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The Role of Mesenchymal Stem Cells and Adipose-Derived Mesenchymal Stem Cells in Obesity and Chronic Inflammatory Diseases

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Message from the Guest Editor

Mesenchymal stem cells, and adipose-derived mesenchymal stem cells (MSCs/ASCs) are adult stem cells with self-renewal and multipotency capacities. In addition, MSCs/ASCs display properties such as immunomodulation. These properties have led to numerous clinical trials aiming to repair tissues or organs, or to alleviate unwanted immune responses. However, in a pathological context, MSCs/ASCs may exhibit pro-inflammatory properties and lose their immunomodulatory capacities. The aim of this issue is to highlight the pathogenic role of MSCs/ASCs during obesity and/or other inflammatory diseases, in which obesity is known to major the risk of worsening, such as rheumatoid arthritis, multiple sclerosis, psoriasis, cancer, infections, or even other diseases.

The mechanisms leading to microenvironment-mediated changes in the MSC/ASC transcriptomic, cytokinic and/or functional profile will also be interesting to develop in this issue, as well as the putative drugs or nutriments able to restore MSC/ASC stemness and/or remedial functions.

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Guest Editor



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Special Issue



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