

A Level Biology Control of Gene Expression Lesson & Activities

Transcriptional Control

Specification Link: Genomes 6.3.2

Transcription:
This is the first stage of gene expression. It is the process by which the information in a gene is used to produce an RNA molecule. This is done by copying the DNA sequence into a complementary RNA sequence. The RNA molecule is then used to produce a protein.

Diagram: A diagram showing a DNA double helix with a transcription bubble. RNA polymerase is shown moving along the DNA, synthesizing an mRNA strand. Labels include: DNA, RNA polymerase, mRNA, and Transcription bubble.

Task:
1. Read the information carefully.
2. Write the answer in your book.

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Post-transcriptional Control

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RNA Processing:
The process of converting a primary transcript into a mature mRNA molecule. This involves the removal of introns and the joining of exons. The mature mRNA is then used to produce a protein.

Diagram: A diagram showing the process of RNA processing. A primary transcript with introns and exons is shown. An arrow points to a mature mRNA molecule where the introns have been removed and the exons joined together. Labels include: Primary transcript, Intron, Exon, and Mature mRNA.

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Translational Control

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Translation:
The process of converting an mRNA molecule into a protein. This is done by reading the mRNA sequence and using the genetic code to determine the sequence of amino acids in the protein.

Diagram: A diagram showing the process of translation. An mRNA molecule is shown being read by a ribosome. Amino acids are being added to a growing polypeptide chain. Labels include: mRNA, Ribosome, and Polypeptide chain.

Control of Gene Expression

Specification Link: Genomes 6.3.2

Diagram: A large diagram showing the control of gene expression. It includes labels for DNA, RNA, Protein, Transcription, Translation, and various regulatory mechanisms like methylation, acetylation, and phosphorylation. The diagram shows how these mechanisms can turn genes 'on' or 'off'.

What effect does heterochromatin have on gene expression?

Diagram: A diagram showing heterochromatin as a tightly packed DNA structure where genes are not expressed. Labels include: Heterochromatin, DNA, and Gene.

Epigenetics:
Epigenetics is the study of changes in gene expression that do not involve changes to the underlying DNA sequence. These changes can be passed on to daughter cells and can be influenced by the environment.

Diagram: A diagram showing epigenetic changes. It includes labels for DNA, RNA, Protein, and various epigenetic marks like methylation, acetylation, and phosphorylation.

Task:
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2. Write the answer in your book.



Controlling Gene Expression Worksheet

John Michels (Journalist)



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Neuropeptide GPCRs in Neuroendocrinology, Volume II Maria Lucia Narducci,Francesco Cellini,Andrea Natale,2023-07-07

Real-time PCR M Dorak,2007-01-24 With a variety of detection chemistries an increasing number of platforms multiple choices for analytical methods and the jargon emerging along with these developments real time PCR is facing the risk of becoming an intimidating method especially for beginners Real time PCR provides the basics explains how they are exploited to run a real time PCR assay how the assays are run and where these assays are informative in real life It addresses the most practical aspects of the techniques with the emphasis on how to do it in the laboratory Keeping with the spirit of the Advanced Methods Series most chapters provide an experimental protocol as an example of a specific assay

Acceptance and Commitment Therapy for Behavior Analysts Mark R. Dixon,Steven C. Hayes,Jordan Belisle,2023-03-16 This book provides a thorough discussion of acceptance and commitment therapy or training ACT and a guide for its use by behavior analysts The book emphasizes how the intentional development of six core behavioral processes values committed action acceptance defusion self as context and present moment awareness help establish the psychological flexibility needed to acquire and maintain adaptive behaviors that compete with maladaptive behavior patterns in verbally able clients Split into three parts the book discusses the history and controversy surrounding the rise of acceptance and commitment strategies in behavior analysis and shows how the processes underlying ACT are linked to foundational behavioral scientific principles as amplified by stimulus equivalence and relational learning principles such as those addressed by relational frame theory In a careful step by step way it describes the best practices for administering the acceptance and commitment procedures at the level of the individual client organizational systems and with families Attention is also given to the ethical and scope of practice considerations for

behavior analysts along with recommendations for conducting on going research on this new frontier for behavior analytic treatment across a myriad of populations and behaviors Written by leading experts in the field the book argues that practice must proceed from the basic tenants of behavior analysis and that now is the opportune moment to bring ACT methods to behavior analysts to maximize the scope and depth of behavioral treatments for all people Acceptance and Commitment Therapy for Behavior Analysts will be an essential read for students of behavior analysis and behavior therapy as well as for individuals on graduate training programs that prepare behavior analysts and professionals that are likely to use ACT in their clinical practice and research

Characterization of Glucose-6-phosphate Dehydrogenase Isozymes and Their Roles in the Plant and in Seed Oil Accumulation in Arabidopsis Thaliana Setsuko Wakao,2005 Science John Michels (Journalist),2003

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Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

Bibliography of Agriculture ,1998 Regulation of Gene Expression Gary H. Perdew,Jack P. Vanden Heuvel,Jeffrey M.

Peters,2008-08-17 The use of molecular biology and biochemistry to study the regulation of gene expression has become a major feature of research in the biological sciences Many excellent books and reviews exist that examine the experimental methodology employed in specific areas of molecular biology and regulation of gene expression However we have noticed a lack of books especially textbooks that provide an overview of the rationale and general experimental approaches used to examine chemically or disease mediated alterations in gene expression in mammalian systems For example it has been difficult to find appropriate texts that examine specific experimental goals such as proving that an increased level of mRNA for a given gene is attributable to an increase in transcription rates Regulation of Gene Expression Molecular Mechanisms is intended to serve as either a textbook for graduate students or as a basic reference for laboratory personnel Indeed we are using this book to teach a graduate level class at The Pennsylvania State University For more details about this class please visit <http://moltox.cas.psu.edu> and select Courses The goal for our work is to provide an overview of the various methods and approaches to characterize possible mechanisms of gene regulation Further we have attempted to provide a framework for students to develop an understanding of how to determine the various mechanisms that lead to altered activity of a specific

protein within a cell Bibliography of Agriculture with Subject Index ,1995 International Journal of Oncology
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