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Basic Study

Pro- vs anti-stenotic capacities of type-I vs type-II human induced pluripotent-derived endothelial cells

Miwako Nishio, Masako Nakahara, Koichi Saeki, Katsuhito Fujiu, Hiroshi Iwata, Ichiro Manabe, Akira Yuo, Kumiko Saeki

Abstract

AIM: To verify *in vivo* relevance of the categorization of human vascular endothelial cells (VECs) into type-I (pro-proliferative) and type-II

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25 Oct 2013 ... Acellular lung matrices were prepared from whole rat or human adult C2 clones were strongly positive for type II markers, including pro-SPC, ... No specific markers of thyroid, endothelial cells, or hepatocyte Therefore, in this study, we explored the capacity of iPSC-derived type II cells to repopulate the....

Stem Cells and Regenerative Medicine in Lung Biology and Diseases

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6 Mar 2012 ... In general, stem cells have a wide differentiation capacity. ... as Scgb1a1 or CC10), and the alveolar type II (AT2) cell marker, pro-surfactant protein C (pro-SP-C). ... These cells form colonies expressing airway and/or alveolar lineage suggestive of endothelial or epithelial differentiation into type I and II...

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ES and iPS cell–derived neural, endothelial, or hematopoietic progenitors can be isolated from differentiated ES or iPS cell cultures¹. Cancer stem cells can be....

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4 Feb 2014 ... Efficient differentiation protocols that would result in the cell type of our interest ... property of mouse ESCs due to their proliferative capacity and it is a ... or even terminally differentiated cells derived from pluripotent cells raises by seeding hESC-CMs together with human vascular endothelial cells and....

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2 Dec 2013 ... a scaffold material, a cell type for seeding the scaffold, and ... cess is guided by cell signals derived from both seeded cells and host ... tions employ synthetic vascular grafts, valves, or patches ... endothelial cells. IVC 5 inferior vena cava. iPS cells 5 induced ... structing TEVGs due to FDA approval for human.

Poster Presentations, Regenerative Medicine, Future Medicine

www.futuremedicine.com/doi/abs/10.2217/rme.13.pp

In this work we have studied effects of the stem cells derived from the human heme, acts as well



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Moreover, **type II** diabetes impaired the **capacity** of MSCs to promote ... One recent breakthrough was the use of **induced pluripotent stem cells** (iPSC), ... Mesenchymal stem cells have also been **derived** from **human embryonic stem cells** (ESCs) [36], **endothelial cells(B)** (For panels A,B: mean±SEM; n=6; *P<0.05 vs.

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Of all these **cell types**, bone marrow **derived cells** and skeletal myoblasts have been ... CMs are one of the first **cell types induced** from **pluripotent stem cells** in EBs, **cell types**



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