# Unit 5 - Cell Growth & Division

#### Standards:

- Describe the three stages of the cell cycle: interphase, nuclear division, cytokinesis.
- Compare the processes and outcomes of mitotic and meiotic divisions.
- Describe how the process of DNA replication results in the transmission and/or conservation of genetic information.

The cell cycle is a series of events that take place in a EUKARYOTEC cell leading to its division and duplication. During this cycle the cell:

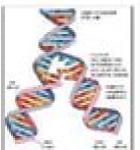
- Ground
- Reproduces/Divides
- · Performs normal functions (protein synthesis, respiration, transport of materials)

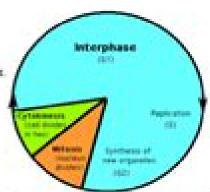
Mitesis i required for growth and repair of eukaryotic cells

Melasis i required for sexual reproduction of many multi-cellular organisms.

Nuclear Division Characteristic	Mitteria	Melmula
Oconosone number stays the same	x	
Chrossoone number is out in half:		X
One cell division	X	
Two cell divisions		X
Produces four cells		X
Produces two cells	X	
Associated with sexual reproduction		N,
Associated with ascread reproduction, growth and repair	x	
Forms gameles (sex cells)		N.
Forms somatic (body) cells	X	
Involves pairing and separation of homologous chromosomes		х
Disaghter cells are identical to parent	X	
Daughter cells are NOT identical to purent		X
Choosing over occurs		N.

1. Uncontrolled cell. division results in numers. Tomors can be intalignant OR: benign, Malignant lumors any endocross. and can metastasksy (break off and travel) within an organism. 2. Cancer cells do MOT comy out. necessary functions. Canoer cells come from normal cells with damage to the genes. that are involved in cell cycle regulation. 3. Carelmogens are substances that cause these gone mutations.





- Cell division only occurs if the cell in large enough and the DNA is undersuped?
- The surface area of a cell must be large crough for the transport of materials into and out of the cell.
- Cells that are large tend to have different shapes to help them function nemerly.
- The rate of cell division varies depending upon the location and function/type of the cell.
- Some cells are unlikely to divide, such as neurons (norve cells). These cells stay in a plane known as (66).

The cell cycle consists of three distinct stopes:

- Interphase the longest phase of the cell cycle in which a cell performs
  the majority of its functions, such as preparing for nuclear division and
  cytokinesis.
  - Interphase consists of 3 phases:
    - <u>Gop 1 (G1)</u> Cell growth, normal functions, organelles dualicate
    - Synthesis (5) DNA replication (Synthesis of DNA : New DNA is made by copying pre-existing DNA)
    - . Gop 2 (GZ) Additional growth
- 2. Nuclear division division of the nucleus
  - > There are two types of nuclear division:
    - Mitagis a nuclear division that results in 2 senatic (body) cells with identical DNA.
    - Meiosis a two-phase nuclear division that results in the production of 4 gametes (sex cells) with half the normal number of chromosomes. Gametes are genetically different.
- Cytokinesis final phase of the cell cycle resulting in the division of the cytoplasm

DNA replication - The process in which DNA makes a deplicate copy of itself.

- DNA = Deoxyribogucleic Acid (genetic material)
- DNA is made of nuclootides = A, T, C, G.
- A single strand of DNA serves as a template for a new strand.
- Replication occurs following the base-pair rules (A = T and C = G).
- DNA is replicated during <u>Interphase</u> (S Synthesis) of the cell cycle.
- DNA Replication is semi-conservative which means that the DNA molecule uncoils and separates into two strands. Each original strand becomes a template on which a new strand is constructed, resulting in two DNA molecules identical to the original DNA molecule.
- Each somatic cell (body cell) gets a complete set of identical DNA.

# **Cell Growth And Division Study Guide Answers**

**Rosina Ehmann** 

Cell Growth And Division Study Guide Answers:

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