



Exosomes—Nanocarriers for Better Medicine

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Message from the Guest Editors

Exosomes are membrane-derived nano-vesicles of about 30–200 nm in size released by all types of cells. Our increasing knowledge of why cells release exosomes and their role in intercellular communication has revealed their very complex and sophisticated contributions to health and disease.

There are many exciting medical applications for Exosomes:

Diagnosis. Exosomes represent an ideal noninvasive biomarker as they can be detected in bodily fluids.

Therapeutic agent. Exosomes can recognize specific cells, so they can deliver therapeutic cargos with better efficacy and less toxicity than other bio-vehicles (e.g., liposomes).

Injected exosomes are efficient at entering other cells and can deliver a functional cargo with minimal immune clearance.

Some researchers are exploring the use of exosomes in enhancing antitumor immune responses.

Over the next few years, several important developments are expected to strengthen and expand the current knowledge of exosomes. Exosomes should not be regarded as a future topic in medicine but rather the current one.





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Message from the Editor-in-Chief

Journal of Personalized Medicine is one of the few journals that covers the diverse areas involved in the field, including research at basic, translational, and clinical levels. It focuses on “omics”-level studies that seek to define the basis of interindividual variation in susceptibility for a disease, its prognosis or definition of clinical subsets, and response to therapy (pharmacogenomics). We are also interested in systems biology as it relates to interindividual variation, and research on new methodologies, informatics, and biostatistics, in the aforementioned areas.

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