

## Special Issue

# Biosynthetic Pathways and Molecular Regulatory Mechanisms of Active Ingredients in Medicinal Plants

### Message from the Guest Editors

Dear colleagues, Medicinal plants are an important resource for humans. Recently, significant progress has been made in genomics, epigenomics, transcriptomics, proteomics and metabolomics of medicinal plants. Numerous studies have contributed to the biosynthetic pathway of active ingredients, genes encoding key enzymes of the pathway, and regulatory mechanisms of active ingredients. This open-access Special Issue of *Plants* highlights recent advances in the biosynthesis and regulatory mechanisms of active ingredients.

Topics of this Special Issue include, but are not limited to, the following:

Genomics, epigenomics, transcriptomics, protomics and metabolomics of medicinal plants;

Biosynthetic pathways of secondary metabolites;

Key enzyme genes involved in the biosynthesis of secondary metabolites;

Transcription factors and regulatory networks in medicinal plants;

Metabolic engineering and synthetic biology of active ingredients;

Application of high-throughput sequencing technologies;

Databases associated with the biosynthesis and regulation of active ingredients;

Novel technologies and strategies for secondary metabolism studies.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 May 2025)



## Plants

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## About the Journal

### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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### Editor-in-Chief

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