

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, dyes, 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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Message from the Editor-in-Chief

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

Recognition of Reviewers:

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