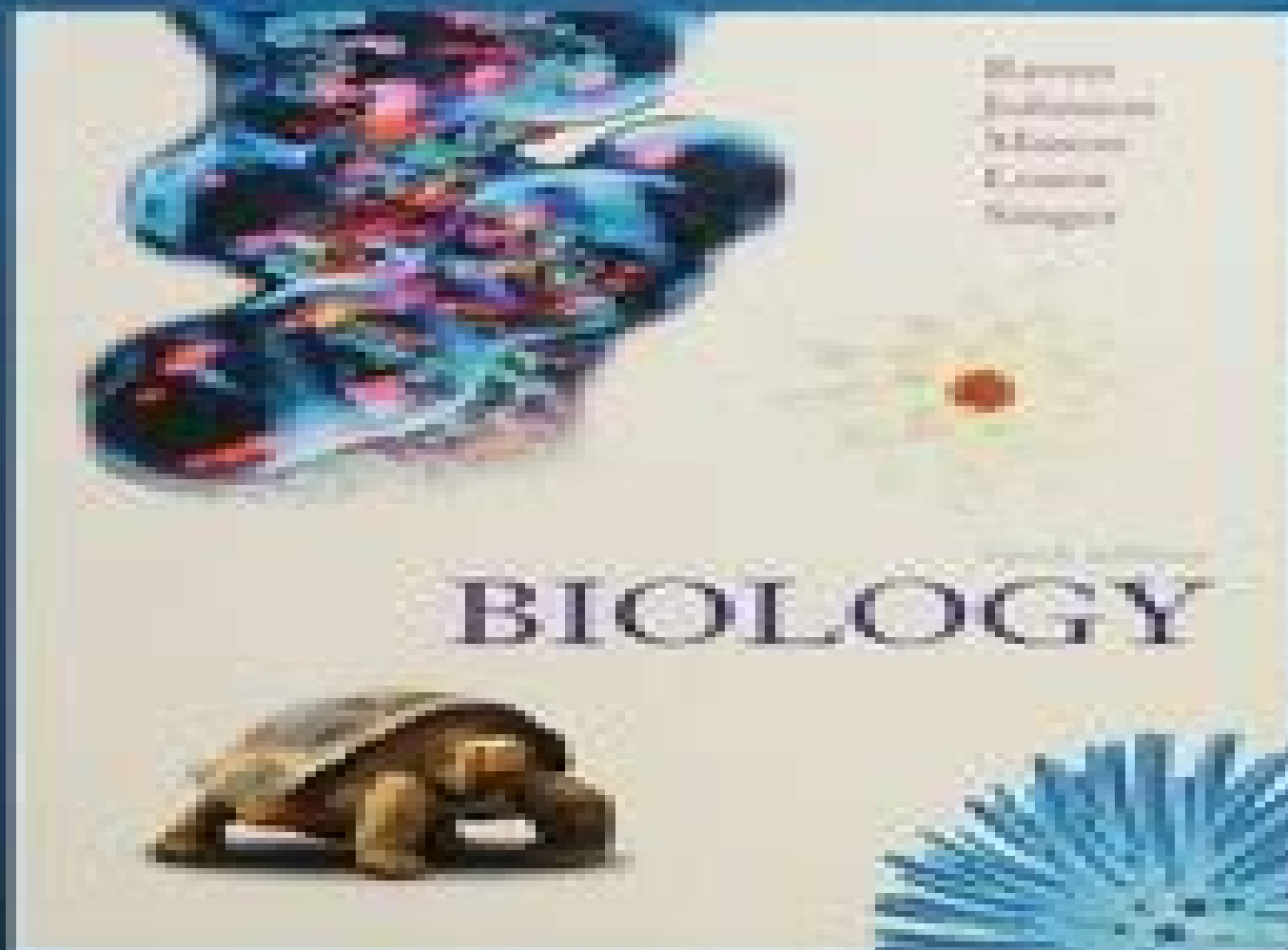




Biology Customized

Ying-Ying Zheng



Biology Customized:

The Customization of Science S. Fuller, M. Stenmark, U. Zackariasson, 2014-07-23 This collection explores whether and how religious and secular worldviews and political ideologies held by scientists citizens decision makers and politicians influence science as practiced and understood today Contributors explore the social and scientific repercussions of customizing science to fit the needs and interests of various groups

