

Designer Genes A New Era In The Evolution Of Man

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Physics in a New Era - National Research Council 2001-07-15

Physics at the beginning of the twenty-first century has reached new levels of accomplishment and impact in a society and nation that are changing rapidly. Accomplishments have led us into the information age and fueled broad technological and economic development. The pace of discovery is quickening and stronger links with other fields such as the biological sciences are being developed. The intellectual reach has never been greater, and the questions being asked are more ambitious than ever before. Physics in a New Era is the final report of the NRC's six-volume decadal physics survey. The book reviews the frontiers of physics research, examines the role of physics in our society, and makes recommendations designed to strengthen physics and its ability to serve important needs such as national security, the economy, information technology, and education.

Opportunities in Chemistry - Division on Engineering and Physical Sciences 1987-02-01

Experts agree that the nation would benefit if more young people "turned on" to the sciences. This book is designed as a tool to do just that. It is based on *Opportunities in Chemistry*, a National Research Council publication that incorporated the contributions of 350 researchers

working at the frontiers of the field. Chemistry educators Janice A. Coonrod and the late George C. Pimentel revised the material to capture the interest of today's student. A broad and highly readable survey, the volume explores: The role of chemistry in attacking major problems in environmental quality, food production, energy, health, and other important areas. Opportunities at the leading edge of chemistry, in controlling basic chemical reactions and working at the molecular level. Working with lasers, molecular beams, and other sophisticated measurement techniques and tools available to chemistry researchers. The book concludes with a discussion of chemistry's role in society's risk-benefit decisions and a review of career and educational opportunities.

Designer Genes - Steven Potter 2010

An expert in human gene modification and research explores the ethical questions surrounding science's new power to guide the genetic destiny of humanity.

The Microbes Fight Back - Laura Bowater 2017-10-25

Antibiotics are familiar drugs to us all, so familiar that we may take them for granted. They allow us to survive life-threatening infections, and allow us to protect the animals we farm for food. Many antibiotics have now become ineffective against common diseases, and there are few

alternative treatments to replace them. In this topical popular science book, Laura Bowater, Professor of Microbiology Education and Engagement at Norwich Medical School, considers the past, present and uncertain future of antibiotics. This book begins by looking back at how infectious diseases, such as smallpox and the plague, were able to wreak havoc on populations before the discovery of the first antibiotics. These then revolutionised the medical world. In an engaging and accessible style, Professor Bowater takes the reader through how antibiotics are made, how bacteria are able to mutate and develop resistance and she explains why there is now a lack of new antibiotic drugs coming to market. What will a future of continued antibiotic resistance look like? How can human activities prevent the rise of 'superbugs'? Professor Bowater highlights the need for universal cooperation in order to tackle this global health challenge, which, if not addressed, could transport us back to the medical dark ages.

Introduction to Protein Structure - Carl Ivar Branden 2012-03-26

The VitalBook e-book of Introduction to Protein Structure, Second Edition is only available in the US and Canada at the present time. To purchase or rent please visit

<http://store.vitalsource.com/show/9780815323051> Introduction to Protein Structure provides an account of the principles of protein structure, with examples of key proteins in their bio

Legumes in the Omic Era - Sanjeev Gupta 2013-11-19

Legumes in the Omic Era provides a timely review of recent advances in legume genomics research and application. In this post-genomic era enormous amount of biological information is available which could be of huge potential use for crop improvement applications. This aspect of genomics assisted plant breeding is focused throughout the book for all the important grain legume crops. Role of functional genomics and importance of bioinformatics tools in present day genomics and molecular breeding research is also discussed in detail. Use of molecular tools for nutritional fortification of grain legume is briefly presented. A chapter also been contributed on fungal disease resistance to elucidate potential application of genomic tools in molecular breeding of grain

