

Alissia Metcalfe

Course: CYSE 200T #28058

Professor: Al Kinoon

March 9, 2026

## Gene Editing and DNA Cybersecurity Risk

### Task A

1. The Data stored on these analysis systems can be converted raw data entered malicious code that can infect the system. DNA could not only be compromised but used to infect entire systems.
2. Ensuring secure laboratories, only allowing access to those who need it (I.D cards). Having sign on credentials on accessible through I.D cards with access, so limiting access to the network. Informing those with access the risk of attacks and how to properly avoid them.

### Task B

Editing humans DNA to prevent diseases seems to be a good thing to do. Possibly removing the extra chromosome to prevent children from being born with down syndrome. However, I can see this being used in a malicious way to further a country in military strength or even creating clones of people from previous time periods. Then there is economic question of who would be able to afford this procedure? To that question I say along with the way healthcare is now in the United States only available to those within the higher class. Still maintaining a social hierarchy dividing the wealthy from the poor.

