Special Issue

Biostimulant Application in Horticultural Crop Growth Regulation and Stress Response

Message from the Guest Editors

Horticultural crops play a crucial role in global food security, human nutrition, and economic sustainability. However, their growth and productivity are increasingly challenged by biotic and abiotic stresses such as drought, salinity, temperature extremes, and pest infestations. In response to these challenges, biostimulants have emerged as promising tools to enhance crop resilience and optimize growth under such conditions. Biostimulants encompass a diverse group of substances, including humic and fulvic acids, protein hydrolysates, microbial inoculants, seaweed extracts, and other natural compounds. Their application in horticulture has gained significant attention due to their ability to regulate plant growth, enhance stress tolerance. Biostimulants work by activating plant physiological and biochemical pathways, leading to improved root development, enhanced photosynthetic efficiency, and greater resistance to environmental stressors. This Special Issue aims to explore the latest advancements in biostimulant applications for horticultural crops, with a focus on their role in growth regulation, stress tolerance, and overall plant health.

Guest Editors

Dr. Paola Ganugi

DISAFA Departement, Largo Braccini, University of Torino, Grugliasco, 10124 Turin, Italy

Dr. Andrea Ertani

DISAFA Departement, Largo Braccini, University of Torino, Grugliasco, 10124 Turin, Italy

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

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Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
Department of Biological and Environmental Sciences and Technologies (DiSTeBA), Salento University, 73100 Lecce, Italy

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