

translational regulation of gene pdf

gene product. First, the transcription of the gene can be regulated. This is known as transcriptional regulation. When the gene is transcribed and how much it is transcribed influences the amount of gene product that is made. Second, if the gene encodes a protein, it can be regulated at the translational level. This is

Gene expression and regulation - Wiley-Blackwell

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Chapter 5 - Translational Control of Gene Expression: From

on the primary regulation of gonadotropin gene transcription. However, gonadotropin production is not easily explained solely on the basis of transcriptional control and a more complete description of gonadotropin gene expression must incorporate other modes of gene regulation, including the regulation of protein synthesis.

Translational control of gene expression in the gonadotrope

One of the best characterized models of translational control involving cis-acting RNA elements is the regulation of translation of maternally inherited mRNA by cytoplasmic polyadenylation in *Xenopus* oocytes. Polyadenylation is required before the mRNA can be translated, and regulation of this step is therefore necessary for oocyte maturation and embryonic development.

Translational regulation of gene expression

step in the gene-expression pathway, which mediates the formation of the proteome from genomic information. The regulation of translation is a mechanism that is used to modulate gene expression in a wide range of biological situations. From early embryonic development to cell differentiation and metabolism, translation

MOLECULAR MECHANISMS OF TRANSLATIONAL CONTROL

Regulation of Transcription Initiation: Examples from Bacteria 5 Cooperative Binding and Allostery Have Many Roles in Gene Regulation We have already pointed out that gene activation can be mediated by simple cooperative binding: the activator interacts simultaneously with DNA and with polymerase and so recruits the enzyme to the promoter.

CHAPTER 16 Gene Regulation in Prokaryotes - Biology

The concentration of transcripts from any given gene can then be compared between the two fractions, with differences indicating translational regulation of gene expression. Thus, polysome profiling is a relatively straightforward method for characterizing the translome, providing a direct measure of translational regulation, and, when ...

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