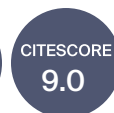




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Vesicular Trafficking Meets Nuclear Transport

Guest Editors:

Dr. Gualtiero Alvisi

Dr. Lucia Paolini

Dr. Annalisa Radeghieri

Deadline for manuscript
submissions:
closed (10 March 2022)

Message from the Guest Editors

Dear Colleagues,

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.



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Dr. Gualtiero Alvisi

Dr. Lucia Paolini

Dr. Annalisa Radeghieri

Guest Editors

Special Issue



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Editors-in-Chief

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6-145 Jackson Hall, 321 Church St
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Denmark

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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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Contact Us

Cells Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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