The purpose of this assignment is to have students research ONE disease caused by a chromosomal abnormality or mutation and then explain the disease using either a Word document or a PowerPoint presentation. [50 pts]

**Instructions**:

1. Pick one of the diseases listed and use as the title of the project:

Down syndrome – trisomy 21

Cri du Chat syndrome or CDC

Turner syndrome ( - X)

Klinefelter syndrome (YXX)

Edward’s syndrome – Trisomy 18

Patau syndrome – Trisomy 13

Triple X syndrome – trisomy X syndrome

Jacob syndrome – Double Y

2. Research the following issues about that disease:

a. The cause of the disease – what is wrong with the chromosome?

b. Symptoms

c. How does the abnormality happen – is it a mistake in the egg or sperm?

d. How can it be detected?

e. What are some treatments for the abnormality?

f. Include description and relevance of “**Amniocentesis**” and “**non-disjunction**” as part of the project.

3. Be sure to reference all sources in the document / PowerPoint itself AND create a bibliography page with all the sources used.

4. Rubric:

a. Proper “Lab Report” Heading with Title [2]

b. Spelling and grammar check [5].

c. Graphics and images with explanation and relevance [10].

d. Main Content (#2). [21]

e. Footnotes and references within the document with the bibliography [12].