

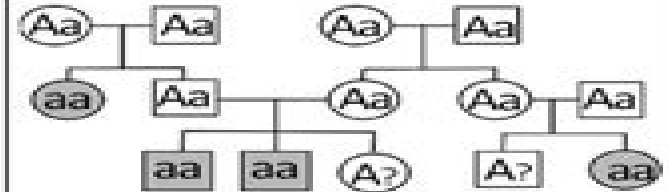
# Pedigrees Practice - AP Biology

- 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.

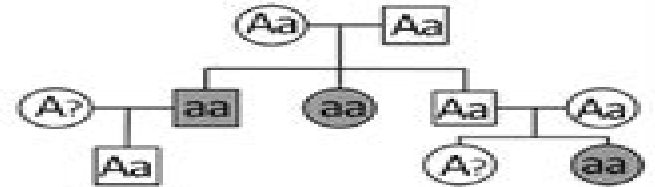
- What is the inheritance pattern of this gene?
  - autosomal dominant
  - autosomal recessive**
  - X-linked dominant
  - X-linked recessive

- 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.**



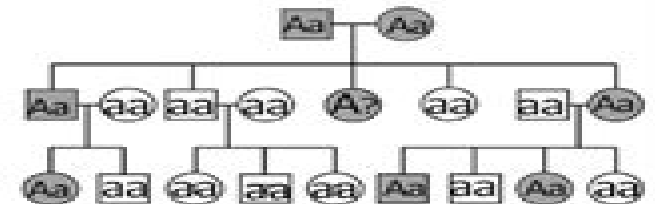
This pedigree shows the inheritance **Leber congenital amaurosis (LCA)** which is a type of hereditary blindness. Individuals with this disease lose their vision during childhood.

- 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.**



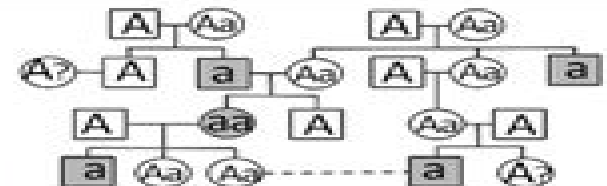
**Marfan syndrome** affects the connective tissue and causes individuals to have long, thin, arms, legs, fingers and toes.

- 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.**



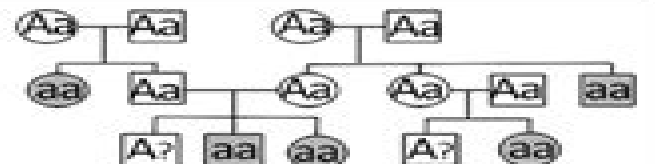
**Charcot-Marie-Tooth disease (CMT)** causes motor and sensory neuropathies of the peripheral nervous system characterized by progressive loss of muscle tissue and touch sensation across various parts of the body.

- 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 Bio Lab Answers

**Ying-Ying Zheng**



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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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web he is currently a ford professor of mechanical engineering and the director of the d arbeloff laboratory for information systems and technology department of mechanical engineering massachusetts institute of technology mit cambridge ma usa

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