



Recent Advances and Applications of Biostimulants for Plant Growth Promotion and Environmental Stress Adaptation

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Message from the Guest Editor

Dear Colleagues,

Plant biostimulants are receiving significantly scientific interest worldwide due to their key role in improving plant growth and crop yield through regulating the antioxidants and secondary metabolism. Biostimulants include beneficial substances (protein hydrolysates, fulvic acids, humic substances, phytohormones and natural extracts) as well as beneficial microorganisms (plant-growth-promoting bacteria and arbuscular mycorrhizal fungi). However, the mechanisms underlying plant–biostimulant interactions under environmental conditions remain unclear.

This Special Issue, therefore, welcomes original research articles, reviews, communications, perspectives and opinions dissecting the functional mechanisms of plant biostimulants under optimal growth or adverse environmental conditions (e.g., drought, salinity, cold stress, heat stress, waterlogging, suboptimal pH values, nutrient deficiency, heavy metals, and microbial diseases).





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