

Alleles

Monohybrid

Genes

1. _____ are units of Inheritance. **Homozygous**
2. _____ are slightly different forms of same gene.
3. TT and tt are identical genes, so they are called _____ alleles.

4. Cross between plants that differ in one

Punnett square

Test cross

character is called _____ cross.

5. _____ is a graphical representation to calculate probability of offspring genotypes in a genetic cross. **Phenyl alanine hydroxylase**
6. _____ is the cross between a plant with dominant phenotype and a recessive plant. It is used to find out the genotype of the dominant plant(test organism).
7. The disease phenylketonuria is caused due to mutation of a gene that codes for _____.

Haemophilia

GUG

8. _____ is a sex linked recessive disorder.
9. The substitution of amino acid in the globin chain is due to single base substitution at the sixth codon of the beta globin gene from GAG to _____, that causes sickle cell anaemia.
10. α Thalassemia is due to mutation of any of the 4 genes present on chromosome number _____, whereas β Thalassemia is caused due to mutation of any of the two genes present of chromosome number _____.

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