Logbook

Please include all Fridays even if not included inside the list, because of weekly science fair meetings.

Nov 3, 2024 - Focused on research and began filling out the Science Fair Description sheet and began writing the Problem and Method.

Nov 7, 2024 - Began researching in depth how OI is made and developed.

Nov 12, 2024 - Did more research on how we can grow OI to become adaptive and specialized to do tasks.

Nov 19, 2024 - Began filling out the basic information on the Cysf website.

Nov 26, 2024 - Filled out and submitted Ethics Due Care Form 2A.

Nov 29, 2024 - Filling out Significant Risk Form 2B as well as researching and writing.

Dec 3, 2024 - Researched about the possible functions of Organoid intelligence.

Dec 10, 2024 - Jan 11, 2025 : Researched on the development of OI and all possible uses.

Jan 12, 2025 - Researched Input and Output that can be used in OI to create machine learning.

Jan 13,2025 - Researched about the application of OI to the immune system and the individual cells.

Jan 14, Jan 15, Jan 16, 2025 - Wrote down research and findings and began researching multiple ways to develop OI.

Jan 15 - Jan 26: Researched and took notes on figures one through 4 and began filling out Research.

Jan 29, 2025 - I have started researching and brainstorming on how to actually apply OI to the immune system and long term homeostasis.

Jan 31, 2025 - I have started looking at the ethics of this type of medicine and its application in vivo (an experiment inside a living organism) and in vitro (tested outside a living organism).

Feb 1, 2025 - I've looked at different ways that I could be able to apply Organoid Intelligence to the immune system, possibly attaching organs to stimulate and produce the immune cells.

Feb 3, 2025 - I've looked at some more diagrams of microfluidic systems and started to design my own model of what the MEA would look like on the organoid.

Feb 5, 2025 - I have completely designed the organoid, I only now need to begin 3D printing it and assembling the design.

Feb 9, 2025 - I am beginning to look at neuroimmune connections and have started to read an article on it. Teaching me how the immune system and the endocrine system communicate with each other.

Feb 12, 2025 - I have looked at smoking articles which are the leading cause of respiratory cancer.

Feb 15, 2025 - I have looked more into the current treatments of cancer today as well as some cancer detection methods.

Feb 20, 2025 - I have looked into transferring information onto the google slides to make the trifold easier to read and more approachable.

Feb 25, 2025 - I looked and compared different Respiratory cancers and pinpointed the common weaknesses that had occurred.

Mar 2, 2025 - I identified the top enemies of all cancers in general and have found out that most of the enemies of cancer were:

- Killer T Cells
- Natural Killer Cells
- Hyper tumors

Mar 3, 2025 - Began printing sheets of paper for the trifold but found errors in the transfer of the pdf into the printer.

Mar 6, 2025 - I have started to transfer the information to a powerpoint that will make it easier to print it out onto a trifold.

Mar 7, 2025 — Mar 12, 2025 - I have been filling the trifold with the powerpoint.