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Extracellular Vesicle-Associated Non-Coding RNAs

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Deadline for manuscript submissions:
closed (10 March 2022)

Message from the Guest Editors

Among the factors that most affect intercellular communication are the macromolecules that have been loaded into or attached to the vesicles, and the ability of the recipient cells to internalize and metabolize the messages.

In eukaryotic cells, non-coding RNAs (ncRNAs) control gene expression at multiple levels: they oversee chromatin remodelling, nucleic acids editing, transcription and RNAs' maturation. Many questions remain unanswered: how much relative abundances, adhesivity or selective packaging may affect non-coding RNAs loading in EVs;how they maintain their stability and avoid lysosomal degradation in target cells; what compartments are reached by EV-transported ncRNAs; how and to what extent these molecules can affect gene expression in target cells.

This special issue will focus mainly on understanding the molecular mechanisms of EV-mediated ncRNAs horizontal transfer in all its stages. In addition, reviews and research articles will explore the different families of transported ncRNAs and the effects induced by ncRNAs in recipient cells, to add new elements to the understanding of EV-mediated cellular communication.

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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.

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