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All patients had been previously diagnosed with keratoconus, presenting grade II to grade III keratoconus according to the keratoconus severity score grading scale.

[28] Habitual correction for 3 ...

Clinical Performance of a New Hybrid Contact Lens for Keratoconus

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4 Department of Medical Physics, Memorial Sloan Kettering Cancer Center ... and no toxicological consequences were observed in murine models. Toward clinical application of this platform, fCNTs were ...

Targeted fibrillar nanocarbon RNAi treatment of acute kidney injury

Alpha Lee is group leader in the Department of Physics, University of Cambridge ... then met weekly to work out algorithms to rank submissions. J.C. developed new ways to use Folding@home ...

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A white-knuckle ride of open COVID drug discovery

Detailed chapters cover the many forms of therapy being explored to promote brain repair and consider clinical trial issues in this context. This book provides a summary of the neurobiology of innate ...

Brain Repair After Stroke

8 Departments of Radiology and Radiologic Sciences, Biomedical Engineering, Molecular Physiology and Biophysics, and Physics and Astronomy, Vanderbilt University, Nashville, TN 37232, USA. 9 ...

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Integrated molecular imaging reveals tissue heterogeneity driving host-pathogen interactions

This combination of new basic insights into tumor cell biology and recently discovered non-genetic resistance mechanisms to cancer drugs has far-reaching clinical ... to J-C.M., an OHSU Knight ...

Predicting resistance to anticancer drugs
The identification of the cause of an epileptic seizure is a key element in the clinical management of all patients. In

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recent decades, advances in theory, neuroimaging, molecular genetics and ...

Common and Uncommon Causes in Adults and Children

A normal mammalian cochlea on the left, and a damaged cochlea on the right. Hair cells cannot be regenerated in mammals after damage. Hearing loss is one of the most common disabilities in the United ...

Can we Regenerate Sensory Cells of the Inner Ear?

5 Institute of Physics, Chinese Academy of

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Sciences ... and many failed to go through the clinical pipeline. Yet, such a promiscuous nature is managed with exquisite precision within a living system ...

On the design of precision nanomedicines "While more work remains before clinical testing, these results are an encouraging sign that an effective, mRNA-based malaria vaccine is achievable." Walter Reed Army Institute of Research.

mRNA vaccine yields full protection against malaria in mice

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“A person would probably swallow a capsule once a day containing about 100 billion bacteria,” says J.C. Gutierrez, the company’s CEO. The treatment is set to have its first clinical test by ...

A New Way to Cure? Bacteria With Genetic Programs Are Coming To a Body Near You
The Multi-Omics Data Analysis assists with analysis of data generated by the major technology platforms of the CPRIT Core Facility including mass spectrometry (MS) metabolomics, MS-based proteomics ...

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Multi-Omics Data Analysis

Lab studies suggest magnolia bark extract has anticancer properties, but clinical trials are needed to confirm these effects. To treat diabetes Magnolia bark extract and its active compounds lowered ...

Magnolia officinalis

“The alpha variant became predominant in Western New York,” says Gale Burstein, Erie County commissioner of health and clinical professor of pediatrics in the Jacobs School. “These findings from our ...

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UB scientists find highly transmissible delta variant in Erie County

B.S.N. University of Virginia M.T.S.

Vanderbilt University Ph.D. M.S.N. University of North Carolina at Chapel Hill Stewart Bond, Ph.D., RN, is a clinical associate professor at the Connell School of ...

Stewart M. Bond

Objectives: To compare the clinical performance of the Clearkone hybrid contact lens for the treatment of keratoconus against the habitual contact lens of the patients.

Methods: A total of 33 eyes ...

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Balances mathematical discussions with physical discussions. * Derivations are complete and the theory is applied whenever possible. * Gasiorowicz is a world class researcher in quantum physics.

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This book surveys the most recent advances in physics-inspired cell movement models. This synergetic, cross-disciplinary effort to increase the fidelity of computational algorithms will lead to a better understanding of the complex biomechanics of cell movement, and stimulate progress in research on related active matter systems,

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from suspensions of bacteria and synthetic swimmers to cell tissues and cytoskeleton. Cell motility and collective motion are among the most important themes in biology and statistical physics of out-of-equilibrium systems, and crucial for morphogenesis, wound healing, and immune response in eukaryotic organisms. It is also relevant for the development of effective treatment strategies for diseases such as cancer, and for the design of bioactive surfaces for cell sorting and manipulation. Substrate-based cell motility is, however, a very complex process as regulatory pathways

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and physical force generation mechanisms are intertwined. To understand the interplay between adhesion, force generation and motility, an abundance of computational models have been proposed in recent years, from finite element to immerse interface methods and phase field approaches. This book is primarily written for physicists, mathematical biologists and biomedical engineers working in this rapidly expanding field, and can serve as supplementary reading for advanced graduate courses in biophysics and mathematical biology. The e-book incorporates experimental and computer

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animations illustrating various aspects of cell movement./div

This book is based on the lectures and contributions of the NATO Advanced Study Institute on “Nanoscience and Nanotechnology in Security and Protection Against CBRN Threats” held in Sozopol, Bulgaria, September 2019. It gives a broad overview on this topic as it combines articles addressing the preparation and characterization of different nanoscaled materials (metals, oxides, glasses, polymers, carbon-based, etc.) in the form of nanowires, nanoparticles,

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nanocomposites, nanodots, thin films, etc. and contributions on their applications in diverse security and safety related fields. In addition, it presents an interdisciplinary approach drawing on the Nanoscience and Nanotechnology know-how of authors from Physics, Chemistry, Engineering, Materials Science and Biology. A further plus-point of the book, which represents the knowledge of experts from over 20 countries, is the combination of longer papers introducing the background on a certain topic, and brief contributions highlighting specific applications in different security areas.

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Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing

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data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who

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seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

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