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Initiation stage Initiation in translation begins when the small subunit of the ribosome attach to the methylated cap (5' end) of the mRNA and moves towards the initiation site of the mRNA that has codon (AUG). This is followed by the binding of tRNA molecule containing the anti-codon (UAC) that is complementary to the AUG codon which it binds.

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The following points highlight the three main stages for translation of RNA and protein synthesis. The stages are: 1. Initiation of Polypeptide 2. Elongation of Polypeptide: 3. Termination of Polypeptide. Translation of RNA: Stage # 1. Initiation of Polypeptide: Ribosomes exist as separate large and small subunits.

~~3 Main Stages for Translation of RNA | Cell Biology~~

Inside your cells (and the cells of other eukaryotes), translation initiation goes like this: first, the tRNA carrying methionine attaches to the small ribosomal subunit. Together, they bind to the 5' end of the mRNA by recognizing the 5' GTP cap (added during processing in the nucleus).

~~Stages of translation (article) | Khan Academy~~

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The rate of translation varies; it is significantly higher in prokaryotic cells (up to 17–21 amino acid residues per second) than in eukaryotic cells (up to 6–9 amino acid residues per second). [6]

~~Translation (biology) — Wikipedia~~

Translation initiation is a highly ordered process that is regulated primarily by phosphorylation of initiation factors, in particular those that are involved in 5' mRNA cap recognition and eIF4F complex formation. Increased expression or differential phosphorylation of these initiation factors leads to changes in cellular translation rates, which can result in drastic changes in growth, proliferation, differentiation, and survival.

~~Translation Initiation — an overview | ScienceDirect Topics~~

This pathway is divided into eight stages (2–9), which follow (1) recycling of post-termination complexes to yield separated 40S and 60S ribosomal subunits, and result in formation of an 80S ribosomal initiation complex in which Met-tRNA<sup>Met</sup> is base-paired with the initiation codon in the ribosomal P-site and which is competent to start the elongation stage of translation.

~~The Mechanism of Eukaryotic Translation Initiation and ...~~

In molecular biology and genetics, translation is the process in which ribosomes in the cytoplasm or endoplasmic reticulum synthesize proteins after the process transcription of DNA to RNA in the cell's nucleus. The entire process is called gene expression. In translation, messenger RNA (mRNA) is decoded in a ribosome, outside the nucleus, to produce a specific amino acid chain, or polypeptide.

~~Translation (biology) — Wikipedia~~

Regulation of Translation Initiation in Eukaryotes: Mechanisms and Biological Targets Translational control in eukaryotic cells is critical for gene regulation during nutrient deprivation and stress, development and differentiation, nervous system function, aging, and disease.

~~Regulation of Translation Initiation in Eukaryotes ... — Cell~~

Summary Diverse ribonucleoprotein complexes control mRNA processing, translation, and decay. Transcripts in these complexes localize to specific regions of the cell and can condense into non-membrane-bound structures such as stress granules. It has proven challenging to map the RNA composition of these large and dynamic structures, however.

~~Proximity RNA Labeling by APEX-Seq ... — Molecular Cell~~

Translation is segmented into four stages: initiation, elongation, termination and ribosome recycling. Modulation of translation typically occurs at the initiation stage which requires the co-ordination of many translational factors and ribosomal subunits (Sonenberg and Hinnebusch, 2009).

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