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A technology that includes the process of manipulating or altering the genetic material of a cell

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resulting in desirable functions or outcomes that would not occur naturally. restriction enzymes function

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Genetically engineered (GE) crops were first introduced commercially in the 1990s. After two decades of production, some groups and individuals remain critical of the technology based on their concerns about possible adverse effects on human health, the environment, and ethical considerations. At the same time, others are concerned that the technology is not reaching its potential to improve human health and the environment because of stringent regulations and reduced public funding to develop products offering more benefits to society. While the debate about these and other questions related to the genetic engineering techniques of the first 20 years goes on, emerging genetic-engineering



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technologies are adding new complexities to the conversation. Genetically Engineered Crops builds on previous related Academies reports published between 1987 and 2010 by undertaking a retrospective examination of the purported positive and adverse effects of GE crops and to anticipate what emerging genetic-engineering technologies hold for the future. This report indicates where there are uncertainties about the economic, agronomic, health, safety, or other impacts of GE crops and food, and makes recommendations to fill gaps in safety assessments, increase regulatory clarity, and improve innovations in and access to GE technology.

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Genome Engineering via CRISPR-Cas9 Systems presents a compilation of chapters from eminent scientists from across the globe who have established expertise in working with CRISPR-Cas9 systems. Currently, targeted genome engineering is a key technology for basic science, biomedical and industrial applications due to the relative simplicity to which they can be designed, used and applied. However, it is not easy to find relevant information gathered in a single source. The book contains a wide range of applications of CRISPR in research of bacteria, virus, algae, plant and mammalian and also discusses the modeling of drosophila, zebra fish and protozoan, among others. Other topics covered

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include diagnosis, sensor and therapeutic applications, as well as ethical and regulatory issues. This book is a valuable source not only for beginners in genome engineering, but also researchers, clinicians, stakeholders, policy makers, and practitioners interested in the potential of CRISPR-Cas9 in several fields. Provides basic understanding and a clear picture on how to design, use and implement the CRISPR-Cas9 system in different organisms Explains how to create an animal model for disease research and screening purposes using CRISPR Discusses the application of CRISPR-Cas9 systems in basic sciences, biomedicine, virology, bacteriology, molecular biology, neurology, cancer,

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industry, and many more

Animal biotechnology is a broad field including polarities of fundamental and applied research, as well as DNA science, covering key topics of DNA studies and its recent applications. In Introduction to Pharmaceutical Biotechnology, DNA isolation procedures followed by molecular markers and screening methods of the genomic library are explained in detail. Interesting areas such as isolation, sequencing and synthesis of genes, with broader coverage of the latter, are also described. The book begins with an introduction to biotechnology and its main branches, explaining both the basic science and

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the applications of biotechnology-derived pharmaceuticals, with special emphasis on their clinical use. It then moves on to the historical development and scope of biotechnology with an overall review of early applications that scientists employed long before the field was defined.

Additionally, this book offers first-hand accounts of the use of biotechnology tools in the area of genetic engineering and provides comprehensive information related to current developments in the following parameters: plasmids, basic techniques used in gene transfer, and basic principles used in transgenesis. The text also provides the fundamental understanding of stem cell and gene therapy, and offers a short

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description of current information on these topics as well as their clinical associations and related therapeutic options.

Assists policymakers in evaluating the appropriate scientific methods for detecting unintended changes in food and assessing the potential for adverse health effects from genetically modified products. In this book, the committee recommended that greater scrutiny should be given to foods containing new compounds or unusual amounts of naturally occurring substances, regardless of the method used to create them. The book offers a framework to guide federal agencies in selecting the route of safety assessment.

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It identifies and recommends several pre- and post-market approaches to guide the assessment of unintended compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and

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vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for



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this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Drawing from the latest research and real-world events, Blanton/Kegley's WORLD POLITICS: TREND AND TRANSFORMATION, 17th Edition, helps you understand what is happening on the international political stage -- and why. Thought-provoking discussions encourage you to critically assess the

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problems, payoffs, pitfalls and paradoxes of people's choices about the global future and the likely long-term impact of those choices. Coverage includes recent challenges to global peace and prosperity; changes in the political landscape sparked by Brexit, the rise of China and enduring rivalries; terrorism and advances in military capabilities; human rights and inequality; threats to global health and the environment; and more. The Carnegie Council for Ethics in International Affairs provides further insight into emerging issues. Coverage reflects the most recent academic literature and many diverse perspectives. Important Notice: Media content referenced within the product description or the

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product text may not be available in the ebook version.

This exciting first-edition text is appropriate for the one- or two- semester non-majors or mixed majors/non-majors course. Tobin and Dusheck's *Asking About Life* has a unique approach to biology that emphasizes questions, experimentation, and principles of biology. The first edition recently won the Texty Award from the Text and Academic Authors Association in the College Life Sciences category.

A biologist and a moral philosopher consider the positive potential and the possible negative

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consequences of genetic engineering, outlining the science surrounding the technology while discussing moral and ethical considerations. Reprint.

Microbial natural products have been an important traditional source of valuable antibiotics and other drugs but interest in them waned in the 1990s when big pharma decided that their discovery was no longer cost-effective and concentrated instead on synthetic chemistry as a source of novel compounds, often with disappointing results. Moreover understanding the biosynthesis of complex natural products was frustratingly difficult. With the development of molecular genetic methods to isolate

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and manipulate the complex microbial enzymes that make natural products, unexpected chemistry has been revealed and interest in the compounds has again flowered. This two-volume treatment of the subject will showcase the most important chemical classes of complex natural products: the peptides, made by the assembly of short chains of amino acid subunits, and the polyketides, assembled from the joining of small carboxylic acids such as acetate and malonate. In both classes, variation in sub-unit structure, number and chemical modification leads to an almost infinite variety of final structures, accounting for the huge importance of the compounds in nature and medicine. \* Gathers tried

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and tested methods and techniques from top players in the field. \* Provides an extremely useful reference for the experienced research scientist. \* Covers biosynthesis of Polyketides, Terpenoids, Aminocoumarins and Carbohydrates

Microbial Cell Factories Engineering for Production of Biomolecules presents a compilation of chapters written by eminent scientists worldwide. Sections cover major tools and technologies for DNA synthesis, design of biosynthetic pathways, synthetic biology tools, biosensors, cell-free systems, computer-aided design, OMICS tools, CRISPR/Cas systems, and many more. Although it is not easy to find relevant

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information collated in a single volume, the book covers the production of a wide range of biomolecules from several MCFs, including *Escherichia coli*, *Bacillus subtilis*, *Pseudomonas putida*, *Streptomyces*, *Corynebacterium*, *Cyanobacteria*, *Saccharomyces cerevisiae*, *Pichia pastoris* and *Yarrowia lipolytica*, and algae, among many others. This will be an excellent platform from which scientific knowledge can grow and widen in MCF engineering research for the production of biomolecules. Needless to say, the book is a valuable source of information not only for researchers designing cell factories, but also for students, metabolic engineers, synthetic biologists, genome engineers, industrialists, stakeholders and

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policymakers interested in harnessing the potential of MCFs in several fields. Offers basic understanding and a clear picture of various MCFs Explains several tools and technologies, including DNA synthesis, synthetic biology tools, genome editing, biosensors, computer-aided design, and OMICS tools, among others Harnesses the potential of engineered MCFs to produce a wide range of biomolecules for industrial, therapeutic, pharmaceutical, nutraceutical and biotechnological applications Highlights the advances, challenges, and future opportunities in designing MCFs



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