

Name: Jennifer VegaDate: 4/13/2020

Student Exploration: Genetic Engineering

Vocabulary: callus, exon, genetic engineering, genetically modified organism, genome, green fluorescent protein (GFP), herbicide, insecticide, intron, promoter, transcription, transformation

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What are some things that can damage a farmer's crops? Things that could damage farmer's crops could be the temperature, chemicals, and weather.
2. What can farmers do to protect their crops? Place them in a greenhouse or a controlled space.

Gizmo Warm-up

Many farmers use chemical **herbicides** to kill weeds and **insecticides** to kill insects. Using **genetic engineering**, scientists have developed ways to resist harmful crop pests. In the Genetic Engineering Gizmo, you will use genetic engineering techniques to create **genetically modified** corn.



Check that **Task 1** is selected. The Gizmo shows petri dishes that contain different strains of bacteria (white dots) and caterpillars (Lepidoptera sp. larvae). In the first challenge, your goal is to find bacteria that produce toxins that kill the caterpillars. Click **Play** (▶).

1. What do you observe? In four petri dishes, caterpillars died. In two of them, all four caterpillars died.
2. Which strains of bacteria were able to kill Lepidoptera sp. larvae? Genome of Bacterial strain #4, #5, #8, #10.

Were some more effective than others? Explain. Yes, #4 and #8 were the most effective because they were able to kill all of the caterpillars in the petri dish, while the other two didn't kill all of them.

Some bacteria are able to produce a toxin that kills Lepidoptera sp. larvae. Find out which gene is responsible for this toxin in the next step.

Genetic Engineering Packet Answer Key

Daniel F McAuley



Genetic Engineering Packet Answer Key:

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