Special Issue

Plant Volatile Organic Compounds: Revealing the Hidden Interactions

Message from the Guest Editors

Plants volatiles are synthesized in every part of the plant, including the roots, seeds, stems, leaves, and fruits, but the flowers give off the highest amount as well as the widest variety of Volatile organic compounds (VOCs). VOCs and color compounds are among the most well-known plant-specialized metabolites. VOCs are required for interacting with other organisms in mutualistic (e.g., attracting beneficial insects such as pollinators) or hostile interactions both below and above ground (e.g., warning against pathogens and herbivores). This Special Issue aims to attract up-to-date contributions on all aspects of VOC chemistry (from challenges in their isolation and analysis to their synthesis) and on unlocking their biological activities or other useful properties.

- volatile organic compounds
- biosynthesis and emission
- VOCs in plant–plant and plant–environment interaction
- VOCs in insect/microbe/pathogen/signaling mechanism
- novel approaches in volatile isolation/analysis/synthesis
- fruits/food and beverages
- essential oils
- biological activities
- application of omics technologies

Guest Editors

Dr. Farhat Abbas

Institute of Tropical Fruit Trees, Hainan Academy of Agricultural Sciences/Key Laboratory of Genetic Resources Evaluation and Utilization of Tropical Fruits and Vegetables (Co-Construction by Ministry and Province), Ministry of Agriculture and Rural Affairs/Key Laboratory of Tropical Fruit Tree Biology of Hainan Province, Haikou 571100, China

Dr. Brian Farneti

1. Department of Forest Mycology and Plant Pathology, Swedish University of Agricultural Sciences, Uppsala, Sweden
2. Dipartimento di Genomica e Biologia Piante da Frutto, Centro Ricerca e Innovazione, Fondazione Edmund Mach (FEM), San Michele all'Adige, Italy

Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/167770

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

mdpi.com/journal/plants

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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.

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

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