

Special Issue

The Role of Extracellular Vesicles in Aging and Disease

Message from the Guest Editors

As cells accumulate damage over time, they respond by individual cell fate decisions that disrupt tissue homeostasis, thus leading to organ dysfunction and increased morbidity. Extracellular vesicles (EVs) are known to be able to modulate the aging process by restoring the microenvironment and promoting tissue regeneration. Thus, EVs are promising therapeutic tools, especially in the field of aging and diseases. In this Special Issue, we encourage scientists to contribute original articles or reviews describing EV sources, collection and purification methods, as well as EV synthetic designs, such as drug delivery carriers. Since EV bioactive cargo (proteins, miRNA, lipids) is altered depending on the physio-pathological conditions, we are also looking for studies on EVs' functional effect on target cells and the underlying mechanisms or signaling pathways that are involved in the process. Finally, we will also welcome research on EV applications for expanding health span, as well as EV use as early biomarkers for disease detection.

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