

Special Issue

The Lesser Known World of RNA Circles

Message from the Guest Editors

Circular RNAs (circRNAs) represent a heterogeneous class of covalently closed single-stranded RNA molecules. CircRNA was first discovered in plant viroids and eukaryotic cells by electron microscopy more than 40 years ago. For the last four decades, they were mostly considered as non-functional splicing products or intronic lariats. The advent of next-generation sequencing technologies and novel bioinformatic tools led to the discovery of the ubiquitous and abundant expression of circRNAs across eukaryotic organisms. However, it is essential to note that only a handful of circRNAs has been functionally characterized among thousands of circRNAs identified to date. The last few years have seen an increasing number of reports suggesting the association of circRNAs in human development and diseases. In addition, recent studies have established that circRNAs regulate gene expression by modulating the activity of RNA-binding proteins and microRNAs. Some of the circRNAs have been shown to translate into proteins and regulate cellular physiology. However, many of the molecular details of circRNA biogenesis and function remain to be explored.

Guest Editors

Dr. Amaresh Panda

Institute of Life Sciences, Nalco Square, Bhubaneswar-751023, Odisha, India

Dr. Kotb Abdelmohsen

Laboratory of Genetics and Genomics, National Institute on Aging Intramural Research Program, National Institutes of Health, 251 Bayview Blvd, Baltimore, MD 21224, USA

Deadline for manuscript submissions

closed (15 October 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/101829

*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)