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Will Change

Everything Forever

– CRISPR Brave

~~New World |~~

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~~Summary \u0026amp;~~

~~Analysis | Aldous~~

~~Huxley The~~

Journey of Man - A

Genetic Odyssey

chapter 13 part 1

Bio101 Chapter 10

Section 1 Cloning

and Genetic

Engineering

Biotechnology -

Gene Cloning

\u0026amp; DNA

Technology

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Chapter 13

Environmental

Science 13

(Biotechnology and
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Modification of

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on a Microchip,

Cutting Edge

Biohacking, Harvard

Asst. Prof. Yu

Shrike Zhang, Ph D

What Happened

Before History?

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Genetic Engineering

~~Nucleic acids – DNA
and RNA structure~~

The human

journey-- a genetic

odyssey: Spencer

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Genetic Engineering

and Diseases –

Gene Drive \u0026amp;

Malaria DNA

replication and RNA

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transcription and translation | Khan Academy 3. Genetic Engineering

~~Chapter 13 DNA~~

~~Structure and~~

~~Replication: Crash~~

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Biology part 1 - Bio

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Service of
mankind - 11th
Class Biology By
Sidra Jamil The
whole of AQA
INHERITANCE,
VARIATION and
EVOLUTION. 9-1
GCSE Biology
combined science
for paper 2
Recombinant DNA
technology lecture
| basics of

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Chapter 13

recombinant DNA

Gel Electrophoresis

Chapter 13 Genetic

Engineering Te

13.2 SECTION

PREVIEW

Objectives

Summarize the

steps used to

engineer transgenic

organisms. Give

examples of appli-

cations and benefits

of genetic

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Chapter 13

Genetic Engineering Te
engineering. Review

Vocabulary

nitrogenous base:a

car-bon ring

structure found in

DNA and RNA that

is part of the

genetic code (p.

282) New

Vocabulary genetic

engineering

recombinant DNA

transgenic ...

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Chapter 13

Chapter 13: Genetic Technology

Chapter 13 Genetic Engineering Te

Chapter 13 Genetic Engineering, TE

Section 13-1:

Changing the Living
World Humans use
selective breeding
to pass desired
traits on to the next
generation of
organisms.

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Breeders can increase the genetic variation in a population by inducing mutations, which are the ultimate source of genetic variability.

Chapter 13 Genetic
Engineering Te
Chapter 13 Genetic
Engineering Te
Engineering Section

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1 Changing The Living Chapter 13 Genetic

Engineering, TE
Section 13-3: Cell
Transformation.

During
transformation, a
cell takes in DNA
from outside the
cell. This external
DNA becomes a
part of the cell's
DNA. If

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transformation is successful, the recombinant DNA is integrated into one of the chromosomes of Page 9/23

Chapter 13 Genetic Engineering Te - orrisrestaurant.com
Chapter 13 Genetic Engineering. In this chapter, you will read about

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Techniques such as controlled breeding, manipulating DNA, and introducing DNA into cells that can be used to alter the genes of organisms. You will also find out how these techniques can be used in industry, agriculture, and medicine. Section

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13-1: Changing the Living World

Chapter 13 Genetic Engineering • Page
- Blue Ridge Middle

...

Chapter 13 Genetic Engineering Te

Chapter 13 Genetic Engineering In this chapter, you will read about

techniques such as

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Controlled breeding,
manipulating DNA,
and introducing

DNA into cells that
can be used to alter
the genes of

organisms. You will
also find out how
these techniques

can be used in
industry,

agriculture, and

medicine. Section

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GENETIC

ENGINEERING +

SECRETIVE

QUESTIONS. Learn

vocabulary, terms,

and more with

flashcards, games,

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Genetic study
tools.

Engineering Te

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ENGINEERING +

SECRETIVE

QUESTIONS ...

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Engineering.

STUDY. PLAY.

What is selective
breeding? What are
some examples?

