



*insects*



an Open Access Journal by MDPI

## Opportunities and Challenges in Insect Functional Genomics

Guest Editors:

**Prof. Dr. Xuguo Zhou**

Department of Entomology,  
University of Kentucky,  
Lexington, KY 40546, USA

**Dr. Nicholas M. Teets**

Department of Entomology,  
University of Kentucky,  
Lexington, KY 40546, USA

Deadline for manuscript  
submissions:

**closed (30 June 2023)**

### Message from the Guest Editors

Dear Colleagues,

The advent of the Genomics Era has afforded life science a powerful new tool in the 21st century. This Special Issue will focus on the mechanisms and applications of insect functional genomics. Over the past 20 years, functional genomics toolsets, such as RNA interference (RNAi) and CRISPR/Cas9-based genome editing, have been broadly adopted in entomological research to decipher gene functions in insects. Further, genomic approaches such as RNA-seq and genome-wide association study (GWAS) can provide important insights into gene function, and these approaches can be used in practically any insect species. With the success of these approaches in bench-top research, attention has now shifted to potential applications in agriculture, especially for the control of arthropod pests. We would like to invite all works, original research and/or review articles, covering insect functional genomics to this Special Issue.

Prof. Dr. Xuguo Zhou

Dr. Nicholas M. Teets

*Guest Editors*



[mdpi.com/si/101399](https://mdpi.com/si/101399)

# Special Issue