

Special Issue

Stem Cell Therapy for Autoimmune Diseases

Message from the Guest Editors

Approximately 3–5% of the worldwide population is affected by autoimmune diseases (ADs). Within the multifactorial etiology of chronic and self-perpetuating ADs with prominent inflammation, failure of self-tolerance and aberrant immune regulation seem to be especially deleterious. Thus, the basic therapeutic goal in ADs is to achieve immune homeostasis. Stem cell (SC) therapy has been considered to be a promising alternative approach. Besides repairing damaged tissues, SCs have the unique ability to modulate the immune system extensively in terms of immune reconstitution and overcoming the impaired self-tolerance status. Also, MSC-derived extracellular vesicles (secretomes) are important in the regulation of innate and adaptive immune reactions as well. SCs could serve as ideal therapeutic agents with the capacity to provide long-lasting, sustained protection from autoimmunity. The Special Issue is to discuss current trends of different stem cell-based therapy options in ADs, including their advantages, disadvantages, and obstacles, from a broad perspective of basic research and clinical practice.

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Deadline for manuscript submissions

closed (30 June 2023)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/96933

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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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