

Biology 16

Gene Expression

MCQ

Biology 16 Gene Express.

Author: OpenStax College

Published 2015

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4. Chapter: Biology 16 Gene Expression MCQ

1. Biology 16 Gene Expression MCQ Questions

4.1.1. Control of gene expression in eukaryotic cells occurs at which leve...

Author: OpenStax College

Control of gene expression in eukaryotic cells occurs at which level(s)?

Please choose only one answer:

- only the transcriptional level
- epigenetic and transcriptional levels
- epigenetic, transcriptional, and translational levels
- epigenetic, transcriptional, posttranscriptional, translational, and posttranslational levels

Check the answer of this question online at QuizOver.com:

Question: [Control of gene expression in eukaryotic OpenStax College Biology](#)

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4.1.2. Post-translational control refers to:

Author: OpenStax College

Post-translational control refers to:

Please choose only one answer:

- regulation of gene expression after transcription
- regulation of gene expression after translation
- control of epigenetic activation
- period between transcription and translation

Check the answer of this question online at QuizOver.com:

Question: [Post-translational control refers to: OpenStax College Biology 16](#)

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4.1.3. If glucose is absent, but so is lactose, the lac operon will be ____...

Author: OpenStax College

If glucose is absent, but so is lactose, the lac operon will be _____.

Please choose only one answer:

- activated
- repressed
- activated, but only partially
- mutated

Check the answer of this question online at QuizOver.com:

Question: [If glucose is absent but so is lactose OpenStax College Biology 1](#)

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4.1.4. Prokaryotic cells lack a nucleus. Therefore, the genes in prokaryot...

Author: OpenStax College

Prokaryotic cells lack a nucleus. Therefore, the genes in prokaryotic cells are:

Please choose only one answer:

- all expressed, all of the time
- transcribed and translated almost simultaneously
- transcriptionally controlled because translation begins before transcription ends
- b and c are both true

Check the answer of this question online at QuizOver.com:

Question: [Prokaryotic cells lack a nucleus. Therefore OpenStax College Biology](#)

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4.1.5. What are epigenetic modifications?

Author: OpenStax College

What are epigenetic modifications?

Please choose only one answer:

- the addition of reversible changes to histone proteins and DNA
- the removal of nucleosomes from the DNA
- the addition of more nucleosomes to the DNA
- mutation of the DNA sequence

Check the answer of this question online at QuizOver.com:

Question: [What are epigenetic modifications OpenStax College Biology 16 Gene](#)

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4.1.6. Which of the following are true of epigenetic changes?

Author: OpenStax College

Which of the following are true of epigenetic changes?

Please choose only one answer:

- allow DNA to be transcribed
- move histones to open or close a chromosomal region
- are temporary
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [Which of the following are true of epigenetic OpenStax College Biology](#)

Flashcards:

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4.1.7. The binding of _____ is required for transcription to start.

Author: OpenStax College

The binding of _____ is required for transcription to start.

Please choose only one answer:

- a protein
- DNA polymerase
- RNA polymerase
- a transcription factor

Check the answer of this question online at QuizOver.com:

Question: [The binding of is required for transcription OpenStax College Biology](#)

Flashcards:

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4.1.8. What will result from the binding of a transcription factor to an e...

Author: OpenStax College

What will result from the binding of a transcription factor to an enhancer region?

Please choose only one answer:

- decreased transcription of an adjacent gene
- increased transcription of a distant gene
- alteration of the translation of an adjacent gene
- initiation of the recruitment of RNA polymerase

Check the answer of this question online at QuizOver.com:

Question: [What will result from the binding of a OpenStax College Biology 1](#)

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4.1.9. Which of the following are involved in posttranscriptional control?

Author: OpenStax College

Which of the following are involved in posttranscriptional control?

Please choose only one answer:

- control of RNA splicing
- control of RNA shuttling
- control of RNA stability
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [Which of the following are involved in OpenStax College Biology 1](#)

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4.1.10. Binding of an RNA binding protein will _____ the stability of th...

Author: OpenStax College

Binding of an RNA binding protein will _____ the stability of the RNA molecule.

Please choose only one answer:

- increase
- decrease
- neither increase nor decrease
- either increase or decrease

Check the answer of this question online at QuizOver.com:

Question: [Binding of an RNA binding protein will OpenStax College Biology 1](#)

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4.1.11. Post-translational modifications of proteins can affect which of th...

Author: OpenStax College

Post-translational modifications of proteins can affect which of the following?

Please choose only one answer:

- protein function
- transcriptional regulation
- chromatin modification
- all of the above

Check the answer of this question online at QuizOver.com:

Question: [Post-translational modifications of proteins OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/post-translational-modifications-of-proteins-openstax-college-biology?pdf=1505>

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4.1.12. Cancer causing genes are called _____.

Author: OpenStax College

Cancer causing genes are called _____.

Please choose only one answer:

- transformation genes
- tumor suppressor genes
- oncogenes
- mutated genes

Check the answer of this question online at QuizOver.com:

Question: [Cancer causing genes are called . OpenStax College Biology 16 Gene](#)

Flashcards:

<http://www.quizover.com/flashcards/cancer-causing-genes-are-called-openstax-college-biology-16-gene?pdf=1505>

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4.1.13. Targeted therapies are used in patients with a set gene expression ...

Author: OpenStax College

Targeted therapies are used in patients with a set gene expression pattern. A targeted therapy that prevents the activation of the estrogen receptor in breast cancer would be beneficial to which type of patient?

Please choose only one answer:

- patients who express the EGFR receptor in normal cells
- patients with a mutation that inactivates the estrogen receptor
- patients with lots of the estrogen receptor expressed in their tumor
- patients that have no estrogen receptor expressed in their tumor

Check the answer of this question online at QuizOver.com:

Question: [Targeted therapies are used in patients OpenStax College Biology](#)

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