



Mesenchymal Stem Cell-Derived Extracellular Vesicles as Therapeutics, 2nd Edition

Guest Editors:

Dr. Enrico Ragni

Laboratorio di Biotecnologie
Applicate All'Ortopedia, IRCCS
Ospedale Galeazzi–
Sant'Ambrogio, Via Cristina
Belgioioso 173, 20157 Milan, Italy

Dr. Daniela Boselli

FRACTAL–Flow Cytometry
Resource, Advanced Cytometry
Technical Applications
Laboratory, IRCCS Ospedale San
Raffaele, Via Olgettina 60, 20132
Milan, Italy

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Message from the Guest Editors

Dear Colleagues,

Mesenchymal stromal cells (MSCs) have gained attention in the field of regenerative medicine. MSCs' differentiation potential, together with their paracrine properties, has made them a crucial option for tissue healing and repair. MSCs' paracrine properties rely on the release of soluble factors and extracellular vesicles (EVs) such as exosomes and microvesicles. In the last decade, EVs have been postulated as crucial players for the therapeutic effect of MSCs in several in vitro and in vivo disease models. Moreover, a number of clinical trials using MSC-EVs have been started, covering cancer, neurological diseases, diabetes and COVID-19. Hence, MSC-EVs may be envisioned as a cell-free therapy in regenerative medicine and all those diseases where tissue healing is needed. Nevertheless, a thorough characterization of the cargo fingerprint associated with the MSC source and an explanation of MSCs' properties are still largely missing. Therefore, the aim of this Special Issue is to collect reports from in vitro studies to clinical trials, thereby shedding light on MSC-EV features at both the physiological and molecular levels.





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Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics,
Ernest Mario School of
Pharmacy, Rutgers University,
Piscataway, NJ 08854, USA

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Pharmaceutics Editorial Office
MDPI, St. Alban-Anlage 66
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