

F

Genetics, Animal Genetic Resources and Breeding*Review papers*

Practical aspects of the use of probiotics in pig production:

A review

E. Barba-Vidal, S.M. Martín-Orúe and L. Castillejos

84

Original research articles

Nutritive value of plantain and chicory for pigs

T. Rattanasomboon, T.J. Wester, S.L. Smith and P.C.H. Morel

8

Estimating compartmental and total tract apparent digestibility in horses using internal and external markers

M. Bachmann, M. Glatter, M. Bochnia, J.M. Greef, G. Breves and A. Zeyner

16

Genetic markers associated with resistance to infectious diseases have no effects on production traits and haematological parameters in Italian

Large White pigs

C. Geraci, A.R. Varzandi, G. Schiavo, S. Bovo, A. Ribani, V.J. Utzeri, G. Galimberti, L. Buttazoni, C. Ovilo, M. Gallo, S. Dall'Olio and L. Fontanesi

32

Effects of dietary beta-glucans, glucomannans and mannan oligosaccharides or chlorohydroxyquinoline on the performance, diarrhea, hematological parameters, organ weight and intestinal health of weanling pigs

C.M.d. Anjos, F.D. Gois, C.M.d. Anjos, V.d.S. Rocha, D.E.d.S.e. Castro, I.B. Allaman, F.L. Silva, P.L.d.O. Carvalho, C. Meneghetti and L.B. Costa

39

Energy and nutrient digestibility of degossypolized cottonseed protein and its utilization as a protein source in nursery pigs

Q.Y. Wang, G. Zhang, J.B. Zhao, X.J. Zhou, W.X. Dong, L. Liu, Z.P. Zhu and S. Zhang

53

Development of a genetic tool for determining breed purity of cattle

I. Hulsegge, M. Schoon, J. Windig, M. Neuteboom, S.J. Hiemstra and A. Schurink

60

Effects of ethanol extract of elecampane (*Inula helenium* L.) rhizome on growth performance, diet digestibility, gut health, and antioxidant status in broiler chickens

M.E. Abolfathi, S.A. Tabeidian, A.D. Foroozandeh Shahraki, S.N. Tabatabaei and M. Habibian

68

Predicting feedlot cattle performance from intake of dry matter and NEg early in the feeding period

A.M. Silvestre, G.D. Cruz, F.N. Owens, M.C.S. Pereira, R.B. Hicks and D.D. Millen

108

Reproductive characteristics of male and female Japanese quails (*Coturnix coturnix japonica*) fed diets with different levels of crude protein during the growth and production phases

P.L. Retes, D.G. das Neves, L.F. Bernardes, D.d.R. Lima, C.B. Ribeiro, N.d.C. Gonçalves, R.R. Alvarenga, E.J. Fassani and M.G. Zangeronimo

124

Relationships among maternal backfat depth, plasma adipokines and the birthweight of piglets

P. Superchi, R. Saleri, S. Menčik, S. Dander, V. Cavalli, C. Izzi, M. Ablondi and A. Sabbioni

138

Combining extended lactation with sexed semen in a dairy cattle herd: Effect on genetic and total economic return

J.B. Clasen, J.O. Lehmann, J.R. Thomasen, S. Østergaard and M. Kargo

176

Performance and carcass quality of crossbred beef x Holstein bull and heifer calves in comparison with purebred Holstein bull calves slaughtered at 17 months of age in an organic production system

M. Vestergaard, K.F. Jørgensen, C. Çakmakçı, M. Kargo, M. Therkildsen, A. Munk and T. Kristensen

184

Non-Ruminant Nutrition*Review papers*

Effect of a combination phytase and carbohydrase enzyme supplement on growth performance and bone mineralization of pigs from six weeks to slaughter at 105 kg

P.G. Lawlor, P. Cozannet, W.F. Ryan and P.B. Lynch

144

*Original research articles*Effect of supplementing the laying hen diets with choline, folic acid, and vitamin B₁₂ on production performance, egg quality, and yolk phospholipid

N. Janist, P. Srichana, T. Asawakarn and S. Kijparkorn

24

Effects of dietary supplementation of alfalfa polysaccharides on growth performance, small intestinal enzyme activities, morphology, and large intestinal selected microbiota of piglets

C.Y. Zhang, L.P. Gan, M.Y. Du, Q.H. Shang, Y.H. Xie and G.G. Zhang

47

Effect of different sources and contents of zinc on growth performance, carcass characteristics, humoral immunity and antioxidant status of broiler chickens exposed to high environmental temperatures

H. Akhavan-Salamat and H.A. Ghasemi

76

Digestive effects and intestinal health of ponies fed a complete single diet, thermally processed and containing long fiber

K. Feltre, J.C.d.C. Balieiro, H. Fukumasu and A.A.d.O. Gobesso

151

Anti-inflammatory and antioxidant activities of probiotic powder containing <i>Lactobacillus plantarum</i> 1.2567 in necrotic enteritis model of broiler chickens L. Cao, X.H. Wu, Y.L. Bai, X.Y. Wu and S.B. Gu	157	<i>Short communication</i> Brainstem auditory evoked potentials (BAEP) in dairy calves P. González-Blanco, R. Cediel-Algovia, J. Blanco-Murcia and M. Re	172
Fatty acid composition of liver and breast meat of quails fed diets containing black cumin (<i>Nigella sativa</i> L.) and/or coriander (<i>Coriandrum sativum</i> L.) seeds as unsaturated fatty acid sources Ö. Karadağoğlu, T. Şahin, M. Ölmez, U. Ahsan, B. Özsoy and K. Ön	164	Livestock Farming Systems and Management <i>Original research articles</i> Forage production strategies for improved profitability in organic dairy production at high latitudes O. Flaten, A.K. Bakken, A. Lindås and H. Steinshamn	97
Behaviour, Health and Welfare <i>Original research articles</i> Dynamic space utilization for lame and non-lame gestating sows estimated by the lying-standing sequence J.M. Mumm, J.A.C. Díaz, J.D. Stock, A.K. Johnson, J.C.M. Dekkers, A. Ramirez, S. Azarpajouh and K.J. Stalder	1	Physiology <i>Original research articles</i> Fatty acid composition of mesenteric, cardiac, abdominal, intermuscular, and subcutaneous adipose tissues from horses of three body condition scores E.N. Ferjak, C.A. Cavinder, A.T. Sukumaran, D.D. Burnett, C.O. Lemley and T.T.N. Dinh	116
Does a higher content of fibre in the piglet diet have an influence on tail biting in growing pigs? A. Naya, M. Gertz, M. Hasler, E. Große Beilage and J. Krieter	133		