Special Issue

Molecular Mechanisms and Approaches in Plant-Microbe Interactions and Disease Control

Message from the Guest Editors

Plant diseases caused by fungal, bacterial, viral, nematode, and oomycete pathogens are a major threat to crop yield and quality worldwide. Due to the arms race between pathogen infection and plant disease resistance strategies, continuous efforts must be made to enhance disease control in agricultural practice; for this, a deeper understanding of the molecular mechanisms of plant–pathogen interactions is necessary. This Special Issue is devoted to recent advances in plant disease resistance at the molecular level and cutting-edge approaches for plant disease control. All relevant molecular and genomic research topics are welcome, including but not limited to plant resistance gene identification and functional analysis, the molecular basis of biological control agent mechanisms, soil and leaf microbiomes involved in plant pathogen control, effectors and their host targets, plant receptors for triggering resistance, pathogen-associated molecular patterns (PAMPs), plant pathways related to PAMP-triggered immunity (PTI) and effector-triggered immunity (ETI), crop genetic engineering and genome editing techniques for improving disease resistance.

Guest Editors

Dr. Ying Zhai

Department of Plant Pathology, Washington State University, Pullman, WA 99164, USA

Dr. Chuntao Yin

Integrated Cropping Systems Research Unit, USDA-ARS, Brookings, SD 57006, USA

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Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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