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# **Genetic Diversity in Livestock and Companion Animals**

Collection Editor:

## Dr. Maria Cristina Cozzi

Department of Veterinary Medicine, University of Milan, 6 -26900 Lodi, Milan, Italy

#### Message from the Collection Editor

Genetic diversity in reared populations plays an important role. The maintenance of genetic variability is necessary for the selection and genetic improvement strategies. One of the goals of selection is to improve desirable traits, limiting the rate of decline of genetic diversity within populations, and reduce the deleterious alleles.

Molecular DNA markers such as microsatellites, SNPs, and CNVs are used to investigate the genetic basis of traits, supplying a support to phenotypic evaluation and genealogical data analysis. The collection of phenotypic data and the different genomic approaches can be used to investigate the genetic basis of inheritance for both Mendelian and complex diseases. Comparison of phylogenetic data, inferred from DNA sequences with different inheritance patterns, such as mitochondrial DNA sequences and Y-chromosome sequences, is widely used to study the genetic relationships and evolutionary history of breeds.

Submissions of original research papers and review articles related to animal genetic diversity as well as the advances in genetics on companion animals and on sustainable livestock productions are welcome.









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### **Editor-in-Chief**

#### Prof. Dr. Clive J. C. Phillips

1. Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Kreutzwaldi 1, 51014 Tartu, Estonia 2. Curtin University Sustainability Policy (CUSP) Institute, Kent St., Bentley 6102, Australia Animals is an on-line open access journal that was first published in 2011. Animals adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. Animals is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2023, ranks 10/80 (Q1) in 'Agriculture, Dairy & Animal Science'; 16/167 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.0.

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*Animals* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/animals animals@mdpi.com X@Animals\_MDPI