

Special Issue

Role of Mesenchymal Stem/Stromal Cells (MSCs) in Human Diseases and Their Treatment

Message from the Guest Editor

The main scope of the issue “Role of Mesenchymal Stem/Stromal Cells (MSCs) in Human Diseases and Their Treatment” is to highlight the current state of knowledge of molecular mechanisms by which MSCs act in health and disease, exhibit potent paracrine properties, regulate host immune responses and inflammation, interact with the environment, and orchestrate tissue repair at both the local and systemic levels. MSC immunomodulatory, anti-fibrotic, and regenerative properties are mainly regulated through cytokines, microvesicles, and growth factors. Their therapeutic properties could be potentiated by genetic modifications and preconditioning. However, understanding side effects and better strategies to overcome challenges regarding cell engraftment, cryopreservation, cell growth and viability, cell sources, and appropriate dosage are critical to improving MSC therapeutic efficacy. Ever-increasing knowledge of the above-mentioned strategies will optimize MSC use and allow for a personalized cell treatment approach. We welcome original research and up-to-date review papers.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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