

Genetics: Diseases and Disorders of Humans Project

Name: _____

Humans have long been altering the genes of organisms through selective breeding (eg. Cattle, dogs, fish, plants, etc...) Recently however, advanced in our understanding of DNA have enabled up to modify organisms by directly altering the genes of these organisms, a technique called genetic engineering.

The rapid advances of genetic engineering have brought about great possibilities for ways to combat world hunger, malnutrition, illness, and infertility.

Your job is to choose one of the following genetic engineering topics that you would like to research. Topic ideas are listed below. You will then create a presentation and speech about your topic that you will present to the class in a 5-10 minute presentation.

Choices for topics:

- Genetically modified food/crops
- Genetically modified animals
- Cloning
- In vitro fertilization

You may also choose to research and present on a genetic condition.

<ul style="list-style-type: none">• Achondroplasia (Dwarfism)• Albinism• Adrenal hyperplasia• Autism/Asperger syndrome• Cystic fibrosis• Down Syndrome• Duchenne Muscular Dystrophy• Familial Dysautonomia• Gardner Syndrome (intestinal polyposis)• Gaucher's Disease• Hemophilia• Tay-Sachs• Tourette Syndrome	<ul style="list-style-type: none">• Huntington's Disease• Jacobsen Syndrome• Klinefelters Syndrome• Klippel-Feil Dyndrome• Leukodystrophy• Lou Gehrigs Disease (ALS)• Marfan Syndrome• Moebius Syndrome• Progeria• Proteus Syndrome• Retinoblastoma• Rett's Syndrome• Turner Syndrome• Spinocerebellar Ataxia
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In your presentation you must answer the following questions

- What is the name of the disorder?
- What is the history behind the disorder?
- Who discovered it or/and who did the research on the disease?
- How is the disorder diagnosed?
- How does the person receive the disorder?
- Is it sex-linked or autosomal? A mutation? Is it due to heredity?
- Signs and symptoms
- Treatment
- Amount present in the population
- At least 3 suggested readings or internet sites for those with the disease (NOT WIKI)
- 3 interesting facts
- A full reference page (information and pictures)

You are not allowed to plagiarise! Everything must be in your own words. If you copy and paste information you will receive a zero.

Your presentation must be between 5-10 minutes in length. You can include pictures and short videos that are properly linked to the video through PowerPoint.

During your presentation you are not allowed to face the board and read off of it. You must have notes prepared and practice your presentation before you do it. You should be saying more during your presentation than what is present on the board.

Rubric

Informative Title: _____ / 2

Overview of Topic: _____ / 5

Facts / Information: _____ / 15

Relevant pictures: _____ / 3

Sources / References: _____ / 3

Presentation: _____ / 10

Total: _____ / 38