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## Depository

Genetic Engineering. Edited by Idah Sithole-Niang. University of Zimbabwe. The book, while having only five chapters, covers a wide range of topics in genetic engineering of microorganisms, plants and animals. Specifically it covers both the natural and social sciences.

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This is a well-written and accessible but somewhat unnerving book for those open to considering human genetic-engineering. The biotech described makes possible less expensive genetic testing, easier gene-editing, disease mitigation, and selective reproduction choices.

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Smita Rastogi & Neelam Pathak.

Description. Genetic Engineering is designed to serve as a textbook for the students of biotechnology, life sciences, genetics, microbiology, biochemistry, and other related areas. Replete with comprehensive details, it will also serve as a reference for the research students in this field.

Genetic Engineering - Oxford University Press

Genetic Engineering, Volume 24 contains discussions of contemporary and relevant topics in genetics, including: -Gene silencing: principles and applications, -Integrins and the myocardium, -Plant virus gene vectors: biotechnology and applications in agriculture and medicine, -Novel approaches to controlling



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Genetic Engineering: Principles and Methods - Google Books

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common tool in both research and agriculture, genetic engineering involves the direct manipulation of genes.

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Genetic Engineering: Recent Developments in Applications ...

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INTRODUCTION TO  
BIOTECHNOLOGY AND GENETIC

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## ENGINEERING

The Book provides: 1. Snack sized chapters for easy learning. 2. Bite sized flashcards to memorize key concepts. Designed for both students and adults. This Book provides a quick summary of essential concepts in Genetic Engineering by following snack sized chapters: (Each chapter has corresponding flashcards)

Introduction to Genetic Engineering ...

Genetic Engineering on Apple Books  
Po Bronson: People think genetic engineering must be incredibly hard and complicated and technical, so I thought I would write a chapter about genetic engineering, a new way to do kidney transplants, as if it were a TV cooking show, to show them quite the opposite. That for genetic engineering, the steps of doing it are literally the same steps you would do in a kitchen on a cooking

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Genetic Engineering (Book) | Contra Costa County Library ...

Genetic engineering, the artificial manipulation, modification, and recombination of DNA or other nucleic acid molecules to modify an organism.

The term is generally used to refer

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specifically to methods of recombinant DNA technology. Learn about the history, techniques, and applications of genetic engineering.

The author presents a basic introduction to the world of genetic engineering.

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Zero to Genetic Engineering Hero is made to provide you with a first glimpse of the inner-workings of a cell. It further focuses on skill-building for genetic engineering and the Biology-as-a-Technology mindset (BAAT). This book is designed and written for hands-on learners who have little knowledge of biology or genetic engineering. This book focuses on the reader mastering the necessary skills of

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genetic engineering while learning about cells and how they function. The goal of this book is to take you from no prior biology and genetic engineering knowledge toward a basic understanding of how a cell functions, and how they are engineered, all while building the skills needed to do so.

This important reference/text provides technologists with the basic information necessary to interact scientifically with molecular biologists and get involved in scaling up laboratory procedures and designing and constructing commercial plants. Requiring no previous training or experience in biology, Genetic Engineering Fundamentals explains the biological and chemical principles of recombinant DNA technology ... emphasizes techniques used to isolate and clone specific genes from bacteria, plants,

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and animals, and methods of scaling-up the formation of the gene product for commercial applications ... analyzes problems encountered in scaling-up the microprocessing of biochemical procedures ... includes an extensive glossary and numerous illustrations ... identifies other resource materials in the field ... and more. Presenting the fundamentals of biochemistry and molecular biology to workers and students in other fields, this state-of-the-art reference/text is essential reading for technologists in chemistry and engineering; biomedical, chemical, electrical and electronics, industrial, mechanical, manufacturing, design, plant, control, civil, genetic, and environmental engineers; chemists, botanists, and zoologists; and advanced undergraduate and graduate courses in engineering, biotechnology, and industrial microbiology.

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This book has a distinguishing feature of having condensed material with adequate information on genetic engineering especially of the microbes. The book covers almost all the topics of genetic engineering for the graduate, postgraduate students and young research scholars of biological sciences. The book is written as per syllabus of genetic engineering paper for Masters course in biotechnology, biochemistry, life sciences of most of the universities. The book is much useful for the students of Masters degree. Emphasis is given on the basic fundamentals. The book contains twelve chapters starting from ' Isolation, purification and estimation of nucleic acids' as chapter 1. The chapter describes general techniques for the isolation and purification of DNA as well as RNA. It also describes methods for quantitative estimation of the nucleic



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acids. The second chapter describes general characteristics of the vectors used in genetic engineering and also the general account of commonly used individual vectors. The chapter also describes expression vectors. The third chapter describes various commonly used restriction endonucleases. The fourth chapter describes commonly used enzymes in genetic engineering viz. Reverse transcriptase, DNA polymerase I, polynucleotide kinase, terminal dcoxynucleotidyl transferase, alkaline phosphatase, SI nuclease, DNA ligase etc. The fifth chapter describes electrophoresis for the separation of nucleic acids fragments. The sixth chapter is of cloning strategies. It describes construction of genomic DNA library , chromosomal walking, cDNA library, cDNA cloning. The seventh chapter describes DNA sequencing techniques and includes

