

TRANSLATIONAL REGULATION OF GENE EXPRESSION (PAPERBACK)



Springer-Verlag New York Inc., United States, 2012. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Given the accelerated growth of knowledge in the field of gene expression, it seemed timely to discuss current developments in the area of translational regulation of gene expression as well as to evaluate emerging technology. Translational regulation occurs with prokaryotic as well as with eukaryotic messenger RNA (mRNA) in vivo and in vitro. In prokaryotes, through genetic manipulations and mutagenesis, the mechanisms are much better understood, as for example the mechanism of attenuation. In bacteria, different translational efficiencies for the same mRNA may vary by 1000-fold. Translational regulation was first observed in 1966 with RNA phages of *Escherichia coli* by Lodish and Zinder. However, translational regulation of proteins from DNA genomes is also well described for bacteria, as for example gene 32 protein of bacteriophage T4 and *E. coli* ribosomal proteins. In eukaryotes, the utilization of an individual mRNA species with different efficiencies is poorly understood. For example, mRNA for ribosomal proteins is translationally regulated during *Drosophila* oogenesis, without any clue to the mechanism involved. It was observed that ribosomal protein mRNA during *Drosophila* oogenesis and embryogenesis is selectively on or off the polysomes during different developmental stages. In contrast, bacterial ribosomal protein is also translationally regulated by autogenous regulation. The mechanism is well understood and involves binding of the gene product to its transcript in competition with rRNA. Softcover reprint of the original 1st ed. 1987.



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