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This is a
comprehensive and
accessible overview of
what is known about
the structure and
mechanics of bone,

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bones, and teeth. In
it, John Currey
incorporates ...

Bones: Structure and Mechanics

PhD Program for
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Label-Free Characterization of Collagen Crosslinking in Bone- Engineered Materials Using Nonlinear Optical Microscopy

Structurally, ECMs are composed of proteins such as collagen and elastin ... extracts and hydrogels provide a structure that can mimic the overall mechanics of many natural ECMs,

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according to ...

Cell culture: building a better matrix

To tackle the problem, the team developed a new technology that mimics the mechanics of tendons. “Our design is inspired by the human body, the endotenon sheath, which is both tough and strong due to ...

Human tendon inspires slippery

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suture to eradicate anomalies

The activating NK-cell receptors KIR2DS2 (killer-cell immunoglobulin-like receptor, two domains, short cytoplasmic tail 2), NKp46 and NKG2C-CD94, the collagen receptor GPVI, and the high ...

Common themes in the assembly and architecture of activating immune

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receptors

Quantifying forces in 3D fibrous scaffolds such as collagen is challenging (31) because of (i) lack of reliable mechanical characterization of the ECM at cellular scale since macroscopic mechanical ...

A novel method for sensor-based quantification of single/multicellular force dynamics and

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stiffening in 3D matrices

While the effects of touching are easy to understand, the mechanics of it ... other materials that mimic the structure of the dermis. Some are made from cow collagen and shark cartilage, and ...

Unmasking Skin

“That fact pointed to mechanics,” said Longaker ... their new

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skin also recovered normal collagen structure. And when tested for mechanical breaking strength, it was comparable to normal ...

In mouse experiments, scientists unlock the key to scar-free skin healing

uq.edu.au The fascial system builds a three-dimensional continuum of soft, collagen-

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containing ... changes
in cell function and
structure leading to
ECM adaptation.⁴
Therefore, fascial
tissue ...

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

Inspired by the tendon
To tackle the problem,

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the team developed a new technology that mimics the mechanics of ... due to its double-network structure. It binds collagen fibers together while ...

Surgical sutures inspired by human tendons

A normal vertebral disk represents a complex structure between the bones of the spine. The nucleus, sandwiched in the center of the disk,

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contains fluid that serves as a cushion. Layered collagen ...

Exploring Innovative Treatment Options for Degenerative Disk Disease

To tackle the problem, the team developed a new technology that mimics the mechanics of tendons ... strong due to its double-network structure. It binds collagen fibers together while its

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Researchers develop innovative tough gel sheathed sutures inspired by human tendons

They approached this problem by developing a new technology which mimics the mechanics of tendons. "Our design is inspired by the human body, the endotenon sheath, which is both tough and strong due ...

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Human tendons inspire soft surgical sutures

A US-based company is genetically creating proteins similar to bovine collagen to make leather from living cells without the need of animals. NASA astronomer Michelle Thaller is coming back to Big ...

Zero-Cruelty, Lab- Grown Leather Is

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Almost Here!

Inspired by the tendon
To tackle the problem,
the team developed a
new technology that
mimics the mechanics
of ... due to its double-
network structure. It
binds collagen fibers
together while ...

**Next-generation
sutures can deliver
drugs, prevent
infections and
monitor wounds**

New technology that

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mimics the mechanics of tendon has been developed ... which is both tough and strong due to its double-network structure. It binds collagen fibers together while its elastin ...

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