Special Issue

Mesenchymal Stem Cells and Their Role in Neurodegenerative Diseases

Message from the Guest Editors

Mesenchymal Stem Cells (MSCs) can be found in many tissues such as bone marrow, adipose tissue, umbilical cord, and dental pulp. They differentiate into cells of mesodermal origin such as adipocytes, chondrocytes, and osteocytes, as well as in cells belonging to other embryonic layers. It is known that MSCs possess a greater degree of plasticity than other populations of ASCs and that they can differentiate in vitro even in non-mesodermal cell lines such as neurons and astrocytes. Therefore, they are promising targets in regenerative–reparative medicine, cell therapy, and tissue engineering. The main objective of this Special Issue is to collect works concerning the capabilities of MSCs and related conditioned media (CM) in neurodegenerative diseases. In fact, several studies have shown that MSCs secrete growth factors, exosomes, and inflammation mediators by which they exert paracrine/autocrine effects and express their immunoregulatory properties. Also, the focus should be on the use of MSCs in the recovery of neurodegenerative diseases.

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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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