

Special Issue

New Challenges and Opportunities: Extracellular Vesicles in Biological and Biochemical Processes

Message from the Guest Editors

Cell-to-cell communication is mediated by the release of a plethora of soluble molecules of varying nature and functions. However, extracellular vesicles (EVs) have been recognized as essential mediators of this intercellular crosstalk for many years now, being involved in all key biological processes in humans, such as cell differentiation, tissue homeostasis, and organ remodeling. EVs are membrane-enclosed structures, containing a complex cargo composed of proteins, lipids, and nucleic acids, which can be fully functional once transferred to target cells, and when released by normal and tumor cells, they act as critical modulators in both physiological and pathological conditions. This Special Issue will comprise a selection of research papers and reviews, focusing on the novel biochemical and molecular aspects of biological processes mediated by EVs. Contributions are welcome on EVs molecular characterization and cell signaling pathways involved in EVs-mediated physiological and pathological processes, as well as their impact on possible clinical implications.

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Deadline for manuscript submissions

closed (10 August 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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