

ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 58, Issue 7, 2018, 1175–1374

Perspectives on Animal Biosciences

Unravelling methanogenesis in ruminants, horses and kangaroos: the links between gut anatomy, microbial biofilms and host immunity

R. A. Leng 1175–1191

Genetics and Genomics

Mapping of genome-wide copy number variations in the Iranian indigenous cattle using a dense SNP data set

K. Karimi, A. Esmailizadeh, D. D. Wu and C. Gondro 1192–1200

Genetic correlation between growth and reproductive performance of beef females depends on environment

Mário L. Santana Jr, Joanir P. Eler, Annaiza B. Bignardi, Arione A. Boligon and José B. S. Ferraz 1201–1209

Genetic relations and indirect response to selection based on indices for scrotal circumference, visual scores and weight gain in beef cattle

A. A. Boligon, P. P. Farias, V. M. Roso, M. L. Santana Jr, A. B. Bignardi and F. R. P. Souza 1210–1217

Physiology, Endocrinology and Reproduction

Growth and reproductive traits of F1-generation transgenic goats for human granulocyte-colony stimulating factor

R. I. T. P. Batista, J.M.G. Souza-Fabjan, D. Í. A. Teixeira, L. M. Melo and V. J. F. Freitas 1218–1224

The effect of cow-level factors on colostrum quality, passive immunity and health of neonatal calves in a pasture-based dairy operation

Riaan Mulder, Geoffrey T. Fosgate, Takula Tshuma and Dirk C. Lourens 1225–1232

Nutrition and Metabolism

Parity and grazing-time effects on milk fatty acid profile in dairy cows

E. Morales-Almaráz, B. de la Roza-Delgado, A. Soldado, A. Martínez-Fernández, A. González, I. A. Domínguez-Vara and Fernando Vicente 1233–1238

Influence of zeolite (clinoptilolite) supplementation on characteristics of digestion and ruminal fermentation of steers fed a steam-flaked corn-based finishing diet

J. D. Urias-Estrada, M. A. López-Soto, A. Barreras, J. A. Aguilar-Hernández, V. M. González-Vizcarra, A. Estrada-Angulo, R. A. Zinn, G. D. Mendoza and A. Plascencia 1239–1245

Improving ruminal fermentation and nutrient digestibility in dairy steers by banana flower powder-pellet supplementation

Sungchhang Kang and Metha Wanapat 1246–1252

Feed Quality, Nutritional Value and Toxicology

The nutrition of grazing ewes during pregnancy and lactation: relationships between herbage, supplement and milk intakes, and ewe and lamb liveweight and body composition

H. Dove, M. Freer and J. Z. Foot 1253–1270

Effects of high concentrations of crude glycerin in diets for feedlot lambs: feeding behaviour, growth performance, carcass and non-carcass traits

Marco Tulio Costa Almeida, Jane Maria Bertocco Ezequiel, Josimari Regina Paschoaloto, Henrique Leal Perez, Vanessa Barbosa de Carvalho, Edivilson Silva Castro Filho and Eric Haydt Castello Branco van Cleef 1271–1278

Behaviour, Well-being and Health

Factors explaining the incidence of breech strike in a Mediterranean environment in unmulesed and uncrutched Merino sheep

J. C. Greeff, L. J. E. Karlsson, A. C. Schlink and A. R. Gilmour 1279–1288

Sheep death and loss of production associated with flystrike in mature Merino and crossbred ewes

B. J. Horton, R. Corkrey and A. K. Doughty 1289–1296

Continued on next page

Metabolic changes during brief periods of ewe–lamb separation at different ages

*P. Mora-Medina, A. Orihuela-Trujillo, P. Roldan-Santiago, E. Arch-Tirado,
C. Vázquez-Cruz and D. Mota-Rojas* 1297–1306

Castration methods in crossbred cattle raised on tropical pasture

*Aline D. Moreira, Gustavo R. Siqueira, Josiane F. Lage, João Marcos B. Benatti, Matheus H. Moretti,
Giuliana Z. Miguel, Ivanna M. de Oliveira and Flávio D. de Resende* 1307–1315

Administration of a live attenuated *Salmonella* vaccine using an inactivated oil-emulsion vaccine as a vehicle for commercial chicken flocks

P. J. Groves, T. Harris and S. M. Sharpe 1316–1322

Effect of dietary sodium diacetate on growth performance, carcass characteristics, meat quality, intestinal pH and *Escherichia coli* of broilers

Aiyou Wen, Xi Bai, Sifa Dai, Assar Ali Shah and Hong Hu 1323–1328

Environment, Production Systems and Management

Evaluating the economics of concentrate feeding decisions in grazing dairy cows

C. K. M. Ho, J. W. Heard, W. J. Wales, J. L. Jacobs, P. T. Doyle and B. Malcolm 1329–1340

Effect of growth path on the performance and carcass traits of Hereford steers finished either on pasture or in feedlot

*Elisa Peripolli, Georgget Banchero, Angélica Simone Cravo Pereira, Gustavo Brito, Alejandro La Manna,
Enrique Fernandez, Fabio Montossi and Fernando Baldi* 1341–1348

Identification of heat stress-susceptible and -tolerant phenotypes in goats in semiarid tropics

P. K. Rout, R. Kaushik, N. Ramachandran and S. K. Jindal 1349–1357

Meat Science and Product Quality

Variation in instrumental meat quality among 15 muscles from 14-month-old sheep and its relationship with fibre typing

*Javier Ithurralde, Gianni Bianchi, Oscar Feed, Fernando Nan, Fernando Ballesteros,
Gustavo Garibotto and Alejandro Bielli* 1358–1365

Characteristics of carcasses and meat from feedlot-finished buffalo and *Bos indicus* (Nellore) bulls

*J. L. M. Mello, A. B. B. Rodrigues, A. Giampietro-Ganeco, F. B. Ferrari,
R. A. Souza, P. A. Souza and H. Borba* 1366–1374