

Modern Biology - (Open + Free)

Unit 4:: Basis of Molecular Biology

This course is not led by an instructor

RNA Translation-Protein
Synthesis

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Module 12 / Intro to RNA Translation

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The final stage of the Central Dogma is translation, which is defined as **RNA Directed Protein Synthesis**. This process is unique in that it takes information from one type of polymer (RNA) and translates that linear information into the linear sequence of a totally different polymer, a protein. This unit will describe that process and the elements that are required to have it function. The discussion will be organized around,

- the Genetic Code and the use of the triplet code
- the role of transfer-RNA, messenger-RNA and the ribosome in translation
- the formation of the initiation complex, the elongation of the peptide, and the termination of synthesis, and
- the consequences of errors and presentation of mutations

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