

# A Level Biology Control of Gene Expression Lesson & Activities

### Proportional Control

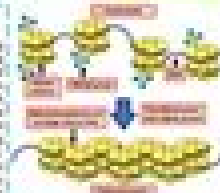
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This is a highly conserved (the sequence is the same across all species) and is a key component of the genetic code. The sequence of the gene is transcribed into mRNA, which is then translated into a protein. The protein is then modified by a post-translational modification (PTM) and then a post-translational modification (PTM) to become a functional protein. The functional protein then interacts with a target molecule, leading to a specific cellular response.

**Gene**

- Basic life information and code
- DNA and RNA
- Protein



**Check the information carefully**

### Transcriptional Control

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The diagram shows a cross-section of a cell. The nucleus is at the top, containing DNA and a nucleolus. The rough endoplasmic reticulum (ER) is shown as a series of flattened sacs (cisternae) studded with ribosomes. The Golgi apparatus is a stack of flattened sacs. Lysosomes are small, spherical organelles containing digestive enzymes. Arrows indicate the flow of materials between these organelles.

**Task:**

1. Read the information carefully.
2. Fill out the notes on your sheet.



Without this section on your sheet:

Plant = *Fraxinus excelsior* L. *Quercus*

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**Abstract**

The product of transcription is a polynucleotide molecule, polynucleotide is another term for RNA. This molecule is not used for information and used for the synthesis of the protein product. The amino acids in the protein are joined together in the ribosome. The amino acids are joined together by peptide bonds. The amino acids are joined together by peptide bonds. The amino acids are joined together by peptide bonds.



1. Read the information carefully.
2. Fill out the section on your sheet.

**Transcriptome and Genotype**

**Keywords:** child sexual abuse; disclosure; help-seeking; mental health

Source: <http://www.fishbase.org>

Abstract: This paper presents a new method for the automatic generation of a control policy for a system with a nonlinear dynamics. The method is based on the use of a neural network to approximate the control policy. The network is trained using a reinforcement learning algorithm. The results show that the method is able to generate a control policy that is robust to changes in the system parameters. The method is also able to handle systems with a large number of states and actions. The method is compared to other methods in the literature and is shown to be superior in terms of both performance and robustness. The method is also able to handle systems with a large number of states and actions. The method is compared to other methods in the literature and is shown to be superior in terms of both performance and robustness.



### Transcriptional Control

1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

[illegible]

|                                                                                    |                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Members receive their own personal chapter and team ID. Members can be supplied to members in Member ID Region.</p>                                                                                                                                                               |
|  | <p>The addition of a new group under the National team membership is the first step in the process of creating a new team. It is not until the team is created that the team can be added to the National team and the team can be added to the National team.</p>                   |
|  | <p>Members are assigned to a National team membership. The National team membership is the first step in the process of creating a new team. It is not until the team is created that the team can be added to the National team and the team can be added to the National team.</p> |



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**Task: Group work**

1. In pairs, prepare a short presentation on your theoretical learning.
2. Then give presentations to other groups and discuss.
3. In a 5-10 minute free time all teams prepared to produce a final presentation that summarises the key points.
4. By using a feedback to the end of the class we select one team to come up with their chosen presentation to the class (all teams will be ready to go).



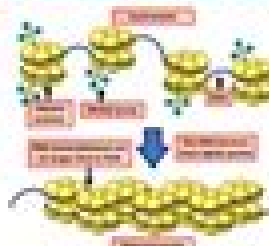
## Control of Gene Expression

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Explain the epigenetic changes that can be made to DNA that affect gene expression

Willen selbst über herangezogen werden, ist eine Voraussetzung.



**Keywords:** child sexual abuse; disclosure; self-blame; social support

The diagram illustrates three types of post-translational modifications on a protein structure, represented by yellow spheres. The modifications are:

- Methylation:** A methyl group (represented by a blue sphere) is attached to the protein.
- Acetylation:** An acetyl group (represented by a blue sphere and two red spheres) is attached to the protein.
- Phosphorylation:** A phosphate group (represented by a blue sphere and four red spheres) is attached to the protein.

Post-transcriptional regulation is the control of gene expression at the RNA level, therefore between the transcription and the translation of the gene. It contributes substantially to gene expression regulation across human tissues.

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## Science

# Controlling Gene Expression Worksheet

**Raffaela Di Napoli**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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web two 2 specific details from the story to support your opinion we get a biased view of lucas because the narration is in 1st person the reader doesn't get to see lucas point of view maybe amy bullies him about academics amy doesn't really have good opinion of her brother lucas is more like an unevolved thugoid

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