Special Issue

Advances in Phytochemicals: Biological Activities and Applications

Message from the Guest Editor

Plants are a remarkable source of chemicals and produce a wide variety of bioactive compounds known as secondary metabolites. These compounds play crucial roles in plant defense, communication, and adaptation to their environment. They contribute to a plant's aroma, color, taste, and resistance to pathogens, herbivores, and environmental stressors. Isolating and characterizing secondary plant metabolites is a key area of research in natural product chemistry. These compounds have attracted immense interest in various fields, including the following:

- Pharmaceuticals and medicine: antibiotics, anticancer agents, anti-inflammatory and analgesic agents, etc.
- Agriculture: pesticides, herbicides, plant growth regulators, biological control agents, etc.
- Food industry: flavoring agents, preservatives, etc.
- Cosmetics and personal care: perfumes, skincare, dves, etc.
- Environmental applications: bioremediation, allelopathy, etc.

This Special Issue provides a platform for researchers to publish their findings on in vitro, in vivo, and in silico studies of secondary metabolites, including their isolation and characterization and their applications across various fields.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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Author Benefits

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and reviewer names are published annually in the journal.

