

Mendelian Genetic		Laws of Inheritance (cont)		Non-Mendelian Inheritance (cont)		Non-Mendelian Inheritance (cont)		
Gregor Medal - Father of Modern Genetics	Why Pea?	Hybrid offspring will only inherit the dominant trait in the phenotype.	A pair of traits segregates independently of another pair during gamete formation. As the individual heredity factors assort independently, different traits get equal opportunity to occur together.	During the production of gametes, two copies of each hereditary factor segregate so that offspring acquire one factor from each parent. In other words, allele (alternative form of the gene) pairs segregate during the formation of gamete and re-unite randomly during fertilization.	Where both the alleles are expressed equally.	The traits blend together producing an intermediate phenotype. If two flowers are crossed together, a hybrid will be produced that is in between both the parents.	Where one trait is controlled by several genes. e.g. Eye color in humans is controlled by multiple genes. When a pair of alleles in a gene has a dominant and multiple recessive alleles, a single gene is characteristic.	e.g. skin color, eye color, height
Austrian monk who studied heredity in pea plants.	easy to grow and readily available	The alleles that are suppressed are called the recessive traits while the alleles that determine the trait are known as the dominant traits.						
Developed laws of inheritance.	control fertilization and reproduce rapidly							
Conducted experiments on Pisum sativum (pea plants)	easily distinguishable, distinct trait							
Laws of Inheritance								
Law of Dominance	Law of Independent Assortment	Law of Segregation						
			Non-Mendelian Inheritance					
			Co-Dominance	Incomplete Dominance	Polygenic Inheritance	Multiple alleles	Pleiotropy	



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