

Special Issue

Metabolism of Hematopoietic Stem Cells during Development and Aging

Message from the Guest Editor

Metabolic changes impede cellular differentiation and long-term destiny, and they play a crucial role in aging and cancer transformation. The focus of this Special Issue is on the metabolic control of self-renewal and differentiation and how dysregulation, aging, and malignant transformation may occur from disturbed metabolisms. This Special Issue will also include the following: how metabolites impact developmental decisions in hematopoietic stem cells; how mitochondrial and lysosomal function influence stem cell aging, metabolite epigenetic functions, and metabolite signaling roles across stem cells; and the effect of metabolic therapies in aging and diseases. The goal of this Special Issue is to increase collaboration across a variety of fields and, ultimately, to examine how metabolic pathway treatments might influence the aging process.

Guest Editor

Dr. Tasleem Arif

Department of Cell, Developmental & Regenerative Biology, Icahn School of Medicine, Mount Sinai, NY 10029, USA

Deadline for manuscript submissions

closed (15 September 2023)



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/122077

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).