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RNAi Technology - R. K. Gaur 2016-04-19

RNAi technology is used for large-scale screens that systematically shut down each gene in the cell, which can help identify the components necessary for a particular cellular process or an event such as cell division. Exploitation of the pathway is also a promising tool in biotechnology and medicine. Introducing new technology in the study of RNA

Error Correction Coding - Todd K. Moon 2005-06-06

An unparalleled learning tool and guide to error correction coding Error correction coding techniques allow the detection and correction of errors occurring during the transmission of data in digital communication systems. These techniques are nearly universally employed in modern communication systems, and are thus an important component of the modern information economy. Error Correction Coding: Mathematical Methods and Algorithms provides a comprehensive introduction to both the theoretical and practical aspects of error correction coding, with a presentation suitable for a wide variety of audiences, including graduate students in electrical engineering, mathematics, or computer science. The pedagogy is arranged so that the mathematical concepts are presented incrementally, followed immediately by applications to coding. A large number of exercises expand and deepen students' understanding. A unique feature of the book is a set of programming laboratories, supplemented with over 250 programs and functions on an associated

Web site, which provides hands-on experience and a better understanding of the material. These laboratories lead students through the implementation and evaluation of Hamming codes, CRC codes, BCH and R-S codes, convolutional codes, turbo codes, and LDPC codes. This text offers both "classical" coding theory-such as Hamming, BCH, Reed-Solomon, Reed-Muller, and convolutional codes-as well as modern codes and decoding methods, including turbo codes, LDPC codes, repeat-accumulate codes, space time codes, factor graphs, soft-decision decoding, Guruswami-Sudan decoding, EXIT charts, and iterative decoding. Theoretical complements on performance and bounds are presented. Coding is also put into its communications and information theoretic context and connections are drawn to public key cryptosystems. Ideal as a classroom resource and a professional reference, this thorough guide will benefit electrical and computer engineers, mathematicians, students, researchers, and scientists.

World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada - David A. Jaffray 2015-08-04

This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics, a tri-annual high-level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine. The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and

healthcare. It provides a unique and important forum to secure a coordinated, multileveled global response to the need, demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health.

Fluorine-containing Amino Acids - Valeriï Pavlovich Kukhar'
1995-04-06

In recent years, organo-fluorine chemistry has made a marked impact on the design and synthesis of a large variety of biologically active molecules, such as steroids, carbohydrates, amines, amino acids, peptides and other natural products. Naturally occurring amino acids play a pivotal role in living systems, and therefore synthetic fluorine-containing amino acids have been of significant interest to researchers working towards the understanding and modification of physiological processes. Fluorine-containing Amino Acids: is the first volume devoted to the synthesis and properties of fluorine-containing amino acids pays special attention to the preparation of enantiomerically pure acids (which are essential to the modern pharmaceutical industry) deals with a rapidly expanding field of research has been written by experienced researchers who are responsible for many developments in the field highlights the interdisciplinary nature of this topic Fluorine-containing Amino Acids is the only dedicated reference in this subject and will be essential for researchers in synthetic organic, peptide, natural product, and medicinal chemistry and biochemistry.

Advanced Lectures on Networking - Enrico Gregori 2002-11-13

This book presents the revised version of seven tutorials given at the NETWORKING 2002 Conference in Pisa, Italy in May 2002. The lecturers present a coherent view of the core issues in the following areas: - peer-to-peer computing and communications - mobile computing middleware - network security in the multicast framework - categorizing computing assets according to communication patterns - remarks on ad-hoc networking - communication through virtual technologies - optical networks.

Postal Services Bill - Great Britain. Parliament. House of Commons 2000

The Bill provides for the Post Office to be converted from a statutory corporation to a public limited company, with ownership remaining with the Crown. It introduces a new system of licensing and regulation for postal services operators and providers, and gives the independent regulator, the new Postal Services Commission, new powers and duties to protect and promote the interests of users. The Post Office Users' National Council is replaced by the Consumer Council for Postal Services, to bring postal services into line with consumer representation in the other utilities.

