

Chapter 8: Microbial Genetics

Expression: The expression of the gene. Genetic information is used within a cell to produce the proteins needed for the cell to function. A cell uses genetic information contained in DNA to make its proteins including enzymes.

- Be able to detail the processes of transcription and translation
 - Transcription: going from DNA to mRNA (Messenger RNA). Scribe = copy. Staying in the same language (Nucleic acid)
 - It begins at the promoter sequence
 - 5 prime to 3 prime direction
 - Stops when the RNA polymerase hits the terminator
 - Three stages
 - ❖ Initiation: RNA polymerase binds to a promoter
 - ❖ Elongation: synthesis by adding complementary nucleotides
 - ❖ Termination: RNA polymerase reaches the terminator
 - Eukaryote specific transcription
 - Transcription occurs in the nucleus
 - Exons are regions of the DNA that code for proteins (They are what you need and they are exported out)
 - Introns are regions of DNA, do not code for proteins (they are in the way and you do not need them)
 - Spliceosomes are large RNA-proteins complex that removes introns and splice together exons
 - Composed of 5 small nuclear ribonucleoproteins (snRNPs) and RNA
 - Translation: going from mRNA to proteins. Translate between two languages (nucleic acid to amino acids) You need: mRNA, ribosomes, amino acids, and tRNA.
 - Messenger RNA carries coded information from DNA to ribosomes
 - Ribosomes: ribosomal RNA integral part of ribosomes
 - tRNA: transports amino acids during protein synthesis
 - In bacteria, translations can begin before transcription is complete.
- Be able to explain in detail at least one of the ways gene expression is regulated (lac and trp operons)
 - Constitutive genes are expressed at a fixed rate
 - Inducible genes turns ON gene expression (LAC)
 - Initiated by an inducer

Microbiology Genetics Study Guide

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