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Mapping Plant Genes that Confer Resistance to Biotic Stress

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Resistance to biotic stresses caused by diseases and insects can prevent or reduce yield loss in crops for sustaining agricultural productivity. For each crop or plant species, there are many biotic threats caused by microorganisms (bacteria, viruses, and fungi), insects, and nematodes. Due to the co-evolution of plants and stress-causing organisms, plants need to posses multiple resistance genes to deal with the multiple varients of stress-causing organisms. As a result, plant breeders are constantly looking for new resistance genes to combat evolving organisms that pose a threat to particulat crops. Plant geneticists have identified many resistance genes in various crops, and molecular geneticists have developed molucular markers for most of those genes. With the advent of whole-genome sequencing in many important crops, it is time to map the detailed chromosomal locations of known genes that confer resistance to the various biotic stresses in each crop.

Dr. Richard R.-C. Wang
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Message from the Editor-in-Chief

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