

Special Issue

Signals in Embryonic Germ Layer Specification

Message from the Guest Editor

The embryonic development of vertebrates is governed by several sets of evolutionarily conserved signals, including BMP, FGF, Activin, Nodal, and Wnt. These signals are integrated to orchestrate the cell fate determination, germ layer specification, and embryonic patterning through controlling the expression of the target gene(s) regulatory network (GRN). However, understanding the molecular crosstalk among various signaling pathway(s) and GRN remains to be fully elucidated. Hence, the scope of this Special Issue is to expand our knowledge of early embryogenic processes that are actively involved in the activation/deactivation of signal transduction and the target transcription factors (on different signals input) for fate determination and lineage priming during germ layer specification in vertebrates.

Guest Editor

Dr. Jaebong Kim

Department of Biochemistry, Institute of Cell Differentiation and Aging,
College of Medicine, Hallym University, Chuncheon, Gangwon-Do,
Republic of Korea

Deadline for manuscript submissions

closed (31 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/101268

*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)