

## Special Issue

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

### 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.

---

### 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)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/73418](https://mdpi.com/si/73418)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/journal/  
ijms](https://mdpi.com/journal/ijms)



## About the Journal

### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

---

### Editor-in-Chief

Prof. Dr. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

---

### 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)