

Special Issue

Bioinformatics and Population Genomics

Message from the Guest Editors

Studying genetic factors underlying phenotypic variation among populations has been the cornerstone of population genetics. In light of recent developments in sequencing technologies, the scope of these studies has dramatically changed, transforming it to an interdisciplinary field that integrates bioinformatic tools to analyze and manage large biological data. Both theoretical and computational methods are required to understand mechanisms producing and maintaining genetic diversity among populations. Population genetics studies can identify loci involved in adaptation or variants responsible for inbreeding depression. Moreover, these findings can be applied for wildlife conservation. This Special Issue aims to highlight recent discoveries and theoretical frameworks. We are interested in studies that describe the causes of adaptation as a result of domestication, invasion of non-native species, and climate change as well as disease susceptibility at the genome level by developing and applying novel bioinformatics tools.

Guest Editors

Dr. Nima Rafati

Department of Medical Biochemistry and Microbiology, National Bioinformatics Infrastructure Sweden, Science for Life Laboratory, Uppsala University, 75236 Uppsala, Sweden

Dr. Dag Ahrén

Department of Biology, Lund University, 221 00 Lund, Sweden

Deadline for manuscript submissions

closed (20 May 2023)

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

Genes

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.9
Indexed in PubMed



mdpi.com/si/143878

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 3.1
CiteScore 5.9
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
Experimental Cancer Therapeutics, 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))