

## Special Issue

# Machine Learning and Biological Data in Crop Genetics and Breeding

### Message from the Guest Editor

Over the past decade, machine learning (ML) has revolutionised economic forecasting, clinical diagnostics, and speech recognition. In recent years, widespread adoption of these techniques has been seen in agriculture, where progress in the areas of automated phenotyping, genome to phenome inference, and genomic prediction are contributing to the advancement of crop genetic diversity and its management worldwide.

This Special Issue focuses on the current application of machine learning approaches for integration of diverse biological data, toward improving management of crop genetic resources for increased field performance and rates of genetic gain. This Special Issue will include interdisciplinary studies coupling ML with high resolution phenomics, genomics (multi-‘omics), controlled and field scale environmental data in agricultural crops that demonstrate progress in candidate gene identification, pre-breeding, and genomic prediction for a wide range of crop traits.

### Guest Editor

Dr. Shannon K. Dillon

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### Deadline for manuscript submissions

closed (10 May 2023)



## Agriculture

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## About the Journal

### 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.

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### Editor-in-Chief

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