

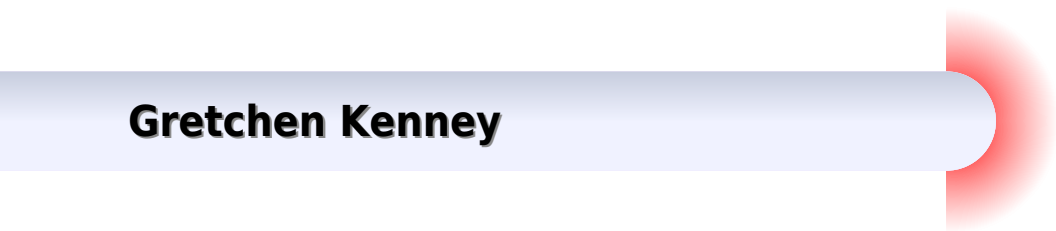
Mirjana Pavlovic · Bela Balint

Bioengineering and Cancer Stem Cell Concept

 Springer

Book And Bioengineering Concept Springerbriefs Computer Science

Gretchen Kenney



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Bioengineering Mirjana Pavlovic, 2014-10-10 This book explores critical principles and new concepts in bioengineering integrating the biological physical and chemical laws and principles that provide a foundation for the field Both biological and engineering perspectives are included with key topics such as the physical chemical properties of cells tissues and organs principles of molecules composition and interplay in physiological scenarios and the complex physiological functions of heart neuronal cells muscle cells and tissues Chapters evaluate the emerging fields of nanotechnology drug delivery concepts biomaterials and regenerative therapy The leading individuals and events are introduced along with their critical research Bioengineering A Conceptual Approach is a valuable resource for professionals or researchers interested in understanding the central elements of bioengineering Advanced level students in biomedical engineering and computer science will also find this book valuable as a secondary textbook or reference [Bioengineering and Cancer Stem Cell](#)

[Concept](#) Mirjana Pavlovic, Bela Balint, 2015-12-22 This book explores the role of cancer stem cells in the diagnosis treatment and cure of cancers This book also tackles novel methodology for cancer stem cell marker identification cancer stem cell respiration and metabolism genetic and epigenetic mechanisms including DNA methylation and mi RNA assemble It also emphasizes the role of Bioinformatics techniques which provide a novel methodology for modeling cancer outcomes The authors investigate the difference between cancer stem cells and normal stem cells along with the concept of targeted cancer stem cell therapy Although the theoretical explanations of cancer stem cell involvement in leukemia and solid cancers are controversial there is now little doubt that cancer stem cells exist within otherwise heterogeneous cancer cell population The brief examines the two leading theories hierarchical and the stochastic cancer stem cell model Researchers professors and advanced level students focused on bioengineering and computer science will find this book to be a valuable resource It is a very good source of critical references for understanding of this problem and a useful tool for professionals in related fields

[Differential Equations for Studies in Computational Electrophysiology](#) Karoline Hørgmo Jæger, Aslak Tveito, 2023-05-27 This open access text aims at giving you the simplest possible introduction to differential equations that are used in models of electrophysiology It covers models at several spatial and temporal scales with associated numerical methods The text demonstrates that a very limited number of fundamental techniques can be used to define numerical methods for equations ranging from ridiculously simple to extremely complex systems of partial differential equations Every method is implemented in Matlab and the codes are freely available online By using these codes the reader becomes familiar with classical models of electrophysiology like the cable equation the monodomain model and the bidomain model But modern models that have just started to gain attention in the field of computational electrophysiology are also presented If you just want to read one book it should probably not be this one but if you want a simple introduction to a complex field it is worth considering the present text **Nanozymes: Next Wave of Artificial Enzymes** Xiaoyu Wang, Wenjing Guo, Yihui Hu, Jiangjiexing Wu, Hui

