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Student Exploration: Genetic Engineering

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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? _____

Bacteria and different insects. As well as birds and other small mammals

2. What can farmers do to protect their crops? _____

Use sprays and different locations such as indoor farming as its becoming very popular although it is a bit more expensive

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? _____

While most of the caterpillars were able to live, several of them did not.

2. Which strains of bacteria were able to kill *Lepidoptera* sp. larvae? _____

strains 4,5,8 and 10

Were some more effective than others? Explain. _____

Other caterpillars perished, indicating that some were far more affected than others.

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 Open Test Answer Key

Terry C. Jones



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