

Special Issue

Stem Cells in Health and Disease: 3rd Edition

Message from the Guest Editor

In recent years, our knowledge about the dual role of stem cells in health and disease has increased significantly. However, the biological and molecular mechanisms of this double function are yet to be fully understood. This Special Issue aims to highlight stem-cell biology in both physiological and pathological conditions, thus expanding the current knowledge and boosting innovative diagnostic and/or therapeutic applications. Original and review articles, including basic studies, are all welcome for consideration. Research topics may include (but are not limited to) the following:

- Molecular and cellular mechanisms governing stem-cell physiology, i.e., self-renewal signaling pathways, differentiation, and metabolic plasticity;
- Microenvironmental regulators of stem-cell plasticity and mutual interconversion between healthy and non-healthy stem cells;
- Cancer stem cell (CSC) involvement in tumor progression and molecular drivers and mechanisms underlying CSC therapy resistance;
- Therapeutic application of stem cells in experimental settings.

Guest Editor

Dr. Maja Ludvigsen

1. Department of Hematology, Aarhus University Hospital, 8200 Aarhus N, Denmark
2. Department of Clinical Medicine, Aarhus University, 8200 Aarhus N, Denmark

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

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