legume species. The book contains fifteen chapters contributed by 50 scientists from different countries who are actively involved in analyzing and improving particular legume genome. This book will serve as reference resource to legumes researchers for use of genome information in improvement of major legume crops. Dr Sanjeev Gupta is Principal Scientist/Project Coordinator-All India Coordinated Research Project on Vigna Crops at Indian Institute of Pulses Research (IIPR), Kanpur. He has more than two decades of research experience in grain legume breeding and developed a number of high yielding cultivars in grain legumes. He is authored numerous research papers published in peer-reviewed journals and edited several books in plant breeding aspects. He was the Organizing Secretary of the International Grain Legume Conference, 2009 held in the Indian Institute of Pulses Research, Kanpur, India. He has travelled across the continents to present his research several times. He is recipient of several awards for his research and literary contributions Dr. Nagasamy Nadarajan is the Director of the Indian Institute of Pulses Research (IIPR), Kanpur. He has more than three decades of teaching and research experience and developed more than fifteen legume and cereal cultivars. He has to his credits more than 200 peer-reviewed research publications. He has guided several graduate students for Masters and Doctoral degrees in food legume breeding and genetics research. He has authored a book in biometrics which is one of the most popular books among the agriculture graduate students in India. He is the recipient of three international and six national awards and honours for his outstanding contributions Mr. Debjyoti Sen Gupta is the ICAR International Fellow and Ph.D. candidate at North Dakota State University (NDSU), Fargo, USA. Recently, he visited Department of Crop and Soil Sciences, Washington State University, Pullman, USA for high throughput genotyping work. Before joining at NDSU he was serving as the Scientist in the Indian Institute of Pulses Research (IIPR). He has authored several research articles, review articles and book chapters in the peer-reviewed journals and books from reputed publishers like Springer, CABI etc. He is recipient of several fellowships like CSIR-JRF, New Delhi; ICAR-JRF, New Delhi

transformed human cells. Genes and environmental factors that influence the origins of cancer are not necessarily the same as those that contribute to its progression and metastasis. Susceptibility gene variants for each specific cancer are being identified with emerging evidence of gene-environment interaction. Gene-environment interactions will be discussed through each specific cancer-based approach to address the question of how genetic variations can influence susceptibility to the individual type of cancer. It will also highlight and summarize epigenetic changes that increase the risk for susceptibility to a particular type of cancer, particularly in the presence of specific environmental factors. Thus, this book will contain chapters from the world's experts focused on the current evidences that support the role of environment in the cancer etiology and in the growth of malignant lesions, and discuss who may be susceptible to environmental influences.

Reproductive Barriers and Gene Introgression in Rice Species, Volume II - Yohei Koide 2022-08-25

Multiple Myeloma - A New Era of Treatment Strategies - Klaus Podar 2012-01-03

"Multiple Myeloma (MM), the second most common blood cancer in adults, is a clonal plasma cell malignancy within the bone marrow characterized by osteolytic bone lesions, renal disease, and immunodeficiency. It is now well established that MM cell- induced" *Gene Family Targeted Molecular Design* - Karen Lackey 2008-12-01
As research progresses and information continues to proliferate in the field of molecular design for therapeutic use, there is a need for a reference that brings current theory and proven practice together in a how-to volume. This reference guides scientists new to the field on how to design small molecules that interact with critical protein targets. The chapters condense useful material into a manageable format which is carefully organized and presented. It offers an essential resource for a variety of chemists in academia, and the biotech and pharmaceutical industries, as well as professionals in complementary fields.

AIDS and the Doctors of Death - Alan Cantwell 1988

The Phoenix Project - Harry Braun 2000

Braun proposes to shift investments from oil, natural gas, coal, and nuclear fuels to renewable hydrogen systems that are inexhaustible, pollution-free, and can make the U.S. energy independent.

Ecotoxicity and Human Health - Arthur D. Bloom 1995-10-09

Ecotoxicity and Human Health emphasizes the relationships between toxicity, ecological systems, and human health. It focuses on the extent and nature of hazardous waste sites and how their effects may be studied in humans and other systems, using in vitro models, biomarkers of cellular and molecular damage, and animal models. It also includes considerable information on bioremediation, legal and regulatory issues, public perceptions and societal responses, quantitative modeling and analysis, and international directives. One of the unique features of Ecotoxicity and Human Health is its coverage of the legislative actions that have occurred over the past two decades and which have most affected the issue of hazardous waste. The book discusses the Superfund Statute, the Resource Conservation and Recovery Act (RCRA), the Toxic Substances Control Act (TSCA), the Ocean Dumping Act of 1972, the Rio Conference, United Nations Declarations, EC Regulations and Directives, and selected state legislation.

