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Breeding of Crop Disease-Resistant Cultivars

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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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Special Issue



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Message from the Editor-in-Chief

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