

Contents

Volume 62 Issue 13 2022

Review

Cattle welfare aspects of production systems in the tropics

Adalinda Hernandez, Carlos S. Galina, Mariana Geffroy, Jens Jung, Rebecka Westin and Charlotte Berg 1203–1218

Genetics and Genomics

Crossbreeding with a tropically adapted *Bos taurus* breed (Senepol) to improve meat quality and production from Brahman herds in northern Australia. 2. Female performance

T. Schatz, M. Hearnden and J. Wheeler 1219–1228

Physiology and Reproduction

Conception rate according to antral follicle count and oestrus expression in Nelore cows submitted to timed artificial insemination

Fábio Lucas Zito de Moraes, Denis Vinicius Bonato, Ana Clara Canto Souza, Fábio Morotti and Marcelo Marcondes Seneda 1229–1235

Nutrition and Disease

Supplementation of reduced protein diets with L-arginine and L-citrulline for broilers challenged with subclinical necrotic enteritis. 1. Growth, carcass yield, and intestinal lesion scores

Hiep Thi Dao, Nishchal K. Sharma, Ali Daneshmand, Alip Kumar, Emma J. Bradbury, Shu-Biao Wu and Robert A. Swick 1236–1249

Supplementation of reduced protein diets with L-arginine and L-citrulline for broilers challenged with subclinical necrotic enteritis. 2. Intestinal permeability, microbiota, and short-chain fatty acid production

Hiep Thi Dao, Nishchal K. Sharma, Reza Barekatain, Sarbast K. Kheravii, Emma J. Bradbury, Shu-Biao Wu and Robert A. Swick 1250–1265

Supplementation of reduced protein diets with L-arginine and L-citrulline for broilers challenged with subclinical necrotic enteritis. 3. Immunological parameters and gene expression

Hiep Thi Dao, Nishchal K. Sharma, Sarbast K. Kheravii, Emma J. Bradbury, Shu-Biao Wu and Robert A. Swick 1266–1279

Feed Quality and Nutritional Value

Evaluation of *n*-alkanes, long-chain alcohols, and carbon stable isotope enrichments of *n*-alkanes as diet composition markers in free-grazing animals

Teklu Wegi, Abubeker Hassen, Melkamu Bezabih, Ajebu Nurfeta, Sintayehu Yigrem and Adugna Tolera 1280–1289

Behaviour and Well-being

Livestock guardian dog protection of free-range poultry from the red fox

S. Roddick, T. L. Kreplins, H. T. Kobryn and P. A. Fleming 1290–1302