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Genetics and Breeding for Disease Resistance in Plants

Guest Editor:

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Deadline for manuscript submissions:

closed (31 March 2021)

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-throughout- '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.













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Editor-in-Chief

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Message from the Editor-in-Chief

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