Special Issue

Genetic Diversity, Adaptation and Evolution of Livestock

Message from the Guest Editors

The assessment of genetic diversity and population structure is crucial for understanding the evolutionary history of breeds and providing valuable information for biodiversity conservation and management, particularly for local breeds that support the economic survival of rural areas. Due to reduced sample sizes, selection programs for local populations are challenging, leading to higher levels of inbreeding than in selected breeds. Additionally, it is important to evaluate and manage the continuous increases in homozygosity in specialized breeds. We invite original research, reviews, short communications and case studies on a wide range of topics, including but not limited to genetic diversity, genomic selection, genome-wide association studies, genotype-environment interactions, genetic resources and new phenotypes. This Special Issue aims to provide insights into the current state of cattle, sheep, pigs and goats, offering valuable information for researchers and breeders involved in livestock production, genetic improvement programs, and conservation schemes.

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Message from the Editor-in-Chief

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