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CULTIVATION OF MESENCHYMAL STEM CELLS IN SPHEROIDS AND THEIR THERAPEUTIC POTENTIAL

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Extensive researches on development of technologies of application of stem cells for treatment of various diseases are conducted all over the world. Usually transplanted cells are transferred into damaged tissue and lose viability in stressful conditions after cell transplantation. Numerous researches on increase in survival and plasticity of the transplanted cells by preliminary preparation are in progress. The present review is devoted to the one of preconditioning approach — cultivation of mesenchymal stem cells in spheroids.

Key words: mesenchymal stem cells, cell spheroids, cell therapy, 3D-cultivation