

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

Prof. Dr. Jelena Ramljak

Dr. Ante Kasap

Dr. Valentino Držaić

Dr. Marija Špehar

Deadline for manuscript submissions

closed (20 July 2025)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/210779

Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)





Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

Editor-in-Chief

Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental
Sciences, The University of Sydney, Sydney, NSW 2006, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)