



ncRNA-Mediated Regulatory Networks and Their Role in the Epigenetic Landscape of Development and Disease

Guest Editors:

Dr. Ettore Luzi

Laboratory of ncRNA Complex Diseases, Department of Experimental and Clinical Biomedical Sciences (DECBS), University of Study of Firenze, 50139 Florence, Italy

Dr. Carla Bosia

1. Department of Applied Science and Technology, Politecnico di Torino, Torino, Italy
2. IIGM—Italian Institute for Genomic Medicine, c/o IRCCS Candiolo, Torino, Italy

Deadline for manuscript submissions:

closed (31 December 2021)

Message from the Guest Editors

Gene regulation is a complex biological process involving various regulators across multiple levels, its dysregulation is closely associated with disease and differentiation processes. In gene regulation, transcription factors (TFs) and microRNAs (miRNAs) have been recognized to play important roles at the transcriptional and post-transcriptional levels, respectively.

We now have evidence that the interplay amongst microRNAs and, more generally, ncRNAs and TFs may create network motifs that finetune gene regulation in mammals by controlling the impact of noise on gene expression.

Investigating the interplay between TFs and miRNAs/ncRNAs in regulatory circuits and the ways in which they reduce or amplify noise to produce specific cell states are of interest.

For this Special Issue, we welcome the submission of reviews and original research articles regarding the role of gene regulatory circuits mediated by miRNAs/ncRNAs and TFs in development and disease, with the aim of producing a dedicated article collection focusing on their action and dysregulation in physiological and pathological processes.





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