



genes



an Open Access Journal by MDPI

RNA in Extracellular Vesicles

Guest Editors:

Dr. Genevieve Bart

Disease Networks Research Unit,
Laboratory of Developmental
Biology, Faculty of Biochemistry
and Molecular Medicine,
University of Oulu, 90570 Oulu,
Finland

Dr. Maija Puhka

HiPrep and EV Core, Institute for
Molecular Medicine Finland
FIMM, University of Helsinki,
00290 Helsinki, Finland

Deadline for manuscript
submissions:

closed (15 April 2024)

Message from the Guest Editors

Extracellular Vesicle (EV) RNA cargo attracts a lot of interest as a liquid biopsy offering a way to tap information about the originating tissues and physiological status of the secreting cells. EV RNA is also investigated as a dynamic intercellular or interkingdom messenger. Consequently, the EV RNA field progresses at a fast pace with regular new twists due to technical advances and challenges. For example, RNA is now recognized both inside vesicles as a protected cargo as well as bound to the surface of EV. EV have been traditionally classified based on secretion pathways: endosomal pathway or membrane budding, which may result in the packaging of different RNA species. Currently investigators explore also novel types of secreted nanoparticles such as exomeres and supermeres with potentially different RNA cargo than found from EV secreted from the same cells. In addition to its use as liquid biopsy, EV RNA may be able to modulate gene expression if taken up by cells. The purpose of this Special Issue is to present original research, critical technologies and review articles documenting different RNA types in EV and nanoparticles and their regulatory roles in recipient cells.



mdpi.com/si/137518

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

Why not consider *Genes* for your next genetics paper?

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (*Genetics & Heredity*) / CiteScore - Q2 (*Genetics*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](#)