

## Special Issue

# Recent Trends in Plant-Growth-Promoting Rhizobacteria Research for 21st-Century Sustainable Agriculture

### Message from the Guest Editors

The future of agriculture relies solely on achieving sustainability and maintaining long-term productivity. Among the various strategies used to enhance agriculture productivity, use of plant-beneficial microorganisms referred to as plant-growth-promoting rhizobacteria (PGPR) has been advocated as one of the most suitable strategies for sustaining the health of soil, crop, and the agro-ecosystem. This Special Issue aims to gather contributions from scientists working in diverse disciplines related to PGPR-crop interactions, with focus on translation of basic knowledge to innovative applied research. In this Special Issue, we will focus on i) understanding the structure and function of crop microbiome, ii) the plausible role of soil microorganisms as biofertilizers, biopesticides, biofungicides, or biostimulants, microbial consortia for improving of crop health, crop nutrition, and resistance and protection from pests and pathogens, iii) crop microbiome evolution, iv) resilience of agricultural microbiome to climatic changes, and v) new technologies to study plant-microbe molecular interactions in agricultural systems.

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