

Animal Physiology and Animal Nutrition

October 2013 • Volume 97 (5) • 807–1006

Original articles

- 807–812 **Effects of pre-weaning dietary substitutions on plasma insulin and glucose profiles in primiparous sows**
T.Y. Chen; P. Stott; S. O'Leary; R. Z. Athorn; E. G. Bouwman; P. Langendijk
- 813–819 **Overweight and impaired insulin sensitivity present in growing cats**
T. Häring; B. Haase; E. Zini; S. Hartnack; D. Uebelhart; D. Gaudenz; B. A. Wichert
- 820–829 **Expression of fibroblast growth factor 21 in the liver of dairy cows in the transition period and during lactation**
G. Schlegel; R. Ringseis; J. Keller; F. J. Schwarz; W. Windisch; K. Eder
- 830–837 **Effects of feeding a high omega-3 fatty acids diet in dogs with naturally occurring osteoarthritis**
M. Moreau; E. Troncy; J. R. E. del Castillo; C. Bédard; D. Gauvin; B. Lussier
- 838–845 **Effects of high-sulphur water on hepatic gene expression of steers fed fibre-based diets**
K. L. Kessler; K. C. Olson; C. L. Wright; K. J. Austin; K. McInerney; P. S. Johnson; R. R. Cockrum; A. M. Jons; K. M. Cammack
- 846–853 **The effect of dietary long-chain omega-3 fatty acid supplementation on owner's perception of behaviour and locomotion in cats with naturally occurring osteoarthritis**
R. J. Corbee; M. M. C. Barnier; C. H. A. van de Lest; H. A. W. Hazewinkel
- 854–860 **The effects of early-age thermal manipulation and daily short-term fasting on performance and body temperatures in broiler exposed to heat stress**
M. Günal
- 861–867 **Physiological and hormonal aspects in female domestic pigeons (*Columba livia*) associated with breeding stage and experience**
X. Y. Dong; M. Zhang; Y. X. Jia; X. T. Zou
- 868–877 **No effect of short-term exposure to high-fibre diets on the gastrointestinal morphology of layer hens (*Gallus gallus domesticus*): body reserves are used to manage energy deficits in favour of phenotypic plasticity**
S. K. Courtney Jones; A. J. Cowieson; S. A. Williamson; A. J. Munn
- 878–886 **Folic acid supplementation prevents the changes in hepatic promoter methylation status and gene expression in intrauterine growth-retarded piglets during early weaning period**
L. Jing-bo; Y. Ying; Y. Bing; M. Xiang-bing; H. Zhi-qing; H. Guo-quan; C. Hong; C. Dai-wen
- 887–895 **In ovo leptin administration accelerates post-hatch muscle growth and changes myofibre characteristics, gene expression and enzymes activity in broiler chickens**
P. Liu; Y. Hu; R. Grossmann; R. Zhao
- 896–903 **The energy value of biodiesel glycerine products fed to broilers at different ages**
E. M. C. Lima; P. B. Rodrigues; R. R. Alvarenga; V. M. P. Bernardino; L. Makiyama; R. R. Lima; V. S. Cantarelli; M. G. Zangeronimo
- 904–910 **Obesity in show dogs**
R. J. Corbee
- 911–918 **Effect of wheat processing on rumen characteristics and rumen parameters in Holstein-Friesian calves**
S. S. Mirghaffari; K. Karkoodi; A. Mirza-aghazadeh; N. Maheris-sis
- 919–932 **Milk casein and fatty acid fractions in early lactation are affected by nutritional regulation of body condition score at the beginning of the transition period in primiparous and multiparous cows under grazing conditions**
V. Artegoitia; A. Meikle; L. Olazabal; J. P. Damián; M. L. Adrien; D. A. Mattiauda; J. Bermudez; A. Torre; M. Carriquiry
- 933–941 **A comparative study at two different altitudes with two dietary nutrition levels on rumen fermentation and energy metabolism in Chinese Holstein cows**
G. H. Qiao; T. Shao; C. Q. Yu; X. L. Wang; X. Yang; X. Q. Zhu; Y. Lu
- 942–950 **Altered response to hydrogen sulphide during experimental colitis in rats**
J. Steidle; L. Würner; M. Diener
- 951–959 **Comparison of three markers for the determination of bacterial protein in terminal ileal digesta in the growing pig**
W. Miner-Williams; P. J. Moughan; M. F. Fuller
- 960–970 **Gut and intestinal passage time in the Rainbow Skink (*Trachylepis margaritifer*): implications for stress measures using faecal analysis**
A. K. Miller; B. F. N. Erasmus; G. J. Alexander
- 971–985 **Post-glucose load changes of plasma key metabolite and insulin concentrations during pregnancy and lactation in ewes with different susceptibility to pregnancy toxæmia**
R. Duehlmeier; I. Fluegge; B. Schwert; M. Ganter
- 986–995 **Effects of dietary red pepper on egg yolk colour and histological intestinal morphology in laying hens**
K. Lokaewmanee; K. Yamauchi; N. Okuda
- 996–1005 **Specific and non-specific immunity of piglets from sows fed diets containing specific fatty acids in field conditions**
G. Benzoni; F. Foresti; I. L. Archetti; G. Coceva; A. Guyonvarch; L. Alborali

Erratum

1006 Erratum

ISSN 0931–2439 (Print)

ISSN 1439–0396 (Online)