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The chemical structure of RNA is very similar to that of DNA, but differs in three primary ways: . Unlike double-stranded DNA, RNA is a single-stranded molecule in many of its biological roles and consists of a much shorter chain of nucleotides. However, RNA can, by complementary base pairing, form intrastrand (i.e., single-strand) double helices, as in tRNA.

RNA - Wikipedia

Helicases are a class of enzymes vital to all organisms. Their main function is to unpackage an organism's genes. They are motor proteins that move directionally along a nucleic acid phosphodiester backbone, separating two annealed nucleic acid strands (i.e., DNA, RNA, or RNA-DNA hybrid) using energy derived from ATP hydrolysis. There are many helicases resulting from the great variety of ...

Helicase - Wikipedia

Cpf1 is an RNA-guided endonuclease of a type V CRISPR-Cas system that has been recently harnessed for genome editing. Here, we report the crystal structure of *Acidaminococcus* sp. Cpf1 (AsCpf1) in complex with the guide RNA and its target DNA at 2.8 Å resolution. AsCpf1 adopts a bilobed architecture, with the RNA-DNA heteroduplex bound inside the central channel.

Crystal Structure of Cpf1 in Complex with Guide RNA and ...

The CRISPR-associated endonuclease Cas9 can be targeted to specific genomic loci by single guide RNAs (sgRNAs). Here, we report the crystal structure of *Streptococcus pyogenes* Cas9 in complex with sgRNA and its target DNA at 2.5 Å resolution. The structure revealed a bilobed architecture composed of target recognition and nuclease lobes, accommodating the sgRNA:DNA heteroduplex in a ...

Crystal Structure of Cas9 in Complex with Guide RNA and ...

Using Cas9-induced DNA double-strand cleavage to insert a gene via Homology Directed Repair. 1: Cleavage of desired strand by Cas9 RNA guided nuclease.

Homology-Directed Repair | CRISPR/Cas9 - sites.tufts.edu

Talk Overview. Jennifer Doudna: Genome Engineering with CRISPR-Cas9: Birth of a Breakthrough Technology. Jennifer Doudna tells the story of how studying the way bacteria fight viral infection turned into a genomic engineering technology that has transformed molecular biology research.

Genome Engineering with CRISPR-Cas9: Birth of a ...

Directed evolution circumvents our profound ignorance of how a protein's sequence encodes its function by using iterative rounds of random mutation and artificial selection to discover new and ...

Exploring protein fitness landscapes by directed evolution ...

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Three years after the Neurospora paper, George Beadle became aware of the work Archibald Garrod did on alkaptonuria in 1902. Beadle saw the similarities and credited Garrod with being the first to work on the "one gene/one protein" theory. In 1902, Archibald Garrod proposed that diseases are "inborn errors of metabolism."

George Wells Beadle :: DNA from the Beginning

RNA Bee - RNA Isolation Reagent. Overview. RNA-Bee is a complete and ready-to-use reagent for isolation of total RNA from samples of human, animal, plant, bacterial and viral origin.

RNA Isolation Reagent | amsbio

Molecular Cloning, also known as Maniatis, has served as the foundation of technical expertise in labs worldwide for 30 years. No other manual has been so popular, or so influential.

Molecular Cloning

Novel CRISPR-derived 'base editors' surgically alter DNA or RNA, offering new ways to fix mutations. By Jon Cohen Oct. 25, 2017 , 1:00 PM. Since the start of the CRISPR craze 5 years ago ...

Novel CRISPR-derived 'base editors' surgically alter DNA ...

The Ultra II Directional RNA Library Prep Kit for Illumina delivers significantly increased sensitivity and specificity from your RNA-seq experiments, from ever-decreasing amounts of input RNA.

NEBNext Ultra II Directional RNA Library Prep Kit for ...

In 2016, David Liu and colleagues developed a DNA 'base editor'—a system that would make it possible to change C•G base pairs to T•A base pairs within DNA without introducing double-stranded ...

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