

Special Issue

Integrated Approaches to Enhancing Crop Productivity: Molecular, Hormonal, and Agronomic Perspectives

Message from the Guest Editor

Hormonal signaling is central to plant development, enabling dynamic responses to environmental stimuli and resource availability. This Special Issue explores the multifaceted roles of plant hormones in driving crop growth, stress adaptation, and yield optimization. It focuses particularly on innovative and integrative research approaches. By bridging fundamental discoveries with translational research, this Special Issue aims to publish novel insights into the development of sustainable agricultural practices and the cultivation of resilient crop varieties. Ultimately, it addresses global challenges in food security and environmental sustainability. This Special Issue will focus on the application of advanced methodologies such as high-resolution multi-omics, single-cell transcriptomics, and precision agricultural technologies in order to study hormone-mediated processes. This Special Issue aims to shed light on emerging and underexplored areas of hormonal regulation. These include noncanonical signaling pathways, interactions between hormones and epigenetic modifications, and their potential for crop improvement.

Guest Editor

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Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

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