

CONTENTS

Breeding and genetics

Hely, F. S., Amer, P. R., Walker, S. P. and Symonds, J. E.

Optimised parent selection and minimum inbreeding mating in small aquaculture breeding schemes: a simulation study 1

Becker, A.-C., Stock, K. F. and Distl, O.

Correlations of unfavorable movement characteristics in warmblood foals and mares with routinely assessed conformation and performance traits 11

Gunia, M., Mondonnet, N., Arquet, R., Alexandre, G., Gourdine, J-L., Naves, M., Angeon, V. and Phocas, F.
Economic values of body weight, reproduction and parasite resistance traits for a Creole goat breeding goal 22

Pritchard, T., Coffey, M., Mrode, R. and Wall, E.

Genetic parameters for production, health, fertility and longevity traits in dairy cows 34

Nutrition

Schlegel, P., Sauvant, D. and Jondreville, C.

Bioavailability of zinc sources and their interaction with phytates in broilers and piglets 47

Nudda, A., Battacone, G., Bomboi, G., Floris, B., Decandia, M. and Pulina, G.

Effect of dietary iodine on thyroid hormones and energy blood metabolites in lactating goats 60

Jensen, A. N., Hansen, L. L., Baggesen, D. L. and Mølbak, L.

Effects of feeding finisher pigs with chicory or lupine feed for one week or two weeks before slaughter with respect to levels of *Bifidobacteria* and *Campylobacter* 66

Fonseca, A. J. M., Cabrita, A. R. J., Pinho, L. A. O., Kim, E. J. and Dewhurst, R. J.

Effects of protein sources on concentrations of hydrogen sulphide in the rumen headspace gas of dairy cows 75

Aufrère, J., Dudilieu, M., Andueza, D., Poncet, C. and Baumont, R.

Mixing sainfoin and lucerne to improve the feed value of legumes fed to sheep by the effect of condensed tannins 82

Fiems, L. O., De Boever, J. L., Vanacker, J. M. and De Brabander, D. L.

Effect of cull potatoes in the diet for finishing Belgian Blue double-muscling cows 93

Physiology and functional biology of systems

Ghinis-Hozumi, Y., Antaramian, A., Villarroya, F., Piña, E. and Mora, O.

Potential role of sirtuins in livestock production (review) 101

Smolinska, N., Kaminski, T., Siawrys, G. and Przala, J.

Expression of leptin and its receptor genes in the ovarian follicles of cycling and early pregnant pigs 109

Rizzo, A., Ceci, E., Pantaleo, M., Mutinati, M., Spedicato, M., Minoia, G. and Sciorsci, R. L.

Evaluation of blood and milk oxidative status during early *postpartum* of dairy cows 118

Ben Chedly, H., Lacasse, P., Marnet, P-G. and Boutinaud, M.

The decrease in milk yield during once daily milking is due to regulation of synthetic activity rather than apoptosis of mammary epithelial cells in goats 124

Petr, J., Chmelíková, E., Žalmanová, T., Tůmová, L., Kheilová, K., Kučerová-Chrpová, V. and Jilek, F.

Pyrethroids cypermethrin, deltamethrin and fenvalerate have different effects on *in vitro* maturation of pig oocytes at different stages of growth 134

Behaviour, welfare and health

Yardimci, M., Sahin, E. H., Cetingul, I. S., Bayram, I., Aslan, R. and Sengor, E.

Stress responses to comparative handling procedures in sheep 143

Stryker, J. A., Fisher, R., You, Q., Or-Rashid, M. M., Boermans, H. J., Quinton, M., McBride, B. W. and Karrow, N. A.

Effects of dietary fish meal and soybean meal on the ovine innate and acquired immune response during pregnancy and lactation 151

Burow, E., Thomsen, P. T., Rousing, T. and Sørensen, J. T.

Daily grazing time as a risk factor for alterations at the hock joint integument in dairy cows 160

Brujinis, M. R. N., Hogeveen, H. and Stassen, E. N.

Measures to improve dairy cow foot health: consequences for farmer income and dairy cow welfare 167

Shoshani, E. and Hetzroni, A.

Optimal barn characteristics for high-yielding Holstein cows as derived by a new heat-stress model 176