

Special Issue

Molecular Mechanisms of Abiotic Stress Response in Rice

Message from the Guest Editors

Dear colleagues, Plant perception and response to abiotic stress is a complex process, involving multiple genes, multiple signal transduction pathways and multiple gene expression products. The factors that play a role mainly include the ROS scavenging enzyme system, protein kinase, membrane transporter, ABA, transcription factor, miRNA and so on. This Special Issue focuses on the important factors affecting rice yield trait–nutrient utilization and stress adaptation, and analyzes the physiological and biochemical processes of rice nutrient quality metabolism, nutrient efficient utilization, abiotic stress response and the molecular mechanism of related regulatory genes, especially interested, but not limited to, the following topics: (1) Analysis of the physiological and molecular mechanisms of environmental factors affecting rice growth, yield and quality; (2) Transgenic regulation of important gene resources; (3) Deeply exploring the biological functions of core genes involved in multiple signaling pathways.

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