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Mesenchymal Stem Cells: Cross-Talk with the Microenvironment

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Message from the Guest Editors

Dear Colleagues,

Multipotent mesenchymal stromal cells (mMSC) are involved in building up the stroma of most organs. These cells are involved in bone marrow hematopoietic niche in health and disease. They are also one of the keys stromal components of solid tumor. mMSC mediate the fine balance between differentiation, proliferation, self-renewal and guiescence via intracellular regulatory networks and cell-to-cell interaction The interaction hetween mesenchymal stem cells and the surrounding cells works both ways: adjacent cells influence and are influenced by mMSC. In this Special Issue devoted to mMSC interaction with their neighborhood we will discuss recent breakthroughs in this topic and their impact on basic research and the concept of mMSC clinical application. We aim to depict recent data on our progress in understanding the mechanisms of mMSC bidirectional interaction with their microenvironment. The data will broaden our understanding of mMSC therapeutic potential and bring new ideas on possible clinical applications.

Dr. Natella Enukashvily Dr. Anna Malashicheva Guest Editors







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Message from the Editor-in-Chief

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