

Special Issue

Nutraceutical and Bioactive Compounds in Foods

Message from the Guest Editors

The study of bioactive compounds and nutraceuticals has gained increasing attention due to their potential roles in metabolism, cellular function, and disease prevention. These naturally occurring molecules—such as polyphenols, flavonoids, carotenoids, peptides, and other secondary metabolites—exhibit diverse biological activities, including antioxidants, anti-inflammatory, antimicrobial, and metabolic-regulating properties. Understanding their molecular mechanisms and optimizing their bioavailability are crucial for advancing their applications in functional foods, shelf-life extension, food safety, biotechnology, and health sciences. This Special Issue aims to explore the latest scientific discoveries in the molecular characterization, bioavailability, and biological functions of bioactive compounds, as well as innovative methods for their enhanced delivery and application.

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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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