

The Gene Hunters

Activity 4: Grades 5-8

Frontiers Pop Quiz



Enter correct quizzes in the FRONTIERS T-shirt drawing [see below!](#)

STUDENT:

TEACHER:

A Passion for DNA

1. What did James Watson and his colleague Francis Crick discover?
 - a) the DNA molecule
 - b) the size of the DNA molecule
 - c) the shape of the DNA molecule
 - d) the shape of human chromosomes

2. Why was Watson and Crick's discovery so important?

7. What skill does Tim Tully enhance genetically in fruit flies?
- a) sense of smell
 - b) ability to detect electric shocks
 - c) memory
 - d) ability to see red.

Genes for Youth

8. What is special about Cynthia Kenyon's mutant strain of worms?
- a) they live twice as long as normal
 - b) they are twice as big as normal
 - c) they reproduce twice as fast as normal
 - d) they move twice as fast as normal
9. What is one of the two ways Kenyon found to regulate the aging process in worms?

Bypass Genes on Trial

10. What does Jeffrey Inzer hope the genes he inserts in his patients will do?
- a) stop the growth of cancer cells
 - b) stimulate the growth of a new heart
 - c) act as a placebo
 - d) stimulate the growth of new blood vessels

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Answers

1. c
2. They proved that DNA is the molecule of heredity.
3. c
4. d
5. Which genes direct development/make a baby.
6. b
7. c
8. a
9. Alter the shape of a hormone receptor. Destroy reproductive cells.
10. d

NOTE: Quizzes with 100% correct answers can be entered by teachers only into our T-shirt drawing. FRONTIERS randomly selects 20 names after each program. Send all correct quizzes in one envelope, along with teacher's name, grade and course, school name and address, where the students watched the show (home or school), and the students' favorite segment. Mail to: FRONTIERS Quiz, Chedd-Angier Production Company, 70 Coolidge Hill Rd., Watertown, MA 02472.