

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 **EUKARYOTIC** cell leading to its division and duplication. During this cycle the cell:

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

Mitosis = required for growth and repair of eukaryotic cells

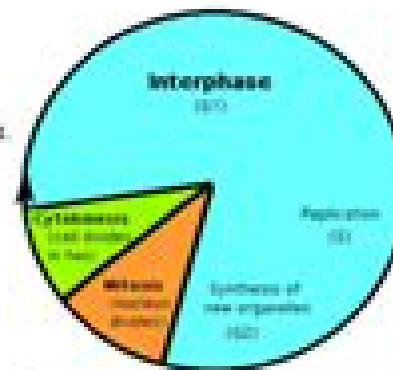
Meiosis = required for sexual reproduction of many multi-cellular organisms.

Nuclear Division Characteristic	Mitosis	Meiosis
Chromosome number stays the same	X	
Chromosome number is cut in half		X
One cell division	X	
Two cell divisions		X
Produces four cells		X
Produces two cells	X	
Associated with sexual reproduction		X
Associated with asexual reproduction, growth and repair	X	
Forms gametes (sex cells)		X
Forms somatic (body) cells	X	
Involves pairing and separation of homologous chromosomes		X
Daughter cells are identical to parent	X	
Daughter cells are NOT identical to parent		X
Crossing over occurs		X

1. Uncontrolled cell division results in **tumors**. Tumors can be malignant OR benign. Malignant tumors are **cancerous** and can metastasize (break off and travel within an organism).

2. Cancer cells do NOT carry out necessary functions. Cancer cells come from normal cells with damage to the genes that are involved in cell cycle regulation.

3. **Carcinogens** are substances that cause these gene mutations.



- Cell division only occurs if the cell is large enough and the DNA is undamaged!
- The surface area of a cell must be large enough for the transport of materials into and out of the cell.
- Cells that are large tend to have different shapes to help them function properly.
- 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 (nerve cells). These cells stay in a phase known as (G0).

The cell cycle consists of three distinct stages:

1. **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:

- G₁ (G1)** - Cell growth, normal functions, organelles duplicate
- Synthesis (S)** - DNA replication (Synthesis of DNA = New DNA is made by copying pre-existing DNA)
- G₂ (G2)** - Additional growth

2. **Nuclear division** - division of the nucleus

> There are two types of nuclear division:

- Mitosis** - a nuclear division that results in 2 somatic (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.

3. **Cytokinesis** - final phase of the cell cycle resulting in the division of the cytoplasm

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

- DNA = **D**eoxyribonucleic **A**cid (genetic material)
- DNA is made of nucleotides = 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 **Interphase (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.

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Study Guide for the Core Curriculum for Oncology Nursing June Eilers, Regina Fink, 2015-02-25 PART SIX ONCOLOGIC EMERGENCIES 40 Metabolic Emergencies 41 Structural Emergencies PART SEVEN SURVIVORSHIP 42 Survivorship PART EIGHT PALLIATIVE AND END OF LIFE CARE 43 Palliative and End of Life Care PART NINE PROFESSIONAL PRACTICE 44 Evidence Based Practice and Standards of Oncology Nursing 45 Education Process 46 Legal Issues 47 Ethical Issues 48 Professional Issues Answer Key *Study Guide for the Core Curriculum for Oncology Nursing - E-Book* ONS, June Eilers, Martha Langhorne, Regina Fink, 2015-01-29 Get the most out of your OCN Exam review with this helpful study tool Corresponding to the chapters in The Core Curriculum for Oncology Nursing 5th Edition this definitive study guide endorsed by the Oncology Nursing Society covers the entire scope of practice for oncology nursing It is based on the latest test blueprint for the OCN Exam with more than 1 200 practice questions addressing all oncology topics including the newest advances in cancer treatment and related nursing care Prepare to succeed on your OCN Exam with this ONS endorsed study resource The definitive study guide for the OCN Examination is developed in collaboration with and endorsed by the Oncology Nursing Society the parent organization of the Oncology Nursing Certification Corporation ONCC which administers the OCN Examination Coverage of the entire scope of oncology nursing care includes quality of life protective mechanisms gastrointestinal and urinary function cardiopulmonary function oncologic emergencies the scientific basis for practice health promotion and professional performance An answer key includes rationales for correct and incorrect responses NEW Revised and updated content reflects the latest OCN Examination test blueprint and The Core Curriculum for Oncology Nursing 5th Edition NEW emphasis on application level questions helps you apply your knowledge more effectively NEW Updates on cancer treatment and related nursing care include the most current and accurate information preparing you for the OCN Exam and for expert clinical practice NEW Emphasis on QSEN competencies is designed to reduce errors in oncology nursing practice with a focus on safety and evidence based practice including a Safety Alert icon and a High Alert Medication icon for cancer chemotherapy drugs *Study Guide to Cell Biology* Cybellium , 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com **Hematology Specialty Review and Study Guide** Whitney Landy, 2015-09-25 Includes Multiple choice fact scenario and case based

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