



20826-Review

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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

## Match Overview



1

**Internet** 12 words  
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Nishio, Miwako, Takeshi Yoneshiro, Masako Nakahara, Shinnosuke Suzuki, Koichi Saeki, Mamoru Hasegawa, Yuko Kawai,

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Danilov, S. "Monoclonal antibodies to angiotensin-converting enzyme: A powerful tool for lung and vessel studies", Journal

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### Human iPS cell-derived alveolar epithelium repopulates lung ...

[www.ncbi.nlm.nih.gov/pmc/articles/PMC3809786/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3809786/)

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

[www.ncbi.nlm.nih.gov/pmc/articles/PMC3369292/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3369292/)

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...

### Indirect CD133 MicroBead Kit, human - Miltenyi Biotec

[www.miltenyibiotec.com/en/products-and-services/macscell-separation/cell-separa](http://www.miltenyibiotec.com/en/products-and-services/macscell-separation/cell-separa)

ES and iPS cell-derived neural, endothelial, or hematopoietic progenitors can be isolated from differentiated ES or iPS cell cultures<sup>1</sup>. Cancer stem cells can be....

### Human Pluripotent Stem Cell-Derived Cardiomyocytes as Research ...

[www.hindawi.com/journals/bmri/2014/512831/](http://www.hindawi.com/journals/bmri/2014/512831/)

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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[onlinelibrary.wiley.com/doi/10.1002/ar.22838/pdf](http://onlinelibrary.wiley.com/doi/10.1002/ar.22838/pdf)

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](http://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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2015年9月24日 - New categorization of human vascular **endothelial cells** by **pro- vs ...**  
from human bone marrow-**derived** endothelial progenitors cells (EPC) or human ... well as  
oxidative stress induced "**type-II** VECs to **type-I**" conversion along with ... cells; **Human**  
**induced pluripotent** stem cells; Human embryonic stem cells; ...

### [Mesenchymal Stem Cells as a Treatment for Peripheral ...](#)

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作者: J Yan - 2013 - 被引用次数: 21 - 相关文章

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.**

缺少字词: stenotic

### [Pluripotent stem cells for cardiac regeneration: Overview of ...](#)

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作者: H Pawani - 2013 - 被引用次数: 5 - 相关文章

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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2015年9月24日 - New categorization of human vascular endothelial cells by pro- vs ... endothelial progenitors cells (EPC) or human pluripotent stem cells ... Repetitive subcultures as well as oxidative stress induced "type-II VECs to type-I" conversion along ..... We termed VECs with anti-proliferative capacities as "type-II", ...

### [Mesenchymal Stem Cells as a Treatment for Peripheral ...](#)

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作者: J Yan - 2013 - 被引用次数: 22 - 相关文章

Moreover, type II diabetes impaired the capacity of MSCs to promote ... Should human MSCs display similar oxidant stress-induced impairment of function, these ... pattern of cell surface markers, ex vivo differentiation capacity, and pro-angiogenic ... cell types as do MSCs derived from either bone marrow or adipose tissue.

缺少字词: stenotic

### [Human iPS cell-derived alveolar epithelium repopulates ...](#)

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作者: M Ghaedi - 2013 - 被引用次数: 50 - 相关文章

2013年10月25日 - The use of induced pluripotent stem cells (iPSCs) has been ... Acellular lung matrices were prepared from whole rat or human adult ..... Therefore, in this study, we explored the capacity of iPSC-derived type II cells to repopulate the ... the lung matrix expressed the type II cell marker, pro-SPC, and NKX2.1.

缺少字词: stenotic

### [Pluripotent stem cells for cardiac regeneration: Overview of ...](#)

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作者: H Pawani - 2013 - 被引用次数: 5 - 相关文章

Pluripotent human embryonic stem cells (hESCs) have emerged as an attractive ... Of all