ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 60, Issue 14, 2020, 1669–1768

Review

Reproductive performance in goats and causes of perinatal mortality: a review S. M. Robertson, T. Atkinson, M. A. Friend, M. B. Allworth and G. Refshauge 1669–1680

Genetics and Genomics

Effect of controlling future rate of inbreeding on expected genetic gain and genetic variability in small livestock populations

S. I. Mwangi, T. K. Muasya, E. D. Ilatsia and A. K. Kahi 1681–1686

Genetic parameters for weights from birth to 10 years of age in different beef cow breeds Juliana Varchaki Portes, Joslaine Noely dos Santos Gonçalves Cyrillo, Lenira El Faro, Sarah Figueiredo Martins Bonilha, Renata Helena Branco Arnandes, Rodrigo de Almeida Teixeira, Maria Eugênia Zerlotti Mercadante and Laila Talarico Dias 1687–1693

Feed Quality and Metabolism

Estimating the voluntary intake by sheep of tropical grasses from digestibility, regrowth-age and leaf content: a meta-analysis

R. M. Dixon and R. J. Mayer 1694-1703

Dietary supplementation with avilamycin and *Lactobacillus acidophilus* effects growth performance and the expression of growth-related genes in broilers

A. A. Saleh, K. Amber and A. A. Mohammed 1704–1710

Biosecurity and Health

Adescription of biosecurity practices among selected dairy farmers across Australia *J. W. Aleri and M. Laurence* 1711–1720

Putative biomarkers for early detection of mastitis in cattle

Zul I. Huma, Neelesh Sharma, Sarabpreet Kour, Suhasani Tandon, Praveen Kumar Guttula, Savleen Kour, Amit Kumar Singh, Rajiv Singh and Mukesh Kumar Gupta 1721–1736

Association between blood β -hydroxybutyrate at 7 days postpartum and milk yield, disease occurrence and fertility in grazing dairy cattle with seasonal calving: a case study

Pedro Melendez, Kaitlin McDaniel, Carlos Chacon, Scott Poock, Julian Bartolome and Pablo Pinedo 1737–1744

Meat Science and Product Quality

Grass finishing and the residual effect of pasture prior to concentrate finishing on the shelf stability of late-maturing bull beef

S. Siphambili, F. J. Monahan, E. G. O'Riordan, M. McGee and A. P. Moloney 1745–1758

Differences between cattle and buffalo in the water-soluble proteins of the *Longissimus* muscle as shown by electrophoretic techniques

Rafael S. B. Pinheiro, Paulo R. R. Ramos, Roberto de O. Roça, Leilson R. Bezerra,

Caroline L. Francisco and Ronaldo L. Oliveira 1759-1768