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Basic Study

Neurotrophic effects of dental pulp stem cells in the repair of peripheral nerve after crush injury

Wang DR *et al.* Dental pulp stem cells in nerve repair

Dian-Ri Wang, Yu-Hao Wang, Jian Pan, Wei-Dong Tian

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Schwann **cells**; Trophic **effect**; Sciatic **nerve** INTRODUCTION **Peripheral nerve** injuries are often caused by trauma or surgical complications and result in considerable disabilities (25). Autologous **nerve** graft is the gold standard for **nerve repair**/regeneration. Requirement of a second surgery with sacrifice of a functional **nerve**, however, results ...

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The **peripheral nerve injuries**, representing some of the most common types of traumatic lesions affecting the nervous system, are highly invalidating for the patients besides being a huge social burden. Although peripheral nervous system owns a higher regenerative capacity than ...

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Jan 01, 2016 · The promoting **effects** of DPSCs on **nerve** regeneration such as replacement of lost **cells** by differentiating into mature oligodendrocytes, antiapoptotic **effect** on neurons, astrocytes and glial **cells**, and acceleration of migration and differentiation of neuronal progenitor **cells** have



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Cell based therapies might provide a suitable tool for **peripheral nerve** regeneration, in fact, the ability of different **stem cell** types to differentiate towards Schwann **cells** in combination with the use of different scaffolds have been widely investigated in animal models **of peripheral nerve** injuries in the last decade.

Dental pulp is a ...

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have recently isolated mobilized dental pulp stem cells (MDPSCs) using **granulocyte-colony stimulating factor (G-CSF) gradient**, which has high neurotrophic/angiogenic potential. The aim of this study is to investigate the effects of MDPSC transplantation on peripheral nerve regeneration.