

CONTENTS

EDITORIAL

- 1 Editorial
Lise Lykke Steffensen and Mervi Honkatukia

ORIGINAL ARTICLES

- 2 The status and need for characterization of Nordic animal genetic resources
Line Sass Kierkegaard, Linn Fenna Groeneveld, Anne Kettunen and Peer Berg
- 25 Relationship of Icelandic cattle with Northern and Western European cattle breeds, admixture and population structure
Egill Gautason, Anna A. Schönherz, Goutam Sahana and Bernt Guldbrandtsen
- 39 Genetic differentiation between subpopulations of Swedish mountain (Fjäll and Fjällnära) cattle
Anna M. Johansson, Maulik Upadhyay, Erling Strandberg and Susanne Eriksson
- 47 Genetic characterization of a small closed island population of Norwegian coastal goat
P. Berg, L.F. Groeneveld, C. Brekke, D.I. Våge, K.M. Sørheim and L. Grøva
- 53 Population structure and genetic characterization of two native Danish sheep breeds
A. A. Schönherz, B. D. Szekeres, V. H. Nielsen and B. Guldbrandtsen
- 68 Assessing the genetic diversity conserved in the Norwegian live poultry genebank
C. Brekke, L. F. Groeneveld, T. H. E. Meuwissen, N. Sæther, S. Weigend and P. Berg
- 81 Heritage Finnish Landrace chickens are genetically diverse and geographically structured
M. E. Berres, J. Kantanen, M. Honkatukia, A. Wolc and J. E. Fulton
- 95 Genomic assessment of suitability of pigs for inclusion in the Pied Danish Pig conservation program – A case study
Bernt Guldbrandtsen, Vivi H. Nielsen and Anna A. Schönherz
- 101 Genetic analyses of hunting traits in leashed and non-leashed test systems in Norwegian Elkhound
M. Wetten, T. Aasmundstad and O. Vangen
- 109 Clustering the relationship matrix as a supportive tool to maintain genetic diversity in the Scandinavian cold-blooded trotter
Hanne Fjerdingby Olsen and Gunnar Klemetsdal
- 118 Segment-based coancestry, additive relationship and genetic variance within and between the Norwegian and the Swedish Fjord horse populations
Hanne Fjerdingby Olsen, Saija Tenhunen, Nils Ivar Dolvik, Dag Inge Våge and Gunnar Klemetsdal

SHORT COMMUNICATIONS

- 127 An endangered horse breed can be conserved by using optimum contribution selection and preselection of stallions
H. M. Nielsen and M. Kargo
- 131 Mineral and fatty acid composition of milk from native Jutland and Danish Red 1970 cattle breeds
N. A. Poulsen, B. D. Szekeres, M. Kargo and L. B. Larsen