Wei,2016-07-27 This book describes the fundamental concepts the latest developments and the outlook of the field of nanozymes i e the catalytic nanomaterials with enzymatic characteristics As one of today s most exciting fields nanozyme research lies at the interface of chemistry biology materials science and nanotechnology Each of the book s six chapters explores advances in nanozymes Following an introduction to the rise of nanozymes research in the course of research on natural enzymes and artificial enzymes in Chapter 1 Chapters 2 through 5 discuss different nanomaterials used to mimic various natural enzymes from carbon based and metal based nanomaterials to metal oxide based nanomaterials and other nanomaterials In each of these chapters the nanomaterials enzyme mimetic activities catalytic mechanisms and key applications are covered In closing Chapter 6 addresses the current challenges and outlines further directions for nanozymes Presenting extensive information on nanozymes and supplemented with a wealth of color illustrations and tables the book offers an ideal guide for readers from disparate areas including analytical chemistry materials science nanoscience and nanotechnology biomedical and clinical engineering environmental science and engineering green chemistry and novel catalysis

Scalable Big Data Analytics for Protein Bioinformatics Dariusz Mrozek,2018-09-25 This book presents a focus on proteins and their structures The text describes various scalable solutions for protein structure similarity searching carried out at main representation levels and for prediction of 3D structures of proteins Emphasis is placed on techniques that can be used to accelerate similarity searches and protein structure modeling processes The content of the book is divided into four parts The first part provides background information on proteins and their representation levels including a formal model of a 3D protein structure used in computational processes and a brief overview of the technologies used in the solutions presented in the book The second part of the book discusses Cloud services that are utilized in the development of scalable and reliable cloud applications for 3D protein structure similarity searching and protein structure prediction The third part of the book shows the utilization of scalable Big Data computational frameworks like Hadoop and Spark in massive 3D protein structure alignments and identification of intrinsically disordered regions in protein structures The fourth part of the book focuses on finding 3D protein structure similarities accelerated with the use of GPUs and the use of multithreading and relational databases for efficient approximate searching on protein secondary structures The book introduces advanced techniques and computational architectures that benefit from recent achievements in the field of computing and parallelism Recent developments in computer science have allowed algorithms previously considered too time consuming to now be efficiently used for applications in bioinformatics and the life sciences Given its depth of coverage the book will be of interest to researchers and software developers working in the fields of structural bioinformatics and biomedical databases

Brain-Computer Interface Research Christoph Guger,Brendan Z. Allison,Michael Tangermann,2021-04-01 The Annual BCI Research Awards are international prizes that recognize the top new projects in brain computer interface BCI research This book contains concise descriptions of projects nominated for the 2019 BCI Research Award and interviews with

nominees Each article is authored by the researchers who developed the project and articles have been updated with new progress achieved since their nomination These chapters are complemented by an introduction by the editors together with a concluding chapter that reviews the annual Awards Ceremony announces the winners and ends with a brief discussion One of the prominent trends in recent years has been the development of BCIs for new patient groups Many chapters in this book present emerging and novel research directions likely to become more prevalent in the near future This year's book includes chapters based on interviews with BCI experts who were nominated for an award including this year's first second and third place winners These interview chapters are generally less technical than project descriptions and provide individual perspectives from people actively working on new methods and systems *Spatial Audio* Woon Seng Gan, Jung-Woo Choi, 2018-03-23 This book is a printed edition of the Special Issue Spatial Audio that was published in Applied Sciences

