

Special Issue

Antimicrobial Activity of Plant Extracts Against Plant Pathogens

Message from the Guest Editors

The agricultural industry has long relied on synthetic chemicals to combat plant pathogens, leading to concerns over environmental and health impacts. Furthermore, the misuse of these chemicals is resulting in the development of microbial resistance. This Special Issue aims to explore the potential of natural plant extracts in combating microbial species and enhancing productivity in horticulture. It seeks to assess various plant extracts' antimicrobial properties and their suitability for controlling bacterial, viral, and fungal infections in plants. Additionally, this Special Issue aims to investigate the mechanisms of action of these natural compounds and explore strategies for their application in agricultural settings. The cutting-edge research that will be featured in this Special Issue includes studies on the efficacy of different plant extracts, essential oils, and active compounds in inhibiting the growth of phytopathogenic microorganisms. Researchers are also encouraged to investigate novel formulations to enhance the solubility and bioavailability of these natural compounds, thus improving their effectiveness in the field.

Guest Editors

Dr. Peggy Marconi

Dr. Eva Sánchez-Hernández

Dr. Riccardo Fontana

Deadline for manuscript submissions

closed (30 June 2025)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/201934

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

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)