



## Pest Control and Insect Behavioral Ecology

Guest Editor:

**Prof. Dr. Frédéric Francis**

Laboratory of Functional and Evolutionary Entomology, Gembloux Agro-Bio Tech, University of Liège, 25030 Gembloux, Belgium

Deadline for manuscript submissions:

**closed (30 June 2021)**

### Message from the Guest Editor

Sustainable pest control includes diversified and complementary approaches to reduce conventional insecticide applications. Approaches to managing the behaviors of pests and entomophagous beneficials in a multitrophic interactive way are increasingly included in IPM. Push-pull strategies to repel pests and/or attract predators/parasites can be promoted either by using semiochemical releasers or by including odor-emitting plants in intercropping/mixing crops. Attract and kill strategies are another way to control pests by combining odor release and physical trapping. Crop plot management promoting innovative semiochemicals to be spread, either from synthetic systems or from selected plants in agroecosystems, leads to the reduction of pest populations with ecosystemic service promotion from beneficials. Interactions with plant pathogens are considered in terms of biocontrol compatibility, synergy, or opposition. The Special Issue will include the latest developments in the biological control of agricultural pests, considering the effect of a diversity of plants/volatile organic compounds on insect behavior/crop interactions enhancing bio-control efficiency.





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, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

## 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), GEOBASE, 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