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Selective breeding is the process human use to choose the best animal traits. some examples are dogs, sheep, cows ect.

_____ is the technique that is most likely to bring together two recessive alleles for a genetic defect.

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Chapter 13 Genetic
Engineering

Flashcards | Quizlet

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Engineering Te

Engineering Section

1 Changing The

Living Chapter 13

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Section 13-3: Cell

Transformation.

During

transformation, a

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cell takes in DNA from outside the cell. This external DNA becomes a part of the cell's DNA. If transformation is successful, the recombinant DNA is integrated into one of the chromosomes of Page 9/23

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things that you
should do, reading
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meet the expense
of chapter 13
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te and numerous
book collections
from fictions to
scientific research
in any way. in the
midst of them is
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genetic

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Showing top 8
worksheets in the
category - Genetic
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Reading. Some of
the worksheets
displayed are
Lesson life science
genetics selective
breeding, Chapt 11
hbio gene
technology, Notes
what is genetic
engineering, Genes

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and their purposes
reading passage,
Genetic engineering
work, Chapter 13
genetic engineering
te, Genetic
engineering work
biology corner,
Lesson 13 genetic
modification.

Genetic Engineering
Reading - Teacher
Worksheets

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Engineering

Worksheet Answer

Key - 132

SECTION

PREVIEW

Objectives

Summarize the

steps used to

engineer transgenic

organisms Give

examples of appli-

cations and benefits

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of genetic
engineering Review
Vocabulary

nitrogenous base:a

car-bon ring

structure found in

DNA and RNA that

is part of the

genetic code (p

282) New

Vocabulary genetic

engineering

recombinant DNA

transgenic

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Worksheet Answer
Key ...

Read Book Chapter
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Engineering Te

Chapter 13 Genetic
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13.1 Applied

Genetics SECTION
PREVIEW

Objectives Predict

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the outcome of a test cross. Evaluate the importance of plant and animal breeding to humans. Review Vocabulary hybrid: an organism whose parents have different forms of a trait (p. 255) New Vocabulary

Chapter 13 Genetic

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Engineering Te -
alfagiuliaforum.com
genetic engineering:

A technique that can be used to make many copies of DNA in the lab is called _____. PCR (polymerase chain reactions), Three things that are involved with genetic engineering are _____. 1) reading

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- a DNA sequence
- 2) editing a DNA sequence
- 3) reinserting DNA into a living organism

Quia - Chapter 13:
Genetic Engineering
Chapter 13 Genetic
Engineering, TE
Section 13-3: Cell
Transformation.
During

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transformation, a cell takes in DNA from outside the cell. This external DNA becomes a part of the cell's DNA. If transformation is successful, the recombinant DNA is integrated into one of the chromosomes of the cell. Chapter 13 Genetic

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Engineering Section Review 2 Answer Key

Chapter 13 Genetic Engineering Section Review 1 Answer Key

Chapter 13 Genetic
Engineering In this
chapter, you will
read about
techniques such as
controlled breeding,

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manipulating DNA,
and introducing
DNA into cells that
can be used to alter
the genes of
organisms. You will
also find out how
these Page 5/23.
Read Book Chapter
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techniques can be

Chapter 13 Genetic

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Key

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During
transformation, a
cell takes in DNA
from outside the
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DNA becomes a
part of the cell's

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DNA. If

transformation is successful, the recombinant DNA is integrated into one of the chromosomes of the cell. Chapter 13 Genetic Engineering Section Review 2 Answer Key

Chapter 13 Genetic Engineering Guided

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Chapter 13

Reading Answer

Key

Chapter 13 Genetic
Engineering Te. Not
visible? Reload

Download. Recent
Worksheet

Searches. 153

Applications Of
Genetic Engineering
Calendar Grade 1

Pagsusunod Sunod
Ng Mga Pangyayari
Sa Kuwento Sa T

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Animal Pairs Order
Of Operations
Integers Order Of
Operations For
Integers Pumpkin
Sum Game What Is
Addiction
Magagalang Na
Pananalita Picture
...

