

Special Issue

Stem Cells for Cardiovascular Biology and Medicine

Message from the Guest Editors

Various somatic stem cells, such as cardiac stem/progenitor cells (CSCs/CPCs), have been established and studied for future use in medical fields such as regenerative medicine. Induced pluripotent stem (iPS) cells have been studied for this purpose. Using iPS-cell-derived cardiac myocytes, an in vitro disease model was established for the evaluation of the effect of treatment with drugs and chemicals. Studies have shown both the existence and non-existence of CSCs/CPCs. The variation of in vitro differentiation is the strength of iPS cells, but the reported degree of variation varies across different studies.

This Special Issue focuses on current investigations of various somatic stem cells, including bone marrow (stem) cells, CSCs/CPCs, and iPS cells, and the environmental regulation of stem cells including chemokines. We are also interested in discussing how much we have currently achieved in these fields and what may be the obstacles to the further study of stem cells in cardiovascular biology and medicine. In this context, we welcome the submission of original research, short communication, and review manuscripts.

Guest Editors

Dr. Nanako Kawaguchi

Department of Pediatric Cardiology and Adult Congenital Cardiology,
Tokyo Women's Medical University, Tokyo 162-8666, Japan

Dr. Toshio Nakanishi

Department of Pediatric Cardiology and Adult Congenital Cardiology,
Tokyo Women's Medical University, Tokyo 162-8666, Japan

Deadline for manuscript submissions

closed (31 January 2022)



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/57797

Biology

Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biology@mdpi.com

[mdpi.com/journal/
biology](https://mdpi.com/journal/biology)





Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



[mdpi.com/journal/
biology](https://mdpi.com/journal/biology)



About the Journal

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology Institute, University of Valencia and CSIC, 46980 Valencia, Spain

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).