

Special Issue

Genetics and Breeding for Disease Resistance in Plants

Message from the Guest Editor

Plant diseases place important constraints on worldwide crop production. The presence of multiple disease-resistant sources in plant breeding programs is necessary to enhance germplasm or create new cultivars. The existence of different plant pathogens (virus, bacteria, fungi, and mycoplasma), types of plant resistance, as well as different crops production systems makes plant breeding for disease resistance a science and art that involves a broad knowledge of plant pathology, quantitative genetics, breeding, and molecular biology. This Special Issue of *Plants* focuses on the use of high-throughput- 'omics' technology to study the genetics and breeding of disease resistance in plants. We would like to include several articles related to different research topics (e.g., screening, plant–pathogen interactions, functional genomics, genome mapping of resistance genes, and marker assistant selection) that provide broad insight into the use of this new technology to understand plant disease resistance response in crops.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2021)



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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, and 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

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