



14 mendelian genetics

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who discovered heredity	gregor mendel
what is heredity	how traits are passed from one gen to the next
how did mendel discover heredity	garden peas
genotype	genetic makeup or allelic combination
phenotype	physical appearance based on the genotype
homozygote	having 2 of the same alleles for a gene
heterozygote	having 2 diff alleles for a gene
dominant	allele tht over powers or masks a recessive allele
recessive	allele tht phenotypically appears only if 2 copies present
gametes	sperm/egg
what does a monohybrid cross study	one trait
what are the steps of a monohybrid cross	<ol style="list-style-type: none"> 1. tall + dwarf varieties cross-fertilized 2. all hybrid progeny are tall 3. hybrid progeny are self-fert 4. tall + dwarf appear in 3:1 ratio
what are inheritable factors	genes
what are character variants	alleles
what are mendels principles	<ol style="list-style-type: none"> 1. principle of dominance 2. principle of segregation 3. principle of independent assortment
what is principle of dominance	if the 2 alleles at a locus differ, the dominant allele determines appearance - recessive allele doesn't affect appearance
what is principle of segregation	the 2 alleles for a heritable character segregate during gamete formation = they end up in diff gametes
what is principle of independent assortment	alleles of diff genes segregate independently of each other
what are the exceptions to mendels principles	<ol style="list-style-type: none"> 1. linkage 2. incomplete dominance 3. co-dominance 4. multiple alleles 5. polygenic inheritance
what is a punnett square used for	determine genotypic + phenotypic probabilities
how to use punnett square	<ol style="list-style-type: none"> 1. determ parental gametes 2. male gametes on top, female gametes on left side 3. determine offspring genotype 4. determ genotype/phenotype ratios
what are the 4 possible birth orders for 3 unaffected and 1 affected	UUUA UUAU UAUU AUUU
what are the criteria for autosomal dominant trait	<ul style="list-style-type: none"> - manifests itself in the heterozygote - equally represented in males and females - vertical inheritance (transmission from parent to offspring) - affected parents have atleast 50% chance their offspring will be affected
what is polydactylism	autosomal dom indiv has extra digit or digits on hands or feet
features of poly	incomplete penetrance = the dom allele doesnt always show up as a phenotype

Mendelian Genetics Study Guide

**Rowland H. Davis, Stephen J.
Weller, John P. Carulli**



Mendelian Genetics Study Guide:

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