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Stem Cell Therapy for Autoimmune Diseases

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Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

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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Guest Editors



mdpi.com/si/96933

Special Issue



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