

Special Issue

Conserved Pathways in Development and Cancer

Message from the Guest Editors

Normal embryonic development is governed by genetic pathways that control a myriad of processes, ranging from cell division, migration and differentiation, to organ formation. These pathways are often co-opted and de-regulated in common diseases of adulthood, including the progression of cancer. Many parallels exist between the normal cellular process required for the establishment of an embryo (such as asymmetric cell division in stem cells, epithelial to mesenchymal transitions in organ establishment, and formation of the vascular system required) with identical pathways that drive tumour initiation and progression. In effect, tumour growth can in many cases be thought of as the aberrant establishment of a new "organ" (Gerlitz et al., EMBO Reports 9: 730-734), utilising and corrupting precisely the same conserved genetic pathways required for normal growth. This special issue is devoted to understanding these parallels; by determining the normal pathways of tissue and organ establishment, we can better understand the consequences of their deregulation in the context of cancer development.

Guest Editors

Dr. Tomasz Wilanowski

Dr. Seb Dworkin

Dr. Charbel Darido

Deadline for manuscript submissions

closed (30 April 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/78709

*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)