

Topical Collection

Cellular Senescence and Extracellular Vesicles Crosstalk

Message from the Collection Editors

Activation of cellular senescence-associated pathways affect biosynthesis of secreted small extracellular vesicles (EV) and contribute to modifying concentration, size, cargo, and function of plasma EV in aging subjects. Senescent-like EV are functionally active and might induce cellular senescence in “normal” cells, thus contributing to the accumulation of senescent cells, a mechanism that plays a major role in the development and progression of age-related pathologies. Despite this important function, how EV change in response to aging and the underlying mechanisms that contribute to these changes are poorly understood. The Special Issue will evaluate manuscripts addressing original research as well as review papers trying to elucidate the role of aging cells in regulating EV content, including RNAs, proteins and lipids and the active role of such component in surrounding cells. Editors will consider studies based on in vitro and in vivo models of senescence as well as approaches envisioning senolytic agents (natural or synthetic) to revert the aging process.

Collection Editors

Dr. Lucio Barile

1. Faculty of Biomedical Sciences, Università Svizzera Italiana, 6962 Lugano, Switzerland
2. Cardiocentro Ticino Institute, Ente Ospedaliero Cantonale, CH-6900 Lugano (CH), Switzerland

Dr. Edoardo Lazzarini

Cardiocentro Ticino Institute, Ente Ospedaliero Cantonale, CH-6900 Lugano (CH), Switzerland



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/87208

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, CAPus / 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 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).