

Special Issue

Deciphering the Biological Activity of Natural Compounds: Metabolic Control and Health Repercussions

Message from the Guest Editors

Plants abound in phytochemicals and secondary metabolites, prized for their health benefits and pharmaceutical potential. Analytical techniques underscore plants as sources of functional substances. Rising demand for safe, multifunctional natural compounds drives extensive research. Bioactives from plants, integral to traditional medicine, now undergo scrutiny for their metabolic health impacts. Research reveals these bioactives modulate factors affecting inflammation, aging, diabetes, obesity, heart disease, allergies, and cancer. Understanding their metabolic control and health effects is crucial. This Special Issue focuses on plant-derived bioactives as potential modulators of these factors, emphasizing their roles in health. It explores medicinal plants globally as sources of bioactive substances. Scholars are invited to contribute research on molecular pathways through which these compounds act, from antioxidants to anticancer, antidiabetic, and anti-inflammatory agents, impacting metabolic ailments.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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