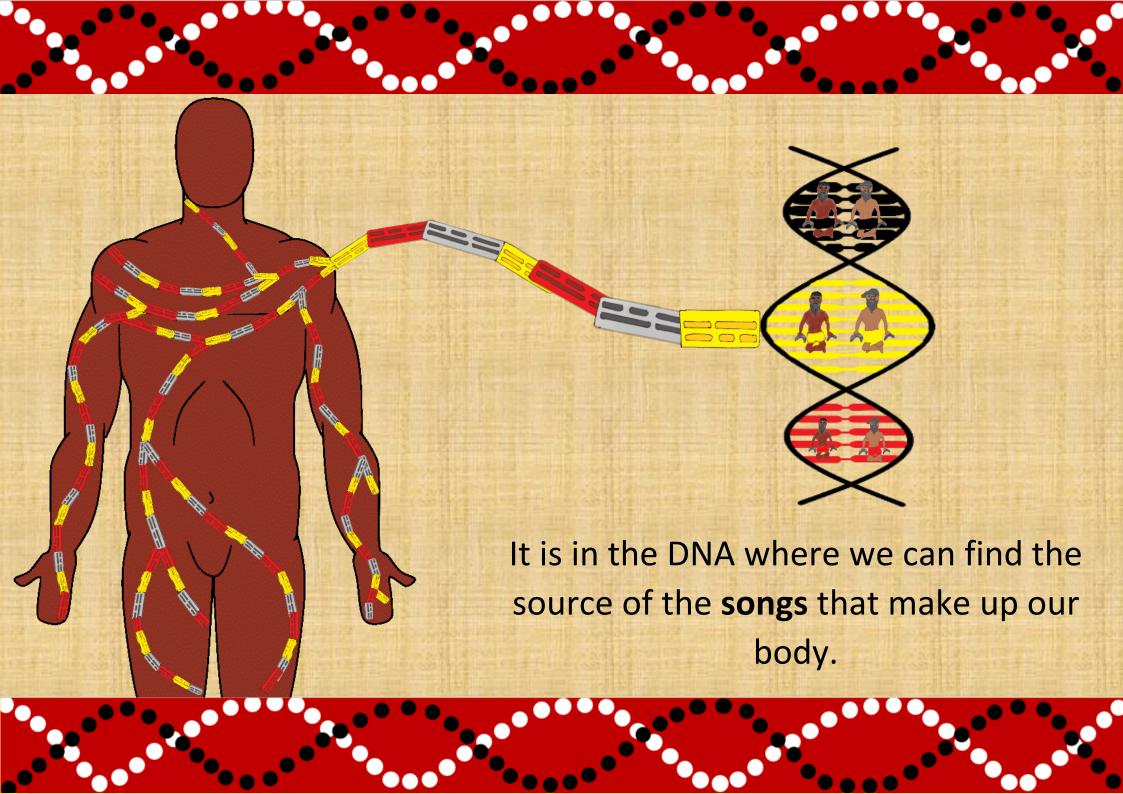
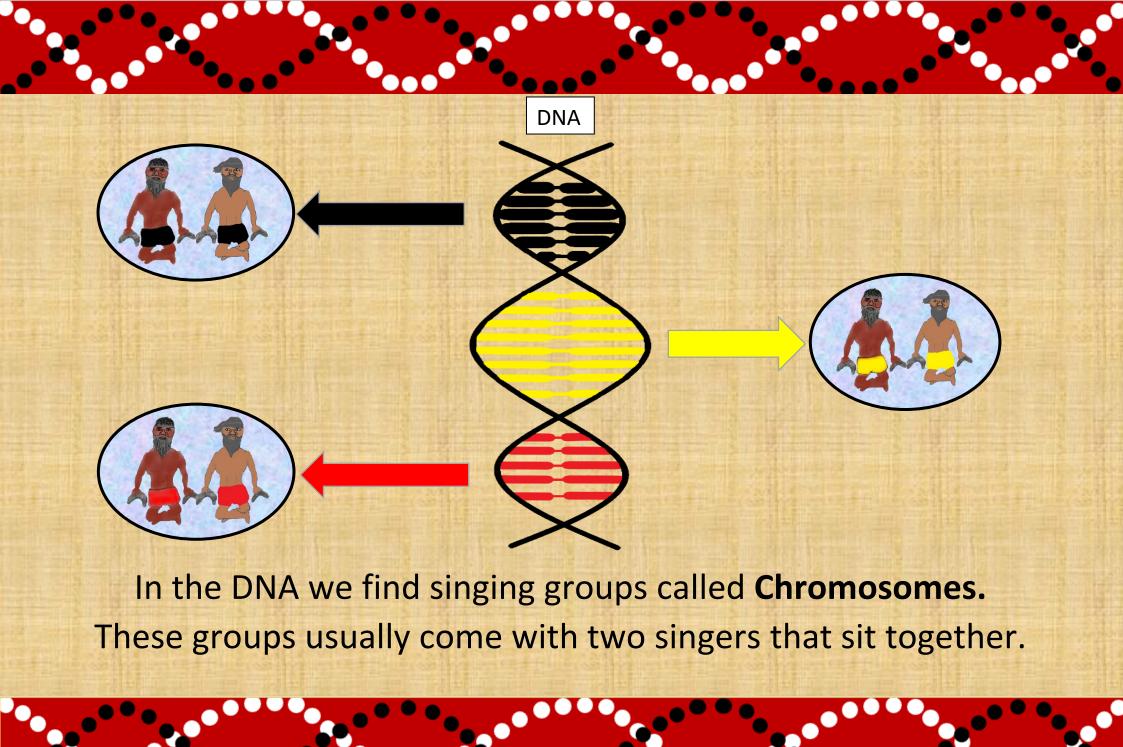
