

# Mutation test (proposal)

## Team:

- Nada Abdalla Ahmed
- Fatma Rabie Abdelaty
- Abdelaziz Gamal Abdelaziz
- Esraa Adel bkr

## Project:

Mutation test, web application in it user will know if patient has cancer or specific mutation or not from his genome.

User will upload FASTA file which has patient's genome... once the user upload a file, the algorithm will work and search for the gene that causes cancer or mutation in the whole genome and if it is found, the algorithm will print that he has cancer with a graphical sequence viewer and if it isn't found, it will print that he is ok

## technologies:

- Rabin-Karp algorithm
- Gene Graphics: a genomic neighborhood data visualization web application
- Ncbi.nlm.nih.gov

## Tasks:

- Front-end >>>> Abdelaziz
- Back-end >>>> Fatma & Esraa
- Biological side, algorithms and tools >>>> Nada