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Translation Initiation: Cell Biology, High-Throughput Methods, and Chemical-Based Approaches. Jon Lorsch. Volume 431, Pages 1-348 (2007) Download full volume. Previous volume. Next volume. Actions for selected chapters. Select all / Deselect all. Download PDFs Export citations.

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Translation Initiation: Cell Biology, High-throughput and ...

Control of mRNA translation plays a crucial role in the regulation of gene expression and is critical for cellular homeostasis. Dysregulation of translation initiation factors has been documented in several pathologies including cancer. Aberrant function of translation initiation factors leads to translation reprogramming that promotes proliferation, survival, angiogenesis, and metastasis.

Translation Initiation Factors ... - Home: Cell Press

Abstract Regulation of translation initiation is a central control point in animal cells. We review our current understanding of the mechanisms of regulation, drawing particularly on examples in which the biological consequences of the regulation are clear. Specific mRNAs can be controlled via sequences in their 5′ and 3′ untranslated regions (UTRs) and by alterations in the translation ...

CONTROL OF TRANSLATION INITIATION IN ANIMALS | Annual ...

between TIS sequence and translation initiation efficiency. Here, we combined fluorescence-activated cell sorting (FACS) with high-throughput DNA sequencing to analyze the translation initiation efficiency of 65,536 TIS sequences. After gauging the translation level mediated by each TIS sequence utilizing an AUG start codon,

Quantitative analysis of mammalian translation initiation ...
Translation of RNA: Stage # 1. Initiation of Polypeptide: Ribosomes exist as separate large and small subunits. The first step in translation involves the binding of the small ribosomal subunit to the mRNA. Translation usually begins at the sequence AUG, sometimes GUG, which encodes methionine and is known as the translation initiation codon.

3 Main Stages for Translation of RNA | Cell Biology
In stressed cells high levels of eIF2α phosphorylation delays ribosome capacitation and favors reinitiation at ATF4 over the inhibitory uORF2. These features are common to regulated translation of GCN4 in yeast. The metazoan ISR thus resembles the yeast general control response both in its target genes and its mechanistic details.

Translation reinitiation at alternative open reading ...
All organisms live in continuously changing environments, and RNA-binding proteins are critically important in responding to resulting stresses. Bresson et al. followed both global and specific changes in RNA-protein interactions over short times following glucose starvation or heat shock. The results reveal mechanisms underlying translational control of gene expression during stress.

Stress-Induced Translation Inhibition through ... - cell.com
This probability of initiation, or translational initiation efficiency, is governed by the sequence of the translation initiation site (TIS), which consists of the start codon and its adjacent bases. Therefore, cells can control translation levels in a gene sequence-dependent manner by controlling the efficiency at which a ribosome recognizes the start codon and initiates translation.

Quantitative analysis of mammalian translation initiation ...
Cancer cells are continually exposed to environmental stressors forcing them to adapt their protein production to survive. The translational machinery can be recruited by malignant cells to synthesize proteins required to promote their survival, even in times of high physiological and pathological s ...

Relevance of Translation Initiation in Diffuse Glioma ...
cells Review Relevance of Translation Initiation in Di use Glioma Biology and its Therapeutic Potential Digregorio Marina 1, Lombard Arnaud 1,2, Lumapat Paul Noel 1, Scholtes Felix 1,2, Rogister Bernard 1,3 and Coppieters Natacha 1,* 1 Laboratory of Nervous System Disorders and Therapy, GIGA-Neurosciences Research Centre, University of Liège, 4000 Liège, Belgium; marina.digregorio@uliege.be ...

Relevance of Translation Initiation in Di Biology and its ...
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
The initiation of protein synthesis begins with the formation of an initiation complex. In E. coli , this complex involves the small 30S ribosome, the mRNA template, three initiation factors that help the ribosome assemble correctly, guanosine triphosphate (GTP) that acts as an energy source, and a special initiator tRNA carrying N -formyl-methionine (fMet-tRNAf Met) (Figure 4).

Prokaryotic Transcription and Translation | Biology for ...
Industrializing a Bacterial Strain for l -Serine Production through Translation Initiation Optimization. Maja Rennig, Hemanshu Mundhada, Gossa Garedew Wordofa, ... high performing cell factory is a major time and money ... Turning a proof-of-concept synthetic biology design into a robust, high performing cell factory is a major time and money ...

Industrializing a Bacterial Strain for l -Serine ...
Prokaryotic Translation (Protein Synthesis) Translation involves translating the sequence of a messenger RNA (mRNA) molecule to a sequence of amino acids during protein synthesis. It is the process in which ribosomes in the cytoplasm or ER synthesize proteins after the process of transcription of DNA to RNA.

Prokaryotic Translation (Protein Synthesis) | Molecular ...
An initiation-specific translation inhibitor, harringtonine, depletes elongating ribosomes from mRNAs, thereby halting ribosomes at initiation codons by an unknown mechanism . This approach uncovered an unexpected abundance of alternative TIS codons, in particular non-AUG codons in the 5′ UTR of the mRNA.

Global mapping of translation initiation sites in ...
The poor patient outcome in PDAC is largely due to the high prevalence of systemic metastasis at the time of diagnosis and lack of effective therapeutics that target disseminated cells. The fact that the underlying mechanisms driving PDAC cell migration and dissemination are poorly understood have hindered drug development and compounded the lack of clinical success in this disease.