plants

IMPACT FACTOR 4.5

Indexed in: PubMed

CITESCORE 5.4

an Open Access Journal by MDPI

Molecular Biology of Plant Defense Responses in Maize

Guest Editor:

Dr. Charles T. Hunter
Chemistry Research Unit, Center for Medical, Agricultural and Veterinary Entomology, U.S. Department of Agriculture—Agricultural Research Service, Gainesville, FL 32608, USA

Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editor

Dear Colleagues,

Maize remains the most widely-grown and productive crop on the planet. Despite gains in pest management, biotic stresses continue to have major impacts on yield, amounting to billions of dollars per year in losses in the United States alone. Improving the basic understanding of the mechanisms, biochemical pathways, and genetics of how maize defends itself from pathogens and insects can facilitate the development of improved cultivars and pest management strategies. Topics of interest for this Special Issue of *Plants* include: molecular biology and biochemistry of defense chemistry, the regulation of defense signaling pathways, characterization of genes and gene families involved in defense responses, and genomic/transcriptomic/metabolomic analyses of pathogen or insect defense in maize. Original research and reviews are welcome.

plants

IMPACT FACTOR 4.5 | Indexed in: PubMed | CITESCORE 5.4

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided.
We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q1 (*Plant Sciences*) / CiteScore - Q1 (*Plant Science*)

Contact Us

Plants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/plants
plants@mdpi.com
𝕏@Plants_MDPI