

# 3.1 GENES

## WHAT IS A GENE?

- A functional factor that influences a specific characteristic (e.g. hair colour)
- Genes are sections of DNA found on chromosomes
- A gene occupies a specific position on one type of chromosome
- This is called the **gene locus**
- Several genes can also be found on the same chromosome



**C** Use of a database to identify the name and position of a human gene

**I** Identify gene loci from maps, images, and/or seq.



Name of Species	Description	No. of Genes
<i>Escherichia coli</i>	Gram bacterium	2,300
Oryza sativa	Rice	49,000
<i>Populus trichocarpa</i>	Black cottonwood tree	48,000
<i>Drosophila melanogaster</i>	Fruit fly	14,000
<i>Homo sapiens</i>	Human	20,000
<i>Daphnia pulex</i>	Water flea	31,000

- Different organisms have different numbers of genes
- C-complexity in structure, physiology and behaviour does not always correlate with increased gene number

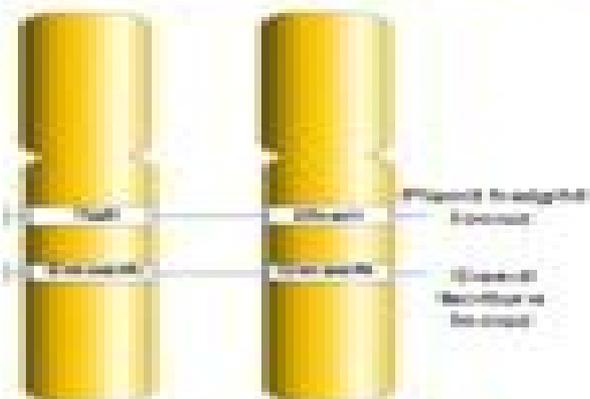
**C** Use of a database to determine differences in the base sequence of a gene in two species

**I** Compare gene base sequences from different species

**C** Comparison of the number of genes in humans to other species

## WHAT ARE ALLELES?

- Alleles are various forms of a particular gene
- There can be more than two types of alleles for a gene  
→ e.g. eye colour in *Drosophila melanogaster* (fruit fly)
- Alleles will have the same gene locus
- Most organisms have two copies of each chromosome, so two copies of each gene
- These could have the same alleles or two different alleles
- Alleles differ from each other by one or a few bases only



## MUTATIONS

- New alleles are formed by **mutations** → random changes in the base sequence
- Mutations can be beneficial, neutral, or harmful
- The most significant type is **point substitution**
- One base in the gene sequence is replaced by a different base  
→ e.g. Thymine is replaced by Cytosine

**I** Only mutations that directly affect the gene can be passed onto offspring

# Bio Unit 3 Genetics Study Guide

**Irwin Herman Herskowitz**



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