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Outlook and perspectives for future research: insights into the structure–function relationship of the ECM, especially in ageing and injured fascial tissues and skeletal muscle ... that modify tissue ...

Fascial tissue research in sports medicine: from molecules to tissue adaptation, injury and diagnostics: consensus statement

This book presents a full spectrum of views on current

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approaches to modeling cell mechanics. The authors of this book come from the biophysics, bioengineering, and physical chemistry communities and ...

Models and Measurements in Cell Mechanics

Research interests The research has applications in orthopaedic and dental medicine, where clinicians are looking for improved methods to repair skeletal tissues ... cell-material interactions, cell ...

Professor Gwendolen Reilly

Tooth removal changes the mechanics ... External skeletal

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fixators (ESFs) are a simple and effective technique for managing mandibular fractures of the rostral two thirds of this bone, especially ...

Fractures of the Mandible

Virtually everything we know about the pathogenesis of excessive bronchoconstriction is the result of research in classical Newtonian mechanics. In COPD ... it is due to skeletal muscle dysfunction ...

Cell and Molecular Biology Is not the Only Way to a Better Understanding of Pathogenesis of Lung Disease

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Muscle shortening velocity depends on tissue inertia and level of activation during ... The effect of intramuscular fat on skeletal muscle mechanics: implications for the elderly and obese. J. R. Soc.

Dr. James Wakeling

Because skeletal and dental tissues are sensitive to environmental fluctuations ... a rare opportunity to investigate patterns of human adaptation and skeletal mechanics in hunting and gathering ...

Prehistoric Hunter-Gatherers of the Baikal Region, Siberia:

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Bioarchaeological Studies of Past Life Ways

May include the study of orbital mechanics using industry-standard software ... students study the interactions of systems within the human body by building organs and tissues on a skeletal manikin ...

Project Lead the Way

In the regenerative medicine area, my research focuses on the development of biomaterials for tissue engineering: such as scaffolds for bone, hydrogels for regenerating skeletal muscle ... cell ...

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New Faculty

A non-invasive technique that works on accessible tissues could enable the ambitious goal of population ... create and test new fluid mechanics models, and develop advanced micromechanical fabrication ...

ENG/EFRI FY 2009 Awards Announcement

7 Ansys finite element software and its proprietary finite-volume code, CFX, have been used to model hemodynamics and pulmonary delivery problems and some biomechanics or tissue mechanics problems ...

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Using Simulation to Improve Drug-Delivery Devices

Topics include: principles of biomechanical analysis, body mechanics, exercise prescription ... and therapeutically resolving dysfunction of skeletal and joint structures, muscles and soft tissues. A ...

Physical Therapy

exercise possibly performs the same magic in other tissues, too. And, although it is important simply to understand how exercise impacts the mechanics of cells, these insights may also allow ...

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Interval training exercise could be a fountain of youth
Biomechanical Strain Characteristics of Soft Tissue Biceps
Tenodesis and Bony Tenodesis ... Effect of different intensity
pulsed ultrasound on the restoration of rat skeletal muscle
contusion. Cell ...

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