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Stem Cells and Extracellular Vesicles

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Message from the Guest Editor

Dear Colleagues,

Extracellular vesicles (EVs, including exosomes) released in multiple body fluids. EVs protect their content from degradation and are increasingly considered for the development of novel clinical applications. EVs research is complicated by the small size of EVs, lacking of tracking tools for EVs, its heterogeneity, and the lack of tools to study different populations of these nano-sized drug carrier in detail. With the emergence of new tools, bioengineering principles, and methods for EVs research, these challenges are being overcome. The purpose of this Special Issue is to examine bioengineering approaches in stem cells or EVs heterogeneity, tracking, biogenesis, and specific attributes of EVs as they play a role in cellular communication, tissue repair, tumor formation, immune activation, inflammation, proliferation, aging, and other conditions that important for progression of diseases. In providing this overview, this Special Issue will delineate the current foundations, bioengineering approaches and tools for the next steps toward determining the roles of EVs in pathogenesis and therapeutic strategies for the treatment of a wide range of diseases.



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Special Issue



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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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