

Genetics, Animal Genetic Resources and Breeding*Original research articles*

- Hair coat score in Angus cattle: Comparison of linear and threshold models, genetic gain and correlations with growth, morphological and reproductive traits
D.D.d. Silveira, J.S.A. Tineo, P.I. Schmidt, G.S. Campos, F.R.P.d. Souza, V.M. Roso and A.A. Boligon 104512

- Genomic and phenotypic analyses of antral follicle count in Aberdeen Angus cows
G.A. Oliveira Júnior, V.G. Pinheiro, P.A.S. Fonseca, C.B. Costa, E.M. Pioltine, R.C. Botigelli, E.M. Razza, R.L. Ereno, J.B.S. Ferraz, M.M. Seneda and M.F.G. Nogueira 104534

Ruminant Nutrition*Original research articles*

- Feeding efficiency and behavior of young Simmental bulls selected for high growth capacity: Comparison of bulls with high vs. low residual feed intake
A. Romanzin, L. Degano, D. Vicario and M. Spanghero 104525

- Estimating digestible nutrients in diets for small ruminants fed with tropical forages
C.H. da Cruz, S.A. Santos, G.G.P. de Carvalho, J.A.G. Azevedo, E. Detmann, S.d.C. Valadares Filho, L.D.S. Mariz, E.S. Pereira, I.M.C. Nicory, M.S.L. Tosto and H.D.R. Alba 104532

Non-Ruminant Nutrition*Short communication*

- Impact of gastric ulceration on weight gain in finisher pigs
H. Dunlop, J. Timmer and S. McOrist 104527

Behaviour, Health and Welfare*Original research articles*

- Feed intake and feeding behaviour traits of gestating sows are associated with undesirable outcomes
L. Vargovic, S. Hermes, R.Z. Athorn and K.L. Bunter 104526

- Does the avoidance distance test at the feed barrier have scientific validity for evaluating reactivity to humans in Limousin breeding bulls?
L. Bacher, V. Prieur, R. Lardy and X. Boivin 104535

Livestock Farming Systems and Management*Review papers*

- An overview of the current trends in precision pig farming technologies
C. Tzanidakis, P. Simitzis, K. Arvanitis and P. Panagakis 104530

Original research articles

- Weight gain, grazing behavior and carcass quality of desert grass-fed Rarámuri Criollo vs. crossbred steers
M.M. McIntosh, A.F. Cibils, R.E. Estell, S. Nyamuryekung'e, A.L. González, Q. Gong, H. Cao, S.A. Spiegel, S.A. Soto-Navarro and A.D. Blair 104511

- How can housing system affect growth and carcass traits, meat quality and muscle fiber characteristics in *biceps femoris* and mineral content of tibia and femur bones in growing rabbits?
O. Krunt, L. Zita, A. Kraus and Z. Volek 104531

- Effects of different feeder and floor space allowances on growth performance and welfare aspects in nursery pigs
F. Laskoski, J.E.G. Faccin, M.L. Bernardi, A.P.G. Mellagi, R.R. Ulguim, G.F.R. Lima, M.A.D. Gonçalves, U.A.D. Orlando, R. Kummer, I. Wentz and F.P. Bortolozzo 104533

Physiology*Original research articles*

- Silymarin improved the growth performance via modulating the microbiota and mucosal immunity in *Escherichia coli*-challenged broiler chicks
E. Jahanian, A.H. Mahdavi and R. Jahanian 104529

(Contents continued on inside back cover)

(Continued from outside back cover)

Reproduction Physiology

Original research articles

Seasonal changes in testosterone and thyroxine concentrations in Mediterranean rams and bucks and their relationship with sperm cryoresistance
B. Martínez-Madrid, C. Castaño, L.P. Ureña, E. Flix, R. Velázquez, A. López-Sebastián, R. Ungerfeld, F.A. Arrebola and J. Santiago-Moreno 104513

Natural versus induced estrus indicators of Holstein heifers determined by an automated activity monitoring system
K. Macmillan, M. Gobikrushanth, G. Plastow and M.G. Colazo 104514

Uterine health and fertility of timed AI postpartum

Nelore beef cows raised in the Amazon biome

J.d.S. Andrade, E.M. Moreira, G.M. da Silva,

A. Schneider, V.R.R. Nunes, R.R. da Silva and

L.F.M. Pfeifer

104528