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## 1.1: Introduction to Biotechnology

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applications, it often overlaps with related scientific fields. In the late 20th and early 21st centuries, biotechnology has expanded to include new and diverse sciences, such as genomics, recombinant gene techniques, applied immunology, and ...

**Biotechnology - Wikipedia**



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Introduction to Biotechnology and Genetic Engineering A. J. Nair , PhD.  
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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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Maintaining a wide genetic base, which is an important element of biodiversity, is also essential to the future of biotechnology and the sustainable use of biological resources. Biotechnology also holds tremendous implication in increasing our bio-energy resources by increasing the acceptability of biomass, biogas and fuel alcohol as commercially

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feasible energy options for the future.

## **Biotechnology - An Introduction to Biotechnology | Essay**

Genetic engineers have developed genetic recombination techniques to manipulate gene sequences in plants, animals and other organisms to express specific traits. Applications for genetic

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engineering are increasing as engineers and scientists work together to identify the locations and functions of specific genes in the DNA sequence of various organisms.

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Biotechnology is the use of biological  
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Biotechnology was used for breeding livestock and crops long before people understood the scientific basis of these techniques. Since the discovery of the structure of DNA in 1953, the biotechnology field has grown rapidly through both academic research and private companies.



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animals for thousands of years through  
plant and animal breeding, the kind of  
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