



16897-Review

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Name of journal: World Journal of Stem Cells

ESPS Manuscript NO: 16897

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**Basic Study**

Evaluation of biodegradable electric conductive tube-guides and mesenchymal stem cells

Jorge Ribeiro, Tiago Pereira, Ana Rita Caseiro, Paulo Armada-da-Silva, Isabel Pires, Justina Prada, Irina Amorim, Sandra Amado, Miguel França, Carolina Gonçalves, Maria Ascensão Lopes, José Domingos Santos, Dina Morais Silva, Stefano Geuna, Ana Lúcia Luís, Ana Colette Maurício

**Abstract**

AIM: To study the therapeutic effect of three tube-guides with electrical conductivity associated to mesenchymal stem cells (MSCs) on neuro-muscular

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4 Cellular and Molecular Research Center, Tehran University of Medical .... **Conductive** polymers ... **tubes**, membranes, gauzes, sponges and nonwoven ... of conjunctiva **mesenchymal stem cells** (CJMSCs) in vi- ... porous nano-fibrous scaffolds by the **electro**-spinning ... ideal materials for **biodegradable** nerve **guides** and.

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