



life



an Open Access Journal by MDPI

Recent Advances in Chemosensory-Based Behaviorally, Physiologically, and Molecularly Manipulated Technology of Pest Insects

Guest Editors:

Dr. Rui Tang

Centre for Resource Insects and
Biotechnology, Institute of
Zoology, Guangdong Academy of
Sciences, Guangzhou, China

Dr. Nanji Jiang

Department of Evolutionary
Neuroethology, Max Planck
Institute for Chemical Ecology,
Jena, Germany

Deadline for manuscript
submissions:

30 August 2024

Message from the Guest Editors

Dear Colleagues,

Chemosensory reception stands as an ancient and pivotal sensory mode in insects, where environmental volatile cues and taste components are intricately processed through sophisticated neural circuits. These interactions yield discernible behavioral and physiological responses, necessitating cross-trophic chemical communication and precise chemosensory protein function. This framework offers avenues for targeted manipulation of insect species, potentially augmenting environmentally friendly strategies within conventional integrated pest management approaches. This Special Issue invites research papers investigating key chemical signals, their reception mechanisms, molecular underpinnings, and relevant technological applications for insect pest management.

In this Special Issue, we welcome original research articles and review papers.



mdpi.com/si/182921

Special Issue



life



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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](#), [CAPus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Biology*) / CiteScore - Q2 (*Paleontology*)

Contact Us

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

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

mdpi.com/journal/life
life@mdpi.com
[X@Life_MDPI](#)