

Bio 22.1

Goals: Research a topic related to genetic manipulation and/or research

Plan:

Genetic technology in the future: Research paper

Due: Jan 21st

Goal: To research a topic related to genetic information and/manipulation and describe the positives and negatives that could come from this development.

Topics:

You have a broad scope as to what you want to explore, but here are some starting points. If you have another idea, it should be cleared with Mr. Mutsaers first

- CRISPR technology (gene editing)
- Genetically modified organisms (GMO foods)
- Gene patents (can a company own a living thing?)
- Storing of genetic information (genetic “fingerprints”)
- Paternity testing
- Use of DNA in criminal investigations
- Cloning (Dolly the sheep)
- De-extinction (cloning organisms that are no longer alive on earth)
- Others (clear with Mr. Mutsaers)

Requirements:

Five paragraph paper

Paragraph 1: Introduce your topic. Can be humorous, thought provoking or grabs attention with real-world or hypothetical example

Paragraph 2: Survey a short history of your topic. Don't try to reword an entire article, but focus on what has been done in the past and how it was done in simplified terms

Paragraph 3: Argue for the positives of this technology and how it can be useful people in general

Paragraph 4: Determine the possible or real downsides to this technology. Why might we want to use caution?

Paragraph 5: Conclusion. Persuade your audience as to your take on this technology using the evidence you laid out previously.

Citations: At least four online references (not Wikipedia) in MLA format

Bio 22.2

Plan: Polish draft of research paper

HW: Prepare talking points of your topic for discussion next class period

Bio 22.3

Goals: Contrast different genetic technologies and compare pros and cons of each

Plan:

Students will take turns sharing their research thus far

Students will describe the positive and negative consequences of the technology they describe

Other students will pose questions to other students

Ticket out the door: describe what new technology in genetics is the most exciting or troubling to you.
How will it affect you in the future?

HW: Complete research paper (due next Tuesday)