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## Vascularization Strategies for Tissue Engineering

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2817665>

Jul 07, 2009 · Cell sheet engineering techniques have been used in corneal surface reconstruction, blood vessel grafts, and myocardial tissue engineering, among others. 58,108,109 To form vascularized myocardium, confluent sheets of neonatal rat cardiomyocytes were grown and stacked to form tissues up to ~80 µm in thickness, the limit for this particular cell and tissue type. 110 To overcome this limitation, the layered cell sheets ...

Cited by: 658

Author: Michael Lovett, Kyongbum Lee, Aurelie E...

Publish Year: 2009

## Revisiting Whole Body Induced Cell Turnover as a ...

<https://www.fightaging.org/archives/2017/06/revisiting-whole-body-induced-cell...> ▾

In essence the goal is to augment the normal processes of cell turnover with therapies that remove and replace more cells than would normally be the case, thus clearing out the damage in those cells along the way. Since aging is caused by cell and tissue damage, in the ideal case this approach should act as a form of rejuvenation therapy. Obviously there are some limits here, such as areas of the brain where cells ...

## Tissue Engineering Part A | Vol 11, No 5-6 - liebertpub.com

<https://www.liebertpub.com/toc/ten/11/5-6>

Effect of Transforming Growth Factor  $\beta$  2 on Marrow-Infused Foam Poly(Propylene Fumarate) Tissue-Engineered Constructs for the Repair of Critical-Size Cranial Defects in Rabbits David Dean , Michael S. Wolfe ,

## Bioactive Glass Stimulates the Secretion of Angiogenic ...

<https://www.liebertpub.com/doi/10.1089/ten.2005.11.768>

Jul 05, 2005 · Neovascularization of tissue-engineered constructs remains a limiting factor for the engineering of larger tissue constructs. Attempts to stimulate neovascularization, using recombinant protein or gene transfer of angiogenic growth factors, have been proposed; however, these approaches have been associated with problems regarding the delivery and duration of exposure of the growth factor.

Cited by: 348

Author: Richard M. Day

Publish Year: 2005

## Tissue Engineering - an overview | ScienceDirect Topics

<https://www.sciencedirect.com/topics/engineering/tissue-engineering>

## Match Overview

1 Internet 44 words  
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[en.wikipedia.org](http://en.wikipedia.org)

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

**Manuscript NO:** 46612

**Manuscript Type:** REVIEW

**Aging:** A cell source limiting factor in tissue engineering

Mohammadhossein Khorraminejad-Shirazi, Mohammadreza Dorvash, Alireza Estedlal,  
Amir Human Hoveidaei, Mohsen Mazloomrezaei, Pouria Mosaddeghi

### Abstract

Tissue engineering is yet to reach its ideal goal, i.e., creating profitable off-the-shelf tissues and organs; designing scaffolds and three-dimensional tissue architectures that can maintain the blood supply, proper biomaterial selection, and identifying the most efficient cell source for use in cell therapy and tissue engineering are still the major





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Cell source as a major challenge in tissue engineering: aging as a limiting factor



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## Challenges in tissue engineering - PubMed Central (PMC)

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) › ... › J R Soc Interface › v.3(10); 2006 Oct 22

Oct 22, 2006 · This article gives the brief overview on the current **tissue engineering**, covering the fundamentals and applications. The fundamentals of **tissue engineering** involve the **cell sources**, scaffolds for **cell** expansion and differentiation and carriers for growth factors. Animal and human trials are the **major** part of the applications.

Cited by: 581

Author: Yoshito Ikada

Publish Year: 2006

## (PDF) Periodontal regeneration: A challenge for the tissue ...

[https://www.researchgate.net/publication/49804517\\_Periodontal...](https://www.researchgate.net/publication/49804517_Periodontal...)

Periodontal regeneration: A challenge for the **tissue** engineer? ... Keywords: periodontal, regeneration, **tissue engineering**, stem **cells**, growth **factor** s. ... an important goal and **major challenge** ...

## (PDF) New trends in biotextiles - The challenge of tissue ...

[https://www.researchgate.net/publication/241719368\\_New\\_trends\\_in...](https://www.researchgate.net/publication/241719368_New_trends_in...)

**Tissue engineering** is designed to regenerate natural **tissues** or to create biological **substitutes** for defective or lost **tissues** and organs through the use of **cells**.

## Biological causes of aging and lifespan limitation - Work ...

[www.longlonglife.org](http://www.longlonglife.org) › Home › Transhumanism, Longevity › **Aging** ▼

Second, there is the **aging** of each **cell**, known as **cell senescence**. **Cell senescence** is a **crucial** mechanism for development but becomes deleterious when it **affects** stem and immune **cells** function, **challenging** **tissue** homeostasis. **Aging** is thus characterized by a changing phenotype at **tissue** ...

## Bone regeneration and stem cells - PubMed Central (PMC)