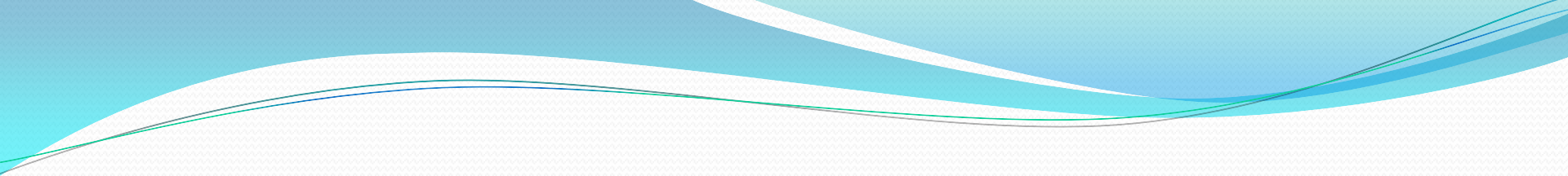


Culturally Relevant Genetics

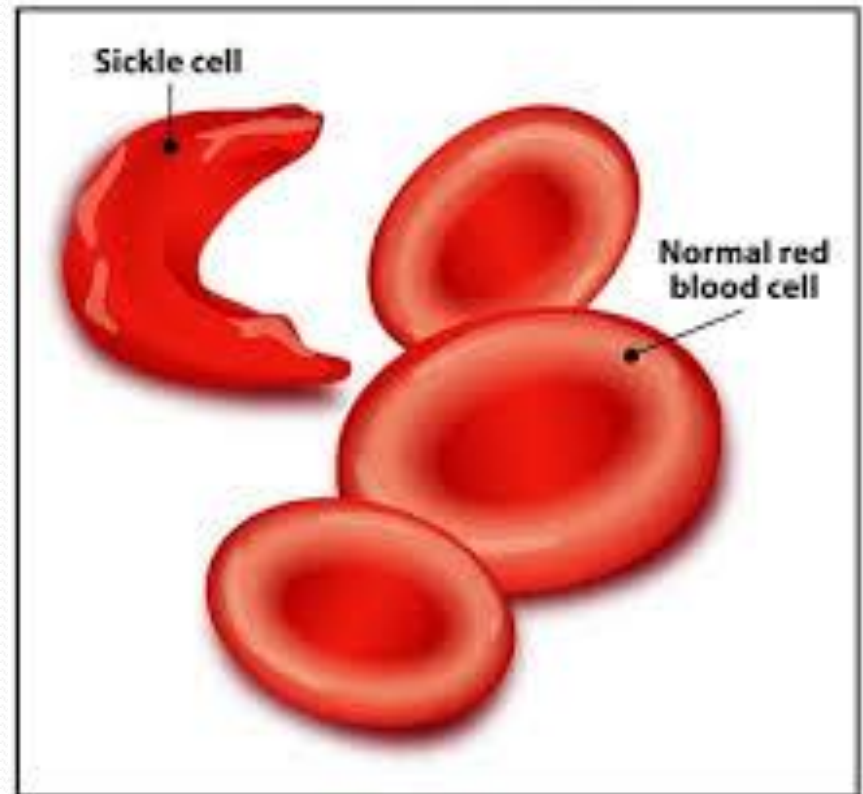
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- People who have PKU are not able to produce an enzyme that breaks down phenylalanine.
 - It is however possible to live if you have PKU, but adjustments to diet have to be made
 - The Ashkenazi population has a significantly higher occurrence of Tay Sach's, for which there is a carrier frequency of 1 in 25.

Symptom Disorder Match-up

- Huntington's Disease leads to mental deterioration and uncontrollable movement
- Cystic Fibrosis lead to a buildup of mucus in the lungs
- Albinism leads a lack of pigment in the skin and eyes

- Two disorders that are caused by a dominant allele are [REDACTED]
[REDACTED]
- The main group of people affected by a recessive trait called sickle cell anemia are [REDACTED]
[REDACTED]

Sickle cell anemia



From Gene to Molecule

- Just a small change in the DNA of a single [redacted] affects the structure of a [redacted]
- The people most commonly affected by Cystic Fibrosis are [redacted]
- In this disorder, [redacted] ions build up and disrupt cell function

- Sickle shaped cells get caught in [redacted] and can damage the Cells or Tissues
- The name of the protein in blood that carries oxygen is [redacted]
- Sickle cell is not all bad, it provides resistance to [redacted] you are heterozygous for it
- Since both alleles contribute, it is thought that they are [redacted] giving us [redacted] phenotypes