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# IB BIOLOGY GENETICS QUESTIONS AND ANSWERS WITH SOLUTIONS 2024

**Gene** - ANSWER a heritable factor that controls a specific characteristic.

**Allele** - ANSWER one specific form of a gene, differing from other alleles by one or a few bases only and occupying the same locus as other alleles of the gene.

**Genome** - ANSWER The whole of the genetic information of an organism

**gene mutation** - ANSWER a change in the base sequence of a gene.

**Base substitution** - ANSWER The smallest possible change is when one base in a gene is replaced by another. An example of this type of mutation is sickle cell anemia

**Meiosis** - ANSWER a reduction division of a diploid nucleus to form haploid nuclei.

**Homologous chromosomes** - ANSWER chromosomes with the same genes in the same loci but not necessarily the same alleles of those genes.

**Random orientation** - ANSWER during prophase I the position of each pair of chromosomes when the spindle attaches is random

**Non-disjunction** - ANSWER sometimes chromosomes that should separate and move to opposite poles during meiosis do not separate and instead they both move to the same pole

**Karyotyping** - ANSWER chromosomes are arranged in pairs according to their size. Performed using cells collected by chorionic villus sampling for prenatal diagnosis of chromosome abnormalities.

**Prophase I** - ANSWER Chromosome supercoil, homologous chromosomes (bivalents) pair up (synapsis), crossing over occurs resulting in chiasma, centrioles move to opposite poles in animal cells and the nuclear membrane breaks down.

# Biology Genetics Questions And Answers

**E Durkheim**



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