

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:

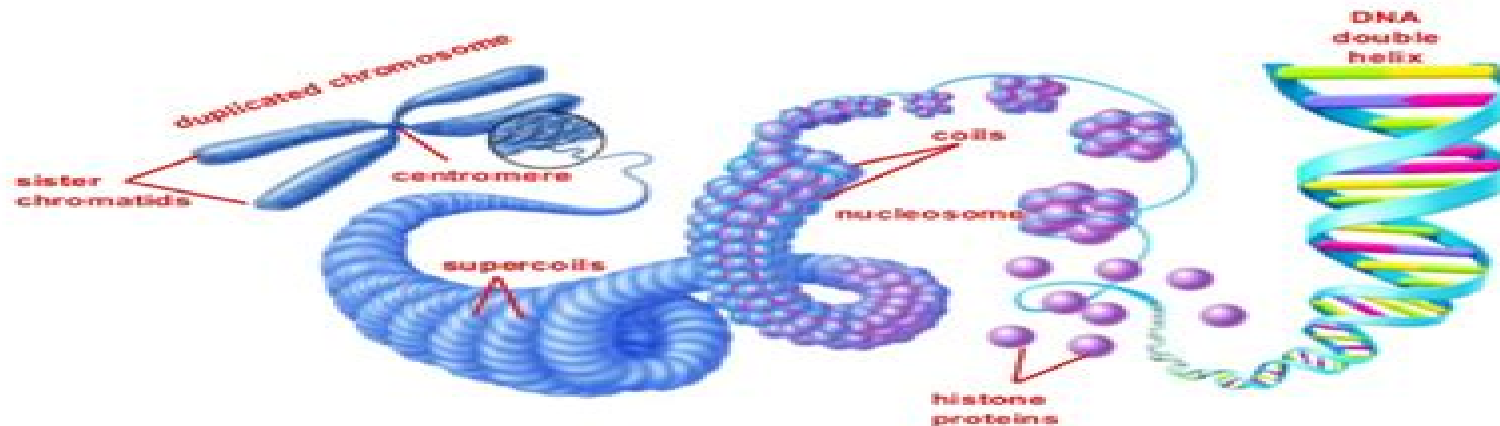
- Only 20 different amino acids regularly occur in proteins
- Each amino acid has its own code
- Only 4 different bases (TACG)
- Using one base only 4 amino acids will be created
- Using a pair of bases only 16 amino acids will be created
- Using three bases 64 amino acids will be created, which is enough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

David Kirk



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Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

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