



## Green Insect Control: The Potential Impact of Plant Essential Oils

Guest Editors:

**Dr. Eleonora Spinozzi**

Chemistry Interdisciplinary  
Project (ChIP), School of  
Pharmacy, University of  
Camerino, Via Madonna delle  
Carceri, 62032 Camerino, Italy

**Prof. Dr. Nickolas G.  
Kavallieratos**

Laboratory of Agricultural  
Zoology and Entomology,  
Department of Crop Science,  
Agricultural University of Athens,  
75 Iera Odos Str., 11855 Athens,  
Greece

**Dr. Paolo Rossi**

School of Biosciences and  
Veterinary Medicine (SBVM),  
University of Camerino (UNICAM),  
Camerino, Italy

Deadline for manuscript  
submissions:

**25 December 2024**

### Message from the Guest Editors

Dear Colleagues,

The search for innovative and safe bioinsecticides is continuously growing. Indeed, the risks associated with the use of conventional insecticides triggered interest in developing sustainable alternatives for insect control. In this context, plant essential oils (EOs) are gaining a substantial traction as potential novel bioinsecticides. Their range of application has recently expanded to phytopharmaceuticals as well as in foods and beverages. EOs have already demonstrated potential in the management of noxious insects. Moreover, they boast relative safety to human health and non-target organisms, low persistence in the environment, multiple modes of action, and often broad availability. EOs for insect control as well as the development of formulative tools for their correct application are still under investigation. This Special Issue of *Plants* will focus on the insecticidal properties of plant EOs, their extraction, chemical characterization, and safety. Furthermore, it will focus on the development of innovative formulative systems of EOs to be employed for insect control strategies, analyzing the real-world future applications of these plant-derived products.





an Open Access Journal by MDPI

## Editor-in-Chief

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

## 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.

## 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, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

## Contact Us

---

Plants Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/plants](http://mdpi.com/journal/plants)  
[plants@mdpi.com](mailto:plants@mdpi.com)  
[X@Plants\\_MDPI](https://twitter.com/Plants_MDPI)