

Stages of interphase

It is divided into three phases.

- G1 (first gap)
- S (synthesis)
- G2 (second gap)

G1 Phase

After its production, a cell starts its cell cycle in G1 phase. During this phase,

- (i) The cell increases its supply of proteins,
- (ii) Cell increases the number of its organelles (such as mitochondria, ribosomes)

(iii)Cell grows in size.

(iv) This phase is also marked by the synthesis of various enzymes that are required in the next phase i.e. S phase, for the duplication of chromosomes.

S Phase

In this phase, DNA replication takes place, as a result the cell duplicates its chromosomes.

As a result, each chromosome consists of two sister chromatids.

G2 Phase

In the G2 phase, the cell prepares proteins that are essential for mitosis, mainly for the production of spindle fibres.

After the G2 phase of interphase, the cell enters in the division phase i.e. M phase. It is characterized by mitosis, in which the cell divides into the two daughter cells.

Q.4. Write a brief note on G0 Phase.

Ans. G0 Phase

Eukaryotic or Multicellular Cells Definition

Cells that have temporarily or permanently stopped dividing are said to have entered a state of quiescence called GO Phase.

In multicellular eukaryotes, cells enter the GO state from G1 and stop dividing. Some cells remain in GO for indefinite period e.g. neurons. Some cells enter GO phase semi-permanently e.g. some cells of liver and kidneys. Many cells such as epithelial cells, do not enter GO and continue to divide throughout an organism's life.

Note: The events of cell cycle are ordered

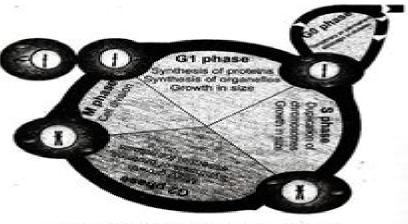


Figure 5.1: The eukaryotic cell cycle

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