

Special Issue

Non-coding RNAs: Promising Targets in Regenerative Medicine and Cell Therapies

Message from the Guest Editors

Long non-coding RNAs (lncRNAs) are RNA molecules longer than 200 bp, with multiple functions in both physiological and diseases-related processes. These molecules present gene expression regulatory abilities, although their role is not limited to this function. Several well-studied examples of lncRNAs suggest that they can operate through distinct modes, including working as signals, scaffolds for protein–protein interactions, molecular decoys, and guides to target elements in the genome or transcriptome. More and more evidence is highlighting fundamental roles for lncRNAs in stem cells renewal and differentiation, along with their potential disruption when these processes are impaired. lncRNAs could thus become new key targets in regenerative medicine and cell therapies, and their study in stem cells is thus fundamental. Moreover, lncRNAs are being investigated and evaluated for clinical use as possible innovative pharmacological treatments. In this Special Issue, we expect to collect both original research and review articles aimed at assessing key advancements in lncRNA's role in stem cell renewal and differentiation.

Guest Editors

Dr. Stephana Carelli

1. Department of Biomedical and Clinical Sciences "L. Sacco", University of Milan, Milan, Italy
2. Pediatric Research Center "Romeo ed Enrica Invernizzi", University of Milan, Milan, Italy

Dr. Federica Rey

1. Department of Biomedical and Clinical Sciences "L. Sacco", University of Milan, Milan, Italy
2. Pediatric Research Center "Romeo ed Enrica Invernizzi", University of Milan, Milan, 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/67024

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

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)