Special Issue

Terpenes and Terpenoids in Plants: From Biosynthesis and Structural Identification to Ecological Functions and Biotechnological Applications

Message from the Guest Editors

Terpenes, also known as terpenoids or isoprenoids, constitute a major class of metabolites, with a remarkable diversity in both structure and function. They are made of isoprene molecules (five carbon building blocks).

This Special Issue will focus on the recent advances in plant terpenes and terpenoids and is dedicated to all disciplinary fields related to this class of plant specialized metabolites. Particular attention will be given to the recent discoveries regarding: (i) the identification, as well as the molecular and biochemical mechanisms underlaying the biosynthesic pathways of plant terpenes and terpenoids; (ii) the separation, isolation, and production of these compounds using green and innovative bioprocesses; and (iii) the unraveling of their roles in plant–environment interactions, including plant responses to biotic (pathogens, beneficial microbes, microbiome, insects, herbivores, neighboring plants, etc.) and abiotic (drought, temperature, soil chemistry, etc.) factors.

Guest Editors

Dr. Ali Siah

UMR-t INRAE 1158 BioEcoAgro Junia Lille, F-59014 Lille, France

Dr. David Gagneul

UMR-t INRAE 1158 BioEcoAgro, University of Lille, Villeneuve d'Ascq, F-59655 Lille, France

Deadline for manuscript submissions

closed (31 March 2023)



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/117779

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

mdpi.com/journal/ ijms





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

