

Special Issue

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

Message from the Guest Editors

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.

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

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

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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.

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

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