Mendelian Genetics

Across
3. process of interbreeding individuals from genetically distinct populations
5. genetic cross between a homozygous recessive individual and corresponding heterozygote to determine the heterozygote's genotype (PP x pP)
10. pair of matching alleles for a trait
13. genes where one is dominant and one is recessive
15. variation in hereditary factors for independent characteristics
18. hybrid that is heterozygous for alleles of two different genes
19. parental generation
21. a variant form of a gene
22. during the production of gametes the two copies of each hereditary factor separate so that offspring acquire one factor from each parent
23. mating between two individuals with different alleles for one trait

Down
1. result of a cross between two F1 individuals
2. cross between two different alleles that differ in two observed traits
4. the generation resulting immediately from a cross of the first set of parents
6. set of observable characteristics of an organism
7. mating between two individuals with different alleles for one trait
8. no effect on appearance
9. diagram used to predict an outcome of a particular cross or breeding experiment
11. genetic constitution of an individual organism
12. a hybrid that is heterozygous with respect to a specified gene
14. determines the appearance
16. specific characteristic of an organism
17. an organism that passes down certain phenotypic traits to its offspring
20. any observable feature