Recent Developments in Smart Healthcare Wenbing Zhao, Xiong Luo, Tie Qiu, 2018-03-23 This book is a printed edition of the Special Issue Smart Healthcare that was published in Applied Sciences Cardiovascular Mechanics Michel Labrosse, 2018-09-13 The objective of this book is to illustrate in specific detail how cardiovascular mechanics stands as a common pillar supporting such different clinical successes as drugs for high blood pressure prosthetic heart valves and coronary artery bypass grafting among others This information is conveyed through a comprehensive treatment of the overarching principles and theories that are behind mechanobiological processes aortic and arterial mechanics atherosclerosis blood and microcirculation hear valve mechanics as well as medical devices and drugs Examines all major theoretical and practical aspects of mechanical forces related to the cardiovascular system Discusses a unique coverage of mechanical changes related to an aging cardiovascular system Provides an overview of experimental methods in cardiovascular mechanics Written by world class researchers from Canada the US and EU Extensive references are provided at the end of each chapter to enhance further study Michel R Labrosse is the founder of the Cardiovascular Mechanics Laboratory at the University of Ottawa where he is a full professor within the Department of Mechanical Engineering He has been an active researcher in academia along with being heavily associated with the University of Ottawa Heart Institute He has authored or co authored over 90 refereed communications and supervised or co supervised over 40 graduate students and post docs **Bioengineering** Mirjana Pavlovic, 2014-10-31 **Developing Biofuel Bioprocesses Using Systems and Synthetic Biology** Sylvia M. Clay, Stephen S. Fong, 2012-09-26 Advances in technological and analytical methods have fostered rapid growth of systems biology and synthetic biology There continues to be rapid changes and discoveries in both fields with a small number of recent peer reviewed reviews indicating some of the relationships between systems biology and synthetic biology This proposed SpringerBrief will cover core concepts of systems biology and synthetic biology and illustrate the implementation of associated research methodologies for an integrated approach to specifically address engineering microorganisms for biofuel production Target Detection and Tracking by Bionanosensor Networks Yutaka Okaie, Tadashi

Nakano,Takahiro Hara,Shojiro Nishio,2016-09-26 This book describes the main ideas methods results and resources relevant to the study of bionanosensor networks Its primary goal is to spark application oriented studies of molecular communication that is to investigate how collections of bionanosensors referred to here as bionanosensor networks can be used for practical purposes such as nanomedical sensing In particular the book focuses on two key functionalities for nanomedical applications target detection and target tracking Bionanosensor networks represent a new interdisciplinary research area that expands the traditional area of network engineering by incorporating the latest advances in bionanotechnology These networks consist of spatially distributed bionanosensors that are engineered with the help of bionanotechnology As a research area bionanosensor networks are aimed at designing robust networks on the basis of spatially distributed bionanosensors as well as at developing innovative applications of those networks *Bioengineering: Concepts and Applications* Gretchen Kenney,2019-06-28 Bioengineering is the integration of biology and engineering to develop usable products especially for use in diverse industrial sectors The field uses principles of fluid mechanics surface science mass transfer thermodynamics and polymer science among many others Bioengineering is also used to modify or control biological systems in order to sustain or predict chemical and mechanical processes Some of its prominent applications can be found in the designing of medical and diagnostic devices genetic modification biocatalysis biocompatible materials etc The ever growing need of advanced technology has fueled the research in the field of bioengineering in modern times This book covers in detail some existing theories and innovative concepts revolving around this field Some of the diverse topics covered herein address the varied branches that fall under this category Those in search of information to further their knowledge will be greatly assisted by this book **Synthetic Biology** Shailza Singh,2018-10-01 The book uses an integrated approach to predict the behavior of various biological interactions It further discusses how synthetic biology gathers the information about various systems in order to either devise an entirely new system or to modulate existing systems The book also tackles the concept of modularity where biological systems are visualized in terms of their parts The chapters discuss how the principles of engineering are being used in biomedical sciences to design biological circuits that can harbor multiple inputs and generate multiple outputs to create genetic networks and control gene activity in order to generate a desired response The book aims to help the readers develop an array of biological parts and to use these parts to develop synthetic circuits that can be assembled like electronic circuits The ultimate aim of the book will be to serve as an amalgamation of key ideas of how judiciously synthetic biology could be exploited in therapeutic device and delivery mechanism *Recent Developments and Achievements in Biocybernetics and Biomedical Engineering* Piotr Augustyniak,Roman Maniewski,Ryszard Tadeusiewicz,2017-08-20 This book presents the best 27 papers from the 20th Polish Conference on Biocybernetics and Biomedical Engineering PCBBE hosted by the AGH University of Science and Technology in Krakow This biannual event has been held for nearly four decades and offers scientists and professionals from the fields of engineering medicine physics and computer science an excellent

platform for exchanging ideas Biocybernetics and biomedical engineering is currently considered a promising approach to improving healthcare and consequently quality of life Innovative technical solutions not only respond to the needs of caregivers but also stimulate the development of medical sciences by supporting medical practitioners and we are currently witnessing a profound change of the role of medicine that has become ubiquitous in everyday life thanks to recent technological advances The development of civilization manifests itself in a growing focus on investigating the secrets of the human life continuous efforts to support life and mimicking biological systems in engineering Presenting the latest developments in all areas of biomedical engineering the book is a valuable resource for researchers and scientists in the field

