

## Special Issue

# Quantitative Genetics of Livestock Populations

### Message from the Guest Editors

Quantitative genetic methods investigate the effect of genetic and environmental factors simultaneously, and help improve the efficiency and sustainability of livestock breeding by focusing on traits that are influenced by multiple genes. Statistical models and breeding values help predict the genetic potential of an animal. By understanding the genetic correlation between different traits, breeders can optimise their selection strategies. Genetic diversity is vital to prevent inbreeding in the population and to a successful breeding plan to obtain healthy and productive animals in the herd or population.

We welcome original research papers that address various aspects of quantitative genetics, including, but not limited to, the following:

Quantitative genetic approaches to improve productivity and fertility in livestock; the estimation of genetic parameters and the prediction of animal breeding values using different tools and information; genetic diversity and inbreeding in animal populations; impact of crossbreeding on quantitative traits in animal populations; design of breeding programmes and key issues in breeding programme design.

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### Guest Editors

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### Deadline for manuscript submissions

closed (28 February 2026)



## Agriculture

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## 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.

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### Editor-in-Chief

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