

Special Issue

Functional Analysis of Insect Pest Genomes and Gut Microbiome for Crop Protection

Message from the Guest Editor

Insect genomics has played a pivotal role in entomology, providing insights into insect biology from molecular to physiological levels by unraveling the complexities of insect genomes. We invite contributions that cover various aspects of pest Genomics, including novel pest Genomics, comparative genomic, application of genomics and interdisciplinary studies. The topics of interest include, but are not limited to, the following: Novel pest Genomics in agriculture; Pest Genomics and their applications in pest identification and pest management; Applications of genomics and gut microbiome in ecological adaptation of pests; Applications of pest genomics and gut microbiome in invasion mechanism of invasive species; Pest Gut microbiome and its application in pest management; Case studies, reviews, and experimental findings advancing Pest Genomics. We welcome original research articles, reviews, and methodologies that explore the pest genomics in agriculture. This Special Issue aims to provide a comprehensive platform for researchers, practitioners, and policymakers to exchange insights, foster collaborations, and propel the progression of pest genomics.

Guest Editor

Dr. Lijun Liu

College of Plant Protection, China Agricultural University, Beijing, China

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closed (15 January 2026)



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

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Message from the Editor-in-Chief

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Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental
Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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