Special Issue

Interconnection between Senescence and Cancer

Message from the Guest Editors

Cellular senescence occurs in response to various stressors, including DNA damage, oxidative stress and oncogene activation. Senescence acts primarily as a tumour suppression mechanism that prevents proliferation of potentially cancerous cells. Senescence cells secrete plethora of factors, including inflammatory cytokines, growth factors, and proteases, collectively known as the senescence-asscociated secretory phenotype (SASP). On the other hand, the accumulation of senescent cells in vivo exerts detrimental effects on the functionality of tissues and organs. Chronic accumulation of senescent cells also promote tumor relapse and metastasis. Thus, the Jekyll and Hyde nature of cellular senescence is highly complex, and understanding the regulatory mechanisms of cellular senescence will lead to the development of therapies for various diseases, including cancer, neurodegenerative diseases and diabetes. This Special Issue provides an open access forum aimed at compiling a collection of original research and review articles on the interconnection between senescence and cancer.

Guest Editors

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Deadline for manuscript submissions

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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).