Special Issue

New Advances in Plant-Fungal Interactions, 2nd Edition

Message from the Guest Editor

At present, the axial regulation mechanisms from non-coding RNAs and coding RNAs to proteins can help us to better understand plant–pathogen interactions. In addition, the emerging field of bidirectional regulation mechanisms from plant hosts and pathogens at the RNA level can help us to reveal the mechanisms of infection or the resistance responses of the host. Meanwhile, whole-transcriptome sequencing, degradation sequencing, and single-cell sequencing, as well as the study of the interactions between coding RNAs and non-coding RNAs (circular RNAs, long non-coding RNAs, and microRNAs), would provide many methods for studying the interaction of plant host and fungal pathogens. Results have indicated that some non-coding RNAs from plant hosts or pathogens can interact with some messenger RNAs, thus changing the function of some proteins. The interactions would participate in the mechanisms of pathogens and the resistance responses of the host. The research field relates to some important food crops, vegetables, and cash crops, and the latest advances in plant and disease interaction will be reviewed, which will provide new knowledge for domestic and foreign counterparts.

Guest Editor

Prof. Dr. Zhuo Chen

Key Laboratory of Green Pesticide & Agricultural Bioengineering, Ministry of Education Center for Research and Development of Fine Chemicals, Guizhou University, Guiyang 550025, China

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

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Editor-in-Chief

Prof. Dr. Maurizio Battino
Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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