# Human Inheritance Patterns Clejectives • Explain the role of sex of

- Explain the role of sex chromosomes in sex determination
- . Describe how sex linkage affects the inheritance of traits
- Explain the inheritance of PBO blood groups
- . Show how pedigree analysis can be used to illustrate the inheritance of traits

#### Sex Determination

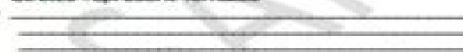
- · In mammals and most insects:
- Gametes produced by males can be X or Y, while gametes produced by females are always X

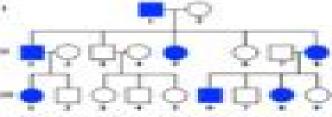
# Sex Linkage

- . Genes found on the X chromosome are called X-linked genes
- . Genes found on the Y chromosome are called Y-linked chromosomes

# Predignee Pinaliysis

- Squares represent males
- Circles represent females.





Commission of the Commission of the

#### **Futosomal Recessive Pedigree**

- . This pedigree shows a trait that is inherited as an autosomal recessive trait
- Iff person care



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**S Ben Porath** 

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