Special Issue

Crop Breeding and Genetics

Message from the Guest Editors

The global nature of food security becomes more important due to increased population, demand for products and climate change. These problems suggest we need a new green revolution As the ultimate goal of plant breeding is to improve crop performance for traits or defined characteristics and to address the problems arising and due to the nature of the changes we should exploit all available methods in our hands. We live in the era of omics technologies. Next generation sequencing techniques now allow the massive sequencing of whole genomes and all the varieties in a species, coupled with phenotyping and conventional plant breeding allows us to identify the mechanisms underling different plant functions and the corresponding genes. While metagenomic analysis offers new insights on soil microbiota plant interactions very important for plant breeding. Finally, novel techniques such as CRISPR/cas9 systems could revolutionise both our understanding of gene function as well plant breeding.

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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.

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