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Lab 4 Notebook

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Abstract

Prelab

1. How does CRISPR benefit molecular biology?
2. What actually does the "cutting" of the DNA in this system?
3. What is responsible for bringing the CRISPR/Cas 9 system to the desired sequence intended for editing?
4. Read the following protocol and understand each reagent and each step of the protocol:
https://docs.google.com/document/d/1p36d2EGIeUUI0xMfrGBZzdN8VP9Tt74Y/edit?pli=1

- LB Agar, LB Broth, and LB Strep/Kan/Arab. What is the difference between the three? What is their function in the step used?
- Bacterial Transformation Buffer. Why is a transformation buffer necessary?

- What are the sequences of the template DNA and sgRNA?

Lab Results

Provide a picture of the final culture plate and give a description of what has occurred on the plate. It may take time for you to begin seeing results so be patient. If you did not get results, give possible sources of error that could explain why you did not get the intended results and explain what you should've seen had things gone correctly.

Post Lab

Write about half a page on a proposed real-life application of CRISPR of your design. Explain how you think it is possible and why it would be a good option.

Disclaimer:

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