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miR-301a promotes embryonic stem cell differentiation to cardiomyocytes



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Author: Ivan Batalov, Adam W. Feinberg

Publish Year: 2015

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Embryonic stem cells (ESCs) are capable to differentiate into **cardiomyocytes**, with the potential to treat **cardiovascular diseases**. However, **directed differentiation** is still a challenge faced by scientists. As a natural substance in grapes, resveratrol (RV) is important for **cardiovascular protection**.

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Author: Hong Ding, Xin Xu, Xian Qin, Chengjian Y...

Publish Year: 2016

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Oct 09, 2015 · **Directed Differentiation of Embryonic Stem Cells Into Cardiomyocytes by Bacterial Injection of Defined Transcription Factors** Skip to main content Thank you for visiting nature.com.

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Author: Fang Bai, Chae Ho Lim, Jingyue Jia, Kat...

Publish Year: 2015

Author: Fang Bai

Differentiation of Pluripotent Embryonic Stem Cells Into ...

<https://www.ahajournals.org/doi/full/10.1161/01.res.0000027865.61704.32>

Stem cells from the embryo are derived from the inner **cell** mass (ICM), **embryonic** ectoderm, and primordial germ **cells** of the fetal genital ridge and represent pluripotent undifferentiated **cells** capable of proliferation, self-renewal, and the generation of large numbers of differentiated **cell** progeny; however, **embryonic stem** (ES) **cells** do not ...

Cited by: 933

Author: Kenneth R. Boheler, Jaroslaw Czyz, Davi...

Publish Year: 2002

miR-301a promotes embryonic stem cell differentiation to cardiomyocytes

Li-Xiao Zhen, Yu-Ying Gu, Qian Zhao, Hui-Fang Zhu, Jin-Hui Lü, Shu-Jun Li,

Zhen Xu, Li Li, Zuo-Ren Yu

Abstract

BACKGROUND

Cardiovascular disease is the leading cause of death worldwide. Tissue repair after pathological injury in the heart remains a major challenge due to the limited regenerative ability of cardiomyocytes in adults. Stem cell-derived cardiomyocytes provide a promising source for the cell transplantation-based treatment of injured hearts.

AIM

To explore the function and mechanisms of miR-301a in regulating cardiomyocyte differentiation of mouse embryonic stem (mES) cells, and provide experimental evidence for applying miR-301a to the cardiomyocyte differentiation induction from stem cells.

METHODS

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Author: Ivan Batalov, Adam W. Feinberg

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Differentiation of cardiomyocytes and generation of human ...

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May 11, 2017 · Mummery, C. et al. Differentiation of human **embryonic stem cells** to **cardiomyocytes**: role of coculture with visceral endoderm-like **cells**. *Circulation* 107 , 2733–2740 (2003). CAS

Cited by: 52

Author: Kaja Breckwoldt, David Letuffe-Brenière, I...

Publish Year: 2017

Author: Kaja Breckwoldt

Differentiation of Human ES and iPS Cells to ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3578601>

Jul 20, 2012 · The successful isolation of human **embryonic stem cells** (hESCs) and, more recently, the generation of induced pluripotent **stem cells** (hiPSCs) has ushered in a new era of opportunities for cardiovascular research and therapies. 1–4 These human pluripotent **stem cells** (hPSCs) can undergo **differentiation** in vitro to generate derivatives of the three primary germ layers and hence potentially ...

Cited by: 9

Author: Christine L. Mummery, Jianhua Zhang, Eli...

Publish Year: 2012

[PDF] Laminin promotes differentiation of rat embryonic stem ...

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/jcmm.14264>

Laminin promotes differentiation of rat embryonic stem cells into cardiomyocytes by activating the integrin/FAK/PI3K p85 pathway ... found to promote rEB differentiation and interact with integrin to ... rEB formation and differentiation Rat embryonic stem cells were trypsinized into single cells ...

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Resveratrol promotes differentiation of mouse embryonic ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/1755-5922.12200>

May 26, 2016 · 1 Introduction. **Embryonic stem cells** (ESCs) are remarkable **cells**, which can self-renew in vitro and in vivo, and differentiate into any types of **cells**, leading the **embryonic** development to eventually form the fetus. 1 Human hearts are nonregenerative, causing cardiovascular diseases as the leading cause of death. One big challenge of treating cardiovascular diseases is the lack of available ...

Cited by: 9

Author: Hong Ding, Xin Xu, Xian Qin, Chengjian Y...

Publish Year: 2016

Differentiation of cardiomyocytes and generation of human ...

<https://www.nature.com/articles/nprot.2017.033>

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Author: Kaja Breckwoldt, David Letuffe-Brenière, I...

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Laminin promotes differentiation of rat **embryonic stem cells** into **cardiomyocytes** by activating the integrin/FAK/PI3K p85 pathway Duo Wang Key Laboratory of Arrhythmias, Ministry of Education, Shanghai East Hospital, Tongji University School of Medicine, Shanghai, China

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