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The Technology Tail

Biology And Technology Of The

The synthetic biology labs of Ginkgo Bioworks, which plans to go public on Friday.Credit...Simon Simard for The New York Times Supported by By Steve Lohr BOSTON — Two white-coated lab technicians, ...

Biology Starts to Get a Technological Makeover

Ginkgo's $15 billion pre-money equity valuation is one of the largest SPAC deals in history. Appropriately, the company plans to trade under the ticker symbols, $DNA ...

Record $15 Billion SPAC Merger Just Happened For A Technology You've Never Heard Of

Studying the role genes play on basic biology and disease is now easier, faster and more efficient, say researchers at Baylor College of Medicine. They have developed a drug-based genetic platform ...

Novel technology makes studying gene function easier, faster and more efficient

With an $8.5 million renovation project complete, Penn State Shenango will celebrate a grand opening of Forker Lab Building Sept. 29. The renovation included state-of-the-art learning tools, an ...

Penn State Shenango Unveils $8.5M Renovation of Forker Lab

In this second article, we take a look at three more BofA moonshots: immortality, bionic people and electric vertical takeoff and landing (eVTOL) vehicles. At the end of what is perhaps his most ...

Bank of America Moonshot Investment Strategies: Immortality, Bionic Humans, Electric Airplanes

CRISPR/Cas9 and mRNA-based gene editing and expression was found to be feasible in evaluating primary chronic lymphocytic leukemia cells.

CRISPR/Cas9 and mRNA-Based Technology Allows for Gene Editing and Expression in CLL Cells

The "Computational Biology Market Research Report by Services, by End User, by Region - Global Forecast to 2026 - Cumulative Impact of COVID-19" report has been added to ResearchAndMarkets.com's ...

Insights on the Computational Biology Global Market to 2026 - Rising R&D for Drug Discovery Presents Opportunities - ResearchAndMarkets.com

Jumpcode Genomics, a genome technology platform company focused on improving the understanding of human biology, announced today a collaboration with the Translational Genomics Research Institute ...

Jumpcode Genomics and TGen collaborate on genomic sequencing of SARS-CoV-2

Amyris, Inc. (Nasdaq: AMRS), a leading synthetic biotechnology company in Clean Health and Beauty markets through its consumer brands and a top supplier of sustainable and natural ingredients, today ...

Amyris Closes Acquisition Of Beauty Labs Combining Synthetic Biology Leadership With Digital Innovation

Prof. Dr. Dirk Prüfer (University of Münster) and Dr. Christian Schulze Gronover (Fraunhofer Institute for Molecular Biology and Applied Ecology IME) have been nomi ...

Team of Continental, Fraunhofer IME and the University of Münster Nominated for Federal President's Award

Imagine combat vehicles, drones or robots able to regenerate armor or other materials after being hit by enemy fire.

Self-Healing Armor and More—Here's a Sneak Peek of Future Warfare

No matter the medium, digital technology is intertwined with our lives to the point where some can't live without the screen.

'Very harmful': Carilion expert estimates up to 10% of adults are addicted to technology

The idea behind this novel technology is that, instead of tagging the genes of ... assistant professor of pharmacology and chemical biology, a member of the Dan L Duncan Comprehensive Cancer Center ...

New technology offers a faster, easier and more efficient way to study gene function

Using breakthrough advances in CRISPR genetic engineering, a new wave of thoughtful disruptive conservation and restorative biology aims to rewild degraded ecosystems to help combat the effects of ...

Woolly Mammoths Will Walk the Arctic Tundra Again: New Biosciences and Genetics Company, Colossal, Pioneers Animal De-Extinction Technology to Help Re

Biosynthesis is creating significant disruptions in how the world will produce food, drugs, high-value compounds, nutraceuticals, ...

Why Cannabinoid Biosynthesis Technology is the Future Of Medical Cannabis Therapeutics

Despite advances in modern medicine, many diseases remain untreatable because modern drugs cannot interfere with key intracellular protein–protein interactions. Now, scientists from the Gwangju ...

