Special Issue

Nuclear Lamina in Health and Disease

Message from the Guest Editors

Lamins are involved in regulating a multitude of cellular functions. These functions range from genome organization, DNA damage repair, chromosomal stability, gene expression, transcriptional regulation and the cell cycle. Considering the unique subcellular localization of nuclear lamins at the border of the nucleus and cytosol, lamins interact with proteins of the linker to nucleoskeleton and cytoskeleton (LINC) complex that, in turn, is closely associated with the cytoskeleton. Therefore, cells are remarkably sensitive to mechanical forces that emanate from its immediate outside environment that are relayed via integrins into the nuclear envelope and nuclear lamins. Interestingly, mutations in the LINC or lamins are associated with a plethora of diseases including cancers, ciliopathies, envelopathies and laminopathies. Therefore, therapeutic approaches and targets to repair an injured nucleus are of paramount importance for cell survival. This Special Issue on lamins in health and disease of the journal *Cells* presents a gamut of cutting-edge, state-of-the-art findings on the treasure trove that lamins beckon us to unravel.

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Deadline for manuscript submissions

closed (31 July 2022)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/107772

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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).