



Exosomes as a Tool for Disease Progression Monitoring in Humans and Animals

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Message from the Guest Editors

For years thought to be “unfunctional garbage bags”, exosomes are now considered as one of the most potentially applicable tools for monitoring several disease conditions, both in humans and in animals. Due to their endosomal origin, exosomes are released in the extracellular space by almost all cell types during different physiological conditions. Reflecting the genomic, proteomic, and lipidomic profile of their parental cells, circulating exosomes are potential biomarkers for the prediction of disease burden both at an early stage and in response to therapy, which could have a relevant impact on precision medicine.

In particular, in combination with liquid biopsy tests, exosomes together with their rich content of biomolecular components could allow the screening of individual patients for the presence of disease indicators using a simple blood test, thus providing an alternative approach to the costly, invasive, and sometimes “risky” traditional procedures.

This Special Issue will discuss recent advances in the field of exosomes as indicators of disease progression both in humans and in animals.





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