Gwangju Institute of Science and Technology scientists investigate macrocyclic peptides as new drug templates

Dr. Arthur joins Neoleukin after a decade at Seagen, where he served most recently as Senior Director & Head of Cancer Biology. During his time at Seagen, Dr. Arthur directed research efforts on ...

Neoleukin Therapeutics Announces Appointment of Bill Arthur, Ph.D., as Vice President and Head of Research

Advances in DNA/RNA sequencing promise to revolutionize how medical communities identify, detect, and treat diseases and manage public health threats. To make this technology more accessible and ...

Oracle and Oxford Nanopore Team Up to Improve Healthcare and Speed Discovery of New Medical Breakthroughs

Northeastern State University has announced the 2021 Science and Technology Seminar Series. Six speakers will cover various scientific topics in presentations over the course of the semester.

NSU hosts scientific experts for 2021 Science and Technology Seminar Series

Researchers tag the genes of interest with a gene that confers either resistance or sensitivity to specific drugs ...

Technology is a process and a body of knowledge as much as a collection of artifacts. Biology is no different—and we are just beginning to comprehend the challenges inherent in the next stage of biology as a human technology. It is this critical moment, with its wide-ranging implications, that Robert Carlson considers in Biology Is Technology. He offers a uniquely informed perspective on the endeavors that contribute to current progress in this area—the science of biological systems and the technology used to manipulate them. In a number of case studies, Carlson demonstrates that the development of new mathematical, computational, and laboratory tools will facilitate the engineering of biological artifacts—up to and including organisms and ecosystems. Exploring how this will happen, with reference to past technological advances, he explains how objects are constructed virtually, tested using sophisticated mathematical models, and finally constructed in the real world. Such rapid increases in the power, availability, and application of biotechnology raise obvious questions about who gets to use it, and to what end. Carlson's thoughtful analysis offers rare insight into our choices about how to develop biological technologies and how these choices will determine the pace and effectiveness of innovation as a public good.

Biomedical advances have made it possible to identify and manipulate features of living organisms in useful ways--leading to improvements in public health, agriculture, and other areas. The globalization of scientific and technical expertise also means that many scientists and other individuals around the world are generating breakthroughs in the life sciences and related technologies. The risks posed by bioterrorism and the proliferation of biological weapons capabilities have increased concern about how the rapid advances in genetic engineering and biotechnology could enable the production of biological weapons with unique and unpredictable characteristics. Globalization, Biosecurity, and the Future of Life Sciences examines current trends and future objectives of research in public health, life sciences, and biomedical science that contain applications relevant to developments in biological weapons 5 to 10 years into the future and ways to anticipate, identify, and mitigate these dangers.

An increased understanding of the developmental physiology, biochemistry, and molecular biology during early growth, maturation, ripening, and postharvest conditions has improved technologies to maintain the shelf life and quality of fruits, vegetables, and flowers. Postharvest Biology and Technology of Fruits, Vegetables, and Flowers provides a comprehensive introduction to this subject, offering a firm grounding in the basic science and branching out into the technology and practical applications. An authoritative resource on the science and technology of the postharvest sector, this book surveys the body of knowledge with an emphasis on the recent advances in the field.

Tropical and subtropical fruits are popular products, but are often highly perishable and need to be transported long distances for sale. The four volumes of Postharvest biology and technology of tropical fruits review essential aspects of postharvest biology, postharvest technologies, handling and processing technologies for both well-known and lesser-known fruits. Volume 1 contains chapters on general topics and issues, while Volumes 2, 3 and 4 contain chapters focused on individual fruits, organised alphabetically. Volume 1 provides an overview of key factors associated with the postharvest quality of tropical and subtropical fruits. Two introductory chapters cover the economic importance of these crops and their nutritional benefits. Chapters reviewing the postharvest biology of tropical and subtropical fruits and the impact of preharvest conditions, harvest circumstances and postharvest technologies on quality follow. Further authors review microbiological safety, the control of decay and quarantine pests and the role of biotechnology in the improvement of produce of this type. Two chapters on the processing of tropical and subtropical fruit complete the volume. With its distinguished editor and international team of contributors, Volume 1 of Postharvest biology and technology of tropical and subtropical fruits, along with the other volumes in the collection, will be an essential reference both for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area. Along with the other volumes in the collection, Volume 1 is an essential reference for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area Focuses on fundamental issues of fruit physiology, quality, safety and handling relevant to all those in the tropical and subtropical fruits supply chain Chapters include nutritional and health benefits, preharvest factors, food safety, and biotechnology and molecular biology

