

Notes

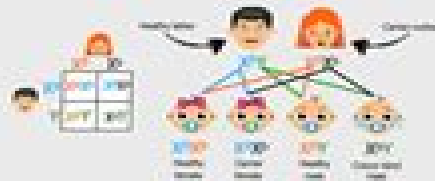
5.4 Pedigree Diagrams

- 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

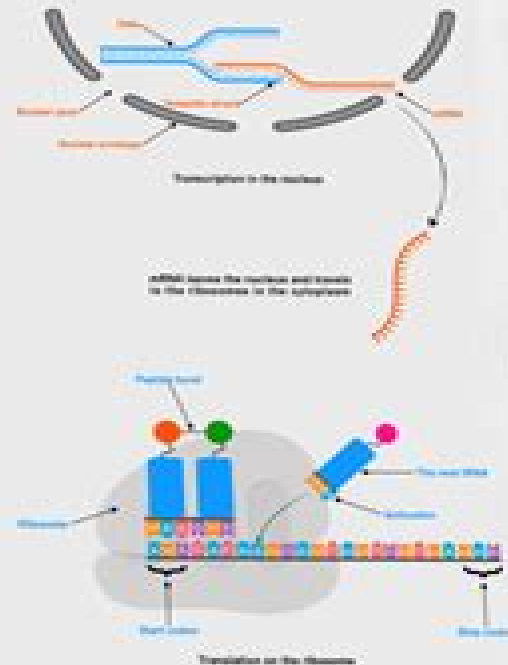
- It was first identified in the 19th century that sex-linked traits are found on a sex chromosome
- In humans, females have two X chromosomes (XX) while males have X and Y chromosomes (XY)
- The Y chromosome is much smaller than the X, and therefore it has fewer genes
- Therefore, most sex-linked characteristics are found on the X chromosome
- Many of the 1000 genes on the X chromosome can only have one allele of the sex-linked characteristic
- 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 (heterozygous of the type of disease)
- Based on this, two healthy parents can have a son with red-green colour blindness if he must have a carrier



5.6 Genetic Screening

- Genetic screening** is 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 often the disease occurs)
 - 2. **Testability** (Can the disease be tested?)
 - 3. **Reliability** (Are the test results accurate?)
 - 4. **Screening** (Are the test results accurate?)
- Genetic screening can be done to adults, embryos in the uterus (blastocyst) 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



May 2012 Igcse Biology Edexcel Mark Scheme

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