

DNA: THE CODE OF LIFE

Prok	Euk
Single layer (flagella attached)	Double layer
Nuclei	Nucleus
Nucleolus, ribosomes?	Nucleolus
Cell envelope	

↳ From the inside of cell to work.
 The structure of nucleic acid
 Two type of nucleic acid
 Deoxyribose & ribose sugar



↳ DNA found only in eukaryotes
 ↳ RNA found only in prokaryotes
 ↳ RNA found in eukaryotes and attached to a ribosome

Polynucleotide
 ↳ a chain of nucleotides, phosphate, phosphate
 ↳ a chain of nucleotides that are joined together
 ↳ DNA, RNA, rRNA, tRNA

Phosphate group
 ↳ a group of atoms that are bonded together
 ↳ a group of atoms that are bonded together
 ↳ a group of atoms that are bonded together

PROTEIN SYNTHESIS

- Transcription**
- occurs inside DNA nucleus
 - double-stranded DNA unzip to form two opposite strands
 - the strand to used for a template
 - to form mRNA
 - using this that messenger RNA the messenger
 - the mRNA is complementary to the DNA
 - which can be the code message for protein synthesis
- Translation**
- each amino acids a genetic code message
 - form the polypeptide chain
 - transfer with the protein on the ribosome
 - then when amino acid messenger RNA to the ribosome
 - amino acid transfer messenger to each amino acid polypeptide chain to form the polypeptide chain

DNA REPLICATION

What is DNA replication?

- process through which a cell makes an identical copy of its DNA
- The new two strands around each former a messenger molecule
- controlled by enzymes

What is DNA replication?

1. Each original strand of DNA acts as a template for itself
2. The original strands of DNA to split
3. Free DNA nucleotides are joined to the messenger strand using the energy source of the DNA using the complementary strand
4. The complementary strands form, the complementary strands with the complementary strands with

What is DNA replication?

1. New complementary strand formed by the original template
2. The result is 2 messenger template DNA molecules
3. The 2 new DNA strand is equal to their a copy

↳ The original strands acts as a template for the original strands

↳ separation of these strands to the new DNA strands

↳ resulting in a change to the gene structure

Genotyping

- identifying particular traits such as height
- migration
- learning about the origin
- identification of genetic diversity
- forensic testing
- identify disease carriers

Grade Life Sciences Notes

Hongru Du



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