
Essential Cell Biology Chapter 8: Control of Gene Expression Questions and Answers 2023

Housekeeping Proteins - -Proteins common to many cell types, concerned with basic metabolic and structural functions.

-Regulatory DNA Sequences - -DNA sequence to which a transcription regulator binds to determine when where & in what quantities a gene is to be transcribed into RNA.

-Transcription Regulators - -Proteins that bind specifically to a regulatory DNA sequence; involved in controlling whether a gene is switched on or off; activator or repressor. Can coordinate the expression of MANY genes.

-DNA Binding Motifs - -3D substructure that is found in many proteins; bind regulatory DNA-binding proteins at enhancer/bidning/operator sites; interact with specific sequences of bases, usually through the major groove of the DNA helix.

Ex. Zinc Finger, Helix-turn-helix

-+glucose -lactose - -Repressor bound, Cap NOT bound; Operon OFF.

-+glucose +lactose - -Cap not bound, repressor not bound; Operon OFF. Increased concentration of Allolactose.

--glucose +lactose - -Cap bound, repressor not bound; Operon ON. Cyclic AMP is produced. Lac Z, the first enzyme of the operon , encodes for the enzyme beta-galactosidase.

--glucose -lactose - -Cap bound, repressor bound. Operon OFF.

-Beta-galactosidase - -Enzyme that breaks down lactose into glucose and galactose.

-Enhancers - -Binding sites for activator proteins.

-Combinatorial Control - -The control of gene expression in which more than one regulatory protein is used and expression is allowed only in a specific combination of conditions. The coordination of multiple proteins to initiate a SINGLE gene being transcribed.

-DNA Methylation - -The addition of methyl groups ($-\text{CH}_3$) to bases of DNA after DNA synthesis; may serve as a long-term control of gene expression.

-RNAi (RNA interference) - -Inhibition of gene expression by RNA molecules.

Biology Guide Control Of Gene Expression Answers

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