Biosensors - Donald G. Buerk 1995-08-24

This introductory text covers in detail the technology and applications of biosensors in their many forms. It provides an extensive survey of the basic principles, functions and applications of different categories of biosensors. The presentation is concise, systematic and well illustrated. Numerous schematics illustrate design and function. This book is an overview of the basic theories of operation for a number of specific types of biosensor transducers that have been investigated, with a general survey of some of the many applications using various biological elements that have been tested to date. A major portion of this book has been devoted to electrochemical transducers, since they have been most widely used. This bestselling text provides basic information for all those involved in the research, development, and applications of biosensors.

Angus Legends - Tom Burke 2005

The Media - Daniele Albertazzi 2013-09-13

Today, arguably more than at any time in the past, media are the key players in contributing to what defines reality for the citizens of Europe and beyond. This book provides an introduction to the way that the media occupy such a position of prominence in contemporary human existence. This expanded and fully updated third edition of the bestselling *The Media: An Introduction* collects in one volume thirty-six specially commissioned essays to offer unrivalled breadth and depth for an introduction to the study of contemporary media. It addresses the fundamental questions about today's media - for example, digitisation and its effects, new distribution technologies, and the implications of convergence, all set against the backdrop of a period of profound social and economic change in Europe and globally. Key features: Expert contributions on each topic Approachable, authoritative contributions provide a solid theoretical overview of the media industry and comprehensive empirical guide to the institutions that make up the media. Further Reading and related web-resource listings encourage further study. New to this edition: New five part structure provides a broad and coherent approach to media: Part 1 Understanding the Media; Part 2 What Are the Media?; Part 3 The Media Environment; Part 4 Audiences, Influences and Effects; Part 5 Media Representations. Brand new chapters on: Approaches to Media; Media Form; Models of Media Institutions; The Media in Europe; Photography; Book Publishing; Newspapers; Magazines; Radio; Television; The Internet and the Web; News Media; Economics; Policy; Public Service Broadcasting in Europe; Censorship and Freedom of Speech; Audience Research; Sexualities; Gender; Social Class; Media and Religion; The Body, Health and Illness; Nationality and Sex Acts. Other chapter topics from the last edition fully updated A wider, more comparative focus on Europe. *The Media: An Introduction* will be essential reading for undergraduate and postgraduate students of media studies, cultural studies, communication studies, journalism, film studies, the sociology of the media, popular culture and other related subjects.

Global Issues - CQ Researcher, 2016-05-24

CQ Researcher's Global Issues offers an in-depth and nuanced look at a wide range of today's most pressing issues. The 2016 edition of this annual reader looks at topics such as the European migration crisis, terrorism in Africa, emerging infectious diseases, robotic warfare, and restoring ties with Cuba. And because it's CQ Researcher, the reports are expertly researched and written. Each chapter identifies the key players, explores what's at stake, and offers the background and analysis necessary to understand how past and current developments impact the future of each issue.

Drug Design - Arli Aditya Parikesit 2021-06-16

Right before the COVID-19 pandemic declared by the World Health Organization (WHO), life sciences have incited novel areas of studies that revolutionize the health sector. They are the studies of structural bioinformatics, pharmacogenomics, and metabolomics. The structural bioinformatics field is the very foundation of drug design research, as it provides insight into the molecular simulations and interactions between the biomolecules and the drug candidates. Secondly, pharmacogenomics is the starting point of any efforts in developing personalized medicine. Lastly, metabolomics provides instrumentation to elicit biomarkers for various diseases and health conditions. These studies have enabled current accelerated effort in COVID-19 research, as well as other communicable and non-communicable diseases.

Genetically Modified Crops and Food Security - Jasmeet Kour 2022-11-18

This book reviews a wide-range of genetically modified (GM) crops to understand how they are produced, the impacts on the agricultural industry, and their potential for improving food security. The production of GM crops has now become an invaluable asset in the agricultural toolbox. With a significant portion of the world suffering from hunger and poverty, this book examines how food security can be achieved through GM crops. A wide variety of crops are examined, from the earliest developments of GM tomatoes and potatoes to recent interest in the development of low-cost, high yielding biofuels, such as microalgae. Chapters also discuss the role of GM crops in pest management and the

consequential reduction in the use of insecticides. Overall, this book provides an important synthesis of GM crops from their commercial value to the agricultural industry, as well as their potential for improving food security. This book will be of great interest to students and scholars of agricultural engineering, crop science, food biotechnology, food security, and those interested in food and agriculture and sustainable development more broadly.

