Special Issue

Extracellular Vesicles in Cancer Treatment: Opportunities and Challenges

Message from the Guest Editor

Extracellular vesicles (EVs) are cell-derived lipid bilayer membrane particles that represent an additional mechanism for cell-to-cell communication and has been studied as possible biomarkers for different diseases. Moreover, since discovering that EVs play a wide range of tumor-related processes and have the endogenous ability to protect their encapsulated material from the extracellular environment, overcome natural barriers, intrinsic cell targeting properties and circulation stability, the potential use of EVs as therapeutic nanoplatforms for cancer studies and drug delivery has attracted considerable interest. Despite multiple advantages, the application of EVs for anticancer therapy has been limited by technical issues, such as obtaining large-scale standardized preparations and relatively low loading of the desired bioagents. This Special Issue aims to collect the latest advanced studies of EVs in diagnosing and treating cancer diseases, sharing knowledge and data with readers and scientists working in this discipline to foster an effective and safe clinical translation of these unique intercellular delivery vehicles.

Guest Editor

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Message from the Editor-in-Chief

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