



## Recent Advances in Pest Control Strategies in Agroecosystems

Guest Editors:

**Prof. Dr. Luis Carlos Martinez**

Department of Production and  
Crop Protection, University of  
Nariño, Pasto 602-7244309,  
Colombia

**Prof. Dr. Angelica Plata Rueda**

Department of Biology, National  
University of Colombia, Bogotá  
571-3165000, Colombia

Deadline for manuscript  
submissions:

**closed (10 February 2024)**

### Message from the Guest Editors

For years, monocultures have been composited by a single plant species and represent an extreme example of low diversity. This agricultural system is more susceptible to pests and, consequently, a high degree of management and inputs are required to maintain low insect populations. Agroecosystems support the food production systems in farms and promote the biodiversity needed to maintain the natural enemies of insect pests. Thus, some technologies in modern systems aim to achieve efficient pesticide application, insect entomophagous liberation, entomopathogenic microorganism incorporation, and the use of semiochemicals, among others. This Special Issue aims to publish advances in the use of biorational (natural or synthetic) insecticides, the application of entomophagous (parasitoids or predators) and entomopathogenic (fungi, bacteria, or viruses) organisms as biocontrol agents, and the use of pheromones for pest control in agroecosystems. Existing IPM practices must be continually optimized, as well as the development of innovative new IPM tools.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Les Copeland

Sydney Institute of Agriculture,  
School of Life and Environmental  
Sciences, The University of  
Sydney, Sydney, NSW 2006,  
Australia

## Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

## 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, RePEc, and other databases.

**Journal Rank:** JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

## Contact Us

---

Agriculture Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/agriculture  
agriculture@mdpi.com  
X@AgricultureMdpi