

Special Issue

Molecular and Pharmacological Insights into Bioactive Compounds: Pathways to Therapeutics

Message from the Guest Editors

Bioactive compounds that are synthetically modified or obtained from natural sources have significant potential for therapeutic applications. Understanding their molecular and pharmacological mechanisms is essential to promote the discovery and clinical application of new drugs. This Special Issue focuses on the complex biological pathways through which bioactive compounds exert their effects, including interactions with cell signaling networks, epigenetic modifications, metabolic reprogramming, and immune modulation. It highlights innovative research on the role of bioactive compounds in combating diseases such as infectious diseases, cancer, neurodegenerative metabolic, and genetic and cardiovascular disorders. We welcome studies exploring mechanisms of drug resistance and new therapeutic strategies. We invite original research articles and reviews that elucidate the molecular basis, efficacy, and therapeutic potential of bioactive compounds.

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Message from the Editor-in-Chief

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