Special Issue

Comparative Cytogenetics and Molecular Systematics of Insects

Message from the Guest Editors

Comparative cytogenetics has been widely applied to many insect species through routine and banding chromosome staining methods, FISH, GISH, chromosomal painting, etc. These approaches permit identifying chromosomal homology, rearrangements, and breakpoints in addition to differentiating the parental genomes in hybrids. However, many pathways of karyotype evolution, mechanisms promoting fixation of chromosome changes, and the processes leading to divergence and speciation remain understudied. With the relatively recent advent of DNA-based approaches, DNA has become a major source of information for taxonomic and phylogenetic inference. This Special Issue aims to bring together new cytogenetic and sequence data and highlight the role and prospects of their combined use for understanding chromosomal and molecular evolution in Insecta. All contributions related to evolutionary and comparative cytogenetics and molecular systematics of various insect lineages and taxa are of interest. We particularly welcome articles that identify general trends regarding the use of each type of data. For the Issue, original research articles, reviews, and opinion articles are welcome.

Guest Editors

Prof. Dr. Valentina G. Kuznetsova

Dr. Nazar A. Shapoval

Dr. Natalia V. Golub

Deadline for manuscript submissions

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

mdpi.com/journal/insects

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Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Brian T. Forschler
Department of Entomology, University of Georgia, 413 Biological Sciences Building, Athens, GA 30602-2603, USA

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).