



animals



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Genomics Applied to Conservation of Farm Animal Genetic Diversity

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Message from the Guest Editor

Genomic tools (e.g., SNP genotyping, whole-genome sequencing) and genomic analysis can be applied to improve the decisions made in the conservation of farm animal genetic diversity. Conservation of genetic diversity, both among and within breeds, is a costly process. Choices for conservation in vivo (keeping a small population alive) or in vitro (gene banks) of a breed and the animals within breeds require sound genetic research. In the past, this could only be based on the history of breeds and pedigree analysis. Nowadays, genomic information is the standard for the choices to be made in conservation. Genomics may accurately measure the genetic distances among breeds and the relationships among animals within breeds. In addition, genomics can be used to detect potentially valuable rare alleles and haplotypes and their carriers in these breeds. This Special Issue aims to present genomic research that answers the question of what we need to conserve now for possible utilization in the future.



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Special Issue



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Message from the Editor-in-Chief

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