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**7** **Name of Journal:** *World Journal of Stem Cells*

**Manuscript NO:** 53790

**Manuscript Type:** Review

**Decellularized adipose matrix provides an inductive microenvironment for stem cells in tissue regeneration**

Yang JZ *et al.* DAM provides microenvironment for stem cells

Ji-Zhong Yang, Li-Hong Qiu, Shao-Heng Xiong, Juan-Li Dang, Xiang-Ke Rong, Meng-Meng Hou, Kai Wang, Zhou Yu, Cheng-Gang Yi

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#### Abstract

Stem cells play a key role in tissue regeneration due to their self-renewal and multidirectional differentiation, which are continuously regulated by signals from the extracellular matrix (ECM) microenvironment. Therefore, the unique biological and physical characteristics of the ECM are important determinants of stem cell

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Seeding experiments with human adipose-derived stem cells indicated that the decellularized adipose tissue (DAT) provided an inductive microenvironment for adipogenesis, supporting the expression of the master regulators PPARgamma and CEBPalpha, without the need for exogenous differentiation factors.

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Publish Year: 2010

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The decellularized matrix of adipose tissue holds promise as a scaffold for adipose tissue regeneration. A significant quantity of human ECM, including basement membrane components, can be isolated from this tissue source that is widely available and commonly discarded.

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Decellularization, which is a helpful way of deriving native ECM from adipose tissues, would allow the study of native ECM properties and would guide tissue engineering to design a biomimetic scaffold [14, 15]. ECM from both porcine [16] and human [17-20] adipose tissue have been used for tissue engineering.

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Author: Lina Wang, Joshua A. Johnson, Qixu Z...

Publish Year: 2013