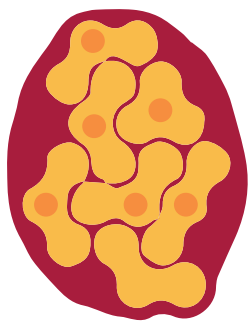


DNA & Genetic Diseases

Did you know?

Genetic testing is done by using a blood or spit sample. As we share the same DNA as our family members, if you have a genetic change, they might have it too.



Breast cancer cell

Treatment

There is different methods for treating a person, due to their needs. For example, a heart defect would mostly treated by getting surgery or a heart transplant.

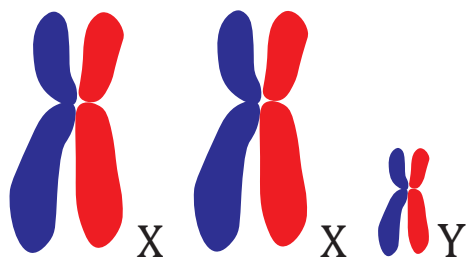


Crohn's Disease

Genetic Disorders

Genetic disorders can occur for several different reasons. Some diseases occur due to a DNA mutation in a person's gene. For example, if the sequence is TAC then the mutation can change it to TCC in some people.

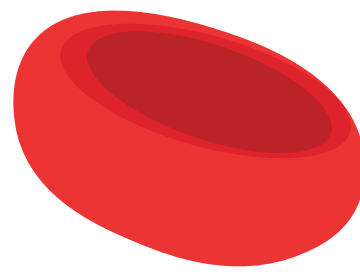
Klinefelter's syndrome is when there is an extra copy of the X chromosome. Occurs in males.



Klinefelter's Syndrome

Types of Diseases

Some diseases you can get due to genetics are colon cancer, breast cancer, sickle cell, down syndrome, etc...



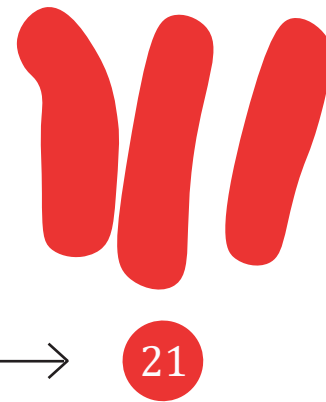
Normal cell



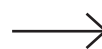
Sickle cell

Gene Basics

Everyone inherits genes from their parents, 46 in total. A female has 2 Y chromosomes while the male has 1 Y and 1 X chromosome.



The 21st pair of chromosomes has an extra genetic material.



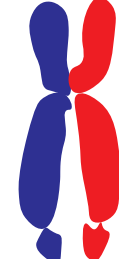
Down Syndrome

Genetic Testing

Genetic testing is a detailed analysis of a person's DNA. It tells them if there is changes in their gene makeup or reveal gene mutations that could cause the disease. The earlier the testing gets done the better.



Normal chromosome



Fragile X Syndrome

Fragile X Syndrome in the chromosome causes intellectual disabilities.

