

### 8.1 Genes and the genetic code

**Gene:** a section of DNA that contains the coded information for making polypeptides and functional learning

**Locus:** a gene located at a specific position on the DNA

**Genetic code** – there must be a minimum of three bases that code for each amino acid because:

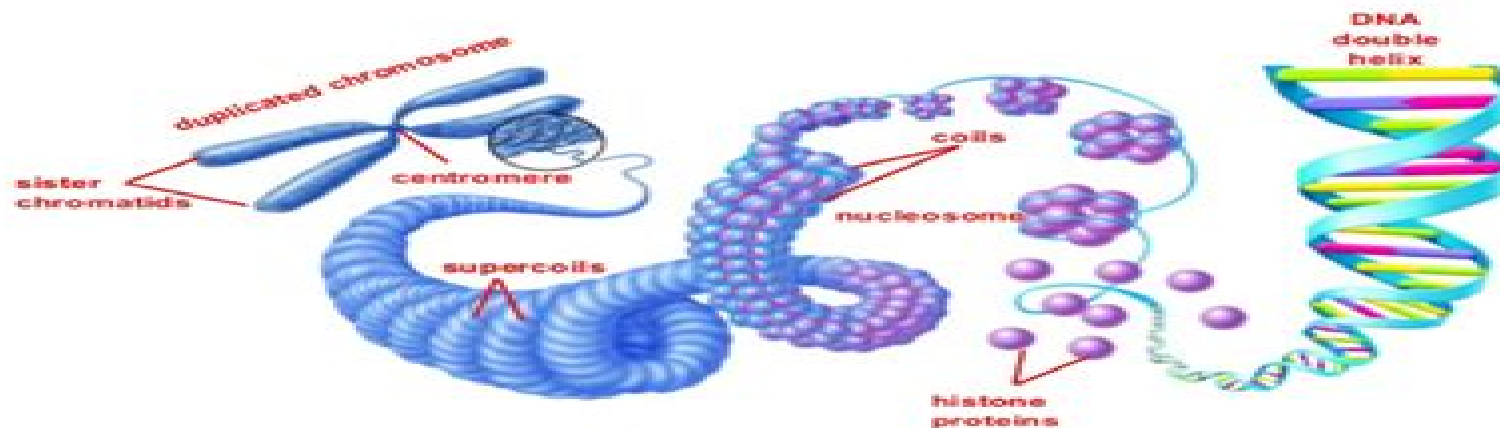
- Only 20 different amino acids regularly occur in proteins
- Each amino acid has its own code
- Only 4 different bases ( TACG )
- Using one base only 4 amino acids will be created
- Using a pair of bases only 16 amino acids will be created
- Using three bases 64 amino acids will be created, which is enough to satisfy the 20 amino acids

**Features of the genetic code:**

- A few amino acids are only coded by a single triplet
- A degenerate code – as most amino acids are coded for by more than one triplet
- Start and stop triplets
- Code is non-overlapping meaning each base is read only once in the sequence
- Code is universal meaning each triplet code is for the same amino acid in all organisms (indirect evidence of evolution)

### 8.2 DNA and chromosomes

In eukaryotic cells, DNA is packaged into multiple chromosomes.



- **Prokaryotic cells:** Circular, shorter DNA which is not associated with proteins therefore they don't have chromosomes.
- **Eukaryotic cells:** linear, longer DNA which is associated with proteins called histones that form chromosomes. The mitochondria and chloroplasts of eukaryotic cells have shorter DNA and don't associate with proteins

**Homologous chromosomes:**

- Sexually produce organisms are the result of the fertilisation of a sperm and an egg cell.
- The maternal and paternal chromosomes contribute to a full set
  - o **Diploid** – total number of chromosomes
  - o **Haploid** – half the total number of chromosomes

**Alleles:** an alternative form of a gene that occurs at the same locus on homologous chromosomes

- Any changes in the base sequence of a gene causes a mutation (a new allele of that gene). This results in production of a different polypeptide which may or may not be functional
- Ex. if the mutated protein is an enzyme and it isn't complementary to the substrate it will cause a problem

### 8.3 Structure of ribonucleic acid

**Transferring the coded information:**

- Sections of DNA are transcribed onto mRNA
- mRNA is small enough to leave the nucleus into the cytoplasm where proteins are synthesised
- A codon: the sequence of three bases on mRNA that code for an amino acid

# From Dna To Protein Synthesis Chapter 1lab

**WJ Hussar**



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