ISOLATION OF MULTIPOTENT MESENCHIMAL STROMAL CELLS FROM MINERAL HUMAN ENDOMETRIUM BIOPSY

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The aim of the research was establishing a cell culture from a minimal human endometrial biopsy and assessment its conformity with the criteria for multipotent mesenchymal stromal cells. It was shown that cells in the culture possess adhesion to plastic, have characteristic fibroblast-like morphology, express CD73+CD90+CD105+, and are negative for hematopoietic markers (CD34-CD45-HLA-DR-), have the ability to directed adipogenic, osteogenic and chondrogenic differentiation. Due to these properties, the cell population isolated from the minimal endometrial biopsy can be attributed to multipotent mesenchymal stromal cells.

Key words: human endometrium, multipotent mesenchymal stromal cells.
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