

## Protein Synthesis And Translational Control Cold Spring Harbor Perspectives In Biology

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### Protein Synthesis And Translational Control

Understanding how the innate immune system senses coronaviruses and how coronaviruses can escape detection could provide novel approaches to tackle infections. Coronaviruses, including SARS-CoV-2, ...

### Innate immune sensing of coronavirus and viral evasion strategies

The effects of high potassium and normal potassium treatments on protein expression in roots of flue-cured tobacco plant HKDN-5 at the seedling stage were analyzed by an unlabeled protein ...

### Differential proteomics of tobacco seedling roots at high and low potassium concentrations

The compound 4EGI-1, which inhibits the formation of eIF4E-mediated translational machinery, reduced protein synthesis and restored a balance ... and neuroguidin, control the association of eIF4E with ...

### Reducing eIF4E-eIF4G interactions restores the balance between protein synthesis and actin dynamics in fragile X syndrome model mice

To better understand how RNA in bacteria gives rise to protein—and along ... found that modulating the translation of a nascent mRNA affects the downstream synthesis of the mRNA itself.

### RNA holds the reins in bacteria: Researchers observe RNA controlling protein synthesis

A research group working at Uppsala University has succeeded in studying 'translation factors' - important components of a cell's protein ...

### Molecular biologists travel back in time 3 billion years

Whether translational control plays a general role in meiotic protein production ... A high-resolution atlas of meiotic mRNA abundance and new protein synthesis. Our studies relied on three critical ...

### High-Resolution View of the Yeast Meiotic Program Revealed by Ribosome Profiling

Others are deposited in response to external cues and adapt global protein synthesis and gene-specific translational ... these modifications can control the turnover and/or translation of transcripts ...

### RNA modifications modulate gene expression during development

They have emerged as powerful tools to control the levels of specific ... that avoid undesired systemic toxicity. Protein levels in cells result from a tightly controlled balance between synthesis and ...

### PHOTACs enable optical control of protein degradation

Scientists at the Tokyo Institute of Technology (Tokyo Tech) have discovered that autophagy plays a key role in messenger RNA (mRNA) degradation.

### Selective mRNA Degradation via Autophagy: A Novel Role for Autophagy in Gene Regulation

Sickle cell disease (SCD) leads to substantial morbidity and decreased life span. It has been proven difficult to achieve therapeutic  $\gamma$ -globin production using hematopoietic stem cell gene therapy.

### Sustained fetal hemoglobin induction in vivo is achieved by BCL11A interference and coexpressed truncated erythropoietin receptor

Each protein ... the protein synthesis machinery of its host tissue, but not more so than influenza or the bat coronavirus. This suggests that factors other than translational efficiency play ...

### Viruses adapt to 'language of human cells' to hijack protein synthesis

We are a single-molecule lab that develops and applies high-resolution single-molecule optical techniques to study the molecular mechanisms of protein synthesis and translational control of gene ...

### Postdoctoral Position

similarly attenuates global protein synthesis [reviewed in (3)]. However, eIF2 $\alpha$  phosphorylation also paradoxically increases the translation of select mRNAs, including activating transcription factor ...

### Phosphorylation of eIF2 $\alpha$ triggered by mTORC1 inhibition and PP6C activation is required for autophagy and is aberrant in PP6C-mutated melanoma

See allHide authors and affiliations In changing environments, cells modulate resource budgeting through distinct metabolic routes to control growth ... nucleotide synthesis, transcription, and ...

### Kog1/Raptor mediates metabolic rewiring during nutrient limitation by controlling SNF1/AMPK activity

Developers say optimized, shelf-stable cell-free tech could enable single 1,000 liter reactor to produce 40M vaccine doses/day at \$1 per dose.

### Membrane Vesicles Unlock Potential for Freeze Dried Cell-Free Expression Tech to Mass Produce Vaccines On Site

1 Successful cytosolic delivery of mRNA results in synthesis of the encoded protein ... formulations have been developed to facilitate mRNA uptake, increase protein translation, and protect mRNA from ...

### Messenger RNA Vaccines: Beckoning of a New Era in Cancer Immunotherapy

mRNA (messenger RNA) is a genetic material which carries the genetic information from DNA to ribosome and where it specifies the sequence of amino acids for the protein synthesis. mRNA vaccines ...

### MRNA Vaccines and Therapeutics Market size is Projected to reach USD 2911.9 million 2026, Says Brandessence Market Research

To better understand how RNA in bacteria gives rise to protein -- and potentially ... found that modulating the translation of a nascent mRNA affects the downstream synthesis of the mRNA itself.

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