

Honors Biology Biotechnology Research Project

Biotechnology is the use of living systems and organisms to develop or make useful products, or any technological application that uses biological systems, living organisms or derivatives thereof, to make or modify products or processes for specific use. There are many types of biotechnology being used today, but we are going to focus on the six below. You will be working in groups of 4 or 5 to research and develop a presentation for the class.

After you are placed in a group, you will be assigned one topic from the list below. Research this topic using scientific journals and scientific magazines which you will find on the science database located online.

These topics will be covered in the exam. You are required to know basic information and be able to distinguish between them.

Biotechnology Topics

- Gene Therapy
- Human Genome Project
- Stem Cells
- Cloning
- Genetically Modified Organisms
- Gene Banking: Plants and animals

Address each one of the following bullet points thoroughly

- Explain what it is. What is the purpose? Thoroughly explain the procedure for this technology.
- Benefits/Drawbacks
- Examples of this technology. Is it being used today?
- If it is not being used today, why not? When will it become available?
- Current Events or Studies. What is in the news?
- Research: Past and Present

Requirements for the Project

- Presentation using Google Presentation
- 3 or more sources
- All sources properly cited in APA format
- Presentation should be 7-10 minutes
- All members of the group must participate in the presentation