

CONTENTS

Breeding and genetics

- Christensen, O. F., Madsen, P., Nielsen, B., Ostersen, T. and Su, G.*
Single-step methods for genomic evaluation in pigs 1565

- Steri, R., Dimauro, C., Canavesi, F., Nicolazzi, E. L. and Macciotta, N. P. P.*
Analysis of lactation shapes in extended lactations 1572

Nutrition

- Arroyo, J., Auvergne, A., Dubois, J. P., Lavigne, F., Bijja, M. and Fortun-Lamothe, L.*
Influence of feeding sorghum on the growth, gizzard development and carcass traits of growing geese 1583

- Létourneau-Montminy, M. P., Jondreville, C., Sauvart, D. and Narcy, A.*
Meta-analysis of phosphorus utilization by growing pigs: effect of dietary phosphorus, calcium and exogenous phytase 1590

- van Milgen, J., Gloaguen, M., Le Floc'h, N., Brossard, L., Primot, Y. and Corrent, E.*
Meta-analysis of the response of growing pigs to the isoleucine concentration in the diet 1601

- Buzoianu, S. G., Walsh, M. C., Rea, M. C., Cassidy, J. P., Ross, R. P., Gardiner, G. E. and Lawlor, P. G.*
Effect of feeding genetically modified Bt MON810 maize to ~40-day-old pigs for 110 days on growth and health indicators 1609

- Walsh, A. M., Sweeney, T., Bahar, B., Flynn, B. and O'Doherty, J. V.*
The effect of chitooligosaccharide supplementation on intestinal morphology, selected microbial populations, volatile fatty acid concentrations and immune gene expression in the weaned pig 1620

- Walsh, M. C., Geraert, P. A., Maillard, R., Kluess, J. and Lawlor, P. G.*
The effect of a non-starch polysaccharide-hydrolysing enzyme (Rovabio® Excel) on feed intake and body condition of sows during lactation and on progeny growth performance 1627

- Moreno, T., Botana, A., Bispo, E., González, L., García, C. and Mesas, J.*
High-energy forage feeding diets and body condition on the finishing of cull dairy cows 1634

- Agbagla-Dohnani, A., Cornu, A. and Broudiscou, L. P.*
Rumen digestion of rice straw structural polysaccharides: effect of ammonia treatment and lucerne extract supplementation *in vitro* 1642

- Lawrence, P., Kenny, D. A., Earley, B. and McGee, M.*
Grazed grass herbage intake and performance of beef heifers with predetermined phenotypic residual feed intake classification 1648

- Khelil-Arfa, H., Boudon, A., Maxin, G. and Faverdin, P.*
Prediction of water intake and excretion flows in Holstein dairy cows under thermoneutral conditions 1662

Behaviour, welfare and health

- van de Ven, L. J. F., van Wagenberg, A. V., Uitdehaag, K. A., Groot Koerkamp, P. W. G., Kemp, B. and van den Brand, H.*
Significance of chick quality score in broiler production 1677

- Hoffmann, G., Bentke, A., Rose-Meierhöfer, S., Berg, W., Mazetti, P. and Hardarson, G. H.*
Influence of an active stable system on the behavior and body condition of Icelandic horses 1684

Farming systems and environment

- Dehareng, F., Delfosse, C., Froidmont, E., Soyeurt, H., Martin, C., Gengler, N., Vanlierde, A. and Dardenne, P.*
Potential use of milk mid-infrared spectra to predict individual methane emission of dairy cows 1694

- Powell, J. M., Aarons, S. R. and Gourley, C. J. P.*
Determinations of feed–milk–manure relationships on grazing-based dairy farms 1702

- Chardon, X., Rigolot, C., Baratte, C., Espagnol, S., Raison, C., Martin-Clouaire, R., Rellier, J.-P., Le Gall, A., Dourmad, J. Y., Piquemal, B., Leterme, P., Paillat, J. M., Delaby, L., Garcia, F., Peyraud, J. L., Poupa, J. C., Morvan, T. and Faverdin, P.*
MELODIE: a whole-farm model to study the dynamics of nutrients in dairy and pig farms with crops 1711

- Ryschawy, J., Choisis, N., Choisis, J. P., Joannon, A. and Gibon, A.*
Mixed crop-livestock systems: an economic and environmental-friendly way of farming? 1722