

Special Issue

Plant Protection and Biostimulation by Natural Compounds and Beneficial Microorganisms

Message from the Guest Editors

Current studies about global food and agriculture show that world production may need to be increased by 60%–110% before 2050 to avoid food shortage. Along with the demand for increased production, there is also a requirement to protect the environment, mainly by reducing the number of pesticides, and making better use of agricultural inputs and resources: land, water, fertilizers, and energy. Classic improvement remains the most widely used method for the production of improved and stress-resistant crop plants. However, it has become clear that this approach by itself will not be sufficient to provide long-term solutions due to its many limitations. The use of natural alternatives, such as biostimulants and beneficial microorganisms, has become one of the most promising strategies to improve food production, reducing the amount of chemical inputs. This Special Issue is intended to bring together a collection of research papers on the applied use natural bio stimulants and beneficial microorganisms in growth promotion and plant protection including creative strategies to grow more food with fewer resources and less problems associated with the use of chemicals fertilizers.

Guest Editors

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About the Journal

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.

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