

Special Issue

Biopesticides and Their Role in Sustainable Agricultural Production

Message from the Guest Editors

Sustainable agriculture urgently requires innovative solutions that can reduce the reliance on synthetic agrochemicals while maintaining or even enhancing crop productivity, quality, and resilience to environmental stresses. Among the most promising alternatives, biopesticides have emerged as key components of integrated pest and nutrient management strategies, gaining significant attention from researchers, agronomists, and policymakers alike due to their eco-friendly nature and multifunctional benefits within agroecosystems. Unlike synthetic pesticides, biopesticides offer targeted control of pests, pathogens, and weeds through natural mechanisms. Furthermore, the application of biostimulants, either alone or in combination with biopesticides, can reduce the need for synthetic pesticide use, as it improves soil health and enhances crop resilience through secondary metabolite increase—core pillars of agroecological and regenerative agriculture. This Special Issue aims to extend the current knowledge on biopesticides and further explore the synergistic and complementary roles of biopesticides and biostimulants in sustainable crop production systems.

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