Special Issue

Biosynthesis, Function, and Application of Plant Volatiles

Message from the Guest Editors

Plants synthesize a large number of volatile compounds. These small, chemically diverse metabolites give plants fragrance and serve multiple functions in the reproduction of plants and the protection of plants from environmental stress. They also repel herbivores and pathogens, protect plants from abiotic stress, and activate resistance traits in neighboring plants via airborne plant–plant signaling. Besides their functions in ecosystems, plant volatiles play important roles in many aspects of human behavior, as they are widely applied in pharmaceutics, nutrition, and industries. Although tremendous progress has been made in elucidating the functions of volatiles in plant physiology and ecology, the biosynthesis, functions, bioactivities, and development of plant volatiles remain worthy of study. The goal of this Special Issue is to provide insightful and critical advances in the field of biosynthesis, functions, and applications of plant volatiles. We welcome the submission of original research articles and reviews.

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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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