



Dysfunctional Stem and Progenitor Cells Impair Fracture Healing with Age



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... dysfunction induces environmental alterations limiting ... - Ju - 被引用次数 : 240

Age-related inflammation triggers skeletal stem/progenitor cell ... - PNAS

<https://www.pnas.org/content/early/2019/03/19/1810692116> - 翻译此页

3 天前 - As we age, our capacity for tissue repair and regeneration in response to injury declines.

Accordingly, bone repair is delayed and impaired in older patients. At the cornerstone of bone healing is the skeletal stem/progenitor cell (SSPC), whose function and number diminishes with age.

Aging, inflammation, stem cells, and bone healing - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4804630/> - 翻译此页

作者 : E Gibon - 2016 - 被引用次数 : 58 - 相关文章

2016年3月22日 - Aging, inflammation, stem cells, and bone healing ... axis was interfered with, inflammation and bone healing were impaired. ... axis is critical for the homing of progenitor cells that participate in fracture healing. Dysregulated expression of miR-146a contributes to age-related dysfunction of macrophages.

The Convergence of Fracture Repair and Stem Cells: Interplay of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4455538/> - 翻译此页

作者 : M Hadjiargyrou - 2014 - 被引用次数 : 49 - 相关文章

(C) Signals initiated by the injury activate stem cell progenitors located mice), which have reduced β -catenin signaling, have impaired fracture healing. Restoring systemic GDF11 levels reverses age-related dysfunction in mouse ...

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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 47678

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Dysfunctional stem and progenitor cells impair fracture healing with age

Wagner DR *et al.* Impaired fracture healing in aging

Diane R Wagner, Sonali Karnik, Zachary J Gunderson, Jeffery J Nielsen, Alanna Fennimore, Hunter J Promer, Jonathon W Lowery, M Terry Loghmani, Philip S Low, Todd O McKinley, Melissa A Kacena, Matthias Clauss, Jiliang Li

Abstract

Successful fracture healing requires the simultaneous regeneration of both the bone and



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Dysfunctional stem and progenitor cells impair fracture healing with age



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Aging, inflammation, stem cells, and bone healing

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4804630>

Complex interactions among **cells** of the monocyte-macrophage-osteoclast lineage and the **mesenchymal stem cell-osteoblast** lineage play a major role in the **pathophysiology of bone healing**. Whereas the former lineage directs inflammatory events and bone resorption, the latter represents a source of **cells** for **bone regeneration** and **immune** modulation.

Cited by: 69

Author: Emmanuel Gibon, Emmanuel Gibon, L...

Publish Year: 2016

Age-related declines in α -Klotho drive progenitor cell ...

<https://www.nature.com/articles/s41467-018-07253-3>

Nov 19, 2018 · In this study, we tested the hypothesis that **age**-related declines in α -Klotho drive **dysfunctional** muscle **progenitor cell** (MPC) mitochondrial bioenergetics, ultimately resulting in an **impaired** ...

Cited by: 2

Author: A. Sahu, H. Mamiya, S. N. Shinde, A. Ch...

Publish Year: 2018

Author: A. Sahu

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Pharmacological rescue of diabetic skeletal stem cell ...

<https://stm.sciencemag.org/content/9/372/eaag2809.full> ▾

Jan 11, 2017 · Among a myriad of difficulties, people with diabetes have problems with their bones; after a break, their bones do not heal well. Tevlin et al . use mice to investigate the cause and to devise a solution. In several models of diabetes, skeletal **stem cells**, which normally multiply to repair a bone injury, failed to do so. The high blood concentrations of TNF α in these diabetic mice inhibited a ...

Cited by: 15

Author: Ruth Tevlin, Eun Young Seo, Owen Mar...

Publish Year: 2017

Effects of Aging on Fracture Healing | Request PDF

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Important cells of the **inflammatory response**, **macrophages**, **T cells**, **mesenchymal stem cells**, have demonstrated **intrinsic age-related** changes that could **impact fracture healing**.