

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.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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