Special Issue

Role of Extracellular Vesicles in Diseases

Message from the Guest Editors

Extracellular vesicles (EVs) have emerged as crucial mediators of intercellular communication, carrying a diverse cargo that includes nucleic acids, proteins, metabolites, microRNAs (miRNAs), and even whole organelles like mitochondria. These vesicles play a pivotal role in the pathophysiology of a wide range of diseases, including cancer, neurodegenerative disorders, cardiovascular diseases, and autoimmune conditions. By facilitating the transfer of bioactive molecules between cells, EVs contribute to disease progression, immune modulation, and tissue remodeling. Moreover, their cargo reflects the molecular signatures of the disease state, making EVs promising biomarkers for early detection, prognosis, and treatment monitoring. In addition to their diagnostic potential, EVs are also being explored as therapeutic targets and delivery vehicles, offering innovative strategies for precision medicine. This Special Issue brings together a collection of studies that highlight the multifaceted role of EVs in disease, from their molecular composition to their impact on cellular networks and organ systems.

Guest Editors

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Message from the Editor-in-Chief

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