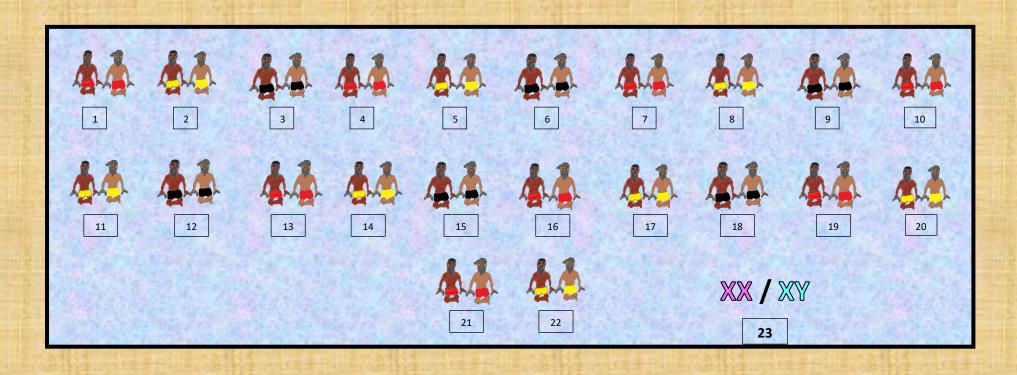


