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Biotechnological Resources for Improvement of Disease Resistance and Nutritional Quality in Staple Crops

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Message from the Guest Editors

Dear Colleagues,

Crop production needs to increase by at least 60% by 2050 to meet the food demand of a growing world population. Biotechnologies represent our best resources in order to make it through, which offer a broad spectrum of options for understanding plant molecular mechanisms and breeding. This knowledge, along with innovative, fast and precise techniques in molecular genetics, could pave the way for the identification/generation of key resistance traits to be efficiently transferred in crop breeding and applied biotechnology programs for increased science-based sustainability in agriculture.

This Special Issue will collect state-of-the-art knowledge on plant–microbe interactions and NCDs. It will also highlight recent progress on different topics related to plant resistance to diseases, as well as applicable biotechnology designed to increase the nutritional value, sustainability and resilience of crops. This will help address the challenging social (increasing food demand with population growth) and environmental (climate change, scarce natural resources) scenario foreseen in the coming decades.



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Special Issue



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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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