



Mesenchymal Stem Cells: Cross-Talk with the Microenvironment

Guest Editors:

Dr. Natella Eukashvily

Laboratory of the Non-Coding
DNA Study, Institute of Cytology
RAS, Saint Petersburg 194064,
Russia

Dr. Anna Malashicheva

Laboratory of Regenerative
Biomedicine, Institute of
Cytology, Saint Petersburg
194064, Russia

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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 quiescence via intracellular regulatory networks and cell-to-cell interaction. The interaction between 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 Eukashvily

Dr. Anna Malashicheva

Guest Editors





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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*International Journal of Molecular
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