

Special Issue

Plant-Derived Bioactive Compound Research

Message from the Guest Editors

Plants have long been a rich source of bioactive compounds with significant impacts on human health, agriculture, and industry. Plant-derived natural products exhibit remarkable structural diversity and diverse biological activities. Beyond their pharmacological potential, they also play crucial roles in plant defense, adaptation, and ecological interactions. In recent years, advances in analytical chemistry, molecular biology, and synthetic biology have greatly accelerated the exploration of plant metabolites. These advances have enabled the discovery of novel compounds, elucidation of their biosynthetic pathways, and evaluation of their biological functions. Such developments open new opportunities for drug discovery, functional food design, and sustainable agricultural practices. This Special Issue of *Plants* aims to showcase cutting-edge research on the chemistry, biosynthesis, biological activities, and applications of plant-derived bioactive compounds. We welcome original research articles, reviews, and perspectives that broaden our understanding of these natural products and their potential to address pressing challenges in medicine, nutrition, and the environment.

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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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