Development of Therapeutic Agents Handbook - Shayne Cox Gad
2011-10-24

A comprehensive look at current drug discovery and development methods—and the roadmap for the future Providing both understanding and guidance in characterizing potential drugs and their production and synthesis, *Development of Therapeutic Agents Handbook* gives professionals a basic tool to facilitate research and development within this challenging process. This comprehensive text brings together, in one resource, a compendium of concepts, approaches, methodologies, and limitations that need to be considered in the formulation of therapeutic agents across a range of therapeutic fields. Both a reference and a call to action for the pharmaceutical industry, *Development of Therapeutic Agents Handbook* examines recent innovations taking shape in the various medical disciplines involved in drug discovery, and shows why these advances need to be embraced universally among researchers to improve their solution strategies. Additional subject matter includes: Extensive coverage and in-depth look into novel treatments and therapeutics Discussion of hot topics like new drugs and nutraceuticals, the discovery and development of vaccines, cancer therapeutics, and market overviews Coverage of therapeutic drug development for specific disease areas, such as cardiology, oncology, breast cancer, and kidney diseases As research in biology, chemistry, medicine, and technology rapidly progresses, it is becoming increasingly important for medical researchers to maintain an up-to-date knowledge base of emerging trends directing promising new therapies. *Development of Therapeutic Agents Handbook* serves this purpose, acting as both a one-stop reference rich in valid science, and a tool to carve out new pathways in

the pursuit of bringing safer and more effective drugs to the marketplace.

Design by Evolution - Philip F. Hingston 2008-09-30

Evolution is Nature's design process. The natural world is full of wonderful examples of its successes, from engineering design feats such as powered flight, to the design of complex optical systems such as the mammalian eye, to the merely stunningly beautiful designs of orchids or birds of paradise. With increasing computational power, we are now able to simulate this process with greater fidelity, combining complex simulations with high-performance evolutionary algorithms to tackle problems that used to be impractical. This book showcases the state of the art in evolutionary algorithms for design. The chapters are organized by experts in the following fields: evolutionary design and "intelligent design" in biology, art, computational embryogeny, and engineering. The book will be of interest to researchers, practitioners and graduate students in natural computing, engineering design, biology and the creative arts.

America's Good News Almanac - Bill Bailey 1996

An optimistic collection of true stories that encompass everyday heroes, healthy corporations, exceptional children and seniors, positive politicians, and more

Bioinspired Structures and Design - Wole Soboyejo 2020-09-17

Master simple to advanced biomaterials and structures with this essential text. Featuring topics ranging from bionanoengineered materials to bio-inspired structures for spacecraft and bio-inspired robots, and covering issues such as motility, sensing, control and morphology, this highly illustrated text walks the reader through key scientific and practical engineering principles, discussing properties, applications and design. Presenting case studies for the design of materials and structures at the nano, micro, meso and macro-scales, and written by some of the leading experts on the subject, this is the ideal introduction to this emerging field for students in engineering and science as well as researchers.

Science and Technology Resources - James E. Bobick 2011

An indispensable resource for anyone wanting to create, maintain, improve, understand, or use the diverse information resources within a sci-tech library. * Over 80 screenshots of electronic information resource tools designed for the engineer and scientist; page reproductions from print sources and illustrations from scholarly journal articles and monographs are also included * Each chapter concludes with a comprehensive list of additional resources for further research * Approximately 30 discipline-specific subject bibliographies in the appendix section act as indispensable guides for developing library collections, as well as for compiling introductory textbooks appropriate for library science students * Included pathfinders provide expert guides for targeted online research * Corresponding instructor exercises are available at the publisher's website
Cumulated Index Medicus - 1982

