

Special Issue

Structural Genetic Variation

Message from the Guest Editors

Large-scale changes in chromosomes not only remodel their structure but also can modify gene content, gene order, gene regulation, and can even create the raw material for new gene functions. In this way, structural variants are increasingly recognized as a category of genetic change, with high potential to impact the phenotype and organismal fitness, thus contributing to disease, adaptation, and species differentiation.

Nevertheless, structural variation has been understudied, largely because technical limitations have prevented its reliable characterization at the sequence level, in turn hindering the proper analysis of the functional and phenotypic consequences of this variation. In this Special Issue, we aim to publish review and original research papers that address a wide variety of topics associated with structural variation, including how to accurately discover and characterize structural variation using third-generation sequencing technologies, the quantification of the effects of structural variation on fitness, the characterization of the variation in repeats and selfish genetic elements, and how structural changes influence repertoires of gene function.

Guest Editors

Dr. José M. Ranz

Department of Ecology and Evolutionary Biology, School of Biological Sciences, University of California Irvine, Irvine, CA 92697, USA

Dr. J.J. Emerson

Department of Ecology and Evolutionary Biology, Center for Complex Biological Systems, University of California Irvine, Irvine, CA 92697, USA

Deadline for manuscript submissions

closed (1 October 2021)

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/56168

Genes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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))