Special Issue

Isoprenoids: Metabolic Mechanisms, Bioactivity and Application

Message from the Guest Editors

Isoprenoids belong to the most diverse class of secondary metabolites in the plant kingdom. Terpenoids are the most dominant type among isoprenoids. Terpenoids play many important roles in plants, including in the protection against temperature, oxidative and drought stress, protection from herbivore and pest attack, in the attraction of pollinators, and in signaling processes and the regulation of plant growth and development. Terpenoids are known for their high biological activity, including antimicrobial and antiviral properties, as well as their anticancer, anti-inflammatory, antinociceptive, anti-ageing and neuroprotective effects. This Special Issue of Plants will focus on recent findings and progress for various aspects related to the metabolic mechanisms and biological activity of terpenoid compounds from aromatic plants. Studies that address the aspects of isolation and determination of these metabolites, biosynthesis and genetic regulation, phylogenic studies, their role in plant stress responses, the bioavailability and bioactivity of isoprenoids, as well as studies that novel biotechnologies in their application, are especially welcome.

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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, 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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