Special Issue

Experimental Systems to Model Aging Processes

Message from the Guest Editors

This Special Issue of Cells on "Experimental Systems to Model Aging Processes" aims to gather contributions from internationally leading aging researchers on model systems—ranging from traditional to emerging models—used to elucidate the mechanisms underlying aging. Contributions can be in the form of original scientific articles and reviews.

Aging is driven by a range of molecular and subcellular processes, which include genetic, epigenetic, and genomic alterations; the loss of proteostasis; dysregulated autophagy; metabolic dysfunctions; or the malfunction of cellular organelles. Additionally, aging is influenced by inter-cellular dynamics, including changes in signaling pathways, inflammatory processes, and microbial balance. These events, whether individually or interconnected, can be modeled in study systems both in vitro and in vivo, as well as ex vivo and in silico.

We look forward to your contributions.

Guest Editors

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Dr. Giovanni Risato

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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.

Editors-in-Chief

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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).