# AP Biology Ch. 10 Meiosis and Sexual Life Cycles

#### Key concepts

- 10.1 Offspring acquire genes from parents by inheriting chromosomes.
- 10.2 Fertilization and meiosis alternate in sexual life cycles.
- 10.3 Meiosis reduces the number of chromosome sets from diploid to haploid.
- 10.4 Genetic variation produced in sexual life cycles contributes to evolution.
- Heredity is the transmission of traits from one generation to the next.
- Variation exists in populations that reproduce sexually, offspring are not identical to their parents.
- Genetics is the scientific study of heredity and hereditary variation.
- Each parent passes on 23 chromosomes to their offspring. These chromosomes are made up
  of many sections of DNA called genes.
- All of an individual's genes are called their genome.
- In animals and plants, reproductive cells called gametes are the vehicles that transmit genes from one generation to the next.
- Except for small amounts of DNA in the <u>mitochondria</u> and <u>chloroplasts</u>, the DNA of a eukaryotic cell is packaged into <u>chromosomes</u> in the <u>nucleus</u>.
- One chromosome has between several <u>hundred</u> to a few <u>thousand</u> genes.
- 9. A gene's specific location along the length of a chromosome is called the gene's locus (loci).
- Asexual reproduction is when a single individual gives rise to offspring.
  - These offspring are identical to their parent.
  - This type of reproduction occurs through the process of mitosis
  - Variation can occur through mutations
  - Some multi-celled organisms can reproduce this way through cloning (hydra)

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