

Special Issue

Challenges and Opportunities in Genetic Improvement of Livestock

Message from the Guest Editors

Improving our understanding of quantitative genetics and implementing scientific findings in practice are both crucial for the successful development of novel breeding programmes or the improvement of existing ones. The proper management of animal genetic resources based on the results of comprehensive and well-designed studies can lead to both higher productivity (efficiency) and can also improve the quality of animal products, animal welfare, health, and longevity. This Special Issue calls for contributions related to a wide range of topics related to genetic evaluation (the estimation of genetic parameters and the prediction of breeding values using different tools and information). Even though the usage of whole-genome markers in genetic evaluation is preferred over the traditional pedigree-based approach, we do not limit contributions to genomic selection. Any novel and scientifically based results that can contribute to the improved management of animal genetic resources in special environmental niches will be considered. Studies that contribute to a better understanding of genotypes based on environment interaction are particularly welcomed.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2025)



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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

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