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2016年3月31日 - Maturation of pluripotent stem cell derived cardiomyocytes: The new challenge ... Schematic of current knowledge of stepwise differentiation of hPSCs into ... Three different methods used for cardiac differentiation of hPSCs. D2SV was shown to induce the cell cycle exit of embryonic CMs by forming ...

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作者 : H Vuorenmaa - 2017 - 被引用次数 : 2 - 相关文章

2017年4月10日 - Currently, human pluripotent stem cell-derived cardiomyocytes cells (HUVEC) and induced pluripotent stem cells (iPSC) were approved by Ethics Both differentiation methods formed beating cardiomyocyte aggregates.

Introduction · Materials and methods · Results · Discussion

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 43272

Manuscript Type: REVIEW

Current methods for the maturation of induced pluripotent stem cell-derived cardiomyocytes

Pranav Machiraju, Steven C Greenway

Abstract

Induced pluripotent stem cells (iPSCs) were first generated by Yamanaka and colleagues over a decade ago. Since then, iPSCs have been successfully differentiated into many distinct cell types, enabling tissue-, disease-, and patient-specific *in vitro*

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2017年1月5日 - Human pluripotent stem cell-derived cardiomyocytes (hPSC-CMs) are promising ...

Several methods to enhance maturation of hPSC-CMs in vitro have been ... At present, however, none of these stimuli is sufficient to induce ...