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.

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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.

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

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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).