Concepts of Biology

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Chapter 13

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

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the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way

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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

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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

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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 this course. A strength of Concepts of Biology is that instructors can

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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

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apply--key
concepts.

Engineering Te

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.

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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,

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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 the applications of biotechnology-derived pharmaceuticals,

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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.

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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:

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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 description of current information on

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these topics as well as their clinical associations and related therapeutic options.

Known world-wide as the standard introductory text to this important and exciting area, the sixth edition of Gene Cloning and DNA Analysis

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addresses new and growing areas of research whilst retaining the philosophy of the previous editions. Assuming the reader has little prior knowledge of the subject, its importance, the principles of the techniques used and their applications

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are all carefully laid out, with over 250 clearly presented four-colour illustrations. In addition to a number of informative changes to the text throughout the book, the final four chapters have been significantly updated and

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extended to reflect the striking advances made in recent years in the applications of gene cloning and DNA analysis in biotechnology. Gene Cloning and DNA Analysis remains an essential introductory text to a wide range of biological sciences

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students; including genetics and genomics, molecular biology, biochemistry, immunology and applied biology. It is also a perfect introductory text for any professional needing to learn the basics of the subject. All libraries in universities

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where medical, life and biological sciences are studied and taught should have copies available on their shelves. "... the book content is elegantly illustrated and well organized in clear-cut chapters and subsections... there is a Further

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Reading section after each chapter that contains several key references... What is extremely useful, almost every reference is furnished with the short but distinct author's remark."

– Journal of Heredity, 2007 (on the previous

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(6th edition)

Genetically Engineered Te

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

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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

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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

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Over the last 20 years goes on, emerging genetic-engineering technologies are adding new complexities to the conversation.

Genetically Engineered Crops builds on previous related Academies reports published between 1987 and 2010 by

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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

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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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Genetic

The Series The
fungi represent a
heterogenous
assemblage of
eukaryotic
microorganisms and
have become
favored organisms
for research at the
cellular and
molecular level.
Such research
involvement has

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been stimulated by interest in the biotechnological application of fungi in processes related to industry, agriculture and ecology.

Considering both yeasts and mycelial fungi, The Mycota highlights developments in both basic and

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applied research and presents an overview of fungal systematics and cell structure. Foremost authorities in research on mycology have been assembled to edit and contribute to the volumes.

This Volume The first section of this volume, Genetics,

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illustrates the basic genetic processes underlying inheritance, cell biology, metabolism and "lifestyles" of fungi. The second section, Biotechnology, addresses the applied side of fungal genetics, ranging from new tools for synthetic

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biology to the biotechnological potential of fungi from diverse environments.

Gathering chapters written by reputed scientists, the book represents an invaluable reference guide for fungal biologists, geneticists and biotechnologists

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Genetic

Engineering Techniques

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

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molecular biology
or biochemistry.

There is some 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.

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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,

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Genetic Engineering Technology
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

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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 also provides case study examples, with some sample

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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.

Completely revised and updated, the

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Second edition of
the best-selling
Molecular

Biotechnology:
Principles and
Applications of
Recombinant DNA
covers both the
underlying scientific
principles and the
wide-ranging
industrial,
agricultural,
pharmaceutical, and

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biomedical applications of recombinant DNA technology. Ideally suited as a text, this book is also an excellent reference for health professionals, scientists, engineers, or attorneys interested in biotechnology.

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Genetic

An ethologist shows man to be a gene machine whose world is one of savage competition and deceit

Breakthroughs in genetics present us with a promise and a predicament. The promise is that we will soon be able to

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treat and prevent a host of debilitating diseases. The predicament is that our newfound genetic knowledge may enable us to manipulate our nature—to enhance our genetic traits and those of our children. Although most people find at least some forms of

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genetic engineering disquieting, it is not easy to articulate why. What is wrong with re-engineering our nature? The Case against Perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children. Michael

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Sandel argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness. The drive to enhance human nature through genetic technologies is objectionable because it represents a bid for mastery and

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dominion that fails to appreciate the gifted character of human powers and achievements.

