Special Issue

Metabolomics-Centered Mining of Crop Metabolic Diversity and Function

Message from the Guest Editors

In response to environmental stimuli, plants produce large amounts of secondary metabolites that serve as antioxidants, antimicrobial agents, and modulators of biological processes to help protect plants from pathogens and predators. These secondary metabolites play a pivotal role in enhancing the nutritional values of plants, and they are often unique to specific plant species. Consumers could benefit from the consumption of crops abundant in specific secondary metabolites, which can aid in disease prevention, improve immune function, and promote overall well-being. Thus, understanding and regulating the production of secondary metabolites in crops is crucial for enhancing their nutritional values and improving human health. This Special Issue will be focused on "Metabolomics-Centered Mining of Crop Metabolic Diversity and Function" for plant biologists with expertise in the bioactivity and function of secondary metabolites in crops, the metabolomics of diverse crops, the regulation of secondary metabolism in crops, and the approaches for improving the nutritional values of crops.

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Deadline for manuscript submissions

31 December 2025

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/201235

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