Special Issue

Epigenetics and Chromosome Biology

Message from the Guest Editors

Besides conducting their fundamental in vivo actions, transcription, replication, and DNA repair must contend with the chromatin environment. The plethora of histone covalent modifications and the enzymes that place or remove them have deep impacts on the biology and pathology of virtually all eukaryotes. Besides directly governing classical intermolecular recognition, the stereochemical arrangement and chemical state of nucleosomes may contribute to the folding and spatial partitioning of genes and chromosomal segments, subject to the physics of the transmission of force and torque through DNA and chromatin and to the physical chemical constraints of phase separations within the nucleus while also accommodating the biochemical events surrounding transcription, DNA replication, and DNA repair. It is this imposition of multiple, independent layers of regulation and organization on gene regulation, repair, and replication that confers robustness and plasticity to these events.

Guest Editors

Prof. Dr. David L. Levens
National Cancer Institute, Bethesda, MD, USA

Dr. Brian A. Lewis
Center for Cancer Research, National Cancer Institute, Building 10, Room 2N105, Bethesda, MD, USA

Dr. Fedor Kouzine
Center for Cancer Research, National Cancer Institute, Building 10, Room 2N105, Bethesda, MD 20892, USA

Deadline for manuscript submissions

closed (1 September 2020)

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/si/31035

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

mdpi.com/journal/genes

MDPI

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/journal/genes

MDPI

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))