



Epigenetic Connections between the Gene Regulatory Network and Chromatin Dynamics

Guest Editor:

Dr. Sari Pennings

Centre for Cardiovascular
Science, Queen's Medical
Research Institute, University of
Edinburgh, Edinburgh EH16 4TJ,
UK

Deadline for manuscript
submissions:

closed (30 November 2020)

Message from the Guest Editor

Cells in tissues have different phenotypes and functions determined by lineage-specific and signal-responsive gene expression patterns. Activation or repression of gene transcription is facilitated by epigenetic mechanisms controlling the accessibility of DNA in nuclear chromatin. Transcription factors and histone- and DNA-modifying enzymes cooperate in gene regulatory networks that act on individual genes or genomic domains in the nucleus and can maintain gene expression patterns through cell divisions. This Special Issue focuses on gene regulation mechanisms involving transcription factors, epigenetic modifying and chromatin remodelling complexes acting at specific genomic loci or altering chromosomal dynamics. A better understanding of how cell types and cell states are defined will advance further insight into cell differentiation and cell function in normal tissues and in disease.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI