

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

**Manuscript NO:** 55679

**Manuscript Type:** REVIEW

**Practical choice to robust and efficient differentiation of human pluripotent stem cells**

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### Abstract

Human pluripotent stem cells (hPSCs) have the distinct advantage of being able to differentiate to cells of all three germ layers. Target cells or tissues derived from hPSCs can be used in many aspects, such as drug screening, disease modeling and transplantation therapy. There are currently a wide variety of differentiation methods available. However,

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This corrects the article "**Efficient** and **robust differentiation** of endothelial **cells** from **human** induced **pluripotent stem cells** via lineage control with VEGF and cyclic AMP" in volume 12, e0173271. This article has been cited by other articles in PMC.

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Sep 23, 2014 · Production of de novo cardiomyocytes: **human pluripotent stem cell differentiation** and direct reprogramming. Cell **Stem Cell**. 2012; 10:16–28. [PMC free article] Burridge PW, et al. A universal





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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5755620>

Oct 05, 2017 · Huang SXL, Islam MN, O'Neill J, Hu Z, Yang YG, Chen YW, Mumau M, Green MD, Vunjak-Novakovic G, Bhattacharya J, Snoeck HW. **Efficient** generation of lung and airway epithelial **cells** from **human pluripotent stem cells**. Nat Biotechnol. 2014; 32:84–91. [PMC free article] [Google Scholar] Kalina M, Mason RJ, Shannon JM.

Cited by: 85

Author: Anjali Jacob, Anjali Jacob, Michael Morley...

Publish Year: 2017

## Efficient and robust differentiation of endothelial cells ...

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0173271>

Here we report an **efficient** and **robust** EC **differentiation** method from **human pluripotent stem** cell lines based on a 2D monolayer, serum-free culture. We controlled the direction of **differentiation** from mesoderm to ECs using stage-specific stimulation with VEGF and cAMP combined with the elimination of non-responder **cells** at early EC stage.