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Extracellular Vesicle-Associated Non-Coding RNAs

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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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Special Issue