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### Differentiation of hepatocyte-like cells from human ...

<https://www.sciencedirect.com/science/article/pii/S0301468117301664>

Abstract. A variety of **approaches** have been developed for the **derivation** of **hepatocyte-like cells** from **pluripotent stem cells**. Currently, most of these strategies employ step-wise differentiation approaches with recombinant growth-factors or small-molecule analogs to **recapitulate** ...

Cited by: 1

Author: Faizal Z. Asumda, Konstantinos E. Hatzi...

Publish Year: 2018

### Production of hepatocyte like cells from human pluripotent ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > Europe PMC Author Manuscripts

Production of hepatocyte like **cells** from **human** pluripotent stem **cells**. ... hESCs / hIPSCs could enable the generation of a large quantity of **cells** for clinical **applications**, including hepatocytes 4. Experimental Design. ... et al. **Derivation** of pluripotent epiblast stem **cells** from ...

Cited by: 165

Author: Nicholas R F Hannan, Charis-Patricia Se...

Publish Year: 2013

### Laminin cell culture matrices - The key to efficient ...

<https://cellculturedish.com/laminin-cell-culture-matrices-the-key...> ▾

Ever since the **derivation** of the first line of **human** embryonic stem **cells**, researchers in areas of regenerative medicine, basic biomedical research, and drug discovery have all been striving towards more reliable and reproducible procedures to culture **human** pluripotent stem **cells** (hPSCs) and/or differentiated **cells**.

### Differentiation and Transplantation of Human Induced ...

<https://link.springer.com/article/10.1007/s12015-011-9330-y> ▾

Differentiation and Transplantation of **Human** Induced Pluripotent Stem Cell-derived Hepatocyte-like **Cells**. Authors; Authors and affiliations; Samira Asgari; ... the availability of these **cells** and relative ease of **derivation** of hepatocytes from these **cells** allows for the opportunity to test drugs on a range of genetic backgrounds. Moreover ...

Cited by: 75

Author: Samira Asgari, Samira Asgari, Mohsen M...

Publish Year: 2013

### Defined and Scalable Generation of Hepatocyte-like Cells ...

<https://www.jove.com/video/55355/defined-scalable-generation...> ▾

**Human pluripotent stem cells** (hPSCs) possess great value for biomedical research. hPSCs can be scaled and differentiated to all **cell** types found in the **human** body. The differentiation of hPSCs to **human hepatocyte-like cells** (HLCs) has been extensively studied, and efficient differentiation protocols

## Match Overview

1	<b>Crossref</b> 61 words Curtis R. Warren, Chad A. Cowan. "Humanity in a Dish: Population Genetics with iPSCs", Trends in Cell Biology, 2018	1%
2	<b>Internet</b> 43 words crawled on 05-Dec-2015 <a href="http://www.stemcell.com">www.stemcell.com</a>	1%

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

**Manuscript NO:** 46522

**Manuscript Type:** REVIEW

### **Derivation and applications of human hepatocyte-like cells**

Li S *et al.* Derivation and applications of hepatocyte-like cells

Shuang Li, Shi-Qian Huang, Yong-Xu Zhao, Yu-Jie Ding, Dan-Jun Ma, Qiu-Rong Ding

#### **Abstract**

Human hepatocyte-like cells (HLCs) derived from human pluripotent stem cells (hPSCs) promise a valuable source of cells with human genetic background, physiologically relevant liver functions, and unlimited supply. With over 10 years' efforts in this field, great achievements have been made. HLCs have been successfully



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**Abstract.** Maturation of induced pluripotent stem cells (hiPSCs) to hepatocyte-like cells (HLCs) has been proposed to address the shortage of human hepatocytes for therapeutic applications. The purpose of this study was to evaluate hiPSCs, HLCs and hepatocytes, all of human origin, in terms of performance metrics of relevance to cell therapies.

[Hepatocyte-like cells differentiated from human induced ...](#)

[www.ncbi.nlm.nih.gov/pmc/articles/PMC3619384/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3619384/)

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Maturation of induced **pluripotent stem cells (hiPSCs)** to **hepatocyte-like cells (HLCs)** has been proposed to address the shortage of **human hepatocytes** for **therapeutic applications**. The purpose of this study was to evaluate **hiPSCs, HLCs and hepatocytes**, all of **human origin**, in terms of performance metrics of relevance to **cell** therapies. **hiPSCs** were differentiated to HLCs in vitro using ...

**Cited by:** 90

**Author:** Yue Yu, Yue Yu, Hongling Liu, Yasuhiro ...

**Publish Year:** 2012

[Expansion and differentiation of human hepatocyte-derived ...](#)

<https://www.nature.com/articles/s41422-018-0103-x>

Oct 25, 2018 · Conversion of **human** primary hepatocytes to liver progenitor-like **cells**. We have previously identified a transition and expansion medium (TEM) that ...

**Cited by:** 1

**Author:** Gong-Bo Fu, Wei-Jian Huang, Min Zeng...

**Publish Year:** 2019

**Author:** Gong-Bo Fu

[Pluripotent Stem Cell-Derived Hepatocyte-Like Cells](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4043206>

**Human embryonic stem (hES)** cell- and **induced pluripotent stem (iPS)** cell-derived hepatocyte-like cells may enable cell-based therapeutics, the study of the mechanisms of human disease and human