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Orchestrating stem cell fate: novel tools for regenerative medicine



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<https://link.springer.com/content/pdf/10.1007/s40778-017-0081-9.pdf>

1). Mechanobiology in **Regenerative Medicine** In the body, **cells** encounter a dynamic environment. To respond to chemical and/or physical stimuli, **cells** reorganize their cytoskeleton and alter their function. The current paradigm states that **cells** have the ability to constantly probe their environment.

Cited by: 1

Author: Alvaro Mata, Helena S. Azevedo, Lorenzo...

Publish Year: 2017

(PDF) New Tools in Regenerative Medicine: Gene Therapy

https://www.researchgate.net/publication/223136850_New_Tools_in...

Natural **stem cells** (from embryonic, **hematopoietic**, mesenchymal, or adult tissues) or induced **progenitor stem** (iPS) **cells** can be modified by **gene therapy** for use in **regenerative medicine**.

Regenerating the field of cardiovascular cell therapy ...

www.nature.com › [nature biotechnology](#)

1 day ago · Departments of Pathology, Bioengineering and **Medicine**/Cardiology, Institute for **Stem Cell** and **Regenerative Medicine**, Center for Cardiovascular Biology, University of ...

Stem cells as tools in regenerative therapy for retinal ...

www.ncbi.nlm.nih.gov › [Journal List](#) › [HHS Author Manuscripts](#)

Objectives. **Regenerative medicine** intends to provide **therapies** for severe injuries or chronic diseases where endogenous repair does not sufficiently restore the tissue. Pluripotent **stem cells** (SC), with their capacity to give rise to specialized **cells**, are the most promising candidates for clinical application.

Cited by: 73

Author: Volker Enzmann, Esma Yolcu, Henry J. K...

Publish Year: 2009

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 46673

Manuscript Type: REVIEW

Orchestrating stem cell fate: Novel tools for regenerative medicine

Sara Cruciani, Sara Santaniello, Andrea Montella, Carlo Ventura, Margherita Maioli

Abstract

Mesenchymal stem cells are undifferentiated cells able to acquire different phenotypes under specific stimuli. *In vitro* manipulation of these cells is focused on understanding stem cell behavior, proliferation and pluripotency. Latest advances in the field of stem cells con-

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<https://blog.cirm.ca.gov/2017/10/20/stem-cell-tools-helping-scientists-understand...> ▼

Oct 20, 2017 - **Stem Cell Tools:** Helping Scientists Understand Complex Diseases October 20, 2017 / Karen Ring Yesterday , we discussed a useful **stem cell tool** called the CIRM iPSC Repository, which will contain over 3000 human induced pluripotent **stem cell** (iPSC) lines – from patients and healthy individuals – that contain a wealth of information about ...

Institute for Stem Cell & Regenerative Medicine - iscrm.uw.edu

<https://iscrm.uw.edu/faculty/david-l-mack> ▼

During his postdoctoral fellowship at the National Cancer Institute, he studied how the **stem cell** microenvironment controls **cell fate** during mammary gland development. His recent contributions to the field of **regenerative medicine** center on the interplay between a **cell's** genetic program and its microenvironment during lineage commitment.

Stem Cell Therapy and Regenerative Medicine

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2755803>

Stem cells may be considered one of the available **tools** in the evolving area of **regenerative medicine**. The goal of **regenerative medicine** is to promote organ repair and regeneration, thus obviating the need for replacement. **Stem cell** therapy may participate in this process via paracrine mechanisms or differentiation into native tissues.

Cited by: 14

Author: Timothy O'Brien, Frank P. Barry

Publish Year: 2009

[PDF] Chemical Modulation of Cell Fate in Stem Cell ...

[https://www.cell.com/cell-chemical-biology/pdf/S2451-9456\(16\)30216-1.pdf](https://www.cell.com/cell-chemical-biology/pdf/S2451-9456(16)30216-1.pdf)

Cell Chemical Biology Review Chemical Modulation of **Cell Fate** in **Stem Cell** Therapeutics and **Regenerative Medicine** Kai Liu, 1,2,3,4 Chen Yu, Min Xie, 1,2,3,4 Ke Li, and Sheng Ding 5 * 1Gladstone Institute of Cardiovascular Disease, San Francisco, CA 94158, USA 2Roddenberry Center for **Stem Cell** Biology and **Medicine**, Gladstone Institutes, San Francisco, CA 94158, USA

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