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Predicting the differentiation potentials of human pluripotent stem cells: pos

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## Induced pluripotent stem cells: opportunities and challenges

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3130417>

Aug 12, 2011 · Abstract. **Somatic cells** have been reprogrammed into pluripotent stem cells by introducing a combination of several transcription factors, such as Oct3/4, Sox2, Klf4 and c-Myc.

**Induced pluripotent stem (iPS) cells** from a patient's **somatic cells** could be a useful source for drug discovery and **cell transplantation** therapies.

Cited by: 267

Author: Keisuke Okita, Shinya Yamanaka

Publish Year: 2011

## [PDF] Potential and Challenges of Induced Pluripotent Stem ...

<https://www.mdpi.com/2077-0383/3/3/997/pdf>

**Induced pluripotent stem cells** (iPSCs) technology brings together the potential benefits of **embryonic stem cells** (ESCs) (i.e., self-renewal, pluripotency) and addresses the major ethical and scientific concerns of ESCs : **embryo destruction** and **immune-incompatibility**. It has been shown that **hepatocyte-like cells** (HLCs) can be generated from iPSCs.

Cited by: 13

Author: Yue Yu, Xuehao Wang, Scott L. Nyberg

Publish Year: 2014

## Harnessing the potential of induced pluripotent stem cells ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3617981>

Beyond **genome integrity issues**, there is now increasing recognition among investigators that **human pluripotent stem cells** are extremely variable in their propensity for lineage-specific **differentiation** 102. In fact, some of the earlier differences, observed when ...

Cited by: 452

Author: Sean M. Wu, Konrad Hochedlinger

Publish Year: 2011

## Directed Differentiation of Human Pluripotent Stem Cells ...

<https://www.nature.com/articles/s41598-019-39504-8>

Differentiation of **human pluripotent stem cells** (hPSCs) into podocytes has the potential to produce podocytes for disease modeling, drug screening, and **cell** therapies.

Author: Tongcheng Qian, Shaenah E. Hernday... Publish Year: 2019

## Organoid-Induced Differentiation of Conventional T Cells ...

[https://www.cell.com/cell-stem-cell/fulltext/S1934-5909\(18\)30601-5](https://www.cell.com/cell-stem-cell/fulltext/S1934-5909(18)30601-5) ▼

The ability to generate **T cells** from **pluripotent stem cells** (PSCs) has the potential to transform autologous **T cell** immunotherapy by facilitating universal, off-the-shelf **cell** products. However,

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

**Manuscript NO:** 48901

**Manuscript Type:** EDITORIAL

**Predicting the differentiation potentials of human pluripotent stem cells:  
possibilities and challenges**

Li-Ping Liu, Yun-Wen Zheng

**Abstract**

The capability of human pluripotent stem cell (hPSC) lines to propagate indefinitely and differentiate into derivatives of three embryonic germ layers make these cells powerful tools for basic scientific research and promising agents for translational medicine. However, variations in differentiation tendency and efficiency as well as pluripotency maintenance necessitate the





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## Harnessing the potential of induced pluripotent stem cells ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3617981>

Beyond genome integrity issues, there is now increasing recognition among investigators that human pluripotent stem cells are extremely variable in their propensity for lineage-specific differentiation [102]. In fact, some of the earlier differences, observed when smaller numbers of hESCs and hiPSCs were compared, may be explained by this variability.

Cited by: 458

Author: Sean M. Wu, Konrad Hochedlinger

Publish Year: 2011

## [PDF] Potential and Challenges of Induced Pluripotent Stem ...

<https://www.mdpi.com/2077-0383/3/3/997/pdf>

Induced pluripotent stem cells (iPSCs) technology brings together the potential benefits of embryonic stem cells (ESCs) (i.e., self-renewal, pluripotency) and addresses the major ethical and scientific concerns of ESCs : embryo destruction and immune-incompatibility. It has been shown that hepatocyte-like cells (HLCs) can be generated from iPSCs.

Cited by: 13

Author: Yue Yu, Xuehao Wang, Scott L. Nyberg

Publish Year: 2014

## [PDF] protocol Directed differentiation of human pluripotent ...

[https://www.researchgate.net/profile/Yichen\\_Shi/publication/230849744\\_Directed...](https://www.researchgate.net/profile/Yichen_Shi/publication/230849744_Directed...)

a detailed protocol for directing the differentiation of human embryonic stem cells (hescs) and induced pluripotent stem cells (ipscs) to all classes of cortical projection neurons.

## Directed Differentiation of Human Pluripotent Stem Cells ...

<https://www.nature.com/articles/s41598-019-39504-8>

Feb 26, 2019 · Differentiation of human pluripotent stem cells (hPSCs) into podocytes has the potential to produce podocytes for disease modeling, drug screening, and cell therapies.

Author: Tongcheng Qian, Shaenah E. Hernd...

Publish Year: 2019

Author: Tongcheng Qian

## Differentiation of human induced pluripotent stem cells to ...

<https://www.nature.com/articles/srep09232>

Mar 18, 2015 · Human Purkinje cells naturally develop in a human cell environment and may prefer to mature on a human slice versus on a rodent one. Another possibility was the difference in slice ages.

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Author: Shuyan Wang, Bin Wang, Na Pan, Linlin ...

Publish Year: 2015

Author: Shuyan Wang

## WNT3 Is a Biomarker Capable of Predicting the ... - cell.com

[https://www.cell.com/stem-cell-reports/fulltext/S2213-6711\(13\)00004-0](https://www.cell.com/stem-cell-reports/fulltext/S2213-6711(13)00004-0)

Generation of functional cells from human pluripotent stem cells (PSCs) through in vitro differentiation is a promising approach for drug screening and cell therapy.

Cited by: 31

Author: Wei Jiang, Wei Jiang, Wei Jiang, Donghu...

Publish Year: 2013