

Endogenous secretion of vascular endothelial growth factor by multipotent mesenchymal stromal cells derived from human third molar dental follicles

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Abstract

Human stem cells secretome is currently a very hot area of research. We report that multipotent mesenchymal stromal cells isolated from human third molar dental follicles (MMSC-TMDF), are able to secrete high levels of vascular endothelial growth factor (VEGF) when cultured in vitro. Due to the fact that VEGF is a well known angiogenic and neuroprotective factor, the use of MMSC-TMDF is promising for the development of stem cell therapy of various degenerative human diseases.

Keywords

Multipotent stem cells, Secretome, Third molar dental follicles, Vascular endothelial growth factor