Perspective
Macro developments in the China and Southeast Asia beef sector
Scott Waldron, Luong Pham, Dominic Smith, Phan Sy Hieu, Dong Xiaoxia and Colin Brown 1001–1015

Genetics and Genomics
Genotype × birth type or rearing-type interactions for growth and ultrasound scanning traits in Merino sheep
A. Dakhlan, N. Moghaddar and J. H. J. van der Werf 1016–1021
Contemporary group alternatives for genetic evaluation of milk yield in small populations of dairy cattle
Genetic correlation estimates between milk production traits, mastitis and different measures of somatic cells in Holstein cows
Arash Chegini, Navid Ghavi Hossein-Zadeh, Seyed Hossein Hosseini-Moghadam and Abdol Ahad Shadparvar 1031–1038

Physiology, Endocrinology and Reproduction
Sinusoidal function to describe the growth curve of dairy heifers
Effect of body condition and melatonin implants, inserted at different times of the year, on ovarian activity in goats maintained without male contact from the time of implantation
María de Lourdes Gallego-Calvo, María Carolina Gatica, José Luis Gzmán and Luis A. Zarazaga 1048–1055
Intrauterine growth-restricted piglets defined by their head shape have impaired survival and growth during the suckling period
C. F. Hansen, J. Hales, C. Amdi and V. A. Moustsen 1056–1062

Nutrition and Metabolism
Methane and carbon dioxide emissions from lactating dairy cows grazing mature ryegrass/white clover or a diverse pasture comprising ryegrass, legumes and herbs
Arjan Jonker, Lydia Farrell, David Scobie, Robyn Dynes, Grant Edwards, Helen Hague, Russel McAuliffe, Anna Taylor, Trevor Knight and Garry Waghorn 1063–1069
Digestion and nitrogen excretion by Holstein-Friesian cows fed grasses with lucerne or lucerne and plantain
Garry Waghorn, Amelia Griffin, Mark Bryant and Dawn Dalley 1070–1080

Feed Quality, Nutritional Value and Toxicology
Addition of several tannin extracts to modulate fermentation of barley meal under intensive ruminant feeding conditions simulated in vitro by incubating at pH 6.0–6.2
Z. Amanzougarene, S. Yuste and M. Fondevila 1081–1089
The effects of calcium source and concentration on performance, bone mineralisation and serum traits in male broiler chickens from 1 to 21 days of age
Effect of dietary niacin supplementation on performance, total tract nutrient retention, carcass yield and meat lipid profile of growing turkeys
Tolulope Olayiwadamilare Adebowale, Hongnan Liu, Abimbola Oladele Oso, Oyegunle Emmanuel Oke, Tarique Hussain, Adeyemi Mustapha Bamgbose, Kang Yao and Yin Yulong 1098–1107
The fatty acid composition of ewe milk or suckling lamb meat can be used to discriminate between ewes fed different diets
S. Lobón, M. Joy, A. Sanz, J. Álvarez-Rodriguez and M. Blanco 1108–1118
Behaviour, Well-being and Health
Health and nutrition in sheep receiving Bacillus thuringiensis

Environment, Production Systems and Management
Insights to optimise marketing decisions on pig-grower farms
S. V. Rodríguez-Sanchez, L. M. Pla-Aragones and R. De Castro 1126–1135

Production Systems in Transition
Improved region-specific emission factors for enteric methane emissions from cattle in smallholder mixed crop: livestock systems of Nandi County, Kenya

Meat Science and Product Quality
Growth, carcass characteristics and meat quality of Chinese indigenous Yanan pig crossbred with Duroc and Berkshire genotypes
Yan Chen, Yingying Wei, Jianning Chen, Daojun Lv, Peining Li, Li Zhu, Guoqing Tang, Xuewei Li and Yanzhi Jiang 1147–1154
Meat quality and chemical assessment of porcine longissimus dorsi within different muscle pH
Effect of breed on proteolysis and free amino acid profiles of dry-cured loin during processing
Eva Salazar, José M. Cayuela, Adela Abellán and Luis Tejada 1161–1167
The effect of carcass weight on fatness and muscle and fat colour of male Ojinegra de Teruel light lambs
G. Ripoll, M. Blanco, B. Panea and M. Joy 1168–1175
The effect of high ultimate pH on the quality of three muscles from farm-raised fallow deer (Dama dama)
Marta Bykowska, Agnieszka Ludwiczak, Joanna Składanowska-Baryza and Marek Stanisz 1176–1182

Technology and Education
Prediction of primal cuts by using an automatic ultrasonic device as a new method for estimating a pig-carcass slaughter and commercial value
P. Janiszewski, K. Borzuta, D. Lisiak, E. Grzeskowiak and D. Stanisławski 1183–1189
Application of visible and near-infrared spectroscopy for evaluation of ewes milk with different feeds
A. Bahri, S. Nawar, H. Selmi, M. Amraoui, H. Rouissi and A. M. Mouazen 1190–1200