

ANIMAL PRODUCTION SCIENCE

CONTENTS Volume 58, Issue 10, 2018, 1767–1966

Review

Progress in comprehending the phytate–phytase axis in chicken-meat production

Amy F. Moss, Sonia Yun Liu and Peter H. Selle 1767–1778

Genetics and Genomics

Consequences of genetic selection for environmental impact traits on economically important traits in dairy cows

Purna Kandel, Sylvie Vanderick, Marie-Laure Vanrobays, Hélène Soyeurt and Nicolas Gengler 1779–1787

Genetic association between stayability, and productive and reproductive traits in Holstein cows

Graziela M. F. Rocha, Jaime A. Cobuci, Cláudio N. Costa, Luíza R. A. Abreu,

Lúcio F. M. Mota, Aldrin V. Pires, Severino D. J. Villela and Paulo G. M. A. Martins 1788–1793

An assessment of sire-breed effects on carcass and meat quality traits of lambs at the ages of 40 and 100 days from Comisana ewes crossed with Suffolk or Bergamasca rams

Pasquale De Palo, Aristide Maggiolino, Pasquale Centoducati, Giovanna Calzaretti,

Edmondo Ceci and Alessandra Tateo 1794–1801

Physiology, Endocrinology and Reproduction

Pregnancy establishment and maintenance after the administration of equine chorionic gonadotropin (eCG) associated or not with gonadotropin-releasing hormone (GnRH) after insemination in sheep

C. García-Pintos and A. Menchaca 1802–1806

Nutrition and Metabolism

Energy relations in cattle can be quantified using open-circuit gas-quantification systems

M. Caetano, M. J. Wilkes, W. S. Pitchford, S. J. Lee and P. I. Hynd 1807–1813

Effects of phosphorus supplementation in high-grain diets on blood, chemical and physical parameters of bones of feedlot Nellore bulls

Vinicius C. Souza, Pedro Malafaia, Yury T. Granja-Salcedo, Bruno R. Vieira, Raphael S. Gomes,

Diogo F. A. Costa, João Alberto Negrão, Antônio C. Shimano and Telma T. Berchielli 1814–1821

Effects of drinking saline water on food and water intake, blood and urine electrolytes and biochemical and haematological parameters in goats: a preliminary study

Evangelos Zoidis and Ioannis Hadjigeorgiou 1822–1828

Feeding antioxidant vitamin and vegetable oils to broilers: vitamin E reduced negative effect of soybean oil on immune response and meat lipid oxidation

M. Mohiti-Asli and M. Ghanaatparast-Rashti 1829–1836

Effect of zinc concentration and source on performance, tissue mineral status, activity of superoxide dismutase enzyme and lipid peroxidation of meat in broiler chickens

S. Kamran Azad, F. Shariatmadari, M. A. Karimi Torshizi and Hamed Ahmadi 1837–1846

Effect of prepartum supplementation with niacin, choline and cod liver oil on postpartum insulin sensitivity and the redox status in cows with subclinical ketosis

Mohamed A. Youssef, Maged R. El-Ashker and Marwa S. Younis 1847–1853

Supplementation with N-carbamylglutamate and vitamin C: improving gestation and lactation outcomes in sows under heat stress

Tao Feng, Jiahua Bai, Xiaoling Xu, Yong Guo, Zheng Huang and Yan Liu 1854–1859

Feed Quality, Nutritional Value and Toxicology

Fermentation quality, *in vitro* digestibility and aerobic stability of total mixed ration silages prepared with whole-plant corn (*Zea mays* L.) and hullless barley (*Hordeum vulgare* L.) straw

XianJun Yuan, AiYou Wen, Jian Wang, JunFeng Li, Seare T. Desta, D. J. Undersander and Tao Shao 1860–1868

Continued on next page

Nutritional parameters of beef heifers fed diets with different roughages

K. A. K. de Moraes, E. H. B. K. de Moraes, D. S. Pina and S. C. Valadares Filho 1869–1875

Effects of hydrated sodium calcium aluminosilicate on growth performance, fatty liver, intestine morphology, and serum parameters of overfed geese

Junwang Tang, Maxue Lu, Qianqian Fang, Feizhen Lu, Rongyi Shao, Junda Shen, Dailin Lu, Jun He, Lizhi Lu and Dong Niu 1876–1884

Growth performance, digestibility, haematology, biochemistry, and some humoral immunity blood parameters of broiler chickens fed different levels of *Boswellia serrata* resin

Ali Ridha Mustafa Al-Yasiry, Bożena Kiczorowska, Wioletta Samolińska and Edyta Kowalczyk-Vasilev 1885–1891

Behaviour, Well-being and Health

Effect of supplementing milk replacer with aromatic oregano (*Oreganum onites* L.) water on performance, immunity and general health profiles of Holstein calves

Serkan Ozkaya, Sabri Erbas, Oktay Ozkan, Hasan Baydar and Taylan Aksu 1892–1900

Impact of dietary *Moringa oleifera* leaves on intestinal pathogenic load and histological structure of growing rabbits raised under heat-stress conditions

A. Y. El-Badawi, I. El-Wardany, S. I. Abd El-Moez, F. I. S. Helal, Nemataallah G. M. Ali, M. I. Shourrap and O. M. Aboelazab 1901–1907

Environment, Production Systems and Management

Shearing ewes in the first third of gestation improves offspring performance

C. López-Mazz, F. Baldi, G. Quintans and G. Banchero 1908–1914

The influence of housing and feeding systems on selected fattening and slaughter parameters of finishing pigs with different genotypes

Damian Knecht, Anna Jankowska-Mąkosa, Sebastian Środoń and Kamil Duziński 1915–1921

Meat Science and Product Quality

A comparison of the effects of post-mortem aging on breast meat from Cobb 500 and Hubbard ISA broilers

J. L. M. Mello, R. A. Souza, G. C. Paschoalin, F. B. Ferrari, B. M. Machado, A. Giampietro-Ganeco, P. A. Souza and H. Borba 1922–1931

Impact of zilpaterol hydrochloride and soybean-oil supplementation on intramuscular fat, fatty acid profile and cholesterol concentration in the *longissimus* muscle of male hair lamb under moderate heat-stress conditions

J. L. Dávila-Ramírez, L. Avendaño-Reyes, E. A. Peña-Ramos, T. Y. Islava-Lagarda, U. Macías-Cruz, N. G. Torrentera-Olivera, R. Rojo-Rubio and H. González-Ríos 1932–1939

Compositional, organoleptic, metabolic enzyme activity and fibre characteristics of muscle from bulls with different growth paths to a common carcass weight

G. B. Mezgebo, F. J. Monahan, M. McGee, E. G. O' Riordan, B. Picard, R. I. Richardson and A. P. Moloney 1940–1948

Effects of dietary antioxidant supplementation of steers finished with 30% wet distillers grains plus solubles on fatty acid profiles and display life of strip loins

M. D. Chao, K. I. Domenech-Pérez, H. R. Voegelé, E. K. Kunze and C. R. Calkins 1949–1957

Physicochemical changes of *semimembranosus* muscle during the processing of dry-cured ham from Celta pig.

Effect of crossbreeding with Duroc and Landrace genotypes

Roberto Bermúdez, Ruben Domínguez, Mirian Pateiro, Daniel Franco, Javier Carballo and José M. Lorenzo 1958–1965

Corrigendum 1966–1966