Special Issue

Extracellular Vesicles for Cancer Therapy

Message from the Guest Editors

EVs are nano-sized lipid-bilayer-encapsulated particles that are released by practically all types of cells in the three domains of life. EVs carry several biologically active molecules from parental cells, including proteins, lipids, sugars, DNA and RNA, namely non-coding RNAs. Accumulating evidence demonstrates that EVs can act both locally and at distant sites through their ability to modulate tumor growth, invasion, angiogenesis, immune inhibition and establishment of pre-metastatic niches. In fact, EVs can circulate to distant organs and induce changes in the microenvironment to potentiate future metastatic spread through horizontally transferring molecular information. Moreover, their stability when circulating in different body fluids and ability to transfer bioactive molecules between cells indicates their potential for the design of new therapeutic approaches. This Special Issue aims to highlight the potential of utilizing EVs in new cancer therapies, covering their potential as therapeutic agents, due to their innate therapeutic properties, or even as engineered therapeutic vehicles for known drugs or vaccines.

Guest Editors

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