

## Special Issue

# State-of-the-Art in Insect Cytogenetics

### Message from the Guest Editors

Insects represent the most wonderful and variable and numerous group of organisms that populate the Earth. Insect habitat spans the entire planet, with more than five million potentially recognized species, and most of them are cytogenetically unknown.

Chromosomal banding and the application of molecular cytogenetics techniques to insect chromosomes have made it possible to identify specific regions on the chromosomes and analyze chromosome rearrangements and chromosome evolution. These studies have demonstrated the diversity in the function and structure of insect chromosomes, on many occasions linked to the varied and complex life cycles of insects.

Knowledge of the typical evolutionarily important characteristics of karyotypes has undergone rapid development. Among these techniques, we highlight molecular combing, designed to identify amplifications, microdeletions, and rearrangements in a DNA sequence and to study the process of DNA replication.

For this Special Issue, original research articles and reviews addressing important questions related to these fields using standard or new molecular cytogenetic techniques are welcome.

---

### Guest Editors

Prof. Dr. Pedro Lorite Martínez

Prof. Dr. Teresa Palomeque

Dr. Eugenia E. Montiel

Dr. Pablo Mora

---

### Deadline for manuscript submissions

closed (10 November 2023)

G C A T  
T A C G  
G C A T

## Genes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5  
Indexed in PubMed



[mdpi.com/si/109243](https://mdpi.com/si/109243)

*Genes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[genes@mdpi.com](mailto:genes@mdpi.com)

[mdpi.com/journal/  
genes](https://mdpi.com/journal/genes)



G C A T  
T A C G  
G C A T

# Genes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5  
Indexed in PubMed



[mdpi.com/journal/  
genes](https://mdpi.com/journal/genes)



## About the Journal

### 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  
Department of Pathology, The University of Alabama at Birmingham,  
1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

---

### 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, MEDLINE, PMC, Embase, PubAg, and other databases.

#### Journal Rank:

JCR - Q2 (Genetics and Heredity) / CiteScore - Q2 (Genetics (clinical))