

Saturday September 20, 2025

I started thinking about what my project should be and what kind of topic I wanted to do. I eventually settled on biotechnology.

Wednesday September 24 2025

I start searching some websites to figure out a project that I wanna do. I decide to go for a yeast DNA project since yeast isn't really dangerous.

Sunday September 28 2025

I started thinking of a scientific question and some variables. I decide that I should test if UV rays affect yeast DNA and their growth.

Thursday October 2 2025

I started looking at some websites that could potentially help me to write my background research.

Saturday October 4 2025

I run into a problem because a lot of the terminologies that they use are difficult so I start to use skim reading just to get a general idea.

Tuesday October 7 2025

I got a page of the background research done however I still need a few more websites. I also started to think about my procedure.

Friday October 10, 2025

I have gotten two pages of my research done and I am starting to get a grasp about what my experiment will be.

Thursday October 16, 2025

I have gotten a procedure planned out and will probably start gathering materials. I decide that I can always keep continuing to do my background research.

Sunday October 19, 2025

I changed my project and now will be testing multiple stressors and their affect on yeast colonies. I will then spread the yeast on agar plates and let them grow.

October 21, 2025

I started to tweak my background research to match my new project.

October 22, 2025

I have started to figure out my procedure and am working on my background research so that it focuses on the stressors.

October 23, 2025

I have finalized what different kinds of stressors that I will be using and have pretty much finished the procedure.

October 27, 2025

I looked up some projects that other people have done and am using that for my background research.

November 12-15, 2025

I have made a list of all the materials that I need to gather for my experiment as well as watched how other people have done it.

November 23, 2025

I watched a video on mutations to understand them better and am using that info in my background research.

November 24, 2025

I have written some notes from the mutations video and I have gained a good understanding of how mutations work. I also added my information to the CYSF platform.

November 28, 2026

I continued my research and have added a few more paragraphs that talk about how different stressors affect the yeast like heat, salt and other factors.

November 30, 2026

I have gotten my procedure mostly planned out and ready to go.

January 18, 2026

I decided to go see Dr. Garcia to ask about my project. I asked her about my procedure and if I should add more stressors or not.

January 20, 2026

I decided to change my project slightly and test to see if when yeast is repeatedly exposed to UV, if it forms a resistance.

January 21-29, 2026

I have started to do a lot of research on this topic and read about similar experiments that have been done before.

February 3, 2026

I asked / told Dr. Garcia about this and it seems like this will be my final project. &

Feb, 9, 2026

I have borrowed a 4-watt UV-C lamp that I will be using to shine on the yeast colonies.

I recieved plates from Patynn Laboratories and have also made my own YPD plates that I will be using.

Feb, 10th, 2026

I am starting to test how much UV is a good amount to kill around 70% of the yeast. The yee UV times that I used are 40, 50 and 60 seconds for a yeast mixture that has been diluted to 10^{-6} .

Feb, 15, 2026

I have also grown plates with a yeast dilution of 10^{-4} , 10^{-5} and 10^{-6} . I will have 6 plates in total, 3 control and 3 UV.

The yeast that were grown with the UV and control have grown and it seems like 10^{-6} is the best serial dilution. I have scraped around 10 survivors from the 10^{-6} UV and control broths and placed them into two separate fresh growth media.

It has been 24hrs since I scraped the survivors so I performed the serial dilutions for the UV and control mixtures (10^{-6}) and have plated them for the next generation growth.

After 48 hours of incubation I scraped the colonies again and placed them into a fresh growth broth.

I repeated this process of inoculating and plating.

Friday February 28, 2025

I started printing my background research and other things to put on my trifold.

TRIFOLD PLAN

