

Special Issue

Advancements in Mesenchymal Stem Cell- Derived Secretome

Message from the Guest Editor

Encompassing a diverse repertoire of bioactive molecules—including cytokines, chemokines, growth factors, and microRNAs—the MSC secretome has demonstrated therapeutic efficacy comparable to cell transplantation. Indeed, MSCs primarily exert their beneficial effects through paracrine signaling rather than direct cell engraftment. Consequently, the MSC secretome mirrors the actions of its cells of origin by promoting tissue repair and regeneration, modulating immune responses, and mitigating inflammation. Moreover, compared to cell-based therapies, the secretome-based approach offers advantages such as reduced costs, simplified handling, and easier storage. This Special Issue will highlight recent advancements in MSC secretome research, focusing on innovative applications, mechanistic insights, and future translational directions. By exploring this rapidly evolving field, we aim to gather scientific evidence that can accelerate the development and facilitate the clinical translation of innovative, cell-free therapeutic strategies.

Guest Editor

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