

CONTENTS

Breeding and genetics

- Lundgren, H., Zumbach, B., Lundeheim, N., Grandinson, K., Vangen, O., Olsen, D. and Rydhmer, L.*
Heritability of shoulder ulcers and genetic correlations with mean piglet weight and sow body condition 1
- Gjerlaug-Enger, E., Kongsro, J., Ødegård, J., Aass, L. and Vangen, O.*
Genetic parameters between slaughter pig efficiency and growth rate of different body tissues estimated by computed tomography in live boars of Landrace and Duroc 9
- Prystupa, J. M., Juras, R., Cothran, E. G., Buchanan, F. C. and Plante, Y.*
Genetic diversity and admixture among Canadian, Mountain and Moorland and Nordic pony populations 19
- Laureano, M. M. M., Bignardi, A. B., El Faro, L., Cardoso, V. L. and Albuquerque, L. G.*
Genetic parameters for first lactation test-day milk flow in Holstein cows 31
- Barrozo, D., Buzanskas, M. E., Oliveira, J. A., Munari, D. P., Neves, H. H. R. and Queiroz, S. A.*
Genetic parameters and environmental effects on temperament score and reproductive traits of Nellore cattle 36
- Nicoloso, L., Negrini, R., Ajmone-Marsan, P. and Crepaldi, P.*
On the way to functional agro biodiversity: coat colour gene variability in goats 41

Nutrition

- Matthiesen, C. F., Blache, D., Thomsen, P. D. and Tauson, A.-H.*
Foetal life protein restriction in male mink (*Neovison vison*) kits lowers post-weaning protein oxidation and the relative abundance of hepatic fructose-1,6-bisphosphatase mRNA 50
- Bhatt, R. S., Soren, N. M., Sahoo, A. and Karim, S. A.*
Re-alimentation strategy to manoeuvre body condition and carcass characteristics in cull ewes 61

Physiology and functional biology of systems

- Keller, J., Ringseis, R., Koc, A., Lukas, I., Kluge, H. and Eder, K.*
Supplementation with L-carnitine downregulates genes of the ubiquitin proteasome system in the skeletal muscle and liver of piglets 70
- Caperna, T. J., Shannon, A. E., Blomberg, L. A., Garrett, W. M. and Ramsay, T. G.*
Iron dextran treatment does not induce serum protein carbonyls in the newborn pig 79

Behaviour, welfare and health

- Andersson, K., Brunius, C., Zamaratskaia, G. and Lundström, K.*
Early vaccination with Improvac®: effects on performance and behaviour of male pigs 87
- Baxter, E. M., Lawrence, A. B. and Edwards, S. A.*
Alternative farrowing accommodation: welfare and economic aspects of existing farrowing and lactation systems for pigs 96
- Clouard, C., Meunier-Salaün, M. C. and Val-Laillet, D.*
Food preferences and aversions in human health and nutrition: how can pigs help the biomedical research? (review) 118

Adaptive response to *Eimeria acervulina* in rearing hens is affected by suboptimal incubation temperature and heat exposure in later life

- Walstra, I., ten Napel, J., Kemp, B. and van den Brand, H.* 137

- Retama-Flores, C., Torres-Acosta, J. F. J., Sandoval-Castro, C. A., Aguilar-Caballero, A. J., Cámara-Sarmiento, R. and Canul-Ku, H. L.*
Maize supplementation of Pelibuey sheep in a silvopastoral system: fodder selection, nutrient intake and resilience against gastrointestinal nematodes 145

Farming systems and environment

- Zehetmeier, M., Baudracco, J., Hoffmann, H. and Heißenhuber, A.*
Does increasing milk yield per cow reduce greenhouse gas emissions? A system approach 154
- Osorio, M. T., Moloney, A. P., Brennan, L. and Monahan, F. J.*
Authentication of beef production systems using a metabolomic-based approach 167
- Al-Ramamneh, D., Riek, A. and Gerken, M.*
Effect of water restriction on drinking behaviour and water intake in German black-head mutton sheep and Boer goats 173