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Human dental pulp stem cells: Applications in future regenerative medicine

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Abstract

Stem cells are plueripotent cells, having a property of differentiating into various types of cells of human body. Several studies have developed MSCs from various human tissues, peripheral blood and body fluids. These cells are then characterized by cellular and molecular markers to understand their specific phenotypes. DPSCs are having a MSCs phenotype and they are differentiated into neuron, cardiomyocytes, chondrocytes, osteoblasts, liver cells and β cells of islet of pancreas. Thus, DPSCs have shown great potentiality to use in regenerative medicine for treatment of various human diseases including dental related problems. These cells can also be developed into iPSCs by incorporation of pluripotency markers and use for regenerative therapies of various diseases. The DPSCs are derived from various dental tissues such as human exfoliated deciduous teeth, apical papilla, periodontal ligament and dental follicle tissue. This review will overview the information about isolation, cellular & molecular characterization and differentiation of DPSCs into various types of human cells and

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