

Genetics Summary Notes

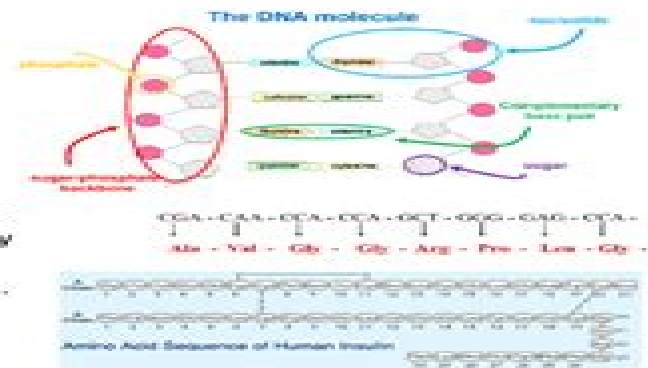
Chromosomes, DNA, and Genes

Chromosomes

- DNA molecule packed into thread-like structures (chromosomes) which are visible under microscope during cell division
- 46 chromosomes in humans (23 pairs): 44 autosomal (22 pairs), 2 sex chromosomes (1 pair- X and Y)
- Homologous chromosomes are pairs which are similar in length, centromere location and gene position. Gene position is the same but may contain different alleles
- Karyotyping: karyotype is an arrangement of the chromosome taken from the amniotic fluid from a pregnant female and grouped from largest to smallest. They show the number of chromosomes, the sex of the individual, and errors in chromosome structure or number

DNA (Deoxyribose nucleic Acid)

- DNA controls all the chemical changes which take place in cells and determine the type/function of a cell which is formed
- Formed by millions of nucleotides joined together in a long chain, with a double stranded right helix like a ladder. Phosphate-sugar (deoxyribose) chains are on the outside and are the 'backbone' and the complementary nitrogenous bases are held together by hydrogen bonds
- Bases are Adenine, Thymine, Cytosine and Guanine. Adenine and Thymine bond, Cytosine bonds with Guanine (A-T, C-G)



Proteins and amino acids

- Protein forms most of the human body excluding water and fat. It is the main component of muscles, bones, organs, skin, and nails. They are made up of thousands of amino acids.
- The sequence of bases in DNA dictates the sequence of amino acids. The base sequence is read in groups of 3 nucleotide bases (codon/triplet) which code for an amino acid.
- Amino acids join in a chain to form a protein

Genes

- Molecules of DNA that are in the nucleus of living cells and act like recipes. They determine how we look, move and grow. You get your genes from your parents

Cell Replication

Types of cells

- Somatic cells (non-sex cells). Have the full number of chromosomes (46 in humans). This is called the diploid number- $2n$.
- Gametes (sex cells; germ cells)- carry genetic information for gender. They have half the number of chromosomes (23 in humans). This is the haploid number- n .
 - Eggs have the X chromosome, sperm can have either X or Y

Replication

- Before division, the DNA unwinds and rebuilds/duplicates by adding the appropriate nucleotides, resulting in two double stranded DNA molecules. Each daughter cell will have the exact copy of the original parent cell DNA
- During chromosome duplication it appears as a large X. Each arm of the X is a chromatid (sister chromatids) and are joined by the centromere

Mitosis

- In somatic cells- growth; to replace worn out and damaged cells
- Single cell divides into two identical daughter cells (diploid to diploid)

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