

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.**



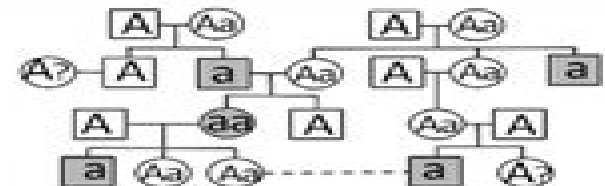
Marfan syndrome affects the connective tissue and causes individuals to have long, thin, arms, legs, fingers and toes.

- 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.**



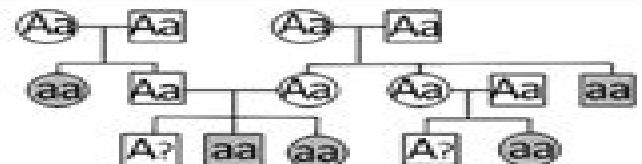
Charcot-Marie-Tooth disease (CMT) causes motor and sensory neuropathies of the peripheral nervous system characterized by progressive loss of **muscle tissue** and touch sensation across various parts of the body.

- 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.**



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Jin-Ying Zhang



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