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Induction of differentiation of human stem cells ex vivo: toward large-scale platelet



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Ex Vivo Large-Scale Generation of Human Platelets from ...

<https://stemcells.journals.onlinelibrary.wiley.com/doi/abs/10.1634/stemcells.2006-0309>

STEM CELLS is read and written by clinical and basic scientists whose expertise encompasses the rapidly expanding fields of **stem** and **progenitor cell** biology. STEM CELLS welcomes original articles and concise reviews describing basic **laboratory** investigations of **stem cells** and the translation of their clinical aspects of characterization and manipulation from the bench to patient care.

Cited by: 142

Author: Takuya Matsunaga, Ikuta Tanaka, Masay...

Publish Year: 2006

In Vitro Megakaryocyte Production and Platelet Biogenesis ...

www.ncbi.nlm.nih.gov › Journal List › HHS Author Manuscripts

Some investigators are developing in **vitro** strategies to expand MK progenitors for co-infusion with unmanipulated **hematopoietic stem cells** for the purpose of shortening periods of **thrombocytopenia** following **stem cell transplants**.¹⁴ The hypothesis is that terminal **differentiation** and thrombocytopoiesis will occur in **vivo**, resulting in bridging the gap until **hematopoietic stem cells** ...

Cited by: 102

Author: Jo Anna Reems, Nicolas Pineault, Sijie Sun

Publish Year: 2010

Induction of Intervertebral Disc-Like Cells From Adult ...

<https://stemcells.journals.onlinelibrary.wiley.com/doi/full/10.1634/stemcells.2005-0309>

The potential of adult mesenchymal stem cells (MSCs) to differentiate towards cartilage, bone, adipose tissue, or muscle is well established. However, the capacity of MSCs to differentiate towards intervertebral disc (IVD)-like cells is unknown.

Cited by: 330

Author: Eric Steck, Helge Bertram, Rainer Abel, ...

Publish Year: 2005

(PDF) Megakaryocyte and Platelet Production from Human ...

[https://www.researchgate.net/publication/51843280_Megakaryocyte...](https://www.researchgate.net/publication/51843280_Megakaryocyte_and_Platelet_Production_from_Human_Cord_Blood_Stem_Cells)

Megakaryocyte and Platelet Production from Human Cord Blood Stem Cells. ... for the **large-scale production** of MKs and platelets **ex vivo** (36 ... 237 16 Ex Vivo Megakaryocyte and Platelet Production.

Megakaryocytes and platelets from a novel human adipose ...

www.bloodjournal.org/content/133/7/633 ▾

To obtain an ASCL as a donor-independent **cell** source for the **large-scale production** of platelets, ... in mouse blood after the infusion of ASCL-PLTs or **platelet** concentrates. (C) **Ex vivo** thrombus formation under flow conditions, observed under a fluorescence microscope. ... **Human mesenchymal stem cells**: from basic biology to clinical applications

<https://stemcells.journals.onlinelibrary.wiley.com/doi/abs/10.1634/stemcells.2006-0309>

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 46496

Manuscript Type: REVIEW

Induction of differentiation of human stem cells *ex vivo*: Toward large-scale platelet production

Lei XH *et al* Toward large-scale platelet production

Xiao-Hua Lei, Yi-Qing Yang, En-Kui Duan

Abstract

Platelet transfusion is one of the most reliable strategies to cure patients suffering from thrombocytopenia or platelet dysfunction. With the increasing

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Large-scale production and directed induction of ...

<https://www.sciencedirect.com/science/article/pii/S1465324919307492>

May 17, 2019 · Hence, **large-scale production** and **direct induction** of **functional DCs ex vivo** from HSCs are crucial to HSC research and clinical potential, such as vaccines for cancer and immune therapy. Methods In a previous study, we developed a **serum-free HSC expansion system** (SF-HSC medium) to expand **large** numbers of primitive **HSCs ex vivo** .

Stem cells, megakaryocytes, and platelets

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4323081>

Platelets differentiated from **pluripotent stem cells** have the potential to become a well tolerated and **efficacious cellular therapy** that combats the worldwide shortage in **platelet donation**. **Induced pluripotent stem cells** can be used to model platelet-associated disease and provide proof-of-principle studies that transgenic replacement can **lead** to amelioration of disease phenotypes.

Cited by: 8

Author: Brenden W. Smith, George J. Murphy

Publish Year: 2014

Human Embryonic Stem Cells as an In Vitro Model for ...

<https://www.nature.com/articles/3780772>

Dec 01, 2003 · **Human Embryonic Stem Cells** as an In Vitro Model for **Human Vascular Development** and the **Induction** of Vascular **Differentiation** Skip to main content Thank you for visiting nature.com.

Cited by: 179

Author: Sharon Gerecht-Nir, Anna Ziskind, Sma...

Publish Year: 2003

Author: Sharon Gerecht-Nir

Ex Vivo Megakaryocyte Expansion and Platelet Production ...

https://www.researchgate.net/publication/23670238_Ex_Vivo_Megakaryocyte_Expansion_and...

Our study on the utilization of microRNAs in conjunction with a highly efficient **differentiation protocol** constitutes another step **towards ex vivo platelet manufacturing** on a clinically relevant ...

Enabling Large-Scale Ex Vivo Production of Megakaryocytes ...

<https://stemcells.journals.onlinelibrary.wiley.com/doi/full/10.1002/sctm.18-0160>

We screened various **cell-surface densities** and found that a **seeding density** of 40×10^3 cells per cm^2 plus culturing the cells in G-Rex for the first 5 days, along with media dilutions, more than doubled Mk production per input CD34⁺ cell compared with using a standard tissue culture surface