



an Open Access Journal by MDPI

New Insights into Biocontrol to Improve Food Quality and Safety

Guest Editors:

Dr. Tiago Nazareth

Department of Food Science and Toxicology, Faculty of Pharmacy, University of Valencia, Ave. Vicent Andrés Estellés s/n, 46100 Burjassot, Spain

Prof. Dr. Giuseppe Meca

Department of Preventive Medicine and Public Health, Food Science, Toxicology and Forensic Medicine, University of Valencia, 46100 Valencia, Spain

Deadline for manuscript submissions:

closed (20 May 2023)

Message from the Guest Editors

Recent changes in food purchasing and consumption have led consumers to place greater importance on the impact of food production and processing on health and the environment. In order to address these problems, the industry has made great efforts to reduce losses by using natural preservatives that can replace traditional chemical biocides.

Biocontrol involves using living organisms or natural substances to prevent or reduce damage caused by harmful organisms. Therein, biocontrol can be carried out using natural substances of plant origin, such as essential oils and isolated molecules, as well as microorganisms and animals and their derivatives, which offers new opportunities to control foodborne pathogens, improving food safety and quality. Therefore, this Special Issue aims to publish high-quality reviews and original research articles encompassing the biological control of viral, microbial, nematode, insect, mite, weed, and vertebrate pests and their toxic substances to improve food quality and safety.

• **Keywords:**

- Biological control agents
- Antimicrobial compounds
- Toxigenic fungi
- Foodborne pathogens
- Essential oils



mdpi.com/si/118947



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
appls@mdpi.com
[X@Appls](https://twitter.com/appls)