

## Mendelian Genetics

- Genes - code for proteins
  - Each normal sperm and egg contains a recipe for building a living organism
    - NOT a "blueprint" as is often said
- Prokaryotes such as bacteria typically contain a single circular bacteria chromosome
- Eukaryotes contain multiple linear chromosomes
  - Chromosome numbers do not necessarily correlate to the genetic complexity
    - Humans have 46 chromosomes
    - A fern has 1260
- Gene mutation creates genetic diversity
  - Copying and transmitting genes from one generation to the next increases genetic variation
  - Mutations occur during copying and lead to different alleles
    - Can be beneficial, neutral, or dysfunctional
- Segregation and independent assortment create gamete diversity
  - Both parents make a contribution, but not 100% contribution
  - While they only contribute half of the genetic information, they give out a complete copy of the "recipe book"
    - 23 "pages" from mom and 23 "pages" from dad
  - During meiosis the separation of pairs of alleles is known as segregation
    - Why siblings are not identical (besides identical twins)
- independent assortment → genes are (mostly) inherited independently of each other
- Segregation dictates that alleles will have a 50% chance of ending up in a gamete (sperm or egg)
  - 23 chromosome pairs
  - = 8,000,000 possible unique gametes
    - Those gametes undergo random fertilization this means that gamete will fertilize no matter what alleles they contain
      - 1/64,000,000

### The Inheritance of traits

- Gregor Mendel (1822)
  - Grew 30,000 pea plants and documented the inheritance of their traits after transplanting pollen
    - Had no idea about genes but his experiments were sound and rigorous
  - Genotype - the genetic composition of the organism (physical genes and their codes)
    - A, G, T, C
  - Phenotype - physical traits prescribes for those genes (can see with the naked eye)

# Medelian Genetics Study Guide

**The Princeton Review**



## **Medelian Genetics Study Guide:**

## Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Medelian Genetics Study Guide**

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