

Special Issue

Research on Molecular Mechanisms of Food Quality Regulation

Message from the Guest Editor

This Special Issue focuses on Research on the Molecular Mechanisms of Food Quality Regulation, aiming to explore the molecular-level regulatory mechanisms of quality formation, deterioration and maintenance in agricultural and aquatic food during growth, processing and storage. It covers transcriptomics, proteomics and metabolomics technologies, revealing the regulatory roles of key genes, transcription factors and food macromolecule interactions on food texture, flavor, nutrition and safety quality. The issue collects original research and review articles related to molecular regulation of fruit and vegetable postharvest quality, meat and aquatic product freshness maintenance and grain processing quality improvement. It intends to summarize the latest research progress, provide a theoretical basis for precise quality control and green preservation technology development and promote the integration of molecular biology and food science engineering, as well as academic exchange and innovative application in this field.

Guest Editor

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