

Special Issue

Natural Bioactive Compounds: Methods for Extraction, Characterization and Application

Message from the Guest Editors

This Special Issue, “Natural Bioactive Compounds: Methods for Extraction, Characterization and Application”, aims to highlight recent advances in the isolation, structural elucidation, and functional evaluation of bioactive compounds derived from natural sources, particularly those relevant to food and biotic products. Natural bioactives, such as polyphenols, flavonoids, alkaloids, terpenes, peptides, and polysaccharides, are crucial for food preservation, nutrition, and health promotion. Their incorporation into functional foods, nutraceuticals, and biotic-based formulations is garnering increasing attention due to their antioxidant, antimicrobial, anti-inflammatory, and other health-related properties.

This Special Issue welcomes original research and comprehensive reviews on extraction technologies (e.g., green solvents, ultrasound, supercritical fluids), analytical and spectroscopic characterization methods (e.g., HPLC, LC-MS, NMR), and practical applications in food systems, edible coatings, encapsulation, and delivery systems. We also seek contributions that address the stability, bioaccessibility, and interaction of natural bioactives with food matrices or microbiota.

Guest Editors

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