

Special Issue

The Studies on Plant Biostimulants to Improve Yields and Sustainability in Agriculture

Message from the Guest Editors

In recent decades, the innovation of environmentally friendly plant biostimulants (PBs) plays a significant role in enhancing the sustainability of agricultural production systems. The development of these materials gains more and more attention focusing on plant growth, crop productivity, yield, biotic and abiotic stress tolerance, flowering, fruit quality, or nutrient use efficiency (NUE). The main active agents of PBs, except for nutrients and pesticides, are vitamins or phytochemicals such as phytohormones, amino acids, and/or their derivatives that, when applied to plants, may reinforce the biochemical responses against various stresses and work as 'metabolic enhancers'. The purpose of this Special Issue is to discuss a variety of currently relevant topics in agronomical sciences involving plant physiology, development, and genetics as implications of PBs applied for abiotic/biotic stresses tolerance, product quality enhancement, and NUE improvement. Investigations and specialized scientific works on the priming effect of PBs are also welcome in this Special Issue.

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