Name _____ **Date** _____

Video: Understanding CRISPR Technology

1. What is CRISPR-Cas9 primarily used for?

a. Cooking

b. Editing genomes

c. Building robots

d. Creating music

2. What does CRISPR stand for?

a. Controlled Rapid Interference System for Bacteria

b. Clustered Regularly Interspaced Short Palindromic Repeats

c. Core Replication Interference System

d. Complex Regularly Integrated Short Palindromic Repeats

3. What is the function of the Cas9 protein in the CRISPR system?

a. To record viral infections

b. To search for and cut viral DNA

c. To enhance bacterial growth

d. To synthesize RNA

4. Which organism's embryos were mentioned as being edited using CRISPR technology?

a. Mice

b. Monkeys

c. Humans

d. Bacteria

5. What ethical concerns are associated with CRISPR technology?

a. None, it is completely safe

b. It can be used for genetic enhancement

c. It is only used for therapeutic purposes

d. It has no impact on society

6. What is one potential application of CRISPR mentioned in the video?

a. Changing the color of hair

b. Correcting mutations causing diseases

c. Creating new species

d. Enhancing taste in food

7. Why is there a call for a global pause in the use of CRISPR?

a. To celebrate its success

b. To discuss ethical and societal implications

c. To increase funding for research

d. To stop all genetic research

Answer Key:

b 00:00:12

b 00:03:06

b 00:01:06

c 00:01:40

b 00:10:25

b 00:06:35

b 00:11:10