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chemical modification method of Maxam and Gilbert, dideoxy sequencing method of Sanger, modifications of chain terminator sequencing, analysis of the sequencing data. The eighth chapter includes various methods of site directed mutagenesis. The ninth chapter describes polymerase chain reaction (PCR). It also includes primer designing and various types of polymerase chain reactions viz. reverse transcriptase polymerase chain reaction (RT-PCR), nested PCR, multiplex PCR etc. Besides, there are chapters 10, 11 and 12 on gene therapy, human genome and proteomics. At the end, glossary has been put which explains main terms used in genetic engineering. One of the important factor introduced in the book is the chapter structure given in the beginning of each chapter that provides, at a glance, the contents of the whole chapter which offers a better

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learning mechanism. Each chapter is also presented with an introduction that covers the concept of the whole chapter in brief and offers clear understanding of the subject matter to the students. The author on the basis of his experience in teaching genetic engineering at the university level for more than a decade has offered the text in an easily understandable form to the postgraduate students. The book should be of invaluable help to the students, researchers and all those interested in understanding genetic engineering.

Genetic Engineering: A Primer presents the growing field of biotechnology to non-science majors and other general interest readers. The author examines the natural forces that change genetic information and the ways in which scientists have learned to engineer these genetic changes. With a

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wealth of information flooding the popular press, including news and controversy surrounding cloning, Genetic Engineering is a timely volume that provides background information to the reader intent on understanding this fascinating development.

Provides background on the controversial technologies and the social, political, ethical, and legal issues they raise; offers a guide to further research; and includes material on biotechnology as a business, stem cells, and bioterrorism.

Although designed for undergraduates with an interest in molecular biology, biotechnology, and bioengineering, this book—Techniques in Genetic Engineering—IS NOT: a laboratory manual; nor is it a textbook on molecular biology or biochemistry. There is some

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basic information in the appendices about core concepts such as DNA, RNA, protein, genes, and genomes; however, in general it is assumed that the reader has a background on these key issues.

Techniques in Genetic Engineering briefly introduces some common genetic engineering techniques and focuses on how to approach different real-life problems using a combination of these key issues. Although not an exhaustive review of these techniques, basic information includes core concepts such as DNA, RNA, protein, genes, and genomes. It is assumed that the reader has background on these key issues. The book provides sufficient background and future perspectives for the readers to develop their own experimental strategies and innovations. This easy-to-follow book presents not only the theoretical background of molecular techniques, but

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also provides case study examples, with some sample solutions. The book covers basic molecular cloning procedures; genetic modification of cells, including stem cells; as well as multicellular organisms, using problem-based case study examples.

In this third edition of his popular undergraduate-level textbook, Des Nicholl recognises that a sound grasp of basic principles is vital in any introduction to genetic engineering. Therefore, the book retains its focus on the fundamental principles used in gene manipulation. It is divided into three sections: Part I provides an introduction to the relevant basic molecular biology; Part II, the methods used to manipulate genes; and Part III, applications of the technology. There is a new chapter devoted to the emerging importance of bioinformatics as a distinct

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discipline. Other additional features include text boxes, which highlight important aspects of topics discussed, and chapter summaries, which include aims and learning outcomes. These, along with key word listings, concept maps and a glossary, will enable students to tailor their study to suit their own learning styles and ultimately gain a firm grasp of a subject that students traditionally find difficult.

The advent of recombinant DNA technology in the 1970s was a key moment in the history of both biotechnology and the commercialization of academic research. Doogab Yi ' s The Recombinant University draws us deeply into the academic community in the San Francisco Bay Area, where the technology was developed and adopted as the first major commercial technology for genetic engineering. In doing so, it reveals how

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research patronage, market forces, and legal developments from the late 1960s through the early 1980s influenced the evolution of the technology and reshaped the moral and scientific life of biomedical researchers. Bay Area scientists, university administrators, and government officials were fascinated by and increasingly engaged in the economic and political opportunities associated with the privatization of academic research. Yi uncovers how the attempts made by Stanford scientists and administrators to demonstrate the relevance of academic research were increasingly mediated by capitalistic conceptions of knowledge, medical innovation, and the public interest. Their interventions resulted in legal shifts and moral realignments that encouraged the privatization of academic research for public benefit. The Recombinant University brings to life the



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hybrid origin story of biotechnology and the ways the academic culture of science has changed in tandem with the early commercialization of recombinant DNA technology.

This essential should serve as an introduction for a contemporary public discussion on genetic engineering. Genetic engineering affects us all in many areas and we must dare to think more colorful and further. In fact, the complete genetic material of viruses and bacteria can already be chemically produced and "brought to life". With genetic surgery, medicine is at a crossroads: do we want to treat hereditary diseases or "repair" them genetically? And the analysis of thousands of human genetic material reveals information that is related to complex diseases, but also to characteristics such as intelligence. How should we use this

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knowledge? The question is hardly whether we want genetic engineering, but rather how we use it. This book is a translation of the original German 1st edition *Gentechnik* by R ö bbe W ü nschiers , published by The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2019. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors.

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