

Proposal

Team ID : UBMS187

Upwards Bounds Math and Science

Area of research: Viral infection caused by certain family of virus

Project title: Viral infection

Team Members

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The issue: There are many types of viruses in the world. It is affecting people worldwide and there are not a variety of cures for it. For instance, there is the virus called Ebola which is spreading in alarming rates and there are no cures for it. Our question is: Is there anyway we could cure or stabilize at least one type of major virus?

Expected results: We hope to cure or isolate any viruses that falls under our research and stop their infections. We would also like to understand how viruses function, how it spreads, and their origins. Currently, our group is researching various viruses to analyze how viruses spread and the symptoms that make them deadly.

Plan of Action: Our plan is to research and collect data on how diseases, like Ebola for instance, spread, infect the human body, and how it kills its victims. With this info, we could find possible cures or stabilizing methods to contain these diseases.

Coding: We hope to simulate the spread of certain viruses using programs such as Netlogo or make a custom program in python that is based on Conway's Game of Life with some of its rules changed to fit our needs.