

Special Issue

Extracellular Vesicle-Based Delivery System for Cancer and Neurodegenerative Disease Treatment

Message from the Guest Editors

Extracellular vesicles (EVs) have emerged as promising nanocarriers capable of crossing biological barriers and delivering therapeutic agents with high specificity and reduced toxicity. The most clinically approved delivery vehicles are represented by liposomes, which are EV-like structures sharing structural similarities with EVs, but differing in composition and ease of production. EVs offer greater biological complexity and potential for drug loading, but face manufacturing and quality control challenges. Future applications involve the use of EV-based platforms for the delivery of immunotherapeutics, such as mRNA-based drugs. Overall, the field of EVs could be critical for advancing targeted therapies, which can significantly contribute to improving the outcomes of patients with cancer or neurodegenerative conditions. This Special Issue aims to gather innovative research and comprehensive reviews on the development and application of EV-based delivery systems. We seek to explore the mechanisms, challenges, and clinical potential of these systems (by EVs and EV-like structures), aligning with cutting-edge therapeutic strategies and drug/gene delivery technologies.

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