



Crop Breeding and Genetics

Guest Editors:

Dr. Panagiotis Madesis

Institute of Applied Biosciences,
The Centre for Research and
Technology, Hellas, 57001
Thessaloniki, Greece

Dr. Irimi Nianiou-Obeidat

Laboratory of Genetics and Plant
Breeding, School of Agriculture,
Forestry and Natural
Environment, Aristotle University
of Thessaloniki, P.O. Box 261,
54124 Thessaloniki, Greece

Deadline for manuscript
submissions:

closed (15 May 2021)

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 underlying 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.





an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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)

Contact Us

Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agriculture
agriculture@mdpi.com
X@AgricultureMdpi