

ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 61, Issue 2, 2021, 101–200

Reproduction and Nutrition

Effects of pre- and postpartum supplementation on lactational and reproductive performance of grazing Nellore beef cows

Daniel Mageste de Almeida, Marcos Inácio Marcondes, Luciana Navajas Rennó, Leandro Soares Martins, David Esteban Contreras Marquez, Felipe Vélez Saldarriaga, Faider Alberto Castaño Villadiego, Roman Maza Ortega, Deilen Paff Sotelo Moreno, Felipe Henrique de Moura, Camila Soares Cunha and Mário Fonseca Paulino 101–107

Supplementing protein and starch combined to ewes in good body condition may not improve colostrum in ewes

K. J. Kopp, S. M. Robertson, A. Abuelo, A. J. Gunn, G. Xie and M. A. Friend 108–116

The production and composition of colostrum from ewes supplemented with niacin (vitamin B₃)

K. J. Kopp, S. M. Robertson, A. Abuelo, G. Xie and M. A. Friend 117–122

Nutrition and Metabolism

Growth performance, blood parameters and metabolic-enzyme gene expression of finishing pigs as affected by dietary level of methionine + cystine supplemented with vitamin B₆

C. P. Sangali, E. Gasparino, A. P. Del Vesco, L. D. Castilha, L. M. D. Huepa, A. C. Furlan, A. N. T. R. Monteiro and P. C. Pozza 123–131

Feed Quality, Nutritional Value and Performance

Tropical fruit peels as potential modifiers of rumen fermentation characteristics in goats: *in vitro* and *in situ* evaluations

Saeid Jafari, Mahdi Ebrahimi, Yong M. Goh and Mohamed A. Rajion 132–138

Effect of dietary supplementation of microbial protease on performance, egg quality and nitrogen retention in white leghorn layers

S. V. Rama Rao, T. Srilatha, M. V. L. N. Raju, D. Nagalakshmi, S. S. Paul and B. Prakash 139–145

Effects of partial replacement of soybean meal in broiler diets with gelatin and mono-component protease on growth performance, carcass and blood biochemical characteristics, lipid oxidation of meat, and economics

Z. Olfati, F. Shariatmadari, M. A. Karimi Torshizi, H. Ahmadi, M. Sharafi and M. R. Bedford 146–155

Production Systems, Environment and Management

Winter soil N₂O emissions from a meat production system under direct grazing of Argentine Pampa

M. G. Perez, R. I. Romaniuk, V. R. N. Cosentino, M. Busto, F. A. González, M. A. Taboada, B. J. R. Alves and A. O. Costantini 156–162

Meat Science and Product Quality

Meat quality and lipid profile of intramuscular fat of Texel crossbred lambs classified by residual intake and gain

Mayara Mitiko Yoshihara Carneiro, Maria da Graça Morais, Andréa Roberto Duarte Lopes Souza, Adriana Garabini de Freitas Andrade, Henrique Jorge Fernandes, Gumercindo Lorian Franco, Tereza Gabriela da Costa, Catherine Cecília Walker and Bruna Biava de Menezes 163–171

Effects of differences in level of post-weaning nutrition and in sire expected progeny differences for ribeye area on retail cuts yield in Hereford steers

Daniela Correa, Mario Lema, Olga Ravagnolo, Juan Clariget, Santiago Luzardo and Gustavo Brito 172–178

Assessment of atherogenic index, long-chain omega-3 fatty acid and phospholipid content of prime beef: a survey of commercially sourced New Zealand Wagyu and Angus beef cattle

Emma N. Bermingham, Michael Agnew, Mariza Gomes Reis, Kevin Taukiri, Arjan Jonker, David Cameron-Smith and Cameron R. Craigie 179–190

Technology and Education

Body tissue development of Santa Inês breed sheep using computed tomography

André Torres Geraldo, Aylton Bartholazzi Junior, Caroline Marçal Gomes David, Ana Carolina Barros de Freitas, Fernanda Antunes, Miguel Alejandro Silva Rua, Wilder Hernando Ortiz Vega, Julia Gazzoni Jardim, Luciana de Macêdo Mello, Thiago da Silva Correa, Renato Travassos Beltrame, Ricardo Lopes Dias da Costa and Celia Raquel Quirino 191–200