

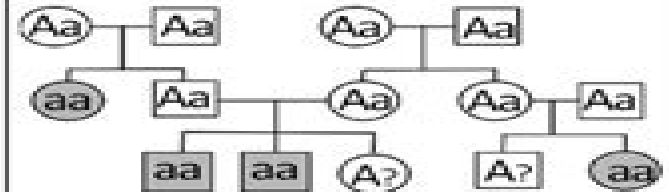
Pedigrees Practice - AP Biology

- for each pedigree, write the genotypes of the individuals

The disorder shown on the pedigree is **Maple Syrup Urine Disease (MSUD)** which is a metabolic disorder that affects the body's ability to process certain proteins. It was named after a distinctive odor of a baby's urine.

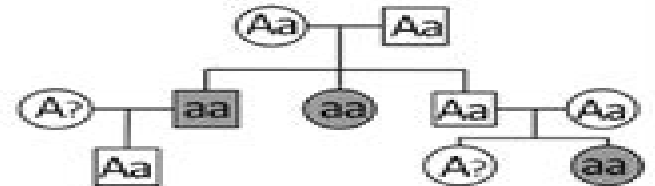
- What is the inheritance pattern of this gene?
 - autosomal dominant
 - autosomal recessive**
 - X-linked dominant
 - X-linked recessive

- Provide at least one piece of evidence for your claims. **Two parents that do not have the disease must be carriers (Aa) to have a child with the disease.**



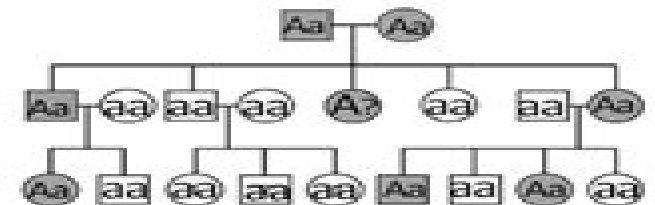
This pedigree shows the inheritance **Leber congenital amaurosis (LCA)** which is a type of hereditary blindness. Individuals with this disease lose their vision during childhood.

- What is the inheritance pattern shown? **autosomal recessive**
- Highlight one individual whose genotype is unknown. What additional information would you need to determine his/her genotype? **If the unknowns had children, it could reveal if they were carriers.**



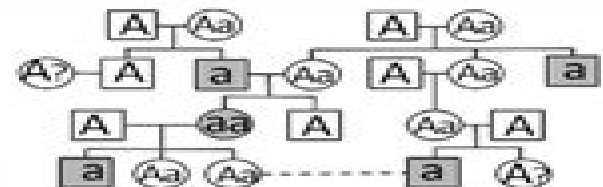
Marfan syndrome affects the connective tissue and causes individuals to have long, thin, arms, legs, fingers and toes.

- What is the inheritance pattern shown? **autosomal dominant**
- Provide at least one piece of evidence for your claims. **The first two parents both had Marfan syndrome, but had children who did not have the disorder.**
- Consider the children labeled "1,2,3." Would you expect any of these individuals to have children of their own with Marfan Syndrome. **Anyone without the syndrome must be recessive, because the disorder is dominant, this branch of the family tree will all be "normal." This is a good time to discuss where the first individual got the disease, likely it was a spontaneous mutation in the gene.**



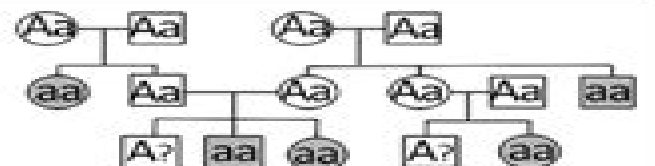
Charcot-Marie-Tooth disease (CMT) causes motor and sensory neuropathies of the peripheral nervous system characterized by progressive loss of muscle tissue and touch sensation across various parts of the body.

- What is the inheritance pattern shown? **X-linked recessive**
- Provide at least one piece of evidence for your claims. **The disease mainly affects boys, though a girl can have it if her father had it and her mother was a carrier.**
- The dashed line represents a possible union. Discuss the probability that such a union would result in a child with CMT. **Since the child will inherit the mutant allele from the father, a female has a 50% chance of having the disorder. A male child also has a 50% chance of inheriting the allele from his heterozygote mother.**



Cystic fibrosis is a disease that affects the ability of cells to move sodium across the cell membrane. This causes mucus to build up in the lungs resulting in respiratory problems.

- What is the inheritance pattern shown? **autosomal recessive**
- Provide at least one piece of evidence for your claims. **Two parents that do not have the disease must be carriers (Aa) to have a child with the disease.**



Human Pedigree Genetics Lab Answer Key

LL Leslie



Human Pedigree Genetics Lab Answer Key:

Human Pedigree Genetics Lab Answer Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Human Pedigree Genetics Lab Answer Key**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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