When we look even closer at one of these cells, we can see it holds something called:

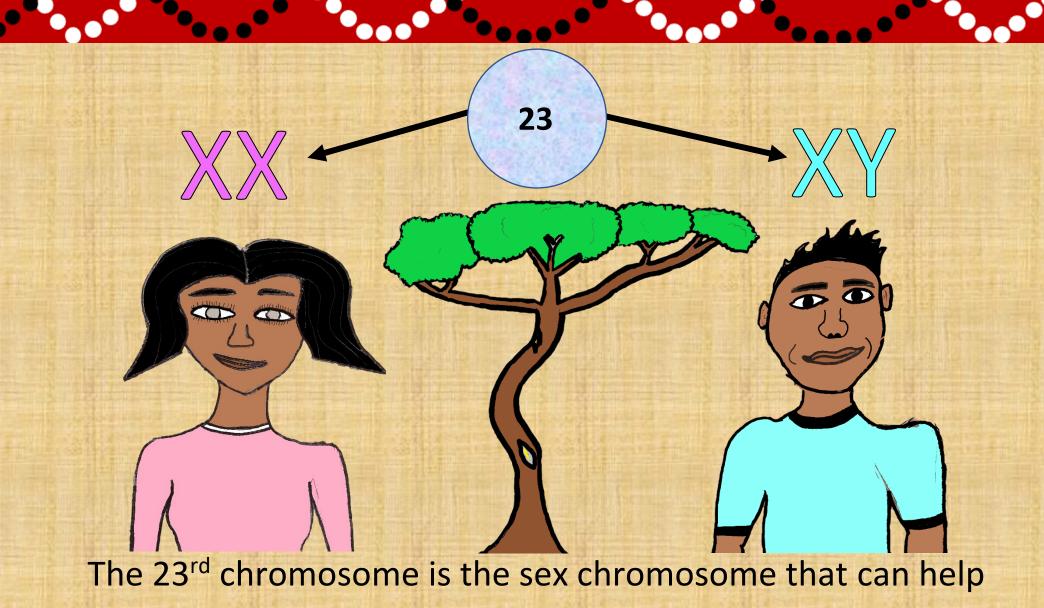




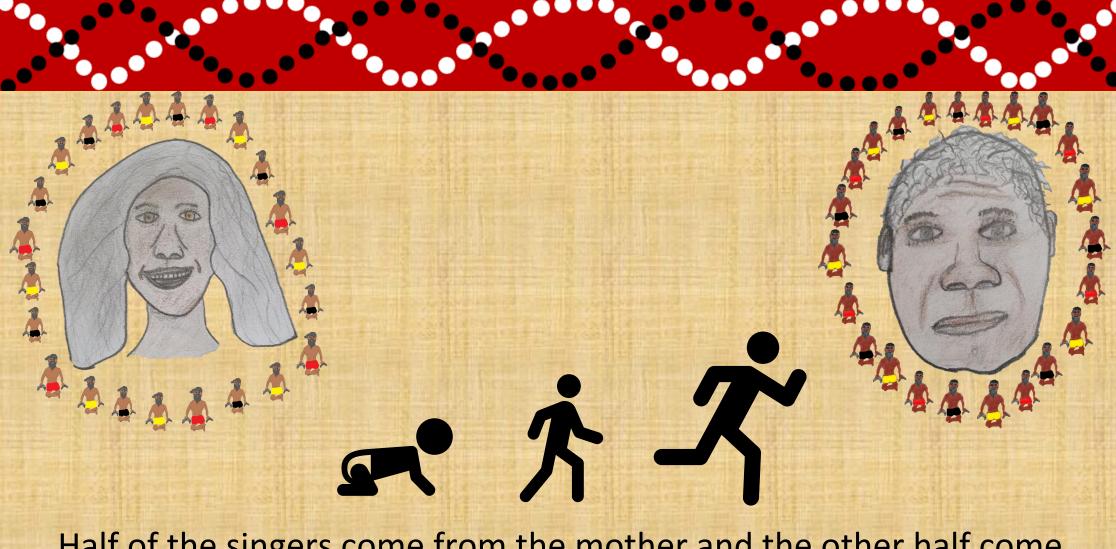




The singers are organised and sing for the body when we are born and throughout different stages of our life. There are 23 singing groups in each cell with a total of 46 singers.



determine if we are born a Woman: XX or a Man: XY.

