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Genetics, Animal Genetic Resources and Breeding

Original research articles

MicroRNA expression patterns in tail fat of different breeds of sheep

Y. Pan, J. Jing, J. Zhao, X. Jia, L. Qiao, L. An, B. Li, Y. Ma, Y. Zhang and W. Liu

Flow cytometry sex sorting affects bull sperm longevity and compromises their capacity to bind to oviductal cells

J.d.O. Carvalho, R. Sartori, L. Rodello, G.B. Mourão, S.D. Bicudo and M.A.N. Dode

Copy number variation regions in Nellore cattle: Evidences of environment adaptation

M.V.A. de Lemos, M.P. Berton, G.M.F. de Camargo, E. Peripolli, R.M. de Oliveira Silva, B.F. Olivieri, A.S.M. Cesar, A.S.C. Pereira, L.G. de Albuquerque, H.N. de Oliveira, H. Tonhati and F. Baldi

Supplementation of diets with omega-3 fatty acids from microalgae: Effects on sow reproductive performance and metabolic parameters

C.J.M. Posser, L.M. Almeida, F. Moreira, I. Bianchi, B.G. Gasperin and T. Lucia Jr.

The repeatability of individual nutrient digestibility in pigs

W. Ouweltjes, L.M.G. Verschuren, J. Pijlman, R. Bergsma, D. Schokker, E.F. Knol, P.J. van der Aar, F. Molist and M.P.L. Calus

Effect of candidate genes for maternal ability on piglet survival and growth

E. Jonas and L. Rydhmer

Genetic and phenotypic parameters for feed efficiency in indigenous chicken in Kenya

S. Miyumo, C.B. Wasike and A.K. Kahi

Ruminant Nutrition

Original research articles

Impact of breed on the rumen microbial community composition and methane emission of Holstein Friesian and Belgian Blue heifers

T. De Mulder, N. Peiren, L. Vandaele, T. Ruttink, S. De Campeneere, T. Van de Wiele and K. Goossens

Energy and protein requirements for maintenance of Southern Yellow cattle fed a corn silage or straw-based diet

M. Wei, L. Chen, X.M. Lian, Z.Q. Chen and P.S. Yan

Non-Ruminant Nutrition

Original research articles

Effect of enzymatically hydrolyzed scallop visceral protein powder used as a replacement of fish meal on the growth performance, immune responses, intestinal microbiota and intestinal morphology of broiler chickens

R.E. Xing, H.Y. Yang, X.Q. Wang, H.H. Yu, S. Liu, X.L. Chen and P.C. Li

Effect of wheat as a feedstuff in starter diets on nursery pig growth performance and digestibility

D.J. Bloxham, C.R. Dove and M. Azain

Gastrointestinal microbial diversity and short-chain fatty acid production in pigs fed different fibrous diets with or without cell wall-degrading enzyme supplementation

Y.J. Zhang, Q. Liu, W.M. Zhang, Z.J. Zhang, W.L. Wang and S. Zhuang

Livestock Farming Systems and Management

Original research articles

Culling vs. emergency vaccination: A comparative economic evaluation of strategies for controlling classical swine fever in the EU

V. Otter, M. Näther and L. Theuvsen

Physiology

Original research articles

Differential level of oxidative stress markers in skin tissue of zebu and crossbreed cattle during thermal stress

U. Maibam, O.K. Hooda, P.S. Sharma, R.C. Upadhyay and A.K. Mohanty

Effect of dietary supplementation with *Pleurotus ostreatus* on growth performance and meat quality of Japanese quail

R.D. Vargas-Sánchez, G.R. Torrescano-Urrutia, F.J. Ibarra-Arias, J.J. Portillo-Loera, F.G. Ríos-Rincón and A. Sánchez-Escalante

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Reproduction Physiology

Original research articles

Liquid storage of ram semen for 96 h: Effects on kinematic parameters, membranes and DNA integrity, and ROS production

L. Falchi, G. Galleri, M.T. Zedda, S. Pau, L. Bogliolo, F. Ariu and S. Ledda

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Effects of gel-embedded embryos on developmental competence of separated bovine blastomeres

T. Juanpanich, T. Suttirojpattana, Y. Liang, O. Dochi, R. Parnpai and K. Imai

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Impact of exogenous adrenocorticotrophic hormone on gelatinase expression and steroidogenesis in the newly formed corpus luteum in sows

Z. Qian, H. Zhu, Y. Lv, H. Liu and E. Bao

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Using kinematics to detect micro-behavioural changes relative to ovulation in naturally cycling tie-stall dairy heifers

M.J. Guesgen and C.J. Bench

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