

DNA



DNA is a major store of genetic information.



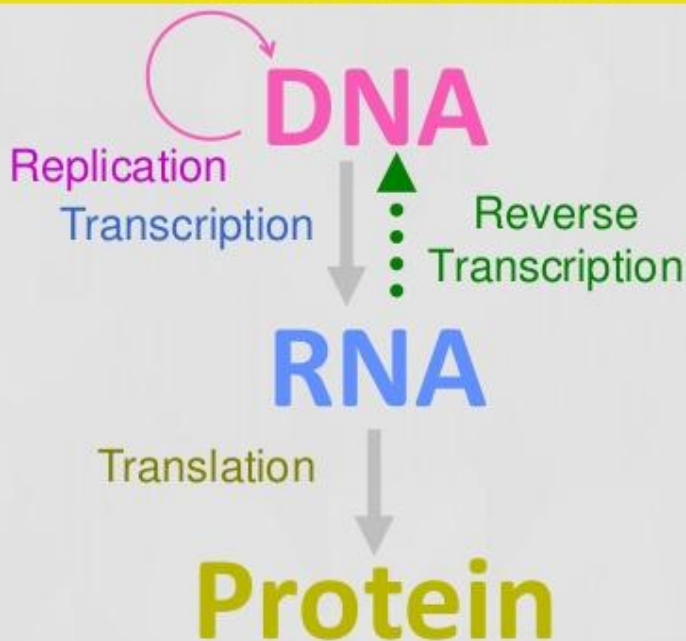
Basis for inheritance



To transfer this genetic information from a parent cell to a daughter cell during cellular reproduction, the DNA must be duplicated.

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CENTRAL DOGMA



- ➔ The flow of information in the cell starts at DNA, which replicates to form more DNA.
- ➔ Information is then "transcribed" into RNA,
- ➔ and then it is "translated" into protein.
- ➔ The proteins do most of the work in the cell.

DNA REPLICATION



The duplication or synthesis of DNA is called replication.

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DNA REPLICATION IS SEMI CONSERVATIVE

- ➔ Each replicated duplex daughter DNA molecule contains **one parent strand** and **one newly synthesized strand**.
- ➔ The base pairing rule is always maintained.