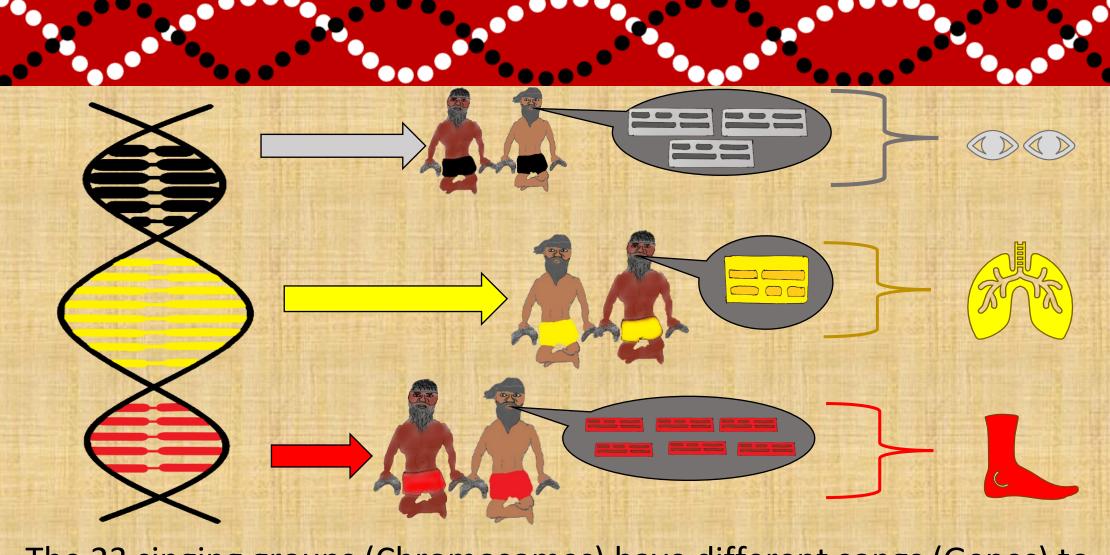


Half of the singers come from the mother and the other half come from the father for each generation. These singers are important to help us to grow and be healthy.

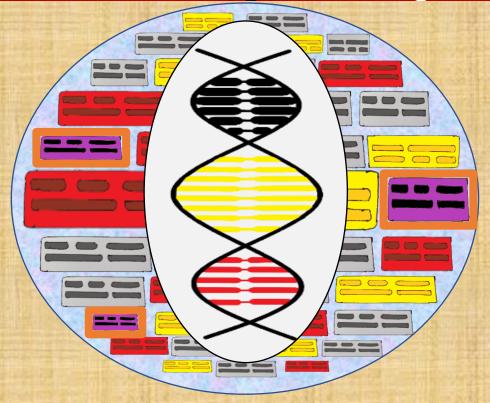




over 20,000 songs that are slightly different in all of us.



The 23 singing groups (Chromosomes) have different songs (Genes) to sing for different parts of the body. Some songs are long whilst others are short.



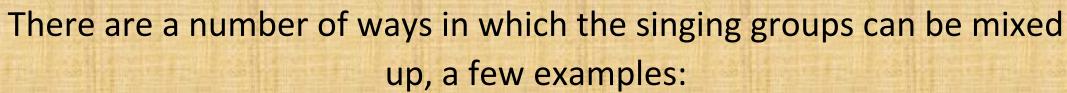
Of the ~20,000 songs (genes) throughout the body, there some are important for our health and others that are not. When we have variation in the songs that effects our health, we call this a