Mobile Computing - Tomasz Imielinski 2007-08-26

The rapid development of wireless digital communication technology has created capabilities that software systems are only beginning to exploit. The falling cost of both communication and of mobile computing devices (laptop computers, hand-held computers, etc.) is making wireless computing affordable not only to business users but also to consumers. Mobile computing is not a "scaled-down" version of the established and well-studied field of distributed computing. The nature of wireless communication media and the mobility of computers combine to create fundamentally new problems in networking, operating systems, and information systems. Furthermore, many of the applications envisioned for mobile computing place novel demands on software systems. Although mobile computing is still in its infancy, some basic concepts have been identified and several seminal experimental systems developed. This book includes a set of contributed papers that describe these concepts and systems. Other papers describe applications that are currently being deployed and tested. The first chapter offers an introduction to the field of mobile computing, a survey of technical issues, and a summary of the papers that comprise subsequent chapters. We have chosen to reprint several key papers that appeared previously in conference proceedings. Many of the papers in this book are being published here for the first time. Of these new papers, some are expanded versions of papers first presented at the NSF-sponsored Mobidata Workshop on Mobile and Wireless Information Systems, held at Rutgers University on Oct 31 and Nov 1, 1994.

2015 IEEE 26th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC) - IEEE Staff 2015-08-30
PIMRC covers all aspects of wireless communications and networking. It will be organized into four tracks, namely, Fundamentals and Physical Layer, Medium Access Control and Cross Layer Design, Mobile and Wireless Networks, and Services, Applications and Business
Facsimile Products - 1979

2015 Asia Pacific Microwave Conference (Apmc) - IEEE Staff 2015-12-06

APMC2005 will provide a broad forum for participants from both academia and industries to exchange information, share research results, and discuss collaborations in the fields of microwave, millimeter wave and even to the far infrared and optical waves

Protein Structure Determination - Clarence H. Suelter 1991-01-16
Presents methods for determining the secondary and tertiary structure of proteins. The issues covered here involve theoretical/empirical approaches for predicting protein structure; a review using protein ligand interactions to study surface properties of proteins; use of fluorescence techniques to study structure and dynamics of proteins; and limited proteolysis with monoclonal antibodies to understand how specific structural features confer biological function.

Practical OpenCV - Samarth Brahmhatt 2013-11-30

Practical OpenCV is a hands-on project book that shows you how to get the best results from OpenCV, the open-source computer vision library. Computer vision is key to technologies like object recognition, shape detection, and depth estimation. OpenCV is an open-source library with over 2500 algorithms that you can use to do all of these, as well as track moving objects, extract 3D models, and overlay augmented reality. It's used by major companies like Google (in its autonomous car), Intel, and Sony; and it is the backbone of the Robot Operating System's computer vision capability. In short, if you're working with computer vision at all, you need to know OpenCV. With Practical OpenCV, you'll be able to: Get OpenCV up and running on Windows or Linux. Use OpenCV to control

the camera board and run vision algorithms on Raspberry Pi. Understand what goes on behind the scenes in computer vision applications like object detection, image stitching, filtering, stereo vision, and more. Code complex computer vision projects for your class/hobby/robot/job, many of which can execute in real time on off-the-shelf processors. Combine different modules that you develop to create your own interactive computer vision app.

Antiviral RNAi - Ronald P. van Rij 2011-03-08

Viruses and RNAi share an intricate relationship at many levels. RNAi is an important antiviral defense mechanism in plants and invertebrates, microRNAs - of viral or cellular origin - affect many aspects of virus biology, and replication of many, if not all, mammalian viruses can be suppressed by RNAi. *Antiviral RNAi: Concepts, Methods, and Applications* provides a collection of protocols for the analysis of viral small RNAs and natural antiviral RNAi responses as well as for the development and optimization of RNAi-based antiviral drugs. As RNAi is a central regulatory mechanism in the cell, the methods in this volume can also be applied out of the context of a virus infection. Divided into five convenient parts, this detailed volume reviews important basic concepts in the field of antiviral RNAi, provides experimental and bioinformatic tools for the analysis of small silencing RNAs, covers methods to biochemically dissect RNAi-based antiviral defense and viral counter-defense mechanisms, describes methods for the design, expression, and delivery of therapeutic antiviral siRNAs, and finally presents genome-wide RNAi approaches for the identification of factors involved in virus replication. Written in the highly successful *Methods in Molecular Biology*™ series format, chapters contain introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and accessible, *Antiviral RNAi: Concepts, Methods, and Applications* serves as an ideal guide for both novice and experienced researchers alike striving to dissect the role of RNAi in the viral life cycle or to further boost the development of novel therapeutics and experimental tools

based on RNAi technology.

World Congress on Medical Physics and Biomedical Engineering

September 7 - 12, 2009 Munich, Germany - Olaf Dössel 2010-01-06

Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering - the triennial scientific meeting of the IUPESM - is the world's leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open

new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in-depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich! Olaf Dössel Congress President Wolfgang C.