

Research Poster Presentation: Genetic Disorders

Project due date: 3/15/18

Introduction: Disorders, or diseases, manifest themselves in different ways, but for this project you will research a disorder that is genetic in origin and report your findings in a presentation/ poster/ infographic.

Objectives:

a) TLW research a genetic disorder.

b) TLW practice reporting information in a poster presentation format as is commonly done in college- and university-level science classes.

Procedure:

Choose a genetic disorder from your textbook or from the list below:

cystic fibrosis	achondroplasia	Huntington Disease
Klinefelter syndrome	fragile X	Hematomachrosis
Turner syndrome	Prader-Willi syndrome/Angelman syndrome	PKU
Hemophilia	Down Syndrome	Red Green Colorblindness
sickle cell disease	Cri du chat	Others...

1. Verify your topic choice with your teacher.
2. Find out everything that you can about your topic, using a minimum of three sources. Two of the three sources must be textbooks include one research article published in the past 2 years.
3. Make a poster/ presentation/ infographic about your chosen disorder that covers the following topics. If there are other important issues associated with your chosen disorder that are not listed below include those as well. Have at least three visual aids (all from print media) accompany your presentation.
 - a. What is the genotype of this disorder (If it has one- or how the chromosomal abnormality)?
 - b. What is happening with the DNA to cause these phenotypic effects?
 - c. What are the phenotypic effects of this disorder?
 - d. How is this disorder inherited?
 - e. Are there carrier forms and/or lethal forms of this disorder?
 - f. How can this disorder be treated?
 - g. How can this disorder be avoided?

We will share your presentations in class next Thursday and Friday.