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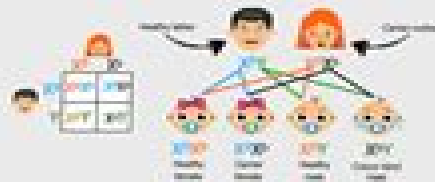
5.4 Pedigree Diagrams

- Pedigrees are genetic pedigree diagrams that show the inheritance of a trait in a group of related individuals
- The diagram below shows the inheritance of cystic fibrosis. The highlighted individuals suffer from the disease



5.5 Sex-linked Traits

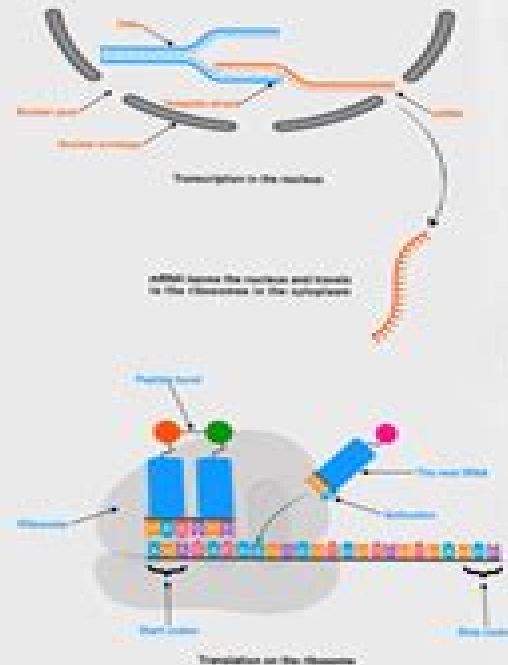
- It was first identified in the sons that results from an allele that is located on a sex chromosome
- In humans, females have two X chromosomes (XX) while males have X and Y chromosomes (XY)
- The Y chromosome is much smaller than the X, and therefore, it has fewer genes
- Therefore, most sex-linked characteristics are found on the X chromosome
- Many of the sex-linked genes are only found on one of the sex chromosomes
- Males have a 50% chance of having recessive sex-linked disorders
- Red-green colour blindness in humans is an example of a recessive sex-linked disorder
- Only males can be colour blind (carriers of the gene)
- Based on this, two healthy parents can have a son with red-green colour blindness if the mother is a carrier



5.6 Genetic Screening

- Genetic screening** the analysis of a person's DNA to check for the presence of any faulty allele
- Genetic screening programs must meet the following requirements to be successful:
 - 1. **Prevalence** (How common is the disease?)
 - 2. **Accuracy** (How accurate is the test?)
 - 3. **Benefit** (What are the benefits of the test?)
 - 4. **Cost** (How much does the test cost?)
- Genetic screening can be done to adults, embryos in the uterus (prenatal screening) or to embryos produced by IVF
- IVF is the process of fertilisation where an egg is fertilised with a sperm outside the body, in a test tube

PROTEIN SYNTHESIS SUMMARY



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1. Understanding the eBook May 2012 Igcse Biology Edexcel Mark Scheme
 - The Rise of Digital Reading May 2012 Igcse Biology Edexcel Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying May 2012 Igcse Biology Edexcel Mark Scheme
 - 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 May 2012 Igcse Biology Edexcel Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 2012 Igcse Biology Edexcel Mark Scheme
 - Personalized Recommendations
 - May 2012 Igcse Biology Edexcel Mark Scheme User Reviews and Ratings
 - May 2012 Igcse Biology Edexcel Mark Scheme and Bestseller Lists
5. Accessing May 2012 Igcse Biology Edexcel Mark Scheme Free and Paid eBooks

- May 2012 Igcse Biology Edexcel Mark Scheme Public Domain eBooks
 - May 2012 Igcse Biology Edexcel Mark Scheme eBook Subscription Services
 - May 2012 Igcse Biology Edexcel Mark Scheme Budget-Friendly Options
6. Navigating May 2012 Igcse Biology Edexcel Mark Scheme eBook Formats
- ePub, PDF, MOBI, and More
 - May 2012 Igcse Biology Edexcel Mark Scheme Compatibility with Devices
 - May 2012 Igcse Biology Edexcel Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of May 2012 Igcse Biology Edexcel Mark Scheme
 - Highlighting and Note-Taking May 2012 Igcse Biology Edexcel Mark Scheme
 - Interactive Elements May 2012 Igcse Biology Edexcel Mark Scheme
8. Staying Engaged with May 2012 Igcse Biology Edexcel Mark Scheme
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May 2012 Igcse Biology Edexcel Mark Scheme
9. Balancing eBooks and Physical Books May 2012 Igcse Biology Edexcel Mark Scheme
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection May 2012 Igcse Biology Edexcel Mark Scheme
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine May 2012 Igcse Biology Edexcel Mark Scheme
- Setting Reading Goals May 2012 Igcse Biology Edexcel Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of May 2012 Igcse Biology Edexcel Mark Scheme
- Fact-Checking eBook Content of May 2012 Igcse Biology Edexcel Mark Scheme
 - 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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