Second Generation Cell and Gene-Based Therapies - Alain Vertes
2020-02-07

Second Generation Cell and Gene-Based Therapies: Biological Advances, Clinical Outcomes, and Strategies for Capitalisation serves as the only volume to the market to bridge basic science, clinical therapy, technology development, and business in the field of cellular therapy/cytotherapy. After more than two decades of painstaking fundamental research, the concept of therapeutic cells (stem cells, genes, etc.), beyond the concept of vaccines, is reaching clinical trial, with mounting confidence in the safety and efficacy of these products. Nonetheless, numerous incremental technical advances remain to be achieved. Thus, this volume highlights the possible R&D paths, which will ultimately facilitate clinical delivery of cutting edge curative products. The next waves of innovation are reviewed in depth for hematopoietic stem cells, mesenchymal stem cells, tissue engineering, CAR-T cells, and cells of the immune system, as well as for enabling technologies such as gene and genome editing. Additionally, deep dives in product fundamentals, history of science, pathobiology of diseases, scientific and technological bases, and financing and technology adoption

constraints are taken to unravel what will shape the cytotherapy industry to the horizon 2025 and beyond. The outcome is not simply a scientific book, but a global perspective on the nascent field combining science, business, and strategic fundamentals. Helps readers learn about the most current trends in cell-based therapy, their overall effectiveness from a clinical prospective, and how the industry is moving therapies forward for capitalization "Perspectives" section at the end of each chapter summarizes key learnings, hypotheses, and objectives highlighted and combines scientific and business insights Edited and authored by scientists representing both basic and clinical research and industry, presenting a complete story of the current state and future promise of cellular therapies

Genetic Engineering - Susan Henneberg 2016-12-15

As scientists continue to make genetic breakthroughs, society inches ever closer to confronting the stuff horror movies are made of. Cloning a mourned pet is simply strange, but the thought of human cloning is terrifying. Manipulating genes to reduce genetic disease is encouraging only until we consider the ethical implications of potentially creating a master race. Genetically engineering crops and animals can address many problems like disease, climate change, and world hunger, but altering the environment could have catastrophic results for Earth. Articles presenting these issues from persuasive points of view help readers understanding the controversies surrounding genetic engineering today.

High Tech Harvest - Paul Lurquin 2007-10-15

Genetically engineered plant products line the shelves of our grocery stores but we don't know which ones they are because no label identifies them. Should we be concerned? Biotech companies claim that engineered corn and canola are safe, but are they telling the truth? Should we, like the Europeans, be engaging in violent protests against biotechnology? In High Tech Harvest , Paul Lurquin answers these questions and more, believing that the public has a right to know and understand how its food is manipulated at the most basic level, that of the DNA itself. With the goal to inform, and a mission to reinforce the

importance of the scientific method, Paul Lurquin writes a comprehensive and user-friendly description of the scientific origins, the development, and the applications of genetically modified plants throughout the world today.

Quick Guideline for Computational Drug Design (Revised Edition)

- Sheikh Arslan Sehgal 2021-09-16

Bioinformatics allows researchers to answer biological questions with advanced computational methods which involves the application of statistics and mathematical modeling. Structural bioinformatics enables the prediction and analysis of 3D structures of macromolecules while Computer Aided Drug Designing (CADD) assists scientists to design effective active molecules against diseases. However, the concepts in structural bioinformatics and CADD can be complex to understand for students and educated laymen. This quick guideline is intended as a basic manual for beginner students and instructors involved in bioinformatics and computational chemistry courses. Readers will learn the basics of structural bioinformatics, primary and secondary analysis and prediction, structural visualization, structural analysis and molecular docking. The book provides the reader an easy to read summary of the tools and techniques in structural bioinformatics as well as their limitations. In this revised edition, the authors have updated information in a number of chapters with a specific focus on the section on protein structure visualization and evaluation. Additional information on protein-ligand interaction studies has also been provided in this new edition. Therefore, the book is a useful handbook for aspiring scholars who wish to learn the basic concepts in computational analysis of biomolecules.

UCSF Magazine - 1982

Species, Serpents, Spirits, and Skulls - Sherrie Lynne Lyons 2010-07-02

Explores the distinctions between science and pseudoscience.

Let Me Explain - David G. Fubini 2015-06-01

There is no necessary relationship between fame and power, and great influence is often wielded in willful obscurity. So it was with the irascible, indomitable Eugene Fubini. A physics prodigy who fled Italy

when the fascists came to power, his searing intelligence and relentless determination lifted him from obscurity to the highest levels of the Pentagon. Indifferent to anything but results, Fubini worked behind the scenes to shape the strategy and substance of his adopted country's post-World War II defense. Along the way he exerted enormous influence over the development of radar, the rise of the military-industrial complex, the Space Race, and many of the other signature events and movements of mid-twentieth-century American geopolitics. Forewords by Harold Brown, PhD, Former United States Secretary of Defense, and William James Perry, PhD, Former United States Secretary of Defense.

