

Unit 5 Objectives:Genetics

1. Define and relate the following terms as they apply to immunohematology:

gene	trans
chromosomes	linked
autosomes	crossing over
sex chromosomes	phenotype
locus	genotype
alleles	cis
homozygous	syntenic
heterozygous	

2. Define the following terms used to describe dominant and recessive traits:

trait
dominant
recessive
codominant
autosomal dominant
autosomal recessive
sex linked dominant
sex linked recessive

3. Given the ABO genotypes of parents determine the possible genotypes of the children.
4. Given an example of blood group in paternity testing determine whether the exclusion is direct or indirect.
5. Describe the importance of population genetics.
6. Given the phenotypic frequencies of antigens determine the percentage of donors who would lack all antigens given.