



Bioengineering Strategies for Plant Disease Resistance

Guest Editors:

Dr. Rui Wang

College of Life Sciences, Sichuan
University, Chengdu, China

Dr. Di Wu

College of Horticulture and
Landscape Architecture,
Southwest University,
Chongqing, China

Dr. Jianguo Man

School of Plant Science and
Technology, Huazhong
Agricultural University, Wuhan,
China

Deadline for manuscript
submissions:

closed (15 May 2024)

Message from the Guest Editors

Plant disease is one of the most destructive stresses which causes severe damages on the growth, development, and yields of almost the entire Plantae all over the world. Many studies have focused on plant pathogens in regard to their virulence, recognition, and long-lasting interaction with plant defense systems, while the potential strategies to prevent them remain to be found. Therefore, new strategies for controlling plant disease are urgently needed. This Special Issue aims to offer an update on recent progress in different approaches to phytopathogen resistance and selected strategies for disease resistance of plants with new tools in breeding and planting patterns. Potential topics include but are not limited to: 1. plant-pathogen interactions; 2. genome editing for disease resistance; 3. mining and characterization of pathogen effectors; 4. interaction between planting patterns and plant diseases; 5. localization and application of resistance genes; 6. role of biocontrol agents in pathogen resistance; 7. future perspectives for disease-resistance breeding.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical
Engineering, Texas A&M
University, College Station, TX
77843, USA

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

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](#), [CAPlus / SciFinder](#), [Inspec](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Engineering, Biomedical*)

Contact Us

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

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

mdpi.com/journal/bioengineering
bioengineering@mdpi.com
[X@Bioeng_MDPI](https://twitter.com/Bioeng_MDPI)