Special Issue

Applications of Advanced Genomic and Phenomic Technologies for Plant Improvement

Message from the Guest Editor

Plant breeding has always been the only resource of suitable plant types for cultivation. Modern plant breeding is minimizing its “art” component, taking advantage of the scientific progress and novel analytical methods to enable the prediction of plant performance from biological entities.

Genomics and phenomics, with the support of powerful bioinformatic and image analysis software, can revolutionize crop improvement by identifying the genetic basis of agriculturally important traits and increase the genetic gain by direct genotypic selection of high-breeding-value individuals in a plant breeding population.

This Special Issue will provide a platform to present research results in all applications of advanced genomics and phenomics tools related to crop improvement and to discuss current trends and future prospects of progress in these fields for modern plant breeding.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2020)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/34176

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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