

“Gene Editing”

Overview

Gene editing is a technology that allows scientists and researchers to make specific changes to genetic sequences. One system for gene editing is known as CRISPR-Cas9.

Please watch this video about CRISPR-Cas9 then answer the questions below:

<https://youtu.be/1viRt8jV-vk>

Please include the answers to the following questions in your initial reply to the discussion. When you are ready to post, click “Reply” below.

1. How could gene editing be used to treat a genetic disease?
2. The video mentions germline (sex) cells versus somatic (body) cells. If a gene is edited in a somatic cell would the change be passed down to offspring? Explain why or why not.
3. An example of human gene editing from the video is altering the CCR5 gene to create resistance to some strains of HIV. What was one of the issues brought up in the video about this process and how it was conducted?

Reply to one of your classmate’s posts and include the following in your reply. If possible, please choose a classmate who has not yet received a reply.

1. Comment on your classmate's response to question #2 above. Do you agree? Explain your reasoning.
2. Identify an issue that another student wrote about for question #3 above that you had not thought of.

