

Biology 19

The Evolution of Populations

MCQ

Author: OpenStax College

Published 2015

Create, Share, and Discover Online Quizzes.

QuizOver.com is an intuitive and powerful online quiz creator. [learn more](#)

Join QuizOver.com



How to Analyze Stocks

By Yasser Ibrahim

1 month ago
12 Responses

© iStock: Thomson Moter



Pre Employment English

By Katharina Jennifer N

5 months ago
19 Responses

© iStock: Albin



Lean Startup Quiz

By Yasser Ibrahim

2 months ago
16 Responses

© iStock: Gekwiniel Olan

Powered by QuizOver.com

The Leading Online Quiz & Exam Creator

Create, Share and Discover Quizzes & Exams

<http://www.quizover.com>

Disclaimer

All services and content of QuizOver.com are provided under QuizOver.com terms of use on an "as is" basis, without warranty of any kind, either expressed or implied, including, without limitation, warranties that the provided services and content are free of defects, merchantable, fit for a particular purpose or non-infringing.

The entire risk as to the quality and performance of the provided services and content is with you.

In no event shall QuizOver.com be liable for any damages whatsoever arising out of or in connection with the use or performance of the services.

Should any provided services and content prove defective in any respect, you (not the initial developer, author or any other contributor) assume the cost of any necessary servicing, repair or correction.

This disclaimer of warranty constitutes an essential part of these "terms of use".

No use of any services and content of QuizOver.com is authorized hereunder except under this disclaimer.

The detailed and up to date "terms of use" of QuizOver.com can be found under:

<http://www.QuizOver.com/public/termsOfUse.xhtml>

eBook Content License

OpenStax College. Download for free at <http://cnx.org/content/col16448/latest/>

Creative Commons License

Attribution-NonCommercial-NoDerivs 3.0 Unported (CC BY-NC-ND 3.0)

<http://creativecommons.org/licenses/by-nc-nd/3.0/>

You are free to:

Share: copy and redistribute the material in any medium or format

The licensor cannot revoke these freedoms as long as you follow the license terms.

Under the following terms:

Attribution: You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.

NonCommercial: You may not use the material for commercial purposes.

NoDerivatives: If you remix, transform, or build upon the material, you may not distribute the modified material.

No additional restrictions: You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits.

4. Chapter: Biology 19 The Evolution of Populations MCQ

1. Biology 19 The Evolution of Populations MCQ Questions

4.1.1. What is the difference between micro- and macroevolution?

Author: OpenStax College

What is the difference between micro- and macroevolution?

Please choose only one answer:

- Microevolution describes the evolution of small organisms, such as insects, while macroevolution describes the evolution of large organisms, like people and elephants.
- Microevolution describes the evolution of microscopic entities, such as molecules and proteins, while macroevolution describes the evolution of whole organisms.
- Microevolution describes the evolution of organisms in populations, while macroevolution describes the evolution of species over long periods of time.
- Microevolution describes the evolution of organisms over their lifetimes, while macroevolution describes the evolution of organisms over multiple generations.

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

Question: [What is the difference between micro- and OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/what-is-the-difference-between-micro-and-openstax-college-biology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/what-is-the-difference-between-micro-and-openstax-college-biology?pdf=1505>

4.1.2. Population genetics is the study of:

Author: OpenStax College

Population genetics is the study of:

Please choose only one answer:

- how selective forces change the allele frequencies in a population over time
- the genetic basis of population-wide traits
- whether traits have a genetic basis
- the degree of inbreeding in a population

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

Question: [Population genetics is the study of: OpenStax College Biology 19](#)

Flashcards:

<http://www.quizover.com/flashcards/population-genetics-is-the-study-of-openstax-college-biology-19?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/population-genetics-is-the-study-of-openstax-college-biology-19?pdf=1505>

4.1.3. Which of the following populations is not in Hardy-Weinberg equilib...

Author: OpenStax College

Which of the following populations is not in Hardy-Weinberg equilibrium?

Please choose only one answer:

- a population with 12 homozygous recessive individuals (yy), 8 homozygous dominant individuals (YY), and 4 heterozygous individuals (Yy)
- a population in which the allele frequencies do not change over time
- $p^2 + 2pq + q^2 = 1$
- a population undergoing natural selection

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

Question: [Which of the following populations is not OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-populations-is-not-openstax-college-biology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/which-of-the-following-populations-is-not-openstax-college-biology?pdf=1505>

4.1.4. One of the original Amish colonies rose from a ship of colonists th...

Author: OpenStax College

One of the original Amish colonies rose from a ship of colonists that came from Europe. The ship's captain, who had polydactyly, a rare dominant trait, was one of the original colonists. Today, we see a much higher frequency of polydactyly in the Amish population. This is an example of:

Please choose only one answer:

- natural selection
- genetic drift
- founder effect
- b and c

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

Question: [One of the original Amish colonies rose OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/one-of-the-original-amish-colonies-rose-openstax-college-biology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/one-of-the-original-amish-colonies-rose-openstax-college-biology?pdf=1505>

4.1.5. When male lions reach sexual maturity, they leave their group in se...

Author: OpenStax College

When male lions reach sexual maturity, they leave their group in search of a new pride. This can alter the allele frequencies of the population through which of the following mechanisms?

