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State-of-the-Art in Insect Cytogenetics

Guest Editors:

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Deadline for manuscript
submissions:

closed (10 November 2023)

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.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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.

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