Topical Collection

Extracellular Vesicles and Nucleic Acids in Health and Disease

Message from the Collection Editors

The term extracellular vesicles (EVs) is used to identify nanosized vesicles released by almost all cell types. EVs are present in every body fluid and their composition mirrors the type and the physio-pathological status of the originating cells. EVs contain different types of nucleic acids. The first studies demonstrated that EVs contain mRNAs that are translated and functionally active in target cells. This result led to the discovery that the horizontal transfer of genetic information via EVs represents one of the cell-to-cell communication mechanisms. Further, other non-coding RNA involved in protein synthesis or in regulatory functions have been found to be associated with EVs. Additionally, EVs isolated from cell culture media and biofluids carry DNA molecules, including mitochondrial DNA, single-stranded DNA and double-stranded DNA fragments. In this Special Issue, authors are invited to submit original research and reviews on the nucleic acid content of EVs isolated from different sources and/or under different physio-pathological conditions, their biological roles, and their potential to be used as a diagnostic and therapeutic tool.

Collection Editors

Dr. Sandra Buratta

Department of Chemistry, Biology and Biotechnology, University of Perugia, Via del Giochetto, 06123 Perugia, Italy

Dr. Lorena Urbanelli

Department of Chemistry, Biology and Biotechnology, University of Perugia, Via del Giochetto, 06123 Perugia, Italy

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

mdpi.com/journal/cells

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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

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