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14. Tissue

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3D printing tissue and

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organs (Tissue  
engineering - 2019)

Scientists Use 3D  
Printer and Living

"Ink" to Create Body  
Parts Bioprinting

A Brief Introduction to  
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*CS/C) Restoring the*

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'Living Scaffolds' (D.

Kacy Cullen, PhD)

Nina Tandon:

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Growing bone from  
your own cells Tissue

Engineering—

Building Body Parts

Regenerative

Medicine and Tissue  
Engineering in

Urology: A Brief

Overview *A Micro-Ark*

*for Cells: Injectable*

*Scaffolds for Tissue*

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Designing scaffolds

for bone tissue

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engineering-A New*

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culture - Best HD*

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~~Scaffolds For Tissue  
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~~Biomaterials &~~

~~scaffolds for tissue~~

~~engineering Scaffold~~

~~requirements.~~

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Numerous scaffolds produced from a variety of biomaterials and manufactured using a plethora of...

Biomaterials. In the first Consensus Conference of the European Society for Biomaterials (ESB) in 1976, a biomaterial...  
Case ...

~~Biomaterials &~~

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~~scaffolds for tissue  
engineering ...~~

Scaffolds for tissue engineering are devices that exploit specific and complex physical and biological functions, in vitro or in vivo, and communicate through biochemical and physical signals with cells and, when implanted, with the

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body environment.

Scaffolds are produced mainly with synthetic materials, and their fabrication technologies are derived from already well-established industrial processes, with some new specific technologies having been developed in the last years to address ...

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The tissue engineering approach for repairing osteochondral (OC) defects involves the fabrication of a biological tissue scaffold that mimics the physiological properties of natural

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OC tissue ( e.g., the gradient transition between the cartilage surface and the subchondral bone).

The OC tissue scaffolds described in many research studies exhibit a discrete gradient ( e.g., a biphasic or tri/multiphasic structure) or a continuous gradient to

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mimic OC tissue  
attributes such as  
biochemical ...

~~Gradient scaffolds for  
osteocondral tissue  
engineering ...~~

Tissue engineering  
using 3D structured  
scaffolds represents a  
promising strategy for  
achieving biological  
fixation and  
integrative soft-tissue

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repair in people who sustained a tendon injury [1,9]. Tissue engineering exploits the production of ex vivo functioning artificial tissues, such as bio-responsible scaffolds.

## ~~The Role of Scaffolds in Tendon Tissue Engineering~~

Tissue engineering is

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the use of a combination of cells, engineering, and materials methods, and suitable biochemical and physicochemical factors to improve or replace biological tissues. Tissue engineering involves the use of a tissue scaffold for the formation of new

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viable tissue for a medical purpose. While it was once categorized as a sub-field of biomaterials, having grown in scope and ...

~~Tissue engineering~~  
~~Wikipedia~~

Dentin scaffolds DDM is defined as an acid-insoluble dentin collagen with natural

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Tissue cross-links and is a cell-free absorbable biomatrix with dentinal tube structure. DDM from autogenous tooth can be applied for bone grafts and tissue engineering as its own biomaterial, thus allowing improvement of bone induction while reducing the risk of infection.

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~~Dentin Materials as  
Biological Scaffolds  
for Tissue ...~~

With the  
enhancement of bone-  
tissue regeneration  
technologies, there is  
an increment request  
for perfect bio-  
ceramic scaffolds with  
multifunctional  
properties, including  
high mechanical

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strength as well as biological and controlled drug-release potential.

Design  
Characterization and biological properties of ...

Scaffolds represent a promising solution to the challenges associated with tendon tissue engineering. The ideal

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scaffold for tendon tissue engineering needs to exhibit physiologically relevant mechanical properties and to facilitate functional graft integration by promoting the regeneration of the native tissue.

~~The Role of Scaffolds  
in Tendon Tissue~~

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Tissue engineering is a multidisciplinary field founded on three fundamental principles: (I) the use of healthy multipotent cells that are nonimmunogenic, easy to isolate, and highly responsive to distinct environmental

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cues, (II) the development of carrier scaffolds that provide short-term mechanical stability of the transplant and a template for spatial growth of the regenerate tissue, and (III) the delivery of growth factors that drive the process of cell differentiation and maturation ...

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## ~~Scaffolds in Tendon Tissue Engineering~~

The biocompatibility is one of the main points of a scaffold for any tissue engineering application. In all, the scaffold must be suitable for cells to adhere, function normally, proliferate, differentiate, and produce new matrix .

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In addition, the other important property of scaffolds is biodegradability, because these features are significant to let tissue formation happen simultaneously with scaffold degradation.

~~Scaffold for bone  
tissue engineering~~  
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Hydrogel scaffolds that can repair or regrow damaged biological tissue have great potential for the treatment of injury and disease. These biomaterials are widely used in the tissue engineering field due to their ability to support cell proliferation, migration and differentiation, to

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permit oxygen and nutrient transport, and to mimic native soft tissue.

~~Hydrogel scaffolds for tissue engineering: the importance ...~~

Chitosan, a biodegradable naturally occurring polymer, has drawn considerable attention in recent years as a

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scaffolding material in tissue engineering and regenerative medicine. Despite its favorable biological properties, the weak mechanical strength of scaffolds produced from chitosan has limited the scop

~~High-strength pristine porous chitosan scaffolds for ...~~

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Biological Evaluation  
of the Titanium

Scaffolds for Bone

Tissue Engineering

Materials (Basel).

2016 Mar 15;9(3):197.

doi:

10.3390/ma9030197.

Authors Bart?omiej ...

~~Post Processing and  
Biological Evaluation  
of the Titanium ...~~

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In tissue engineering applications or even in 3D cell cultures, the biological cross talk between cells and the scaffold is controlled by the material properties and scaffold characteristics.

~~Scaffolds for tissue engineering and 3D cell culture~~

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When designing scaffolds for tissue engineering constructs, it is considered particularly appropriate to use a resorbable or biodegradable polymer as the scaffold so that 100% pure and viable biological tissue can be obtained for

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implantation without the risk of a chronic inflammatory response (Chapter 3).

Much progress has been made toward this objective, and more on-going research and ...

~~Scaffold for Tissue Engineering—an overview ...~~

In a common tissue

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Engineering strategy, for the regeneration of cardiac tissue, a scaffold (patch) is required to host the cells and mechanically support the infarcted heart. An ideal CTE scaffold should promote cell attachment and mimic the native tissue, both biologically and mechanically.

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