

DNA Technology Project

Task: Create a DNA technology company that specializes in one of the following topics. Create a glogster, powerpoint, prizi, or any other electronic format of your choosing to showcase your new technology. Investors will have \$1000 to invest in the companies of their choice. The company with the most amount of money invested will receive 5 bonus points, the second highest with 3 bonus points, and the third highest with 1 bonus point.

Research Topics:

1. Gene cloning with plasmids – insulin production
2. Genomic libraries
3. Southern Blotting with Nucleic acid hybridization
4. Polymerase Chain Reaction and Reverse transcriptase – polymerase chain reaction
5. Gel Electrophoresis – DNA fingerprinting, RFLPs and STRs
6. Dideoxy Chain Termination Method (DNA sequencing) and Human Genome Project
7. Cloning mammals
8. Stem cells
9. Gene Therapy
10. Bioremediation using recombinant plasmids
11. Genetically modified organisms

Your presentation should educate the investors about:

- Company name and logo
- The technology
 - o Define and describe how the technology works, steps of use, how it is created
 - o What is its history (who developed it, when, ect)? [find as much as you can, but some technologies might not have all the specifics listed]
- Current uses
 - o What are the current applications of this technology? (Describe the uses)
- Bioethics, law and society
 - o What are the pros and cons of your technology?
 - o What are the bioethical considerations of the technology?
- Case study
 - o Include a practical or real life example of how your technology has been used
- Presentation must include:
 - o Company name and logo
 - o Pictures of the technology or related items
 - o Name of your technology
 - o SUMMARY of how your technology is used – DO NOT read word for word from your slide
 - o Ethical considerations discussed

Grading Scale	Points Possible	Points Earned
Presentation: <i>neat, organized, colorful, words are large enough to read from a short distance, everyone in the group must speak</i>	20	
Company Name and Logo included	5	
Technology explanation <ul style="list-style-type: none"> - how it works in detail - history 	20 10	
Current use descriptions	15	
Ethics	15	
Case study	5	
Presentation Notes	10	