Special Issue

Breeding of Crop Disease-Resistant Cultivars

Message from the Guest Editors

Crops are susceptible to pathogens including fungi, bacteria, and viruses, which cause important economic losses. Genetic resistance represents the most economical approach to crop protection. One goal of understanding plant/pathogen interactions at the molecular level is to facilitate disease resistance of crops. Disease resistance is the most dynamic component of crop breeding, requiring continual updating owing to pathogen adaptation to plant genotypes. Due to the high evolutionary potential of many pathogens, novel genotypes no longer sensitive to resistance gene or the phytosanitary product can rapidly emerge via mutation or recombination. New breeding techniques are attracting attention in plant pathogen resistance, including the most recent and powerful molecular approaches for precise genetic modifications of single or multiple gene targets. Creation of crops resistant to important diseases is an exciting research area. This Issue will focus on newly created cultivars resistant to diseases, interactions between plants and pathogens, resistance genes, breeding methods, and other issues concerning the creation of disease-resistant cultivars. Welcome to submit.

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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.

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