

Special Issue

Advances in Stem Cell Research for Future Therapies and In Vitro Disease Modelling

Message from the Guest Editor

In recent years, stem cell therapy has become a very promising and advanced scientific research topic that is undergoing, now, its first clinical trials. This growing interest goes hand in hand with industrial partners aiming to bring technology and capacity up to scale and offer cell replacement therapies to patients suffering from chronic disorders. This Special Issue is focused on recent discoveries that might contribute to the areas of basic stem cell research, in vitro disease modelling, translational stem cell research and stem cell therapies. Recent advances in cell reprogramming and genome editing technologies have created new possibilities for the development of new in vitro models to study human diseases. More recently, organoids have emerged as powerful tools to better study early developmental biology as a possible source for future cell therapies. We invite you to contribute to this Special Issue and to communicate new advances in stem cell research for future therapies and in vitro disease modelling with original articles and reviews.

Guest Editor

Dr. J. Carlos Villaescusa

Department of Molecular Medicine and Surgery, Karolinska Institutet, Stockholm, Sweden

Deadline for manuscript submissions

closed (31 March 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/82365

*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)* 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)