

Special Issue

Advances in Bioactive Compounds and Functional Foods

Message from the Guest Editors

This Special Issue is dedicated to the diversity of bioactive compounds in nature and their role in functional food development. Bioactive compounds include chemically diverse primary and secondary metabolites from plants, essential for growth, development, and defense, and integral to the human diet. They exhibit properties such as antioxidant, anti-inflammatory, immunomodulatory, anti-aging, and anticancer activities, supporting applications in food and nutraceutical sectors. Functional foods enriched with bioactive compounds can be developed through extraction from raw materials or agro-industrial by-products and incorporation into food systems. Advanced approaches, including encapsulation, nanotechnology, and microbial biotechnology, enhance stability and bioavailability. Enrichment can also be achieved through biofortification, agronomic practices, breeding, and metabolic engineering. We welcome studies on bioactive compound characterization, biosynthesis, biodiversity, biological activity, and applications in functional foods.

Guest Editors

Dr. Aurelia Scarano

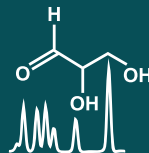
Institute of Sciences of Food Production C.N.R., Unit of Lecce, 73100 Lecce, Italy

Dr. Teodoro Semeraro

Research Institute on Terrestrial Ecosystems (IRET-URT Lecce), National Research Council of Italy (CNR), Campus Ecotekne, 73100 Lecce, Italy

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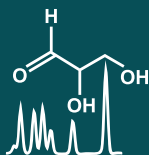


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Metabolites
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metabolites@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

Dr. Amedeo Lonardo

Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

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