

Special Issue

Functional Evolution of Sex Chromosomes

Message from the Guest Editors

Sex chromosomes evolved independently multiple times. Two alternative modes of sex determining and sex chromosome systems have evolved in all characterised organisms, but variations and departures from these two systems are common rather than being coincidences. Genes on sex chromosomes not only play an important role in sex determination and gonadal differentiation, they are also involved in many critical functions such as brain development and growth. Recent investigations using modern genomic and advanced cytogenetic tools on a number of organisms have provided intriguing and unique evolutionary dynamics of sex chromosomal genes; however, the best way to delineate the unique functional evolution pathways of sex chromosomes in most lineages remains largely unclear. More information is required concerning the dynamics of the evolution of sex chromosomal gene function. This Special Issue will highlight this across different groups of organisms including their sequence content (genes and transcript) and chromatin conformation. Submit your manuscript now!

Guest Editors

Prof. Dr. Tariq Ezaz

Prof. Dr. Kornorn Srikulnath

Prof. Dr. Marcelo de Bello Cioffi

Deadline for manuscript submissions

closed (30 June 2020)

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

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.9
Indexed in PubMed



mdpi.com/si/20777

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 5.9
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))