AI-Driven Personalized Healthcare Solutions
Chemingui, Houssein, Lamoumi, Meriam, 2025-02-27 AI driven personalized healthcare solutions transform approaches to medical treatment by personalizing care to the needs of individuals Utilizing advanced algorithms machine learning and large amounts of patient data AI enables more accurate diagnoses predictive analytics and customized treatment plans This approach allows for early detection of diseases enhanced monitoring of chronic conditions and the ability to create precision medicine strategies specific to each patient's genetics lifestyle and health Further research may encourage efficient effective and patient centered care improving outcomes and reducing healthcare costs AI Driven Personalized Healthcare Solutions explores the transformative role of AI in revolutionizing healthcare and medicine It delves into the cutting edge technologies applications and ethical considerations surrounding AI driven healthcare solutions from diagnosis and treatment to personalized medicine and patient care This book covers topics such as telemedicine disease detection and healthcare monitoring and is a useful resource for computer engineers healthcare professionals scientists academicians and researchers

Think, Learn, Succeed Dr. Caroline Leaf, 2018-08-07 Our thought lives have incredible power over our mental emotional and even physical well being In fact our thoughts can either limit us to what we believe we can do or release us to experience abilities well beyond our expectations When we choose a mindset that extends our abilities rather than placing limits on ourselves we will experience greater intellectual satisfaction emotional control and physical health The only question is how Backed by up to date scientific research and biblical insight Dr Caroline Leaf empowers readers to take control of their thoughts in order to take control of their lives In this practical book readers will learn to use The 5 step Switch on Your Brain Learning Program to build memory and learn effectively The Gift Profile to discover the unique way they process information The Mindfulness Guide to optimize their thought life and find their inner resilience Dr Leaf shows readers how to combine these powerful tools in order to improve memory learning cognitive and intellectual performance work performance physical performance relationships emotional health and most importantly a meaningful life well lived Each of us has significant psychological resources at our fingertips that we can use in order to improve our overall well being Dr Leaf shows us how to harness those resources to unlock our hidden potential

New Frontiers and Applications of Synthetic Biology Vijai Singh, 2022-01-12 New Frontiers and Applications of Synthetic Biology presents a collection of chapters from eminent synthetic biologists across the globe who have established experience and expertise working with synthetic biology This book offers several important areas of synthetic biology which allow us to read and understand easily

It covers the introduction of synthetic biology and design of promoter new DNA synthesis and sequencing technology genome assembly minimal cells small synthetic RNA directed evolution protein engineering computational tools de novo synthesis phage engineering a sensor for microorganisms next generation diagnostic tools CRISPR Cas systems and more This book is a good source for not only researchers in designing synthetic biology but also for researchers students synthetic biologists metabolic engineers genome engineers clinicians industrialists stakeholders and policymakers interested in harnessing the potential of synthetic biology in many areas Offers basic understanding and knowledge in several aspects of synthetic biology Covers state of the art tools and technologies of synthetic biology including promoter design DNA synthesis DNA sequencing genome design directed evolution protein engineering computational tools phage design CRISPR Cas systems and more Discusses the applications of synthetic biology for smart drugs vaccines therapeutics drug discovery self assembled materials cell free systems microfluidics and more

Sustainable Bio-Based Composites Arbind Prasad,Gourhari Chakraborty,J. Paulo Davim,2024-09-02

The sustainability of any process lies in the eco friendly and economical production of products for applications Bio based materials are emerging as raw materials for different products and applications The book covers cellulose chitosan silk collagen and gelatin bio based materials It describes their use in biomedical applications such as orthopaedic implant drug delivery tissue culture biosensor and engineering applications such as fuel cells energy storage and packaging It concludes with the use of bio based materials as precursors for biorefinery biolubricants membranes and adsorbents