New Genetics, New Social Formations - Peter Glasner 2006-12-15

New genetic technologies cut across a range of public regulatory domains and private lifeworlds, often appearing to generate an institutional void in response to the complex challenges they pose. As a result, a number of new social formations are being developed to legitimate public engagement and avoid the perceived democratic deficit that may result. Papers in this volume discuss a variety of these manifestations in a global context, including: genetic data banks committees of inquiry non-governmental organisations (NGOs) national research laboratories. These institutions, across both health and agriculture, are explored in such diverse locations as Amazonia, China, Finland, Israel, the UK and the USA. This volume exhibits a clear thematic coherence around the impact of the new genetics and their associated technologies on new social formations, and the case studies included have a significant international focus, showing a balance between theoretical and empirical approaches in this rapidly changing field. This innovative new volume will be of interest to postgraduates and professionals in the fields of sociology, social anthropology, science and technology studies, and environmental studies.

The Ethics of Knowledge Creation - Lisette Josephides 2017-06-01

Anthropology lies at the heart of the human sciences, tackling questions having to do with the foundations, ethics, and deployment of the knowledge crucial to human lives. The Ethics of Knowledge Creation focuses on how knowledge is relationally created, how local knowledge

can be transmuted into 'universal knowledge', and how the transaction and consumption of knowledge also monitors its subsequent production. This volume examines the ethical implications of various kinds of relations that are created in the process of 'transacting knowledge' and investigates how these transactions are also situated according to broader contradictions or synergies between ethical, epistemological, and political concerns.

Hunting Down Social Darwinism - Stuart K. Hayashi 2015-02-17

Hunting Down Social Darwinism is the third and final installment in the trilogy, *The Nature of Liberty*. The trilogy gives a secular, ethical defense of laissez-faire capitalism, inspired by Ayn Rand's ideas. The trilogy's first book, *The Freedom of Peaceful Action*, provided the philosophic theory behind the ethics of a free-enterprise system based on the individual rights to life, liberty, and private property which John Locke described. The second installment, *Life in the Market Ecosystem*, explained how free enterprise functions much as a natural ecosystem wherein behavioral norms develop, bottom-up, from repeat interactions among individual participants in the economy. As such defenses of free enterprise are frequently criticized as "social Darwinism," however, this third and final installment of the trilogy asks the question, "What is social Darwinism?" The book embarks on a hunt for the term's meaning, explores social Darwinism's beginnings, and examines whether it is fair to describe such nineteenth-century free-market advocates as Herbert Spencer and William Graham Sumner as social Darwinists. It then addresses the accusation that the free-market Darwinism commonly

ascribed to Spencer and Sumner rationalized bigotry and founded the pseudoscience of eugenics. In the process, the book refutes various myths about the topic popularized by such scholars as Richard Hofstadter and John Kenneth Galbraith. The extent to which the popular narratives about social Darwinism prove to be inaccurate holds enormous ramifications for current controversies. It has implications for debates over the ethical appropriateness of reducing taxpayer spending on social welfare programs, and also sheds new light on the pros and cons of attempts to apply biological evolutionary theory to the study of human social institutions. Additionally discussed is the manner in which various prominent figures in economics, evolutionary psychology, and Complexity Theory have grown famous for advancing ideas which Spencer and Sumner originated, even as such figures simultaneously downplay the importance of Spencer and Sumner to their field. Following the hunt for social Darwinism, this work sums up the trilogy with some final thoughts on the importance that liberty holds for every effort to live life to the fullest.

Advanced Genetics - Gurbachan S. Miglani 2002-08-26

An advanced level volume for postgraduate students and researchers of genetics, cytogenetics biotechnology, biosciences, botany, and zoology which provides detailed coverage of mendelian, molecular, biochemical, immuno, human, mutagenesis, and evolutionary genetics. Concepts, principles and phenomena of genetics have been explained with the help of tables and figures including references, questions and numerical problems at the end of each chapter.