

Contents

Volume 63 Issue 2 2023

Review

Microbiome engineering to combat antimicrobial resistance and upsurge productivity of food animals: a systematic review

Al-Reem A. Johar, Lubna I. Abu-Rub, Hassan Al Mana, Hadi M. Yassine and Nahla O. Eltai

101–112

Physiology, Endocrinology and Reproduction

Oleic acid, independent of insulin, promotes differentiation of goat primary preadipocytes *in vitro*

Wen Tian, Hua Xiang, Qian Li, Yong Wang, Jiangjiang Zhu and Yaqiu Lin

113–119

Metabolism and Feed Quality

Weight gain and enteric methane production of cattle fed on tropical grasses

D. Korir, S. Marquardt, R. Eckard, A. Sanchez, U. Dickhoefer, L. Merbold, K. Butterbach-Bahl, C. Jones,

M. Robertson-Dean and J. Goopy

120–132

Effect of *Spirulina platensis* supplementation on growth, performance and body conformation of two Omani goat breeds

F. Al-Yahyaey, I. Shaat, E. Hall and R. D. Bush

133–141

Strain differences in effects of dietary supplementation with *Aspergillus niger* cultures in protein-reduced diets on performance, plasma biochemistry and meat lipid oxidation of broilers

Omid Vosoogh Sharifi, Mohammad Amir Karimi Torshizi, Shaban Rahimi, Abdolhossein Dalimi Asl and Hamid Raei

142–151

Nutrition and Meat Quality

Sheep grazing *Trigonella balansae* had productivity, health and meat quality similar to sheep grazing subterranean clover or French serradella

Matt G. Wilmot, Hayley C. Norman, Joshua Hendry, Paul Young, Elizabeth Hulm, Andrew Toovey, Jane Speijers and Robert Harrison

152–167

The effect of ammoniated maize stover inclusion in diets on growth performance, physiological characteristics and meat quality in lambs

G. M. Chelopo and U. Marume

168–177

Benchmarking Production Systems

Technical and economic analysis, and benchmarking associated with dairy farms in Minas Gerais, Brazil

Jardeson de Souza Pinheiro, Lucas Henrique de Souza Matias, Claudia Batista Sampaio and Marcos Inácio Marcondes

178–191

Environment, Behaviour and Research

The effect of transferring dairy cows from a group housing system to individual pens for research purposes on behaviour and milk yield

Fabiellen C. Pereira, Dayane L. Teixeira, Laura Boyle, Luiz C. Pinheiro Machado Fº, Richard S. O. Williams and Daniel Enriquez-Hidalgo

192–200