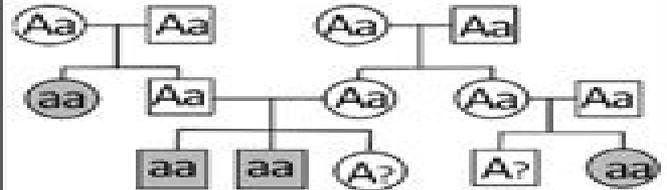


Pedigrees Practice - AP Biology

- for each pedigree, write the genotypes of the individuals

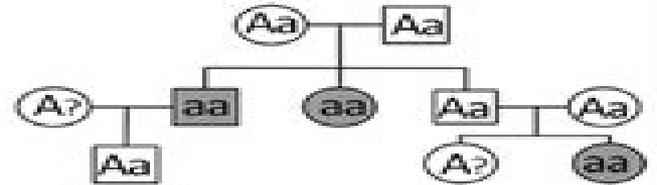
The disorder shown on the pedigree is **Maple Syrup Urine Disease (MSUD)** which is a metabolic disorder that affects the body's ability to process certain proteins. It was named after a distinctive odor of a baby's urine.

- 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 claim. **Two parents that do not have the disease must be carriers (Aa) to have a child with the disease.**



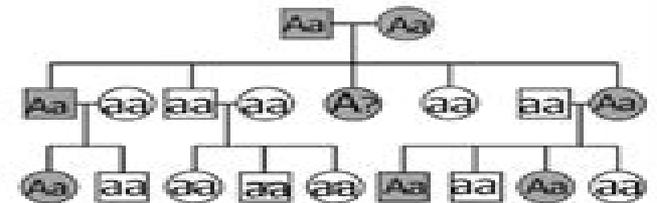
This pedigree shows the inheritance **Leber congenital amaurosis (LCA)** which is a type of hereditary blindness. Individuals with this disease lose their vision during childhood.

- 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.**



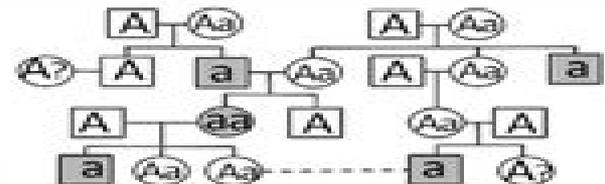
Marfan syndrome affects the connective tissue and causes individuals to have long, thin, arms, legs, fingers and toes.

- What is the inheritance pattern shown? **autosomal dominant**
- Provide at least one piece of evidence for your claim. **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.



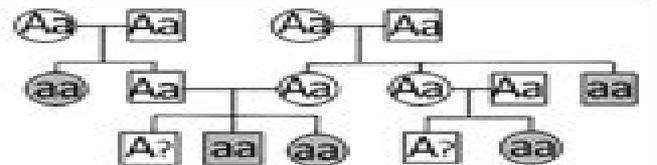
Charcot-Marie-Tooth disease (CMT) causes motor and sensory neuropathies of the peripheral nervous system characterized by progressive loss of muscle tissue and touch sensation across various parts of the body.

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



Human Pedigree Genetics Bio Lab Answers

JE Gale



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Table of Contents Human Pedigree Genetics Bio Lab Answers

1. Understanding the eBook Human Pedigree Genetics Bio Lab Answers
 - The Rise of Digital Reading Human Pedigree Genetics Bio Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Pedigree Genetics Bio Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Human Pedigree Genetics Bio Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Pedigree Genetics Bio Lab Answers
 - Personalized Recommendations

- Human Pedigree Genetics Bio Lab Answers User Reviews and Ratings
- Human Pedigree Genetics Bio Lab Answers and Bestseller Lists
- 5. Accessing Human Pedigree Genetics Bio Lab Answers Free and Paid eBooks
 - Human Pedigree Genetics Bio Lab Answers Public Domain eBooks
 - Human Pedigree Genetics Bio Lab Answers eBook Subscription Services
 - Human Pedigree Genetics Bio Lab Answers Budget-Friendly Options
- 6. Navigating Human Pedigree Genetics Bio Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Human Pedigree Genetics Bio Lab Answers Compatibility with Devices
 - Human Pedigree Genetics Bio Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Human Pedigree Genetics Bio Lab Answers
 - Highlighting and Note-Taking Human Pedigree Genetics Bio Lab Answers
 - Interactive Elements Human Pedigree Genetics Bio Lab Answers
- 8. Staying Engaged with Human Pedigree Genetics Bio Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Human Pedigree Genetics Bio Lab Answers
- 9. Balancing eBooks and Physical Books Human Pedigree Genetics Bio Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Human Pedigree Genetics Bio Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Human Pedigree Genetics Bio Lab Answers
 - Setting Reading Goals Human Pedigree Genetics Bio Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Human Pedigree Genetics Bio Lab Answers
 - Fact-Checking eBook Content of Human Pedigree Genetics Bio Lab Answers

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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