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**Physiologically based microenvironment for *in vitro* neural differentiation of adipose-derived stem cells**

Graziano ACE *et al.* Physiological input for ASCs-derived neural cells

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JM Gimble, [AJ Katz](#), [BA Bunnell](#) - Circulation research, 2007 - Am Heart Assoc

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## Human adipose tissue is a source of multipotent stem cells

PA Zuk, M Zhu, P Ashjian, DA De Ugarte... - ... biology of the cell, 2002 - Am Soc Cell Biol

... Based on this, adipose tissue may represent a source of stem cells that could have far-reaching effects on several ... PLA samples were also induced in 1) NM for 9 h and maintained for 1 wk in a neural progenitor maintenance ... PLA Cells Undergo Adipogenic Differentiation In Vitro ...

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## Clonal analysis of the differentiation potential of human adipose-derived adult stem cells

F Guilak, KE Lott, HA Awad, Q Cao... - Journal of cellular ..., 2006 - Wiley Online Library

... differentiate into one or more lineages following numerous population doublings in vitro, and (2 ... 4C and D). Selected clones assessed as "positive" or "negative" based on morphology ... In the aging bone marrow microenvironment, adipogenesis occurs at the apparent expense of ...

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## Adipose tissue derived stem cells secretome: soluble factors and their roles in regenerative medicine

AJ Salgado, RL Reis, N Sousa... - Current stem cell ..., 2010 - ingentaconnect.com

... Further research carried out by different groups also revealed the in vitro differentiation of these cells into osteogenic [16,22,25], chondrogenic [26,27], myogenic [28], neuronal-like [16 ... to be a powerful tool in future approaches in developing cell/tissue based therapeutics for ...

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## Neuronal differentiation of adipose-derived stem cells and their ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4298895/> - 翻译此页

作者: G Tian - 2012 - 被引用次数: 4 - 相关文章

Keywords: adipose-derived stem cells, adipose stem cells, differentiation, adipose tissue, neural-like cells, transplantation, stroke, cerebral ischemia, cerebrovascular .... in vitro did not exhibit these behaviors, indicating that in vitro induction of ADSCs is essential for their survival in the microenvironment after transplantation.

## Concise Review: Stem Cell Microenvironment on a Chip: Current ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4622410/> - 翻译此页

作者: DY Park - 2015 - 被引用次数: 9 - 相关文章

2015年10月8日 - This microenvironment preserves stem cells from physiological stimuli and protects the host from overproliferation of stem cells. .... Park et al. also fabricated a 3D in vitro brain model from neuronal progenitor cells using a microfluidic chip and evaluated the effects of flow and amyloid  $\beta$ , the presence of ...

## Adipose-Derived Stem Cells for Tissue Engineering and Regenerative ...

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作者: R Dai - 2016 - 被引用次数: 53 - 相关文章

2016年2月21日 - Adipose-derived stem cells (ASCs) are a mesenchymal stem cell source with properties of self-renewal and multipotential differentiation. Compared ... scaffolds are better able to mimic the in vivo