

ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 57, Issue 1, 2017, 1–200

Perspectives on Animal Biosciences

RNA interference-based technology: what role in animal agriculture?

B. J. Bradford, C. A. Cooper, M. L. Tizard, T. J. Doran and T. M. Hinton 1–15

Perspective

Perspective: are animal scientists forgetting the scientific method and the essential role of statistics?

J. L. Black, S. Diffey and S. G. Nielsen 16–19

Genetics and Genomics

Genetic evaluation of adult ewe bodyweight and condition: relationship with lamb growth, reproduction, carcass and wool production

S. F. Walkom and D. J. Brown 20–32

Dietary inclusion level effects of a phytogetic characterised by menthol and anethole on broiler growth performance, biochemical parameters including total antioxidant capacity and gene expression of immune-related biomarkers

Vasileios Paraskeuas, Konstantinos Fegeros, Christine Hunger, Georgios Theodorou and Konstantinos C. Mountzouris 33–41

Effect of ghrelin and leptin receptors genes polymorphisms on production results and physicochemical characteristics of *M. pectoralis superficialis* in broiler chickens

U. Kaczor, K. Poltowicz, M. Kucharski, A. M. Sitarz, J. Nowak, D. Wojtysiak and D. A. Zieba 42–50

Physiology, Endocrinology and Reproduction

Intergenerational effects of omega-6 fatty acids. 1. The reproductive rate of Border Leicester × Merino ewes is influenced by the diet fed to their dams around conception

E. H. Clayton, M. A. Friend and J. F. Wilkins 51–59

Effects of melatonin implantation on cashmere growth, hormone concentrations and cashmere yield in cashmere-perennial-type Liaoning cashmere goats

Chunhui Duan, Jianhai Xu, Yu Zhang, Wei Zhang, Yabo Sun and Zhihai Jia 60–64

Effect of dietary *Lippia citriodora* extract on reproductive and productive performance and plasma biochemical parameters in rabbit does

D. Casamassima, M. Palazzo, F. Vizzarri, L. Ondruska, P. Massanyi and C. Corino 65–73

Hepatic lipidosis in high-yielding dairy cows during the transition period: haematochemical and histopathological findings

Enrico Fiore, Giuseppe Piccione, Laura Perillo, Antonio Barberio, Elisabetta Manuali, Massimo Morgante and Matteo Ganesella 74–80

Nutrition and Metabolism

Supplementation with crushed rapeseed causes reduction of methane emissions from lactating dairy cows on pasture

T. M. Storlien, E. Prestløkken, K. A. Beauchemin, T. A. McAllister, A. Iwaasa and O. M. Harstad 81–89

Effect of varying the energy density on growth performance, meat quality, caecum fermentation and microbiota of growing Rex rabbits

S. J. Wu, L. Liu, Y. L. Zhu, C. Y. Wang and F. C. Li 90–95

Variation in feed utilisation by sheep undergoing compensatory growth following underfeeding with and without additional dietary nitrogen in western China

Joshua Philp, Adam M. Komarek, Sarah J. Pain and William Bellotti 96–101

Continued on next page

Forage intake, digestibility and performance of cattle, horses, sheep and goats grazing together on an improved heathland
K. Osoro, L. M. M. Ferreira, U. García, A. Martínez and R. Celaya 102–109

Effect of early weaning age on growth performance, nutrient digestibility, and serum parameters of lambs
J.-M. Chai, T. Ma, H.-C. Wang, M.-L. Qi, Y. Tu, Q.-Y. Diao and N.-F. Zhang 110–115

Feed Quality and Nutritional Value

Effects of supplement or fertiliser on forage quality, and performance of stocker cattle grazing warm-season pastures
J. D. Rivera, M. L. Gipson, R. G. Gipson and R. W. Lemus 116–121

Effects of whole raw soybean or whole cottonseed on milk yield and composition, digestibility, ruminal fermentation and blood metabolites of lactating dairy cows

Gustavo Ferreira de Almeida, Tiago Antônio Del Valle, Pablo Gomes de Paiva, Elmeson Ferreira de Jesus, Rafael Vilella Barletta, Jefferson Rodrigues Gandra, Vitor Pereira Bettero, Caio Seiti Takiya and Francisco Palma Rennó 122–128

Effects of forage neutral detergent fibre and time after feeding on medial and ventral rumen pH and volatile fatty acids concentration in heifers fed highly digestible grass/clover silages

A. K. S. Schulze, A. C. Storm, M. R. Weisbjerg and P. Nørgaard 129–132

The effects of barley replacement by dehydrated citrus pulp on feed intake, performance, feeding behaviour and serum metabolic indicators in lambs

M. N. N. E. Gobindram, M. Bognanno, G. Luciano, M. Avondo, G. Piccione and L. Biondi 133–140

Behaviour, Well-being and Health

Fasciola gigantica infection in large ruminants in northern Laos: smallholder knowledge and practices

L. Rast, S. Nampanya, J.-A. L. M. L. Toribio, S. Khounsy and P. A. Windsor 141–146

Chilean consumers' perception about animal welfare in dairy production systems: short communication

Einar Vargas-Bello-Pérez, José Luis Riveros, Claus Köbrich, Pamela Alejandra Álvarez-Melo and Joop Lensink 147–151

Production Systems, Environment and Technology

A traditional cattle trade network in Tak province, Thailand and its potential in the spread of infectious diseases

Chamrat Khengwa, Papaspong Jongchansitoe, Poonyapat Sedwisai and Anuwat Wiratsudakul 152–160

Reproductive performance and herd growth potentials of cattle in the Borana pastoral system, southern Ethiopia

Hussein T. Wario, Hassan G. Roba, Mareike Aufderheide and Brigitte Kaufmann 161–169

Species composition and dispersal of nuisance flies breeding on egg farms in southern Australia

P. J. James, C. Krawec, N. A. Schellhorn, P. C. Glatz and P. M. Pepper 170–179

Effect of ruminal mechanical stimulating brushes on rumen fermentation and plasma oxidative stress and subsequent milk yield and composition in lactating dairy cattle

H. M. Golder, P. Celi, J. Takahashi and I. J. Lean 180–190

Meat Science and Product Quality

Physicochemical and sensory properties of dry-cured ham with dietary processed-sulfur supplementation

Ji-Han Kim, Ha-Young Noh, Gyum-Heon Kim, Su-Jin Ahn, Go-Eun Hong, Soo-Ki Kim and Chi-Ho Lee 191–200