

Special Issue

15th Anniversary of *Life*— Emerging Plant-Based Materials and Bioactive Compounds in Biomedical Applications

Message from the Guest Editor

This Special Issue aims to collect high-quality papers focused on the development, characterization, and application of plant-derived materials and bioactive compounds in the biomedical field. We welcome contributions that explore the innovative use of phytochemicals, plant-based polymers, and naturally occurring compounds for biomedical applications.

The topics of interest include, but are not limited to, the following:

- The extraction and characterization of plant-based bioactive molecules with therapeutic potential;

- The use of biocompatible and biodegradable plant-derived materials in medical devices and scaffolds;

- The use of plant-based nanomaterials in targeted drug delivery and diagnostics;

- The antioxidant, anti-inflammatory, antimicrobial, and anticancer activities of phytocompounds;

- The synergistic effects between plant compounds and conventional therapies;

- Sustainable approaches to sourcing and processing plant-based biomedical materials.

This Special Issue seeks to highlight both fundamental research and applied innovations, promoting interdisciplinary approaches that bridge plant science, materials science, pharmacology, and biomedicine.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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