Special Issue

Nuclear Pore Complex in Nanomedicine

Message from the Guest Editor

Nuclear pore complexes (NPC) at the surfaces of nuclear membranes play a critical role in regulating the transport of molecules between the cell nucleus and cytoplasm. Aberrant functions of nucleoporins (Nups) and NPCs have been associated with many diseases, including autoimmune diseases (Nup358/RanBP2), viral infections (Nup358/RanBP2, Tpr, and Nup153), neuronal diseases (RanGAP1), cardiomyopathies (NDC1, Nup160, Nup153, and Nup93), and cancers, especially leukemia (Nup98, Nup214). However, and in spite of the importance of NPCs, we still only have a limited understanding of the spatial–temporal dynamics of NPCs.

In this Special Issue, we invite you to contribute original research articles, reviews, case reports or shorter "Perspective" articles on all aspects related to the theme of "Nuclear Pore Complex in Nanomedicine".,We especially hope to highlight current trends and novel models with functional insights from a cellular and nanoscopic perspective.

Keywords
- Nuclear pore complex
- Cell cycle and cancer
- Imaging and microscopy
- Structure and function
- Nano
- Medicine

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closed (30 June 2021)

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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).