

DNA: THE CODE OF LIFE

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

↳ From the inside of cell envelope.
 The presence of **cellular gate**
 like type of single channel
 membrane & subunit wall



DNA used to store genetic information
 RNA used to transfer information
 RNA found in nucleus and cytoplasm to a ribosome

Polysaccharides → starch, glycogen, cellulose
 → stored energy
 → DNA, RNA, ribosomes, etc. for protein synthesis

Genotyping

- Identifying genetic traits such as height, eye color
- Identifying disease risk
- Identifying genetic disorders
- Forensic testing
- Identify disease carriers

DNA REPLICATION

What is DNA replication?

- 1. DNA molecules consist of two strands that are complementary to each other.
- 2. The two strands separate and form a replication bubble.
- 3. Initiated by enzymes.

What is a replication bubble?

1. Each original strand of the DNA is a template for a new strand.
2. The original strands of DNA is split.
3. Free DNA molecules are added to the replication bubble until they are completely covered by the DNA, now the replication bubble has complementary strands.

What is a replication fork?

1. New complementary strand meet to the original template.
2. The strand is continuously synthesized DNA molecule.
3. The 2 new DNA strand are equal to their parents.

If the parent strands are oriented to the original strand, the replication bubble oriented to the original strand, resulting in a change to the gene structure.

PROTEIN SYNTHESIS

- Transcription**
- occurs inside DNA nucleus.
 - double-stranded DNA under to form two separate strands.
 - the strand is used for a template.
 - to form mRNA.
 - using this that eventually form the polypeptide.
 - the mRNA is complementary to the DNA.
 - which can be the code message for protein synthesis.
- Translation**
- each amino acids is genetic code message.
 - form the polypeptide on the other.
 - transfer with the strand on the other.
 - then when amino acids separated from each other to the ribosome.
 - amino acids transfer separated to each other by amino acids to form the polypeptide.

Life Science And Note Taking Guide

SA Adler



Life Science And Note Taking Guide:

Unveiling the Magic of Words: A Overview of "**Life Science And Note Taking Guide**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Life Science And Note Taking Guide**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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