

**Review article**

- 947–954 **Predicted metabolizable energy density and amino acid profile of the crop contents of free-living scarlet macaw chicks (*Ara macao*)**  
J. Cornejo; E. S. Dierenfeld; C. A. Bailey; D. J. Brightsmith

**Original articles**

- 955–961 **Effects of alpha-lipoic acid supplementation on antioxidative ability and performance of sows and nursing piglets**  
X. M. Bai; Q. G. Ma; L. H. Zhao; L. Xi; C. Ji
- 962–969 **Impact of different inclusion levels of oil palm (*Elaeis guineensis Jacq.*) fronds on fatty acid profiles of goat muscles**  
M. Ebrahimi; M. A. Rajion; Y. M. Goh; A. Q. Sazili
- 970–977 **The effect of supplementation of clove and agrimony or clove and lemon balm on growth performance, antioxidant status and selected indices of lipid profile of broiler chickens**  
V. Petrović; S. Marcincak; P. Popelka; J. Simkova; M. Martonova; J. Buleca; D. Marcincakova; M. Tuckova; L. Molnar; G. Kovac
- 978–984 **Training-induced modifications of circadian rhythmicity of peroxidative parameters in horses**  
G. Piccione; C. Giannetto; S. Marafioti; C. Faggio; D. Alberghina; F. Fazio
- 985–992 **Carry-over effects of body condition in the early pregnant ewe on peri-partum adipose tissue metabolism**  
J. Álvarez-Rodríguez; G. Estopañan; A. Sanz; E. Dervishi; N. Govoni; C. Tamanini; M. Joy
- 993–1002 **Impact of dietary manganese concentration on status criteria to determine manganese requirement in piglets**  
J. Pallauf; C. Kauer; E. Most; S. D. Habicht; J. Moch
- 1003–1011 **Cats during gestation and lactation fed with canned food ad libitum: energy and protein intake, development of body weight and body composition**  
B. Wichert; M. Signer; D. Uebelhart
- 1012–1019 **Effect of alternate day feeding strategy of sub-optimal protein level on haemato-biochemical responses in *Labeo rohita* (Hamilton) juveniles**  
P. Kumar; K. K. Jain; S. Munilkumar; N. P. Sahu; G. M. Siddaiah; H. Saha
- 1020–1029 **Fish oil supplementation improved liver phospholipids fatty acid composition and parameters of oxidative stress in male wistar rats**  
T. Popović; S. Borožan; A. Arsić; J. D. Martačić; V. Vučić; A. Trbović; L. Mandić; M. Glibetić
- 1030–1043 **Evaluations of the nutritional value of *Jatropha curcas* protein isolate in common carp (*Cyprinus carpio L.*)**  
V. Kumar; H. P. S. Makkar; K. Becker
- 1044–1053 **Concentrations of retinol, 3,4-didehydroretinol, and retinyl esters in plasma of free-ranging birds of prey**  
K. Müller; J. Raila; R. Altenkamp; D. Schmidt; R. Dietrich; A. Hurtienne; M. Wink; O. Krone; L. Brunnberg; F. J. Schweigert
- 1054–1064 **Propionate absorbed from the colon acts as gluconeogenic substrate in a strict carnivore, the domestic cat (*Felis catus*)**  
A. Verbrugge; M. Hesta; S. Daminet; I. Polis; J. J. Holst; J. Buyse; B. Wuyts; G. P. J. Janssens
- 1065–1073 **The effect of excess cobalt on milk fatty acid profiles and transcriptional regulation of *SCD*, *FASN*, *DGAT1* and *DGAT2* in the mammary gland of lactating dairy cows**  
I. J. Karlengen; O. M. Harstad; O. Taugbøl; I. Berget; A. H. Aastveit; D. I. Våge
- 1074–1083 **Inhibition of the pro-inflammatory NF-κB pathway by a grape seed and grape marc meal extract in intestinal epithelial cells**  
D. K. Gessner; R. Ringseis; M. Siebers; J. Keller; J. Kloster; G. Wen; K. Eder
- 1084–1090 **Indirect evidence for microbiota reduction through dietary mannanoligosaccharides in the pigeon, an avian species without functional caeca**  
E. Abd El-Khalek; I. D. Kalmar; M. De Vroey; R. Ducatelle; F. Pasmans; G. Werquin; G. P. J. Janssens
- 1091–1100 **Effect of dietary *Rhodobacter capsulatus* on lipid fractions and egg-yolk fatty acid composition in laying hens**  
U. Salma; A. G. Miah; H. Tsujii; K. Schellander; K.-H. Südekum
- 1101–1111 **Intact brown seaweed (*Ascophyllum nodosum*) in diets of weaned piglets: effects on performance, gut bacteria and morphology and plasma oxidative status**  
J. Michiels; E. Skrivanova; J. Missotten; A. Ovyn; J. Mrazek; S. De Smet; N. Dierick
- 1112–1120 **Influence of feeding *Tinospora cordifolia* peripartum on lactation parameters in crossbred cows**  
S. Mallick; B. S. Prakash
- 1121–1126 **In vitro inhibition of ETEC K88 adhesion by pea hulls and of LT enterotoxin binding by faba bean hulls**  
P. M. Becker; J. van der Meulen; A. J. M. Jansman; P. G. van Wikselaar
- 1127–1135 **Effects of fairage time after road transport on some blood indicators of welfare and meat quality traits in sheep**  
H. W. Liu; R. Z. Zhong; D. W. Zhou; H. X. Sun; C. S. Zhao
- 1136–1146 **Digestibility for dogs and cats of meat and bone meal processed at two different temperature and pressure levels**  
L. D. de-Oliveira; M. A. de Carvalho Picinato; I. M. Kawauchi; N. K. Sakomura; A. C. Carciofi
- 1147–1156 **Effect on hepatonephric organs, serum metabolites and oxidative stress in post-weaning piglets fed purified zearalenone-contaminated diets with or without Calibrin-Z**  
S. Z. Jiang; Z. B. Yang; W. R. Yang; S. J. Wang; Y. Wang; J. Broomhead; S. L. Johnston; F. Chi
- 1157–1164 **Effects of flushing and hormonal treatment on reproductive performance of Iranian Markhuz goats**  
H. D. Kia; W. M. Chapdareh; A. H. Khani; G. Moghaddam; A. Rashidi; H. Sadri; S. Alijani