

## Special Issue

# Recent Developments in Mesenchymal Stem Cells

### Message from the Guest Editors

Mesenchymal-stromal-cell-based products are among the cutting-edge biological approaches for regenerative medicine in several fields of medical technology.

Alongside the classical view of clinically expanded cells, mesenchymal stromal cells are now envisioned as crucial biological products acting as the active force in more complex therapeutic agents. Additionally, outmatching the idea of tissue substitution, mesenchymal stromal cells are a reservoir of active factors and extracellular vesicles, collectively referred to as the “secretome”, that stimulate resident progenitor cells to favour tissue regeneration. This Special Issue aims to identify the advances required to address future regenerative-medicine-based approaches relying on mesenchymal stromal cells and their released products. This Special Issue will establish the benchmarks for the state-of-the-art evidence necessary to facilitate the clinical implementation of these innovative therapeutic approaches. Reports presenting basic science, in vitro, in vivo and pre-clinical research may be included to ensure that regenerative medicine technology is able to be seamlessly transferred to the clinic.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 July 2025)



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