Special Issue

The Molecular Role of Plant Receptors in Resistance to Biotic Stress

Message from the Guest Editors

To defend against constant biotic challenges, plants employ numerous cell-surface resident pattern recognition receptors (PRR) and intracellular nucleotide-binding domain leucine-rich repeat-containing receptors (NLRs) to perceive biotic attack-associated signals and, subsequently, initiate patterns-triggered immunity (PTI) and effectors-triggered-immunity (ETI), respectively. Recently, several ground-breaking and attractive studies showed that these two classes of receptors intricately cooperated to ensure robust immune responses, although they possess special roles in plant immunity. However, there are still many mysteries covering the PRR- or NLR-mediated plant immunity against biotic stress to be unveiled. The Special Issue on "The Molecular Role of Plant Receptors in Resistance to Biotic Stress" welcomes the submission of research on the PRRs and NLRs or their partners mediated plant immune responses against biotic stress from microbes, herbivores, viruses, nematodes, or parasitic plants. The Special Issue will also cover the studies on the structure, evolution, and distribution of two classes of receptors in various plant species.

Guest Editors

Dr. Shuguo Hou

Institute of Advanced Agricultural Sciences, Peking University, Beijing, China

Dr. Guangyuan Xu

Department of Plant Pathology, China Agricultural University, Beijing, China

Deadline for manuscript submissions

closed (30 November 2023)

Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/150715

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

mdpi.com/journal/plants

Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed

mdpi.com/journal/plants

About the Journal

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.

Editor-in-Chief

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

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 (Ecology, Evolution, Behavior and Systematics)

MDPI