From the former president of MIT, the story of the next technology revolution, and how it will change our lives. A century ago, discoveries in physics came together with engineering to produce an array of astonishing new technologies: radios, telephones, televisions, aircraft, radar, nuclear power, computers, the Internet, and a host of still-evolving digital tools. These technologies so radically reshaped our world that we can no longer conceive of life without them. Today, the world's population is projected to rise to well over 9.5 billion by 2050, and we are currently faced with the consequences of producing the energy that fuels, heats, and cools us. With temperatures and sea levels rising, and large portions of the globe plagued with drought, famine, and drug-resistant diseases, we need new technologies to tackle these problems. But we are on the cusp of a new convergence, argues world-renowned neuroscientist Susan Hockfield, with discoveries in biology coming together with engineering to produce another array of almost inconceivable technologies—next-generation products that have the potential to be every bit as paradigm shifting as the twentieth century's digital wonders. The Age of Living Machines describes some of the most exciting new developments and the scientists and engineers who helped create them. Virus-built batteries. Protein-based water filters. Cancer-detecting nanoparticles. Mind-reading bionic limbs. Computer-engineered crops. Together they highlight the promise of the technology revolution of the twenty-first century to overcome some of the greatest humanitarian, medical, and environmental challenges of our time.

Animal Science Biology and Technology, 3rd edition is a book designed for students studying animal science that will take readers from the basics of physiology through production and on to evaluation, while delivering a contemporary industry overview. You will find the opportunities for experiential learning found throughout this book will be especially helpful in planning supervised agricultural experience projects and FFA career development events. In addition, the career focus sections present opportunities in a story format that will pique students' interest and the accompanying laboratory manual and student activities will provide hands on engagement. . Animal Science Biology and Technology, 3rd edition was written by nationally renowned educators who also own and operate a beef cattle farm. MeeCee Baker and Robert Mikesell bring academia into the pasture to combine the empirical and the practical in a text suitable for students of all ages and stages. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The study of stem cell research has recently gained the attention from a growing, multidisciplinary community of scientist; this exponential growth of interest is driven by the hope of discovering cures for several diseases through transplantation medicine. Trends in Stem Cells Biology and Technology aptly serves this developing community as it reveals new aspects of stem cell research by specifically covering studies focused on spermatogonial stem cells, uniparental embryonic stem cell lines, the generation of gametes from stem cells, reprogramming germ cells to stem cells, nuclear and somatic cell genetic reprogramming, tissue engineering and mechanotransduction of stem cells and finally the development of stem cell technologies for the treatment of deafness, heart disease, corneal injury and diabetes. With contributions by leading scientists and renowned scholars, Trends in Stem Cells Biology and Technology offers a wide audience cutting edge information at a crucial time in this ever expanding field.

Interest in the postharvest behavior of fruits and vegetables has a history as long as mankind's. Once we moved past mere survival, the goal of postharvest preservation research became learning how to balance consumer satisfaction with quantity and quality while also preserving nutritional quality. A comprehensive overview of new postharvest techno

Scandium provides a comprehensive review of all aspects of scandium, including its occurrence in nature; its chemical, physical and technological properties; its biological significance and toxic effects; and its applications. The book covers the discovery and history of scandium, its abundance in rock-forming minerals and common type rocks, and its derivation, extraction, and preparation. It also deals with the physical metallurgy of scandium, its physical and chemical properties, its isotopes, its alloys and intermetallic compounds, and its economic and technological applications. The text is recommended for chemists, metallurgists, and experts who would like to know particularly more about scandium and its possible uses.

This fifth volume abridgement of Joseph Needham's monumental work is concerned with the staggering civil engineering feats made in early and medieval China.