

CHESSIE Life Science Class Report on Genetic Mutation Disorders

Be prepared to read your report in class on **November 10**

Please note: These 4 students will read their report the week before, on November 3rd: Kate, Lillian, Liam,

Nathaniel

As we study chapter 8 on the topic of genetic mutations, we will handle this material very sensitively. Class will begin with a reminder that anyone with a particular genetic mutation is made in God's image and we should treat them with respect, just as we would treat anyone respectfully. God designed genes to be very stable and normally a cell can divide from thousands to millions of times before one mutation takes place! Students will learn from each other about the mutation disorders listed below. If a student is aware of a genetic mutation disorder that he/she would prefer researching, please e-mail me and I will make the change in topic as long as no other student has chosen it.

Reports should be a minimum of one typewritten page and include each of the following. Reports should be in your own words and should not be copied from your resource. There is a resource listed by each topic. You may use these, but supplement with other sources.

- 1) picture of the genetic mutation (chromosome picture or a person with the mutation).
- 2) what genetic mutation causes the disease?
- 3) history of the illness
- 4) symptoms
- 5) treatment
- 6) something that you found interesting.

**** Kate-** hearing loss and deafness

- **Ben-** Duchenne muscular dystrophy <https://www.genome.gov/Genetic-Disorders/Duchenne-Muscular-Dystrophy>
- **Baxter-** Cystic fibrosis <https://www.genetics.edu.au/publications-and-resources/facts-sheets/fact-sheet-41-cystic-fibrosis>
- **Reid**—Albinism <http://www.bjupress.com/resources/science/life-science/>
- **Jayden** —Down Syndrome (Good resource at) <http://learn.genetics.utah.edu/content/disorders/chromosomal/down/>
- **Nathaniel**—Achondroplasia, a type of dwarfism <https://www.genome.gov/Genetic-Disorders/Achondroplasia>
- **Margo**—dyslexia <https://www.understood.org/articles/en/is-dyslexia-genetic>
- **Keira**—color blindness <https://www.colourblindawareness.org/colour-blindness/causes-of-colour-blindness/>
- **Mason**—hemophilia <https://www.genetics.edu.au/publications-and-resources/facts-sheets/fact-sheet-52-haemophilia>

- **Sarai**—trisomy 18 <https://www.genetics.edu.au/publications-and-resources/facts-sheets/fact-sheet-38-trisomy-18-edwards-syndrome>
- **Lincoln**—Wilson’s Disease <https://www.genome.gov/Genetic-Disorders/Wilson-Disease>
- **William**—sickle cell disease <https://www.genetics.edu.au/publications-and-resources/facts-sheets/fact-sheet-44-sickle-cell-disease>
- **Alvin**—Progeria <https://www.genome.gov/Genetic-Disorders/Progeria>
neat video:
<https://www.youtube.com/watch?v=ZbXctrBfn7I>
- **Brennan**—Parkinson’s disease <https://www.genetics.edu.au/publications-and-resources/facts-sheets/fact-sheet-51-parkinson-disease>
- **Luke**—Huntington’s disease <https://www.mayoclinic.org/diseases-conditions/huntingtons-disease/symptoms-causes/syc-20356117>
- **Chyler**—Angelman Syndrome <https://www.nhs.uk/conditions/angelman-syndrome/>
- **Jesse**—Marfan Syndrome <https://www.genome.gov/Genetic-Disorders/Marfan-Syndrome> (see if you can find out which president of the U.S. had Marfan Syndrome.
- **Sage**—Familial Mediterranean Fever <https://www.genome.gov/Genetic-Disorders/Familial-Mediterranean-Fever>
- **Liam**—autism spectrum disorder <https://www.genome.gov/Genetic-Disorders/Autism>
- **Lillian**—Tay Sach’s Disease <https://www.genome.gov/Genetic-Disorders/Tay-Sachs-Disease>