

# 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 that are adjacent to each other are **transcribed as 1** on the right



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

**I** Identify gene loci using microarrays



Name of Species	Description	No. of Genes
Escherichia coli	Gram bacterium	2,000
Oryza sativa	Rice	49,000
Populus trichocarpa	Black cottonwood tree	48,000
Drosophila melanogaster	Fruit fly	14,000
Homo sapiens	Human	20,000
Caenorhabditis elegans	Nematode	19,000

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

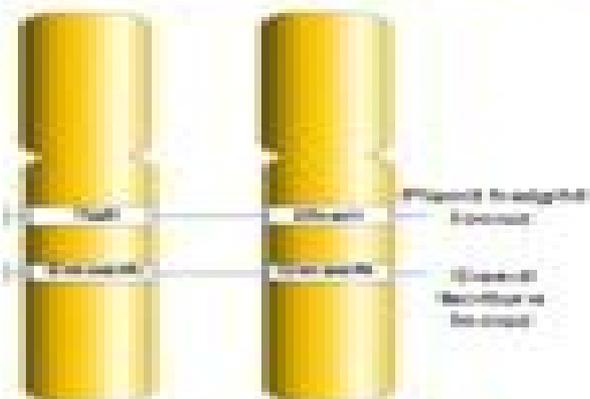
**C** Use of a database to determine differences in the base sequence of a gene in two species

**I** Compare gene base sequences using microarrays

**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 (3 or 4 alleles)
- 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

**Guillaume Favre**



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