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Clonal isolation of endothelial colony forming cells from early gestation chr



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Endothelial Colony Forming Cells and Mesenchymal ... [翻译此页](#)

Cited by: 112 Author: M Jawad Javed, Laura E Mead, Daniel Pr...

Publish Year: 2008

2007-12-13 · Endothelial progenitor cells (EPCs) are used for angiogenic therapies and as biomarkers of cardiovascular disease. Human umbilical cord blood (UCB) is a rich source of endothelial colony forming ...

<https://www.nature.com/articles/doi:10.1203/PDR.0b013e31817445e9>

Isolation and characterization of mesenchymal ... [翻译此页](#)

Cited by: 405 Author: K. Igura, X. Zhang, K. Takahashi, A. Mitsu...

Publish Year: 2004

Isolation and characterization of mesenchymal progenitor cells from chorionic villi of human placenta ... The existence of mesenchymal cells in chorionic villi of human placenta has been investigated [33 ... We could not obtain enough cells for analysis of differentiation ability. We then carried out a colony-forming units of fibroblasts (CFU-f ...

<https://www.sciencedirect.com/science/article/pii/S1465324904707677>

Avoidance of Maternal Cell Contamination and ... [翻译此页](#)

Cited by: 4 Author: Varda S. Sardesai, Abbas Shafiee, Nichol...

Publish Year: 2017 位置: 8600 Rockville Pike, Bethesda, MD

The CD34+CD31+CD45- population comprised the placental endothelial colony forming cells (PL-EPC). Thus, the isolation of placental EPC in EGM2 + 10 21 led serendipitously to the method previously reported by our group for isolating fetal and maternal MSC from human term placental villi 22. This CD34+ method was being carried out ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5442838>

Fetal Endothelial and Mesenchymal Progenitors From ... [翻译此页](#)

Cited by: 10 Author: Abbas Shafiee, Abbas Shafiee, Nicholas ...

Publish Year: 2015 位置: 8600 Rockville Pike, Bethesda, MD

2016-10-3 · Fetal Endothelial and Mesenchymal Progenitors From the Human Term Placenta: Potency and Clinical Potential ... without the need for detailed dissection of the chorionic villi. ... Lin R-Z, Moreno-Luna R, Li D, et al. Human endothelial colony-forming cells serve as trophic mediators for mesenchymal stem cell engraftment via paracrine signaling ...



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

Manuscript NO: 50082

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Clonal isolation of endothelial colony forming cells from early gestation chorionic villi of human placenta for fetal tissue regeneration

Gao KW *et al.* Isolation of placental endothelial colony-forming cells

Ke-Wa Gao, Si-Qi He, Priyadarsini Kumar, Diana Farmer, Jian-Da Zhou, Ai-Jun Wang

Abstract

BACKGROUND

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Endothelial Colony Forming Cells and Mesenchymal Stem ...

<https://www.nature.com/articles/doi:10.1203/PDR.0b013e31817445e9>

Jul 01, 2008 · Endothelial Colony Forming Cells and Mesenchymal Stem Cells are Enriched at Different Gestational Ages in Human Umbilical Cord Blood ... potential for **tissue regeneration**, including repair of bone ...

Cited by: 112

Author: M Jawad Javed, Laura E Mead, Daniel Pr...

Publish Year: 2008

Resident Endothelial Progenitor Cells From Human Placenta ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4776045>

More recently, Ingram and colleagues **isolated** and characterized a population of late outgrowth **endothelial cells**, termed **endothelial colony forming cells (ECFCs)**, from human adult peripheral and umbilical cord blood using **clonal plating** techniques . ECFCs are organized in a hierarchy of progenitor stages that vary in proliferative potential and express **endothelial surface antigens** CD144 (VE-cadherin) CD31 (**platelet endothelial cell adhesion molecule...**

Cited by: 14

Author: Brian M. Rapp, M. Reza Saadatzedeh, Ri...

Publish Year: 2011

Fetal Endothelial and Mesenchymal Progenitors From the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4414221>

Human Term Placenta as a Source of Fetal EPCs and MSCs. A major hindrance in the expansion of **fetal stem cells** to obtain relevant quantities for mainstream clinical applications is ethical constraints regarding their sourcing in utero, which typically involve invasive procedures, such as **chorionic villous sampling...**

Cited by: 10

Author: Abbas Shafiee, Abbas Shafiee, Nicholas ...

Publish Year: 2015

Avoidance of Maternal Cell Contamination and Overgrowth ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5442838>

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Cited by: 5

Author: Varda S. Sardesai, Abbas Shafiee, Nichol...