Special Issue

Exosomes as Drug Carriers for Cancer Therapy

Message from the Guest Editors

Liquid biopsy has several advantages over conventional methods, as it is less invasive, easily obtainable, repeatable, less burdensome for the patient, and more applicable in the diagnosis of distinct diseases. Early detection, characterization, and monitoring of cancer are possible by using extracellular vesicles (EVs), i.e., mainly exosomes isolated from liquid biopsy samples. Exosomes are packed with several molecules, such as nucleic acids, proteins, lipids, and metabolites. When these are released, they may affect the cell-to-cell communication, contributing to tumorigenesis, angiogenesis, metastasis, signal transduction, and immune responses. Several beneficial properties of exosomes make them promising therapeutic shuttle vesicles. Engineered exosome-based personalized medicine may be a new treatment option for cancer. This Special Issue aims to address the latest research or new views on exosomes in the monitoring, characterization, and understanding of background mechanisms within cancer, as well as possible therapeutic applications for cancer therapy.

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