Special Issue

Epigenetic Regulation of Cell Fate

Message from the Guest Editors

Activation of specific genes in mammalian cells can trigger a change in cellular identity and underlies many physiological and pathological processes. For example, changes in the gene expression program of stem and progenitor cells can initiate their differentiation into more specialized cell types and hence play an essential role in embryonic development, adult tissue homeostasis, and organ regeneration. These include histone modifications, DNA methylation, chromatin accessibility, RNA and protein modifications, and the interaction of various factors, including different regulatory elements, transcription factors, epigenetic regulators, long non-coding RNAs, and microRNAs. This Special Issue invites researchers to contribute original research and review articles discussing the epigenetic control of various cellular conversions, advances in technological development for understanding epigenetic control mechanisms, and epigenetic-based strategies to restore normal cellular function.

Guest Editors

Dr. Anja Knaupp

Department of Anatomy and Developmental Biology and Australian Regenerative Medicine Institute, Monash University, Clayton, VIC 3168, Australia

Dr. Xiaodong (Ethan) Liu

College of Life Science, Westlake University, Hangzhou 310030, China

Deadline for manuscript submissions

closed (15 April 2023)

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/si/126245

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))