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~~Cycle and Genes~~

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and Mitosis:

Regulation of

the Cell Cycle

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Cell Cycles *Cell
Cycle, Mitosis
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Chapter 12: The
Cell Cycle

Overview: 1.

What are the
three key roles
of cell
division? State
each role, and
give an example.

Key Role	Example
Reproduction	An amoeba, a single-celled

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eukaryote,

divides into two cells. Each new cell will be an individual organism.

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Chapter 12 The
Cell Cycle

Lecture Outline

. Overview: The
Key Roles of

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The ability of organisms to reproduce their kind is the one characteristic that best distinguishes living things from nonliving matter. The continuity of life is based on the reproduction

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2. What is meant
by the cell
cycle? Concept
12.1 Cell
division results
in genetically
identical
daughter cells .

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3. What is the meaning of genome? Compare your genome to that of a prokaryotic cell. 4. How many chromosomes are in a human somatic cell? 5. Name two types of somatic cells in your body. 6. What is a

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gamete? 7. Name
the two types of

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The Four Phases
of the Cell
Cycle Cells

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arise through
cell division of
preexisting
cells.

Observations of
newly developing
organisms, or
embryos,
confirmed that
plants and
animals start
life as a single-
cells embryos
Grow through a

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series of cell
divisions
Meiosis produces
reproductive
cells, called
gametes. Mitosis
produces all
other ...

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From every cell
a cell – Rudolf

Virchow

Cell division:
reproduction of
cells Cell
cycle: life of a
cell from the
time it is first
formed from a
dividing parent
cell until it

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Cell Cycle

divides into 2
daughter cells

Mitosis: nuclear

division within

a cell, followed

by cytokinesis

Cytokinesis:

division of the

cytoplasm - It

is crucial that

genetic material

remains the same

from ...

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Multiple-Choice
Questions 1) The
centromere is a
region in which
A) chromatids
remain attached
to one another
until anaphase.
B) metaphase

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chromosomes
become aligned
at the metaphase
plate. C)

chromosomes are
grouped during
telophase. D)
the nucleus is
located prior to
mitosis.

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Multiple Choice
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Cycle 1. What
are the three
key functions of
cell division?

Key Function

Example

reproduction an
amoeba dividing
into two cells,
each
constituting an
individual

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organism growth
and development
fertilized egg
gives rise to
two-celled sand
dollar embryo
tissue renewal
dividing cells
in bone marrow
continuously
make new blood
cells

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Chapter 12 Cell
Division /
Mitosis
Vocabulary:
gene, cell
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division,
chromosomes,
somatic cells,
gametes,
chromatin,
sister
chromatids,
centromere,
mitosis,
cytokinesis,
meiosis, mitotic
phase,
interphase,
centrosome,

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aster,
kinetochore,
cleavage furrow,
cell plate,
mitotic spindle,
binary fission,
transformation,
benign tumor,
malignant tumor,
metastasis

Objectives:

After attending
lectures and
studying the

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the student should be able to: 1.

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Cell Cycle
(Mitosis)*

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Cycle 1. Concept
12.1 Most cell
division results
in genetically
identical
daughter cells
a. Cell
division: i.

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Cell Division
Cycle 1 ...

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Phases of the
cell cycle. a.
non-dividing
cells exit cell
cycle. b. at
this point,
cells commits to
go through the
cell cycle. c.
DNA replicates.
d. centrosome
replicates. e.
mitotic spindle
begins to form.

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f. cell divides,
forming 2
daughter cells.

Mechanisms

underlying the
events of
mitosis

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Mitosis 12.1.

Binary Fission
in Bacteria A.

Bacterial DNA

Bacteria are prokaryotes with a single loop or circle of DNA in nucleoid region.

B. Binary Fission Bacteria grow by first doubling their chromosome, then

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dividing the
cytoplasm into 2
cells. Page 1
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Cell Cycle and*

...

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Cycle Notice

that now you are
learning a
number of

differences

between

prokaryotic and

eukaryotic

cells. Besides

the fact that

prokaryotes lack

a membrane-

bounded nucleus,

describe the

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following
differences:
Mode of
reproduction?

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question What is
the correct
order for the

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phases of the
cell cycle?

answerS, G2, M, G1

questionAlthough
the process of
chromosome
partitioning
during mitosis

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in this set (29)

Key roles of

cell division.

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Growth &
Development,
Tissue Removal.
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What is the cell cycle? From the time the cell is formed until its own division.

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mitotic phase-

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includes both mitosis and cytokinesis, is the shortest part of the cell cycle cell grows (G1), continues to grow as it copies its chromosomes (S), grows more as it completes preparations for cell division

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(G2), and
divides (M). The
daughter cell
then repeats the
cycle G2 of
Interphase

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progress in the
identification
of drugs capable
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to manipulate
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