feed Quality and Nutritional Value

Influence of *Acacia tortilis* leaf meal-based diet on serum biochemistry, carcass characteristics and internal organs of finishing pigs

M. Khanyile, S. P. Ndou and M. Chimonyo 675–682

Effects of enzyme products in the diet on growth, dressing-out percent and organ weights of light pigs fed copra-meal-based diets

S. S. Diarra 683–689

Comparison of rumen *in vitro* fermentation of temperate pastures using different batch culture systems

Juan Pablo Keim, Robert Berthiaume, David Pacheco and Stefan Muetzel 690–696

Continued on next page

Behaviour, Well-being and Health

Dietary choice and grazing behaviour of sheep on spatially arranged pasture systems. 1.

Herbage mass, nutritive characteristics and diet selection

M. C. Raeside, M. Robertson, Z. N. Nie, D. L. Partington, J. L. Jacobs and R. Behrendt 697–709

Dietary choice and grazing behaviour of sheep on spatially arranged pasture systems. 2.

Wether lamb growth and carcass weight at slaughter

M. C. Raeside, M. Robertson, Z. N. Nie, D. L. Partington, J. L. Jacobs and R. Behrendt 710–718

The effect of different levels of crude protein on the pathophysiology of *Haemonchus contortus* infection in 2-year-old Boer dry does under confined conditions

T. V. Can, M. A. Hohenhaus and P. J. Murray 719–725

Environment, Production Systems and Management

A regional model of sheep lice management practices to examine the impact of managing straying sheep combined with other management choices

Peri G. Lucas, Brian J. Horton, David Parsons and Anna L. Carew 726–734

Characterisation of smallholding dairy farms in southern Brazil

Lucas F. Balcão, Cibele Longo, João H. C. Costa, Cintia Uller-Gómez,

Luiz C. P. Machado Filho and Maria J. Hötzel 735–745

Predicting milk responses to cereal-based supplements in grazing dairy cows

J. W. Heard, M. Hannah, C. K. M. Ho, E. Kennedy, P. T. Doyle,

J. L. Jacobs and W. J. Wales 746–759

Joint estimation of (co) variance components and breeding values for mean and dispersion of days from calving to first service in Holstein cow

Heydar Ghiasi and Majbritt Felleki 760–766

Meat Science and Product Quality

Fatty acid composition and physicochemical and sensory characteristics of meat from ewe lambs supplemented with zilpaterol hydrochloride and soybean oil

J. L. Dávila-Ramírez, L. Avendaño-Reyes, U. Macías-Cruz, E. A. Peña-Ramos, T. Y. Islava-Lagarda, L. Zamorano-García, M. Valenzuela-Melendres, J. P. Camou and H. González-Ríos 767–777

Effects of a limited period of iron supplementation on the growth performance and meat colour of dairy bull calves for veal production

K. Cui, Y. Tu, Y. C. Wang, N. F. Zhang, T. Ma and Q. Y. Diao 778–784

Crambe cake impairs lamb performance and fatty acid profile of meat

J. Issakowicz, M. S. Bueno, C. M. P. Barbosa, E. B. Canova, H. L. Moreira,

A. T. Geraldo and A. C. K. Sampaio 785–792

Technology, Education and Translation

The repeatability of textural wool handle

J. W. V. Preston, S. Hatcher and B. A. McGregor 793–800