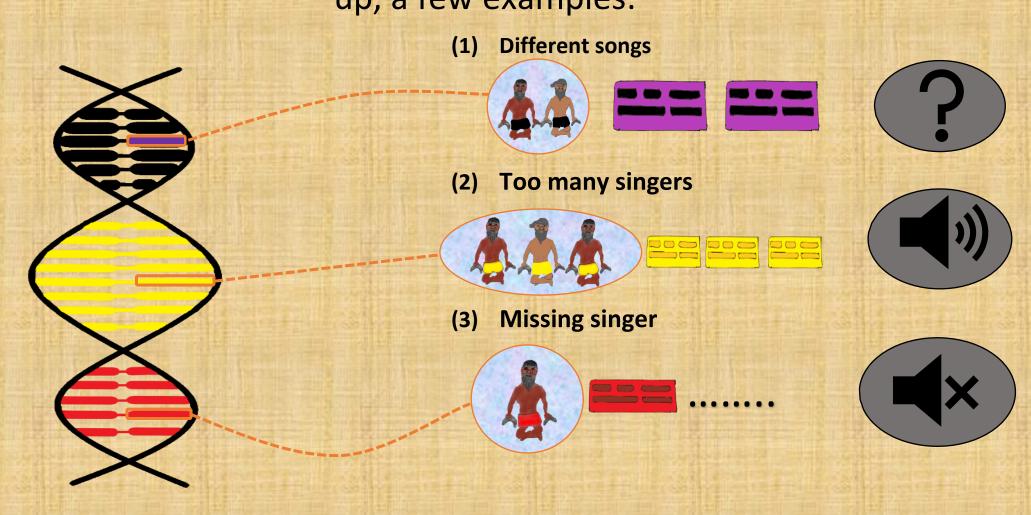
mutation.



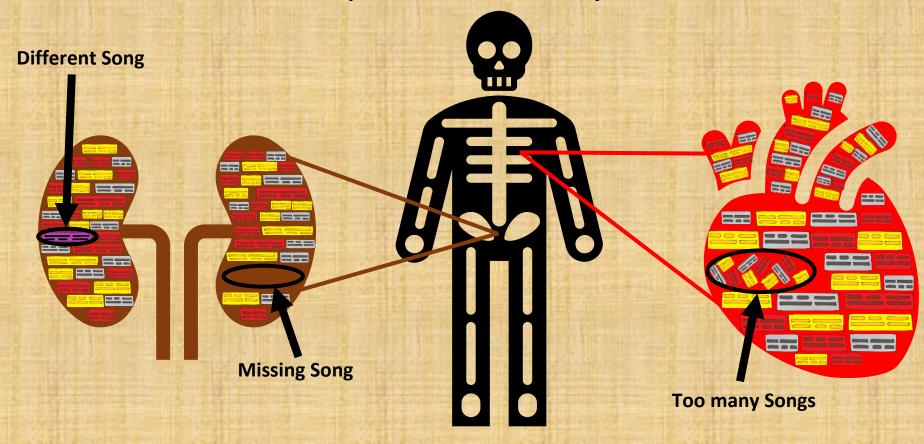


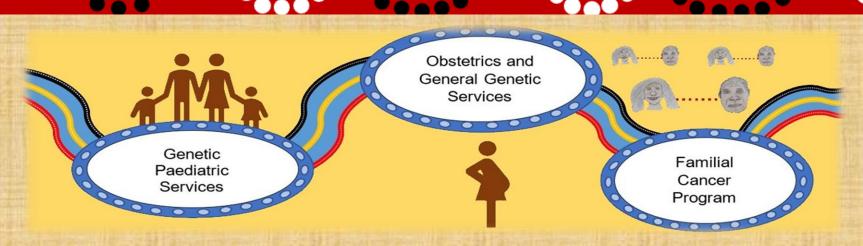
Sometimes the important songs and singing groups for our health can be mixed up in different ways when we are born. This is often random happening by accident and is **no one's fault.**





When the songs of our body are sung a different way, it can make parts of the body weak and sick.





There are many diseases that can affect the body when our DNA is sung differently. Depending on what is affecting you or your family, there are teams of Doctors and Councillors that have been set up to help you:

- (1) Children = General Paediatric Services.
- (2) Pregnancies = Obstetrics & General Genetic Services.
- (3) Cancers = Familial Cancer Program.

