

Structure Of Dna In Gujarati

[illegible]

00000000 0000 00 00000000 000000 000000 (double helix) 000000 0000 00. 0 0000000000 0000 (bases), 000000
 (sugar), 000 00000000 (phosphate) 0000000000000000 0000000 0000 00. 00000000 0 0000 00000 0000 00000000
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Introduction to Genetic Engineering

Genetic engineering is the process of altering the genetic makeup of an organism. It involves the manipulation of DNA, the molecule that carries the instructions for building and maintaining an organism. This technology has a wide range of applications, from medicine to agriculture.

History of Genetic Engineering

The history of genetic engineering dates back to the early 20th century. It was during this time that scientists began to understand the structure and function of DNA. This knowledge led to the development of techniques for manipulating DNA.

Applications of Genetic Engineering

Genetic engineering has a wide range of applications, including:

- CRISPR Gene Editing:** A revolutionary technique for editing DNA. It allows scientists to make precise changes to the genome, which can be used to treat genetic diseases or improve crops.
- Gene Therapy:** A technique for treating genetic diseases by replacing a faulty gene with a healthy one. This has been used to treat a variety of conditions, including sickle cell anemia and certain types of blindness.
- Gene Editing in Agriculture:** Genetic engineering is used to create crops that are more resistant to pests and diseases, or that have improved nutritional value. This can help to increase food security and reduce the need for pesticides.

FAQs

DNA is the molecule that carries the instructions for building and maintaining an organism. It is made up of a long chain of nucleotides, which are the building blocks of DNA. Each nucleotide consists of a sugar, a phosphate group, and a nitrogenous base. The sequence of the bases determines the genetic code.

Frequently Asked Questions

DNA: What is it and how does it work?

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