

# Skeletal Muscle Tissue Engineering

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### **CHEN2820 / SKELETAL MUSCLE TISSUE ENGINEERING - PBWORKS**

*Fri, 05 May 2017 19:30:00 GMT*

authors: erik burns, kelsi krier, marc lebel, matt peppel motivation. damage to skeletal muscle tissue from injury, myopathies and other muscle diseases can lead to ...

### **TISSUE ENGINEERING OF SKELETAL MUSCLE | INTECHOPEN**

*Mon, 01 May 2017 07:10:00 GMT*

tissue engineering of skeletal muscle | intechopen, published on: 2011-08-17. authors: klumpp dorothee, horch raymund e. and beier justus p.

### **SKELETAL MUSCLE TISSUE ENGINEERING - RESEARCHGATE**

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introduction tissue engineering represents a scientific approach that attempts to mimic neoorganogenesis [1]. the creation of skeletal muscle tissue using tissue engi-

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fig. 1. the three main approaches employed for skeletal muscle tissue engineering. (a) in vitro tissue engineering involves the development of a functional tissue ...

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*Mon, 30 Apr 2007 23:55:00 GMT*

abstract. the reconstruction of skeletal muscle tissue either lost by traumatic injury or tumor ablation or functional damage due to myopathies is hampered by the ...

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bach, a. d., beier, j. p., stern-staeter, j. and horch, r. e. (2004), skeletal muscle tissue engineering. journal of cellular and molecular medicine, 8: 413-422 ...

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skeletal muscle tissue is characterized by high metabolic requirements, defined structure and high regenerative potential. as such, it constitutes an appealing ...

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official full-text publication: advances in skeletal muscle tissue engineering on researchgate, the professional network for scientists.

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muscle tissue engineering is a subset of the general field of tissue engineering, which studies the combined use of cells and scaffolds to design therapeutic tissue ...

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engineering functional skeletal muscle tissue is still a challenge, in particular in clinically relevant sizes. the development of a suitable scaffold for muscle

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2 executive summary introduction skeletal muscle tissue is one of the most prevalent tissues in the human body and is responsible for all voluntary ...

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skeletal muscle tissue engineering holds great promise for regenerative medicine 1,2. the in vivo niche of skeletal muscle plays a crucial role in myogenic ...

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jonathan mark fishman, athanasios tyraskis, panagiotis maghsoudlou, luca urbani, giorgia totonelli, martin a. birchall, paolo de coppa

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skeletal muscle possesses a remarkable self-repair capacity whose underlying mechanisms have been thoroughly investigated (vandenburgh et al., 1988; de arcangelis et ...

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scientists use tissue engineering to grow leg muscle heidelberg, 25 february 2015 – a team of researchers from italy, israel and the united kingdom has succeeded in ...

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## **TISSUE ENGINEERING OF SKELETAL MUSCLE USING POLYMER FIBER ...**

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the purpose of this study was to assess a new scaffold design for muscle tissue engineering: arrays of parallel-oriented polymer microfibers. first, c2c12 skeletal ...

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muscle tissue is a soft tissue that composes muscles in animal bodies, and gives rise to muscles' ability to contract. this is opposed to other components or tissues ...

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the aim of this chapter is to give an overview of skeletal muscle and describe some of the methods used in our laboratories and others to engineer skeletal muscle ...

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abstract. one of the major obstacles in engineering thick, complex tissues such as muscle is the need to vascularize the tissue in vitro. vascularization in vitro ...

## **ENGINEERED CONTRACTILE SKELETAL MUSCLE TISSUE ON A ...**

*Fri, 17 Feb 2017 13:30:00 GMT*

engineered contractile skeletal muscle tissue on a microgrooved methacrylated gelatin substrate vahid hosseini, pharm.d., m.s.,1,2, \*samad ahadian, ph.d.,1, serge ...

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the invention provides a nutrient medium composition and associated methods for lengthening the useful life of a culture of muscle cells. disclosed is a method of ...

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tissue engineering of skeletal muscle 22-3 with atrophy associated with immobilization, inactivity, injury, disease, or old age. a single muscle ?ber

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skeletal muscle tissue is characterized by high metabolic requirements, defined structure and high regenerative potential. as such, it constitutes an appealing ...