Carrying us beyond familiar terms of political discourse, this book contends that the genetic revolution will change the way philosophers discuss ethics and

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will force spiritual questions back onto the political agenda.

In order to grapple with the ethics of enhancement, we need to confront questions largely lost from view in the modern world.

Since these questions verge on theology, modern philosophers and

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political theorists tend to shrink from them. But our new powers of biotechnology make these questions unavoidable. Addressing them is the task of this book, by one of America ' s preeminent moral and political thinkers.

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Genetic

PART I Molecular
Biology 1.

Molecular Biology
and Genetic
Engineering

Definition, History
and Scope 2.

Chemistry of the
Cell: 1.

Micromolecules
(Sugars, Fatty
Acids, Amino Acids,
Nucleotides and

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Lipids) Sugars
(Carbohydrates) 3.
Chemistry of the
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Macromolecules
(Nucleic Acids;
Proteins and
Polysaccharides)
Covalent and Weak
Non-covalent Bonds
4. Chemistry of the
Gene: Synthesis,
Modification and
Repair of DNA DNA

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Engineering Te
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Packaging of DNA

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Techniques Leading

to Nucleosome

Discovery 6.

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Repetitive and

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Genetic Material: 3.

Split Genes,
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Pseudogenes and
Cryptic Genes Split
Genes or

.Interrupted Genes

8. Multigene

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Protein Synthesis
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1. Transcription in
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Expression of
Gene: Protein
Synthesis: 2. RNA
Processing (RNA
Splicing, RNA
Editing and
Ribozymes)
Polyadenylation of
mRNA in
Prokaryotes
Addition of Cap
(m7G) and Tail
(Poly A) for mRNA
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Expression of
Gene: Protein
Synthesis: 3.
Synthesis and
Transport of
Proteins
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Eukaryotes)
Formation of
Aminoacyl tRNA
15. Regulation of
Gene Expression: 1.
Operon Circuits in
Bacteria and Other

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Regulation of Gene
Expression . 2.

Circuits for Lytic
Cycle and Lysogeny
in Bacteriophages

17. Regulation of
Gene Expression 3.

A Variety of
Mechanisms in
Eukaryotes

(Including Cell
Receptors and Cell
Signalling) PART II

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Genetic Engineering

18. Recombinant DNA and Gene

Cloning 1. Cloning and Expression Vectors

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Recombinant DNA and Gene Cloning 2.

Chimeric DNA, Molecular Probes and Gene Libraries

20. Polymerase Chain Reaction (PCR) and Gene

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Amplification 21.

Isolation,
Sequencing and
Synthesis of Genes

22. Proteins:

Separation,
Purification and
Identification 23.

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1. B-Cells,
Antibodies,
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Immunotechnology

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Immunotechnology

3. Hybridoma and
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Hybridoma

Technology and the
Production of

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Transgenic Animals

27. Animal and
Human Genomics:

Molecular Maps and
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Molecular Markers

28. Biotechnology
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I. Vaccines,

Diagnostics and

Forensics Animal

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Care 29.

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Medicine 2. Gene
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Diseases Targeted

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Vectors and Other
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30. Biotechnology
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Pharmacogenetics /

Pharmacogenomics

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Medicine

Phannacogenetics

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and Personalized

31. Plant Cell and
Tissue Culture'

Production and

Uses of Haploids

32. Gene Transfer
Methods in Plants

33. Transgenic
Plants . Genetically
Modified (GM)

Crops and

Floricultural Plants

34. Plant Genomics:

35. Genetically

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Engineered

Microbes (GEMs)

and Microbial

Genomics

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