Concepts in Bioscience Engineering Richard Dods, 2020-02-21 This textbook teaches bioengineers critical concepts about protein three dimensional structures how proteins fold and how the folding affects the functioning of the protein Protein folding has profound effects on the discovery of biopharmaceutical drugs especially the transport of immunological compounds to their site of action as well as on tissue engineering Dr Dods covers topics in easily understood terms through the use of glossaries heading each chapter and footnotes and summaries at the end of each chapter The chapters cover disordered proteins and large sequences of disorder that exists within proteins secondary structure helix and pleated structure tertiary and quaternary structure post translational changes proteopathies bioengineering approaches used to study protein folding and computer software for protein folding For each of these topics the elements of biomolecular imaging cellular and tissue engineering and health care systems engineering are built Molecular engineering concepts such as site directed mutagenesis are addressed For reinforcement of the concepts presented in this text activities and problems Queries are included in the chapter

Systems and Synthetic Biology Vikram Singh, Pawan K. Dhar, 2014-12-15 This textbook has been conceptualized to provide a detailed description of the various aspects of Systems and Synthetic Biology keeping the requirements of M Sc and Ph D students in mind Also it is hoped that this book will mentor young scientists who are willing to contribute to this area but do not know from where to begin The book has been divided into two sections The first section will deal with systems biology in terms of the foundational understanding highlighting issues in biological complexity methods of analysis and various aspects of modelling The second section deals with the engineering concepts design strategies of the biological systems ranging from simple DNA RNA fragments switches and oscillators molecular pathways to a complete synthetic cell will be described Finally the book will offer expert opinions in legal safety security and social issues to present a well balanced information both for students and scientists

Open Source Biomedical Engineering Hugo Plácido da Silva, Patrícia Justo Bota, Ana Sofia Cacaís do Carmo, 2025-11-12 This book provides a practical end to end approach to open source technology in biomedical engineering covering topics that range from hardware and software design to data acquisition processing tools and cloud based storage Biomedical device conceptualization design of experimental evaluation studies and moving from early stage prototypes to shelve worthy products benefiting from open

source technologies are also covered The technical chapters are complemented by working examples and address problems that new entrants and professionals encounter when developing work in biomedical engineering human computer interaction physiological computing psychophysiology physiotherapy and related areas The book is enriched by case studies where open source technologies have been successfully used to accelerate new developments in biomedical engineering Contributions are rooted in the state of the art and latest advances in hardware platforms Python for the signal processing and analysis components and web based technologies for the user interface components Provides hardware software and product design guidelines Includes source code case studies and application examples Accessible to a broad audience interested in moving quickly from a biomedical idea to a solution

Computational Bioengineering Guigen Zhang, 2015-04-01 Arguably the first book of its kind Computational Bioengineering explores the power of multidisciplinary computer modeling in bioengineering Written by experts the book examines the interplay of multiple governing principles underlying common biomedical devices and problems bolstered by case studies It shows you how to take advantage of the la

Advances in Bioengineering and Clinical Engineering Fernando Emilio Ballina, Ricardo Armentano, Rubén Carlos Acevedo, Gustavo Javier Meschino, 2024-05-30 This book offers a timely snapshot of research technologies and best practices in the broad area of bioengineering and clinical engineering It reports on advances in biomechanics biomedical image processing biomaterials and tissue engineering Further it covers applications of artificial intelligence in biology and medicine and instrumentation Gathering the first volume of the proceedings of the XXIV Argentinian Congress of Bioengineering SABI 2023 held on October 3 6 2023 in Buenos Aires Argentina and organised by the Sociedad Argentina de Bioingenier a this book provides an extensive source of information for both researchers and professionals in biomedical and clinical engineering

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