Special Issue

Extracellular Vesicles: Biogenesis and Functions in the Complex Landscape of Differentiation and Disease

Message from the Guest Editor

We are pleased to invite you to explore the dynamic landscape of EVs research, starting from novel experimental approaches for isolation and characterization, investigation of their cargo and impact on the immediately neighbouring millieu, to the potential use of these EVs as biomarkers in differentiation processes, as well as in disease diagnosis and prognosis. Extracellular vesicles (EVs) are membrane-derived nanovesicles secreted by living cells which function as potent mediators of intercellular communication. Cargos in EVs can serve as external stimuli for recipient cells, hence influencing the intercellular communication pathway under certain physiological and pathological conditions. Nevertheless, EVs have gained particular interest as nanosized vehicles for delivery of molecular components, thus aiming to become an important therapeutic tool to fight against disease. In this context, the aim of this special issue is to highlight the biological role of EVs during stem cell differentiation stages, during development and during pathophysiological processes, including their potential use as biomarkers for monitoring and improving disease diagnosis and progression.

Guest Editor

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