

Activity A:**Caterpillar-resistant corn**Get the Gizmo ready:

- Click **Reset** (↺) and check that **Task 1** is selected in the dropdown menu.



Introduction: Lepidoptera sp. larvae (caterpillars) eat corn kernels, leaves, and stalks. In this activity, use genetic engineering techniques to create a corn plant that is resistant to caterpillars.

Question: How can we produce corn that is resistant to Lepidoptera sp. larvae?

1. **Observe:** Click **Play**. Select one of the strains of bacteria harmful to larvae (by clicking on the plate).

Which strain did you select? _____

2 and 4 additional strains were too severely impacted and perished.

2. **Investigate:** Click **Continue**. The screen now shows the **genome**, or set of genes, of the selected bacteria. One of these genes produces the protein that kills the caterpillars. You will test each gene by adding it to the genome of a bacteria that does not kill caterpillars. This process is called **transformation**.

Drag three genes into the Petri dishes at lower right. These genes are now inserted into the genomes of the sensitive bacteria in the plates. Press **Play**. If none of those genes help to kill the caterpillars, click **Reset** and try three other genes. When you find a gene that kills the caterpillars, click on the Petri dish to select the gene that confers resistance.

Which gene did you select? _____

Gene F

In reality, finding a gene with a desired trait is much less common. Scientists search through many more bacterial strains and potential genes to find the traits they are looking for.

3. **Observe:** Click **Continue**. **Promoters** are regions of DNA that initiate the **transcription** of a gene. Some promoters only work in specific types of cells, such as leaf cells or root cells.

To determine which cells of a corn plant a promoter works in, four promoters have been attached to the **Green Fluorescent Protein** (GFP) gene. Each promoter-GFP gene has been inserted into a corn plant. Select **Lights off** to see the parts of each plant glow green and fill in the table below.

Promoter	Glowing plant part(s)	Promoter	Glowing plant part(s)
1	Roots and leaves	3	Roots
2	leaves	4	leaves

Which promoter is active in only the leaves?

1 and 3

In the whole plant?

1

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Jicheng Xie



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