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### **Full Version Macroscale And Microscale**

Drawing from advances in mathematics and related fields, we show that biophysical models of large-scale neural dynamics can help to bridge the gap between neuromodulation at the cellular scale and ...

### **Computational models link cellular mechanisms of neuromodulation to large-scale neural dynamics**

Microscale delivery systems usually consist of DNA entrapped within a polymer matrix for DNA vaccination or local DNA delivery. Macroscale systems ... upon request. Full size table At each length ...

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## **Polymers for gene delivery across length scales**

Webb , Huck Institute Magnetic Resonance Centre, Pennsylvania State University Download the high-resolution JPG version of the image ... in the small intestine by muscle-induced macroscale eddying ...

## **Gut Reaction: Digestion Revealed in 3-D**

See allHide authors and affiliations At the macroscale, controlling robotic swarms typically uses substantial memory, processing power, and coordination unavailable at the microscale, e.g., for ...

## **Programming active cohesive granular matter with mechanically induced phase changes**

achieved by controlling the 3-D printing process at the microscale. Image Courtesy of ORNL 3D printing technology continues to advance, developing new

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applications which are particularly promising ...

## **Architecture News**

The National Institutes of Health has jointly awarded a \$3.9 million grant to Ali Khademhosseini, Ph.D., director and CEO of the Terasaki Institute for Biomedical Innovation (TIBI), and Rami Oklu, Ph.

## **Terasaki Institute awarded NIH grant to develop precision drug delivery to cancer cells**

The company also is contemplating a larger version of the microbioreactor. "Two milliliters may be too small for some applications," he acknowledges. "We also may add more inputs and outputs ...

## **Powering Perfusion at the Microscale**

On the other hand, since the microscale confinement is on the same length scale as the colloidal size, it is difficult to

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determine how the colloids interplay with each other and the geometrical ...

## **Confined magnetic colloidal system for controllable fluid transport**

An implant as soft as brain tissue would be ideal, but such soft implants would be difficult to manufacture and implant on the microscale. A team of researchers from The Neuro (Montreal ...

## **Study uses sugar to make and deliver pudding-like brain implants that reduce foreign body response**

First, to measure the effects of cardiac output, loading environment, and extracellular matrix composition on the macroscale mechanical response, microscale extracellular ... maintained by the ...

## **CAREER: Multi-scale Assessment of Biomechanical Alterations in Tricuspid Valves Following Pregnancy**

1 Biomaterials Innovation Research

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Center, Division of Biomedical Engineering, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, Cambridge, MA 02139, USA. 2 Harvard-MIT ...

## **Advances in engineering hydrogels**

Mobin Alipour [Opens in a new window],  
In this work, we investigate the dynamics of long non-axisymmetric fibres in turbulent channel flow. The experimental facility is the TU Wien Turbulent Water ...

## **Long non-axisymmetric fibres in turbulent channel flow**

It may have, in part, inspired 19th-century Post-Impressionist French artist Georges Seurat (1859–1891) in his attempt to reform Impressionism and illuminate the world with a new form of art: his own ...

## **The Sky Phenomena That May Have Inspired Artist Georges Seurat**

Nanoimprint lithography allows for the

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creation of microscale patterns with low cost, high throughput and high resolution. When implanted into the body as part of a bone replacement procedure ...

## **Pillar of support: Breakthrough discovery could speed up bone implant recovery**

The elastohydrodynamics of slender bodies in a viscous fluid have long been the source of theoretical investigation, being pertinent to the microscale world of ciliates and flagellates as well as to ...

## **Regularised non-uniform segments and efficient no-slip elastohydrodynamics**

which serves as a sufficient microscale power source for the construction of an integrated sensor system. The as-fabricated KIMSCs could offer a large operating voltage of 3.8 V, extraordinary ...

## **High-performance potassium ion**

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**micro-supercapacitors developed  
for wearable pressure sensor  
system**

The full list of Asia Pacific winners ...  
achieved by controlling the 3-D printing  
process at the microscale. Image  
Courtesy of ORNL 3D printing technology  
continues to advance, developing ...

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