Please choose only one answer:

- natural selection
- genetic drift
- gene flow
- random mating

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [When male lions reach sexual maturity they OpenStax College Biology](http://www.quizover.com/question/when-male-lions-reach-sexual-maturity-they-openstax-college-biology)

Flashcards:

<http://www.quizover.com/flashcards/when-male-lions-reach-sexual-maturity-they-openstax-college-biology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/when-male-lions-reach-sexual-maturity-they-openstax-college-biology?pdf=1505>

4.1.6. Which of the following evolutionary forces can introduce new geneti...

Author: OpenStax College

Which of the following evolutionary forces can introduce new genetic variation into a population?

Please choose only one answer:

- natural selection and genetic drift
- mutation and gene flow
- natural selection and nonrandom mating
- mutation and genetic drift

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

Question: [Which of the following evolutionary forces OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-evolutionary-forces-openstax-college-biology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/which-of-the-following-evolutionary-forces-openstax-college-biology?pdf=1505>

4.1.7. What is assortative mating?

Author: OpenStax College

What is assortative mating?

Please choose only one answer:

- when individuals mate with those who are similar to themselves
- when individuals mate with those who are dissimilar to themselves
- when individuals mate with those who are the most fit in the population
- when individuals mate with those who are least fit in the population

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

Question: [What is assortative mating OpenStax College Biology 19 The Evolution](#)

Flashcards:

<http://www.quizover.com/flashcards/what-is-assortative-mating-openstax-college-biology-19-the-evolution?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/what-is-assortative-mating-openstax-college-biology-19-the-evolution?pdf=1505>

4.1.8. When closely related individuals mate with each other, or inbreed, ...

Author: OpenStax College

When closely related individuals mate with each other, or inbreed, the offspring are often not as fit as the offspring of two unrelated individuals. Why?

Please choose only one answer:

- Close relatives are genetically incompatible.
- The DNA of close relatives reacts negatively in the offspring.
- Inbreeding can bring together rare, deleterious mutations that lead to harmful phenotypes.
- Inbreeding causes normally silent alleles to be expressed.

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

Question: [When closely related individuals mate with OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/when-closely-related-individuals-mate-with-openstax-college-biology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/when-closely-related-individuals-mate-with-openstax-college-biology?pdf=1505>

4.1.9. What is a cline?

Author: OpenStax College

What is a cline?

Please choose only one answer:

- the slope of a mountain where a population lives
- the degree to which a mutation helps an individual survive
- the number of individuals in the population
- gradual geographic variation across an ecological gradient

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

Question: [What is a cline OpenStax College Biology 19 The Evolution of Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/what-is-a-cline-openstax-college-biology-19-the-evolution-of-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/what-is-a-cline-openstax-college-biology-19-the-evolution-of-quest?pdf=1505>

4.1.10. Which type of selection results in greater genetic variance in a po...

Author: OpenStax College

Which type of selection results in greater genetic variance in a population?

Please choose only one answer:

- stabilizing selection
- directional selection
- diversifying selection
- positive frequency-dependent selection

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

Question: [Which type of selection results in greater OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/which-type-of-selection-results-in-greater-openstax-college-biology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/which-type-of-selection-results-in-greater-openstax-college-biology?pdf=1505>

4.1.11. When males and females of a population look or act differently, it ...

Author: OpenStax College

When males and females of a population look or act differently, it is referred to as _____.

Please choose only one answer:

- sexual dimorphism
- sexual selection
- diversifying selection
- a cline

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

Question: [When males and females of a population OpenStax College Biology 1](#)

Flashcards:

<http://www.quizover.com/flashcards/when-males-and-females-of-a-population-openstax-college-biology-1?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/when-males-and-females-of-a-population-openstax-college-biology-1?pdf=1505>

4.1.12. The good genes hypothesis is a theory that explains what?

Author: OpenStax College

The good genes hypothesis is a theory that explains what?

Please choose only one answer:

- why more fit individuals are more likely to have more offspring
- why alleles that confer beneficial traits or behaviors are selected for by natural selection
- why some deleterious mutations are maintained in the population
- why individuals of one sex develop impressive ornamental traits

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

Question: [The good genes hypothesis is a theory that OpenStax College Biology](#)

Flashcards:

<http://www.quizover.com/flashcards/the-good-genes-hypothesis-is-a-theory-that-openstax-college-biology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/the-good-genes-hypothesis-is-a-theory-that-openstax-college-biology?pdf=1505>