



genes



an Open Access Journal by MDPI

Sex Chromosome Evolution and Meiosis

Guest Editors:

Dr. Frederic Veyrunes

Institut des Sciences de
l'Évolution de Montpellier (ISEM),
Université de Montpellier, Place
Eugène Bataillon, 34095
Montpellier, CEDEX 05, France

Dr. Frederic Baudat

Institut de Génétique Humaine
(IGH), CNRS, Université de
Montpellier, 141 rue de la
Cardonille, Montpellier, France

Dr. Jesús Page

Department of Biology,
Universidad Autónoma de
Madrid, 28049 Madrid, Spain

Deadline for manuscript
submissions:

closed (20 September 2021)

Message from the Guest Editors

From the early days of study of genetics and – with ever refined research tools – up to the present time, sex chromosomes have always been a source of fascination. At least three features set sex chromosomes apart from the rest of the genome and drive their unique evolution: the unusual pattern of transmission, the lack of recombination on sex-specific regions, and the absence of synapsis once the two sex chromosomes become divergent enough.

All these three features take place during meiosis, which makes this process the key component to understanding the evolution and differentiation of sex chromosomes. Surprisingly, however, the meiotic behaviour of sex chromosomes and the cellular context in which it happens have received little attention so far.

In this Special Issue, we aim to fill this gap by exploring the large diversity of sex chromosome systems and how the tightly choreographed process of meiosis copes with this. We hope that the table of contents will illustrate this diversity, and that multiple model systems, meiotic processes, and disciplines will be covered.



mdpi.com/si/66306

Special Issue



genes



an Open Access Journal by MDPI

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

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.

Why not consider *Genes* for your next genetics paper?

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 & Heredity*) / CiteScore - Q2 (*Genetics*)

Contact Us

Genes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](https://twitter.com/Genes_MDPI)