

# ANIMAL GENETICS

Volume 43 Number 6 December 2012

## CONTENTS

### Articles

- 654 Investigation of the genetic architecture of a bone carcass weight QTL on BTA6  
*B Gutiérrez-Gil, P Wiener, J L Williams, C S Haley*
- 662 Genome-wide association analysis for quantitative trait loci influencing Warner–Bratzler shear force in five taurine cattle breeds  
*M C McClure, H R Ramey, M M Rolf, S D McKay, J E Decker, R H Chapple, J W Kim, T M Taxis, R L Weaver, R D Schnabel, J F Taylor*
- 674 Genome-wide identification and initial characterization of bovine long non-coding RNAs from EST data  
*W Huang, N Long, H Khatib*
- 683 Fine-mapping the *POLL* locus in Brahman cattle yields the diagnostic marker *CSAFG29*  
*M Mariasegaram, B E Harrison, J A Bolton, B Tier, J M Henshall, W Barendse and K C Prayaga*
- 689 Genome-wide association study uncovers four QTL predisposing to supernumerary teats in cattle  
*H Pausch, S Jung, C Edel, R Emmerling, D Krogmeier, K-U Götz, R Fries*
- 696 Prediction of breed composition in an admixed cattle population  
*A Frkonja, B Gredler, U Schnyder, I Curik, J Sölkner*
- 704 Identification and comparison of microRNAs from skeletal muscle and adipose tissues from two porcine breeds  
*H-Y Li, Q-Y Xi, Y-Y Xiong, X-L Liu, X Cheng, G Shu, S-B Wang, L-N Wang, P Gao, X-T Zhu, Q-Y Jiang, L Yuan, Y-L Zhang*
- 714 Evaluation of the porcine *ACSL4* gene as a candidate gene for meat quality traits in pigs  
*J Corominas, Y Ramayo-Caldas, A Castelló, M Muñoz, N Ibáñez-Escriche, J M Folch, M Ballester*
- 721 A genome-wide scan for quantitative trait loci affecting respiratory disease and immune capacity in Landrace pigs  
*T Okamura, W Onodera, T Tayama, H Kadowaki, C Kojima-Shibata, E Suzuki, Y Uemoto, S Mikawa, T Hayashi, T Awata, N Fujishima-Kanaya, A Mikawa, H Uenishi, K Suzuki*
- 730 Genetic mapping of recurrent exertional rhabdomyolysis in a population of North American Thoroughbreds  
*K L Fritz, M E McCue, S J Valberg, A K Rendahl, J R Mickelson*
- 739 Quantitative trait loci segregating in crosses between New Hampshire and White Leghorn chicken lines: II. Muscle weight and carcass composition  
*M K Nassar, Z S Goraga, G A Brockmann*
- 746 Karyotyping and cytogenetic mapping of Atlantic cod (*Gadus morhua* Linnaeus, 1758)  
*L Ghigliotti, S-E Fevolden, C-H C Cheng, I Babiak, A Dettai, E Pisano*
- 753 Quantitative trait loci for body growth and sex determination in the hermaphrodite teleost fish *Sparus aurata* L.  
*D Loukovitis, E Sarropoulou, C Batargias, A P Apostolidis, G Kotoulas, C S Tsigenopoulos, D Chatziplis*
- 760 Microsatellite DNA markers indicate three genetic lineages in East Asian indigenous goat populations  
*K Nomura, K Ishii, H Dadi, Y Takahashi, M Minezawa, C Y Cho, Sutopo, M O Faruque, D Nyamsamba, T Amano*
- 768 Detection of quantitative trait loci for resistance to gastrointestinal nematode infections in Creole goats  
*C de la Chevrotière, S C Bishop, R Arquet, J C Bambou, L Schibler, Y Amigues, C Moreno, N Mandonnet*

### Short Communications

- 776 Comparison of joining and constant  $\kappa$ -light chain regions in different cattle breeds  
*S K Stein, U S Diesterbeck, D M Aboelhassan, C-P Czerny*

Contents continued overleaf

*Contents continued*

- 781 Non-replication of genome-wide-based associations of efficient food conversion in dairy cows  
*M Littlejohn, T Grala, K Sanders, C Walker, G Waghorn, K Macdonald, R Spelman, S Davis, R Snell*
- 785 Variation in the *XKR4* gene was significantly associated with subcutaneous rump fat thickness in indicine and composite cattle  
*L R Porto Neto, R J Bunch, B E Harrison, W Barendse*
- 790 Contributions of *FASN* and *SCD* gene polymorphisms on fatty acid composition in muscle from Japanese Black cattle  
*S Yokota, H Sugita, A Ardiyanti, N Shoji, H Nakajima, M Hosono, Y Otomo, Y Suda, K Katoh, K Suzuki*
- 793 Combining quantitative trait loci and heterogeneous microarray data analyses reveals putative candidate pathways affecting mastitis in cattle  
*A M Lewandowska-Sabat, J Günther, H M Seyfert, I Olsaker*
- 800 Quantitative trait loci analysis of a Duroc commercial population highlights differences in the genetic determination of meat quality traits at two different muscles  
*D Gallardo, R N Pena, R Quintanilla, O Ramírez, D Almuzara, J L Noguera, M Amills*
- 805 Joint effects of porcine *leptin* and *leptin receptor* polymorphisms on productivity and quality traits  
*D Pérez-Montarelo, A Fernández, J M Folch, R N Pena, C Óvilo, C Rodríguez, L Silió, A I Fernández*
- 810 *MSTN* genotypes in Thoroughbred horses influence skeletal muscle gene expression and racetrack performance  
*B A McGivney, J A Browne, R G Fonseca, L M Katz, D E MacHugh, R Whiston, E W Hill*
- 813 Exclusion of candidate genes for coat colour phenotypes of the American mink (*Neovison vison*)  
*R Anistoroaei, M N Markakis, K Vissenberg, K Christensen*