# **Special Issue**

# Immunogenetics and Functional Genomics of Insects

## Message from the Guest Editors

Insects, the most diverse and adaptable group of organisms on Earth, have evolved sophisticated innate immune systems over hundreds of millions of years.

This Special Issue aims to advance interdisciplinary research at the intersection of insect immunogenetics and functional genomics, with a focus on evolutionary dynamics of immune genes, molecular mechanisms of immune signaling, discovery of novel immune effectors, etc. Themes of interest include, but are not limited to, host-microbe interactions, functional constraints and evolutionary innovations, immune memory and epigenetic regulation, and the application of cuttingedge technologies such as multi-omics and CRISPR/Cas9 gene editing in insect immunology. We particularly encourage submissions that provide new insights into host-microbe interactions and the crosstalk of immune response with nutritional and developmental signals. These discoveries would not only deepen our understanding of insect immunity but also offer potential targets for pest control and disease management.

#### **Guest Editors**

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## Deadline for manuscript submissions

15 November 2025

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## Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the Genes team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider Genes for your next genetics paper?

### Editor-in-Chief

## Prof. Dr. Selvarangan Ponnazhagan

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