



## Application of Plant Metabolites and Extracts as Biopesticides in Controlling Pests and Weeds

Guest Editors:

**Dr. Sara María Palacios**

Independent Researcher,  
Universidad Católica de  
Córdoba, Avenida Armada  
Argentina 3555, Córdoba CPA  
X5016DHK, Argentina

**Dr. Alejandro Urzua**

1. Ciencias de Recursos  
Naturales, Universidad de La  
Frontera, Av. Francisco Salazar  
01145, Temuco 4811230, Chile  
2. Facultad de Química y  
Biología, Universidad de  
Santiago de Chile, Santiago,  
Chile

Deadline for manuscript  
submissions:

**closed (20 October 2023)**

### Message from the Guest Editors

Dear Colleagues,

It is well known that insects and weeds hinder the cultivation of food plants, so there is always a need to control them. Agriculture has become technological to such an extent that the use of insecticides and herbicides has become an obligatory tool. In general, synthetic insecticides and herbicides are highly effective but have many undesirable health and environmental consequences. From a chemical point of view, we can say that only natural substances have the potential to be used as insecticides and herbicides without major environmental problems. In this sense, plants are a great source of substances with these activities. For this reason, a continuous discovery of bioactive substances is necessary, as well as a detailed analysis of the possibilities of their application, commercialization, and supply, both for complete extracts and for active principles. This Special Issue aims to contribute to the discovery of new natural insecticides or herbicides as well as analysis and perspective of their application.





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)