Special Issue

Vesicular Trafficking Meets Nuclear Transport

Message from the Guest Editors

Extracellular Vesicles (EVs) are nanosized structures known to mediate the transfer of biomaterials between cells. EV cargoes include molecules originating from a wide range of cellular districts, surprisingly including the cell nucleus. This implies that nuclear proteins and genomic DNA can be actively packaged and secreted in EVs. In parallel, the presence of EV-carried biomolecules in the nuclei of receiving cells clearly suggests that the EV cargo may reach the nucleus by unconventional routes, for example, involving interactions between the endosomal and nuclear compartments. This Special Issue aims to be the first comprehensive systematic collection of studies on this aspect, accepting original research and review articles, including but not limited to the following topics:

- Nucleocytoplasmic trafficking of EV-derived/ enclosed material;
- EV loading with nuclear components;
- The nuclear envelope and the endosomal compartment as key players for vesicular nuclear trafficking;
- Nucleocytoplasmic shuttling endocytic adaptor proteins and protein moonlighting.

Guest Editors

Dr. Gualtiero Alvisi

Dr. Lucia Paolini

Dr. Annalisa Radeghieri

Deadline for manuscript submissions

closed (10 March 2022)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/26390

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/journal/cells

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

Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

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).