

Special Issue

Mesenchymal Stromal Cell-Derived Secretome for Immunomodulation and Tissue Remodeling

Message from the Guest Editor

Although the regenerative and immunomodulatory effects of mesenchymal stromal cells (MSCs) have been extensively studied as a potential therapy for a wide range of inflammatory and degenerative diseases, they have also been related to poor effectiveness, uncertain biosafety, and challenging regulatory pathways. Moreover, the beneficial effects of MSCs have been mainly attributed to their paracrine secretion, known as secretome. Formed by soluble factors and extracellular vesicles (EVs), the MSC-derived secretome has been proven to elicit immunomodulatory, proliferative, anti-oxidative or angiogenic effects beneficial for inflammation management and tissue repair, thus becoming a new and promising alternative for immune-mediated inflammatory diseases and regenerative medicine. This Special Issue aims to highlight the latest advances in enhancing the therapeutic potential of MSC-derived secretome or its components, including preconditioning strategies, isolation/purification, and delivery systems. We welcome original research and review articles that may contribute to increasing knowledge and discussion on this topic.

Guest Editor

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