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**Skeletal muscle generated from induced pluripotent stem cells - induction and application**

**Yuko Miyagoe-Suzuki, Shin'ichi Takeda**

### Abstract

Human induced pluripotent stem cells (hiPS cells or hiPSCs) can be derived from cells of patients with severe muscle disease. If skeletal muscle induced

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### Harnessing the potential of induced pluripotent stem cells for ... - NCBI

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The discovery of methods to convert somatic cells into **induced pluripotent stem** ... to iPSC-derived **skeletal muscle** to appropriately model this disease in vitro, ... of pluripotent stem-cell-derived cells in vitro before their therapeutic **application**. .... Treatment of sickle cell anemia mouse model with **iPS cells generated** from ...

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K Okita, M Nakagawa, H Hyenjong, T Ichisaka... - ..., 2008 - science.sciencemag.org

... We were unable to **generate** iPS **cells** by introducing the four factors with separate ...

Shown are

gutlike epithelial tissues (upper), epidermal tissues, **striated muscles**, and neural tissues (bottom). ...

free iPS **cells** are germline-competent and whether they can be **generated** from adult ...

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K Takahashi, K Tanabe, M Ohnuki, M Narita, T Ichisaka... - cell, 2007 - Elsevier

... results are proof of principle that **pluripotent stem cells** can be **generated** from somatic ... These

efforts have enabled us to **generate** iPS **cells** from adult human dermal ... various tissues (Figure

7), including gut-like epithelial tissues (endoderm), **striated muscle** (mesoderm), cartilage ...

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Induced pluripotent stem cells generated from patients with ALS can be differentiated into motor neurons

JT Dimos, KT Rodolfa, KK Niakan, LM Weisenthal... - ..., 2008 - science.sciencemag.org

... germ layers: endoderm [(B),  $\alpha$ -fetoprotein (AFP)], mesoderm [(C), desmin; (D),  $\alpha$ -smooth **muscle**

actin ( $\alpha$  ... 4. iPS **cells generated** from ALS patients can be differentiated into motor neurons. ... to a

**pluripotent** state (6). Previous reports using these four genes to **generate** human iPS ...

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[HTML] Generation of human **induced pluripotent stem cells** by direct delivery of reprogramming proteins

D Kim, CH Kim, JI Moon, YG Chung, MY Chang... - Cell **stem** ..., 2009 - ncbi.nlm.nih.gov

... germ layers including neural tissues (ectoderm), epidermal tissues (ectoderm), **striated muscle**

(mesoderm), adipose ... would be necessary if such methods are used to **generate** iPS **cells** ... Treatment

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作者: R Abujarour - 2015 - 被引用次数: 5 - 相关文章

2015年5月13日 - Human pluripotent stem cells (hPSCs) possess unlimited ... More recent advances have been made with the application of small ... hiPSCs are generated by the over-expression of a combination of ... In an early attempt to generate SMCs, hESCs were co-cultured with stromal cells (OP9) to induce their ...

## Generation of skeletal muscle cells from embryonic and induced ...

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