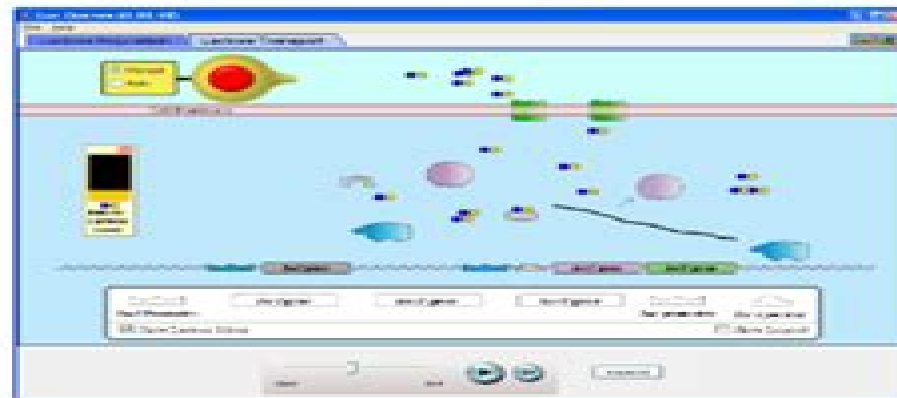


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## Lac Operon Activity – Online Animations and Interactive Learning

### Website 1 – Lac Operon PhET Simulation

<http://phet.colorado.edu/en/simulation/gene-machine-lac-operon>



The goal of this simulation is to help you understand how prokaryotes (note that this is for prokaryotes and NOT eukaryotes) control gene expression. Specifically, this activity will simulate an inducible operon called the lac operon used to control the expression of genes that control lactose levels in bacteria. Again, this is for bacteria only and has nothing to do with lactose catabolism or lactose intolerance in humans.



**Step 1:** Drag the *lac* promoter to the stretch of DNA. Do NOT drag the *lacZ* gene to the DNA. What happens? Why is this?

**Step 2:** Now try dragging the *lacZ* gene to the DNA and note what happens.

**Step 3:** Inject some lactose (about 25 molecules should do it) into the simulation. Note what happens. Specifically, what is lactose being converted into?

**Step 4:** Note that the *lac* enzyme continues to be produced even in the absence of lactose. Why is this a problem? Try dragging the *lac* operator gene onto the stretch of DNA. What is the result?

**Step 5:** Now try adding the *lacI* promoter and gene to the stretch of DNA. What happens?

# Lac Operon Webquest

**Albert A Gayle**



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