

Special Issue

Innovative Applications of Extracellular Vesicles: From Diagnostics to Drug Delivery

Message from the Guest Editor

Extracellular vesicles are generated by the blebbing of the plasma membrane (microvesicles) formed in multivesicular bodies to be secreted by exocytosis as exosomes. In diagnostics, EVs are extremely valuable due to their ability to reflect the physiological and pathological state of their cells of origin. They can be isolated from bodily fluids, providing non-invasive methods for early disease detection, monitoring disease progression, and tailoring personalized treatment strategies.

Due to their biocompatibility, stability, lower immunogenicity, and unique features, EVs are widely explored as drug delivery systems, showing promising results in preclinical studies. EVs can be engineered to deliver therapeutic agents, including small molecules, proteins, and nucleic acids, directly to target cells.

This Special Issue aims to discuss recent advances in the field of EVs and their role as mediators of intercellular communication in pathological conditions, highlighting their potential innovative strategies for significant advancements in therapeutics and diagnostics.

Guest Editor

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