

Special Issue

Controversies and Recent Advances in Senescence and Aging

Message from the Guest Editors

Aging is the leading factor for chronic diseases that account for most of the morbidity and mortality worldwide (e.g., neurodegeneration; cardiovascular, pulmonary, renal, and bone diseases; and cancers). Oxidative stress and reactive oxygen species generation, overproduction of inflammatory cytokines, activation of oncogenes, DNA damage, telomere shortening, and the accumulation of senescent cells are all widely accepted mechanisms contributing to aging. Senescence is mainly thought to be provoked by negative cellular stress, but might also be induced by physiological developmental stimuli. Currently, no single marker is available to identify a cell as specifically senescent *in vivo*. Senescent cells contribute to embryonic tissue development and participate in tissue repair and tumor suppression, but they are also involved in detrimental tissue decline during aging. Given the pleiotropic actions of senescent cells, a deeper understanding is needed to develop further approaches and recommendations for healthy aging. All contributions shedding additional light and providing significant or provocative findings in these fascinating topics are welcome in this Special issue of *Cells*.

Guest Editors

Dr. Nicole Wagner

Institute of Biology Valrose, University of Nice Sophia Antipolis, 06107 Nice, France

Dr. Kay-Dietrich Wagner

CNRS, INSERM, iBV, Université Côte d'Azur, 06107 Nice, France

Deadline for manuscript submissions

closed (1 May 2022)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/95565

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

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





Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



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



About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE,
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,
Copenhagen, Denmark

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).