

Special Issue

RNA Biology: Unraveling the Complex Interplay Between Proteins and RNAs in Gene Expression and Regulation

Message from the Guest Editor

RNA Biology: Unraveling the Complex Interplay between Proteins and RNAs in Gene Expression and Regulation delves into the intricate dance between proteins and RNAs in the complex world of gene expression and regulation. This Special Issue will explore the latest advancements in our collective understanding of the diverse roles of RNAs, from their transcriptional genesis to their post-transcriptional modifications, in shaping cellular function. We highlight the complexity of interactions between RNAs and proteins, including RNA-binding proteins, which orchestrate gene expression patterns and cellular responses. Furthermore, we encourage cutting-edge research on the emerging role of non-coding RNAs in gene regulation, epigenetic modifications, and disease pathogenesis. Through these studies, we can gain better insight into the dynamic and multifaceted nature of RNA biology, paving the way for future therapeutic interventions and biotechnological applications.

Guest Editor

Dr. Rosemary Kiernan

Institut de génétique humaine, UMR 9002, CNRS, Université de Montpellier, Gene Regulation Laboratory, 141, Rue de la Cardonille, 34396 Montpellier, France

Deadline for manuscript submissions

closed (30 July 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/200460

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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*, 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.

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

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 (Organic Chemistry)