Special Issue

Key Signalling Molecules in Aging and Neurodegeneration

Message from the Guest Editors

The human lifespan has drastically increased in the past decades and the percentage of the aged population is constantly rising, posing major health and economic challenges. In this Special Issue, the focus will be on neurodegenerative disorders of the elderly, particularly Parkinson and Alzheimer diseases. Both conditions are characterized by the progressive degeneration of specific neuronal circuits, through largely unknown pathogenic mechanisms, and are devoid of valid therapeutic approaches. Therefore, the need to find novel targets and early biomarkers to develop appropriate pharmacological strategies appears urgent. In this scenario, precise knowledge of the specific cellular and molecular processes behind aging and neurodegeneration is a priority for the scientific community.The aim of this Special Issue is to provide an overview of the main signalling pathways and molecules involved in the process of aging, highlighting their intimate connection with the onset of neurodegenerative disorders.

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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 17 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2024).