

### Bacterial Transformation pre-LAB and study guide:

1. Name three genes the pGLO plasmid contains:

The pGLO plasmid contains an ampicillin resistance gene, a gene that breaks down (arabinose), and a jellyfish gene that makes transgenic bacteria glow in the dark.

2. How does araC regulate GFP?

araC regulates GFP since it is only expressed in the presence of arabinose sugar.

3. Complete the basic procedure:

1. Collect some bacteria from individual colonies from a large petri dish ("source plate").
2. Add special chemical to small tube. Place bacteria into that small tube. Mix well!
4. Separate this solution into control and experimental groups.
5. Add plasmids to experimental group.
6. Expose to different temperatures and add another chemical.
7. Spread solution onto 4 smaller petri dishes in a controlled manner. Each petri dish is unique.
8. Turn petri dishes upside down. Tape together and label.
9. Wait 24 hours. Observe magic.

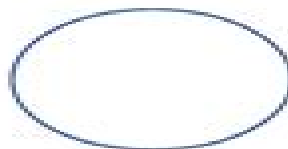
4. What is it called when you expose bacteria to very high temps like 42 degrees C? heat shock
5. Describe what each label indicates for the petri dishes (NOTE: It is possible YOUR petri dishes in lab might have a slightly different labelling system, or your lab team may have to label the dishes. Don't worry, we'll make it clear what each plate is!):

- a. +pGLO LB/amp: The plate has bacteria with the pGLO plasmid and luria broth and ampicillin
- b. +pGLO/LB/amp/ara: The plate has bacteria with the pGLO plasmid and luria broth, ampicillin, arabinose sugar
- c. -pGLO/LB/amp: The plate has bacteria without the pGLO plasmid and luria broth and ampicillin
- d. -pGLO LB: The plate has bacteria without the pGLO plasmid and luria broth

6. Imagine the bacteria are all plated. Now, we will place the plates in the best growing environment (a warm, dark incubator around 35 degrees Celsius) for 24-48 hours. PREDICTIONS: Label each plate below. Predict and then draw the appropriate results for each plate:



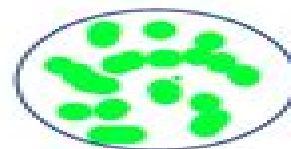
+pGLO LB/amp:



-pGLO/LB/amp



pGLO LB



+pGLO/LB/amp/ara

# Ketstonecreditrecovery Biology Answer

**Neil B. Chambers**



## **Ketstonecreditrecovery Biology Answer:**

*Urban Green* Neil B. Chambers, 2011-07-05 Sustainable design is booming but the men and women dedicated to reducing their carbon impact have lost sight of what they are trying to save the natural world Author Neil Chambers has been at the forefront of cutting edge sustainable architecture for years and Urban Green is his revolutionary vision for bringing the power of the conservation and design movements together He advocates looking to nature for the missing components of the green revolution oysters that can clean water at up to 5 liters an hour beavers that reshape their environments while simultaneously enriching ecosystems and mountains that offer a new way of imagining how a city could be built By designing our homes and cities in harmony with the natural world we can take the next step in the sustainable revolution [Index](#)

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