

An Introduction To Genetic Engineering Studies In Biology

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Genetic engineering, also called genetic modification or genetic manipulation, is the direct manipulation of an organism's genes using biotechnology. It is a set of technologies used to change the genetic makeup of cells, including the transfer of genes within and across species boundaries to produce improved or novel organisms. New DNA is obtained by either isolating and copying the genetic ...

Genetic engineering - Wikipedia
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Summary. In the previous two chapters I examined the two essential components of genetic engineering, these being (i) the ability to cut, modify and join DNA molecules in vitro, and (ii) the host/vector systems that allow recombinant DNA molecules to be propagated. With these components at his or her disposal, the genetic engineer has to devise a cloning strategy that will enable efficient use of the technology to achieve the aims of the experiment.

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Introduction. Genetic engineering is the foundation of modern-day scientific research and has been implemented for varied applications, including the creation of multidrug-resistant biological warfare and the development of viral vectors that cure human blindness. The ability to alter an organism ' s genotype relies on the introduction and persistence of foreign DNA, also known as transgenic DNA.

Genetic Engineering - an overview | ScienceDirect Topics
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An Introduction to Genetic Engineering is essential reading for undergraduate students of biotechnology, genetics, molecular biology and biochemistry. Book Description This new second edition of An Introduction to Genetic Engineering offers undergraduate students a concise, readable, and affordable technical introduction to the science of gene technology.

An Introduction to Genetic Engineering eBook: Nichol ...
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 discipline.

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The term genetic engineering is often thought to be rather emotive or even trivial, yet it is probably the label that most people would recognise. However, there are several other terms that can be used to describe the technology, including gene manipulation, gene cloning, recombinant DNA technology, genetic modification, and the new genetics. There are also legal definitions used in administering regulatory mechanisms in countries where genetic engineering is practised.

Introduction (Chapter 1) - An Introduction to Genetic ...
Jason Manford is currently reading it Dec 06. A final chapter discusses the ethical questions surrounding genetic engineering in general. An Introduction to Genetic Engineering is essential reading for undergraduate students of biotechnology, genetics, molecular biology, and biochemistry. Nichol No preview available – Return to Book Page.

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An Introduction to Genetic Engineering: 9780521615211 ...
The author presents a basic introduction to the world of genetic engineering. Some twenty years have passed since the first recombinant DNA molecules were constructed at Stanford University. Genetic engineering is now a reality and this book simply and concisely describes to the student the full range of enabling technologies available.

An Introduction to Genetic Engineering by Nichol Desmond ...
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