BIOLOGY

Parallels between Mendel's Laws of Inheritance and the principles proposed by Sutton

Mendel's Laws of Inheritance	Behaviour of chromosomes during meiosis as observed by Sutton
The Law of Segregation: Factors for the same characteristic occur in pairs in the individual and separate during gamete formation so that the gamete contains only one factor of each pair.	Genes are loci on chromosomes that contain one of two alleles of genetic information, determining the expression of a trait in the phenotype. The nucleus of cells contains two sets of chromosomes. During meiosis, the chromosomes separate into gametes so that each gamete contains just one set of chromosomes.
The Law of Independent Assortment: Factors are sorted randomly into gametes with no influence by the presence of other factors. Thus either factor of a pair can occur along with either factor of another pair in a genotype	Random assortment of the chromosomes into the gametes during meiosis However, alleles sort independently only when they are on different chromosomes