Bio-Engineering Breakthroughs: Creating Sustainable Alternatives Ahmed Musa ,2025-01-03 Explore the cutting edge world of bio engineering in Bio Engineering Breakthroughs Creating Sustainable Alternatives This transformative book unveils how scientific ingenuity is revolutionizing industries by developing eco friendly solutions to some of the world s most pressing challenges From lab grown meat and biodegradable plastics to biofuels and synthetic biology this book highlights groundbreaking innovations that are reshaping agriculture energy healthcare and manufacturing Learn how bio engineering is harnessing the power of nature like microorganisms plants and cells to create sustainable alternatives that reduce environmental impact while meeting global demands Through compelling case studies expert insights and a deep dive into the ethical and societal implications of these advancements Bio Engineering Breakthroughs offers a comprehensive look at how science is paving the way for a greener future It also explores how these technologies are being scaled for global adoption and what this means for businesses consumers and the planet Ideal for scientists entrepreneurs and sustainability advocates this book is both an educational resource and an inspiring call to action Discover the incredible potential of bio engineering to drive innovation and create a more sustainable resilient world

Oral Biology Gregory J. Seymour,Mary P. Cullinan,Nicholas C.K. Heng,Paul R. Cooper,2022-11-23 This fully revised new edition explores advances in the prevention and treatment of oral diseases Beyond the updated chapters the book delves into regenerative biology gene editing and the use of CRISPR in oral biology as well as histone acetylation and deacetylation methods further reflecting advances in the

application of molecular techniques to oral biology Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date Oral Biology Molecular Techniques and Applications Third Edition serves as an ideal basic resource not only for new researchers but also for experienced scientists wishing to expand their research platform into new areas of this vital field **Future of**

Internet of Bio-Nano Things in Personalized Healthcare Jayachitra Sekar,A. Prasanth,Rajesh Kumar Dhanaraj,Seifedine Kadry,2026-01-01 Future of Internet of Bio nano Things in Personalized Healthcare Applications and Challenges explores the core principles of nanomaterials and the sensing paradigms essential for medical devices based on nano sensors technology examining the latest theoretical and practical developments in Internet of Bio nano Things IoBNT for health applications This book explores how IoBNT facilitates the detection and treatment of diseases within the human body through communication between an in body network of nanodevices and an external control unit Readers will discover the transformative benefits of IoBNT which integrates information and communication technologies with medical and nano bio sensor devices to enhance patient care The book highlights advances in telemedicine including highly functional electronic medical devices like implantable and wearable devices engineered through nanotechnology It details real time case studies on smart drug delivery edge computing and personalized healthcare applications to provide valuable insights into optimizing network performance and utilization in personalized healthcare The comprehensive exploration of machine learning algorithms and communication protocols further equips readers with the knowledge to design and implement end to end IoBNT solutions Presents models based on edge computing communication protocols machine learning smart drug delivery disease detection mechanism and bio nano sensor based applications among others Includes wearable sensors nano sensors and IoT applications that are enabling Internet of Bio Nano Things system initiatives worldwide Elaborates the different bio computing techniques of intelligent systems from a practical point of view solving common life problems **Personalized**

Oral Health Care Peter J. Polverini,2016-01-22 This book provides an overview of the oral health care environment as the transition is made to a system increasingly focusing on disease prevention early intervention to minimize disease progression and a personalized approach that meets each individual s needs Descriptions are provided of an array of technologies based on rapid advances in genomic medicine and omics technology that are already entering clinical practice and promise to have a huge impact on risk assessment diagnosis and therapy Detailed consideration is also paid to personalized health insurance in the new environment the impact of personalized health care on the economics of health care and the consequences for the global diagnostic market place and improved access to care The changes in dental education required to produce dentists better equipped to participate in the new health care environment are examined and the book concludes by considering key opportunities and challenges *Machine Learning for Medical Applications* Ranjith Rajamanickam,Amit Sharma,Dhivya

Ranjith,J. Paulo Davim,2025-09-01 Machine Learning for Medical Applications Volume I provides an in depth look into the frontier of artificial intelligence in healthcare bringing together contributions from leading researchers and innovators This volume focuses on three critical areas computational drug discovery advanced bioimaging techniques and the development of smart biomaterials for medical use Readers will discover how machine learning is revolutionizing personalized medicine improving diagnostic accuracy and enabling the design of AI driven biomedical sensors and therapeutic systems With practical insights into algorithmic modeling drug toxicity prediction and materials screening this book bridges the gap between data science and clinical applications Ideal for professionals academics and students in biomedical engineering computer science and medical informatics this book highlights the synergistic potential of machine learning and modern medicine in shaping the future of healthcare

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