Special Issue

Applications of Genomics or Transcriptomics Approaches in Phytopathology

Message from the Guest Editor

As plants are constantly plagued by a wide variety of pathogens, ongoing pathogens genomics revolution has highly contributed to disease management applications in phytopathology. The advent of such genomics-based resources coupled with next-generation sequencing (NGS) technologies has improved disease resistance in various crops. Coping with this challenge, these applications are effective and can be routinely adopted for crop protection by unraveling the molecular mechanisms underpinning pathogenesis and resistance, gaining insights into the genetics of pathogen populations on a large scale. Furthermore, transcriptome profiling plays a pivotal role for unraveling the molecular mechanisms during compatible or incompatible plant–pathogen interactions. Thus, RNA-seq technology can effectively decipher the differential expression patterns and the transcriptional immune responses when it comes to resistant and sensitive plant hosts challenged by pathogens. In this respect, we are soliciting the submission of any type of research article covering the applications of specific genomics or transcriptomics approaches.

Guest Editor

Dr. Antonios G. Zambounis
Institute of Plant Breeding and Genetic Resources, Hellenic Agricultural Organization–Demeter, Thermi, Thessaloniki, Greece

Deadline for manuscript submissions

closed (20 March 2024)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/165351

Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

mdpi.com/journal/agronomy

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/journal/agronomy

MDPI

About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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), GEOBASE, PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)