Special Issue

Discovery of New Natural Derived Compounds and Mechanisms for Chronic Diseases Therapy

Message from the Guest Editors

Promising and novel cancer therapies have been investigated in natural compounds, their structural analogs, and semisynthetic derivatives, revealing a remarkable diversity in their chemical properties. Among the many natural molecular systems are flavonoids, porphyrins, sugars, and mimetic peptides, as well as their metallo-derivatives, which have provided platforms for the specific recognition and stabilization of biomolecules. This has opened new possibilities in biomedicine to avoid unwanted effects, pharmacological resistance, and to enhance the bioavailability of promising therapeutic agents. Coordination chemistry and self-assembly have been among the most versatile synthetic tools for developing new molecular and supramolecular architectures that target elusive biological targets associated with degenerative or chronic disorders. The ability of these systems to organize themselves in a structured and functional way is crucial for their specific interactions with biomolecules, enabling the development of innovative devices such as biomolecular sensors, controlled drug delivery systems, and platforms for personalized therapies.

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