

CONTENTS

Articles

- 239 Selective forces shaping diversity in the class I region of the major histocompatibility complex in dairy cattle
G F Codner, M J Stear, R Reeve, L Matthews, S A Ellis
- 250 Haplotype variability in the bovine *MITF* gene and association with piebaldism in Holstein and Simmental cattle breeds
L Fontanesi, E Scotti, V Russo
- 257 Genetic diversity and admixture of indigenous cattle from North Ethiopia: implications of historical introgressions in the gateway region to Africa
M Zerabruk, M-H Li, J Kantanen, I Olsaker, E M Ibeagha-Awemu, G Erhardt, O Vangen
- 267 Identification of congenital muscular dystonia 2 associated with an inherited GlyT2 defect in Belgian Blue cattle from the United Kingdom
J L Gill, V M James, E Carta, D Harris, M Topf, S F E Scholes, G Hateley, R J Harvey
- 271 Transcriptome analysis of muscle in horses suffering from recurrent exertional rhabdomyolysis revealed energetic pathway alterations and disruption in the cytosolic calcium regulation
E Barrey, L Jayr, E Mucher, S Gospodnetic, F Joly, P Benech, O Alibert, X Gidrol, X Mata, A Vaiman, G Guérin
- 282 A genome-wide survey of copy number variation regions in various chicken breeds by array comparative genomic hybridization method
Y Wang, X Gu, C Feng, C Song, X Hu, N Li
- 290 Centromere mapping in the Pacific abalone (*Haliotis discus hannai*) through half-tetrad analysis in gynogenetic diploid families
H F Nie, Q Li, L F Kong
- 298 Differential expression of genes characterizing myofibre phenotype
L S Nierobisz, K R B Sporer, G M Strasburg, K M Reed, S G Velleman, C M Ashwell, J V Felts, P E Mozdziak
- 309 An ABC estimate of pedigree error rate: application in dog, sheep and cattle breeds
G Leroy, C Danchin-Burge, I Palhiere, R Baumung, S Fritz, J C Mériaux, M Gautier

Short Communications

- 315 Mitochondrial DNA diversity patterns in Pakistani buffalo
M E Babar, T Hussain, M Imran, M Nagarajan, S Kumar
- 318 Revisiting the quantitative trait loci for milk production traits on BTA6
R Weikard, P Widmann, J Buitkamp, R Emmerling, C Kuehn
- 324 Susceptibility of piglets to enterotoxigenic *Escherichia coli* is not related to the expression of *MUC13* and *MUC20*
M Schroyen, A Stinckens, R Verhelst, M Geens, E Cox, T Niewold, N Buys

Contents continued

- 328 Identifying putative candidate genes and pathways involved in immune responses to porcine reproductive and respiratory syndrome virus (PRRSV) infection
M Wysocki, H Chen, J P Steibel, D Kuhar, D Petry, J Bates, R Johnson, C W Ernst, J K Lunney
- 333 Four genes located on a SSC2 meat quality QTL region are associated with different meat quality traits in Landrace x Chinese-European crossbred population
S Čepica, C Óvilo, M Masopust, A Knoll, A Fernandez, A Lopez, G A Rohrer, D Nonneman
- 337 The identification of SNPs with indeterminate positions using the Equine SNP50 BeadChip
L J Corbin, S C Blott, J E Swinburne, M Vaudin, S C Bishop, J A Woolliams
- 340 Inbreeding in the Thoroughbred horse
M M Binns, D A Boehler, E Bailey, T L Lear, J M Cardwell, D H Lambert
- 343 Haplotypic variation and characteristics across the *toll-like receptor 3* locus in chickens
Y Q Huang, W Chen, Y H Huang, X W Shi, X M Deng, X T Kang, N Li
- 348 Structural analysis of MHC alleles in an RSV tumour regression chicken using a BAC library
K Suzuki, E Kobayashi, H Yamashita, H Uenishi, I Churkina, G Plastow, N Hamasima, T Mitsuhashi
- 352 Genetic structure of Eurasian and North American mallard ducks based on mtDNA data
Z-C Hou, F-X Yang, L-J Qu, J-X Zheng, J-M Brun, B Basso, F Pitel, N Yang, G-Y Xu
- 356 Primary hyperoxaluria in Coton de Tulear
G Vidgren, K Vainio-Siukola, S Honkasalo, K Dillard, M Anttila, H Vauhkonen
- Brief Notes**
- 362 Detection of mitochondrial DNA from domestic cattle in European bison (*Bison bonasus*) from the Altai Republic in Russia
N S Yudin, I V Kulikov, K V Gunbin, R B Aitnazarov, A V Kushnir, T P Sipko, M P Moshkin
- 363 Between-breed variation in frequency of five novel missense SNPs in porcine *casein beta* (CSN2) and *casein kappa* (CSN3) genes
J Cieslak, M Mankowska, M Switonski
- 364 Polymorphism within *thyroid hormone responsive* (THRSP) associated with weaning-to-oestrus interval in swine
L A Rempel, D J Nonneman, G A Rohrer
- 365 Development and characterization of 260 microsatellite loci in the domestic goat, *Capra hircus*
Y Seki, M Yokohama, D Ishikawa, N Ikehara, K Wada, K Nomura, T Amano, Y Kikkawa