Special Issue

Research Progress of Beneficial Microorganisms in Controlling Crop Pathogens

Message from the Guest Editors

The sustainability of agriculture and food security are threatened by the rising incidence of crop diseases, which are made worse by global climate change. Biological control has long been acknowledged as a successful method for controlling diseases in crops of agronomic significance.

Harnessing the potential of beneficial microorganisms such as bacteria, fungi, and mixtures thereof to control pathogens through various mechanisms will improve and refine their use in crop protection. Furthermore, the incorporation of molecular tools has reinforced our comprehension of the interactions between microbes and plants, which has made it possible to create biocontrol agents (BCAs) that are more efficient. This calls for a thorough assessment of their performance in various agroecosystems as well as the creation of effective, approachable bioformulations to enable broad adoption.

The purpose of this Special Issue is to promote knowledge sharing on all facets of crop pathogen biological control, therefore expanding our knowledge of current developments, aiming at the improvement of crop yield and resilience in a range of agricultural conditions.

Guest Editors

Dr. Sofia Palacios

Dr. Nicolás Pastor

Dr. Adriana Torres

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

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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