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Biophysics

**In Biophysics**

**Biomaterials**

**Biotechnology**

**Systems**

**Medical**

**Systems**

**Algorithm**

**Development**

**Methods** *Page 1/32* **Volume Iv**

**Diagnostic**

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Analysis

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## **Computational Methods In Biophysics Biomaterials**

Tumor heterogeneity is widely attributed to the imperfection of DNA replication. However, little is known about

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the mechanoregulation of tumor heterogeneity. Here, we report that volumetric compression that usually arises from tumor progression increases the overall gene-expression noise, leading to differential cell-fate transitions along epithelial/mesenchymal transition regulatory network...



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**Volumetric  
compression  
develops noise-  
driven single-cell ...**

Research Interests:

Computational  
mechanics, finite  
element methods,  
computational inverse  
problems and their  
applications in  
engineering and  
biomedicine, scientific  
computing,  
computational  
acoustics and acoustics-  
structure interaction,

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coupled chemo-  
mechanics (e.g., electr  
ochemistry-  
mechanics).

## **Faculty | Duke Mechanical Engineering and Materials Science**

Ashutosh Chilkoti. Alan  
L. Kaganov  
Distinguished Professor  
of Biomedical  
Engineering. Research  
Interests: Focused on  
biomolecular materials  
and biointerface

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science and emphasizes the development of applications that span the range from bioseparations, biosensors, biomaterials, and targeted drug delivery.

## **Faculty | Duke Biomedical Engineering**

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Medical Biology, Duke-  
NUS Graduate Medical  
School Apply A\*STAR

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Biology, Duke-NUS  
Graduate Medical  
School filter ; A\*STAR  
Institute of Molecular  
and Cell Biology Apply  
A\*STAR Institute of  
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for Science Technology  
and Research Apply  
Agency for Science  
Technology and  
Research filter

**Scientist Search  
Results | HHMI**

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## Computational

Thinking is the thought processes involved in formulating a problem and expressing its solution in a way that a computer—human or machine—can effectively carry out.

• Computational Thinking is what comes before any computing technology—thought of by a human, knowing full well the power of automation.

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## **Computational Thinking**

Whether we are modeling or engineering cells and tissues, analyzing large datasets, developing new imaging technologies, or synthesizing novel biomaterials, the problem statement always starts with the biology underlying the system, therapy, or disease process.

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## **Biomedical Engineering | University of Virginia School of ...**

Focus and Coverage.

The Journal of Chemical  
Physics (JCP) is an  
international journal  
that publishes cutting  
edge research in all  
areas of modern  
chemical physics and  
physical chemistry. In  
addition to Articles, JCP  
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Communications of  
significant new

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findings, Perspectives  
or Reviews on the  
latest advances in the  
field, Tutorials as  
educational tools for  
the community, and ...

## **The Journal of Chemical Physics - Scitation**

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Director of the Center  
for Bioinformatics and  
Computational  
Genomics, Senior  
Advisor in  
Bioinformatics at



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Consequence  
Pathogens and  
Pathology, Centers for  
Disease Control and  
Prevention in Atlanta,  
Chair of the  
Department of  
Bioinformatics and  
Systems Biology,  
Moscow Institute of  
Physics and  
Technology

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**Department of**  
**Biomedical**

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## **Engineering**

Biomechanics is the study of the structure, function and motion of the mechanical aspects of biological systems, at any level from whole organisms to organs, cells and cell organelles, using the methods of mechanics.

Biomechanics is a branch of biophysics

## **Biomechanics - Wikipedia**

The material of choice

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of a given era is often a defining point. Phrases such as Stone Age, Bronze Age, Iron Age, and Steel Age are historic, if arbitrary examples. Originally deriving from the manufacture of ceramics and its putative derivative metallurgy, materials science is one of the oldest forms of engineering and applied science. Modern materials

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science evolved  
directly from  
metallurgy ...

## **Materials science - Wikipedia**

Computational  
Biophysics Kalpana  
Katti, Ph.D. (Graduate  
Coordinator) University  
of Washington, 1996

Research Interests:  
Advanced Composites,  
Nanomaterials,  
Biomaterials,  
Biomimetics, Materials  
Characterization and

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Modeling, Analytical  
Electron Microscopy,  
and Microspectroscopy,  
Bone Tissue  
engineering

## **Civil and Environmental Engineering < North Dakota State ...**

The news of our  
research article  
entitled "Switchable  
immune modulator for  
tumor-specific  
activation of anticancer  
immunity" is

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highlighted as the fifth of the top ten most-read news stories from 2021 of EPFL.

## **Laboratory of Biomaterials for Immunoengineering - EPFL**

Computational software like reactive force-field (ReaxFF) and DFT [102–104] can be used to gain further insight into the dynamics of the atomic layer deposition

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process . ReaxFF  
interatomic potential is  
a powerful  
computational tool for  
exploring, developing  
and optimizing  
material properties [ 101 ].

**New development of  
atomic layer  
deposition:  
processes ...**

REU Sites: Materials  
Research. The NSF  
Division of Materials  
Research (DMR)

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supports REU Sites that focus on research in materials science and related areas, including condensed matter physics, materials chemistry and physics, and materials engineering.

## **REU Sites | NSF - National Science Foundation**

Research Interests:  
Biomaterials  
engineering research  
to investigate the link



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between molecular  
chirality and material  
mechanical properties,  
and research in the  
area of imaging  
technologies towards  
developing imaging  
agents for multicolor  
F-19 MRI: Wenbo Yu,  
PhD Research Assistant  
Professor of  
Pharmaceutical  
Sciences

**Faculty - University  
of Maryland,  
Baltimore**

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It is the intention of this study to elucidate the nested formation of calcium carbonate polymorphs or polyamorphs in the different nanosized compartments. With these observations, it can be concluded how the bacteria can survive in a harsh environment with high calcium carbonate supersaturation. The mechanisms of calcium carbonate precipitation

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at the surface  
membrane and at the  
underlying ...

**Nested Formation of  
Calcium Carbonate  
Polymorphs in a ...**

PE5\_7 Biomaterials  
synthesis. 3 PE5\_8  
Intelligent materials  
synthesis - self  
assembled materials ...  
processes and relevant  
computational  
methods PE8\_1

Aerospace engineering

PE8\_2 Chemical

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engineering, technical  
chemistry... structural  
biology, molecular  
biophysics, synthetic  
and chemical biology,  
drug design, innovative  
methods and ...

## **Panel structure for ERC calls 2021 and 2022 (revised ...**

Controlling collective  
cell behaviors,  
bioelectricity, cadherin-  
biomaterials. Thomas  
Gregor. Jadwin Hall -  
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biophysics; shape,  
mechanics and motility  
... Computer Science  
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Quadrangle - D326 ...

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Department of  
Molecular Biology**  
Clinical Biomechanics

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is an international multidisciplinary journal of biomechanics with a focus on medical and clinical applications of new knowledge in the field. The science of biomechanics helps explain the causes of cell, tissue, organ and body system disorders, and supports clinicians in the diagnosis, prognosis and evaluation of treatment methods and

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technologies.

## **Home Page: Clinical Biomechanics**

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medicine. It also

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Biomaterials

Biotechnology

And Medical

Systems

Algorithm

Development

Mathematical

Analysis And

Analysis

Methods volume Iv

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