

3.9 DNA replication and the genetic code

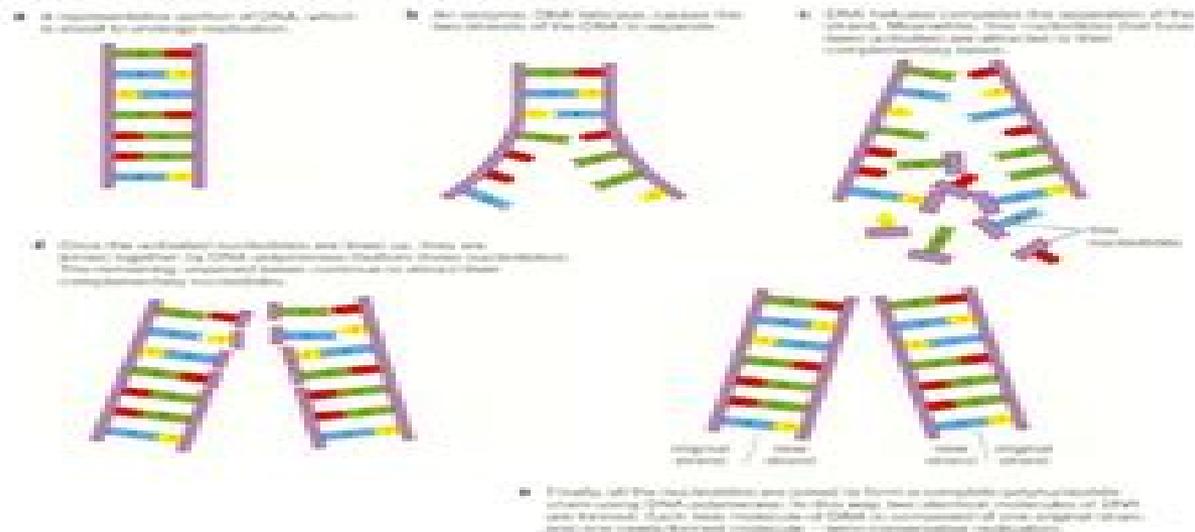
- When the cell divides, two strands of DNA separate and each strand is a template for the creation of new double helix.
- The complementary base pairing ensure that the new helix is identical to the original.

Semi-conservative replication:

- Firstly, DNA Helicase unwinds and separates the two strands of DNA- the H bonds between the bases are broken.
- Free nucleotides then pair up with complementary bases, bonding with H bonds.
- Lastly, the new nucleotides join to their adjacent nucleotides with Phosphodiester bonds, catalysed by DNA Polymerase II
- The new DNA now has half of the old, and half of the new bases.

Role of enzymes in replication:

- DNA replication is controlled by enzymes.
- **DNA helicase** unwinds and separates the two strands of DNA.
- It travels along the DNA backbone, catalysing the breaking of H bonds.
- **DNA polymerase** catalyses the formation of phosphodiester bonds between the nucleotides.
- An error in matching of base pairs leads to changes in coding sequence resulting in **mutation**.



The Genetic Code Growth And Replication

SA Adler



The Genetic Code Growth And Replication:

Decoding **The Genetic Code Growth And Replication**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**The Genetic Code Growth And Replication**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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