

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

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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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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).