

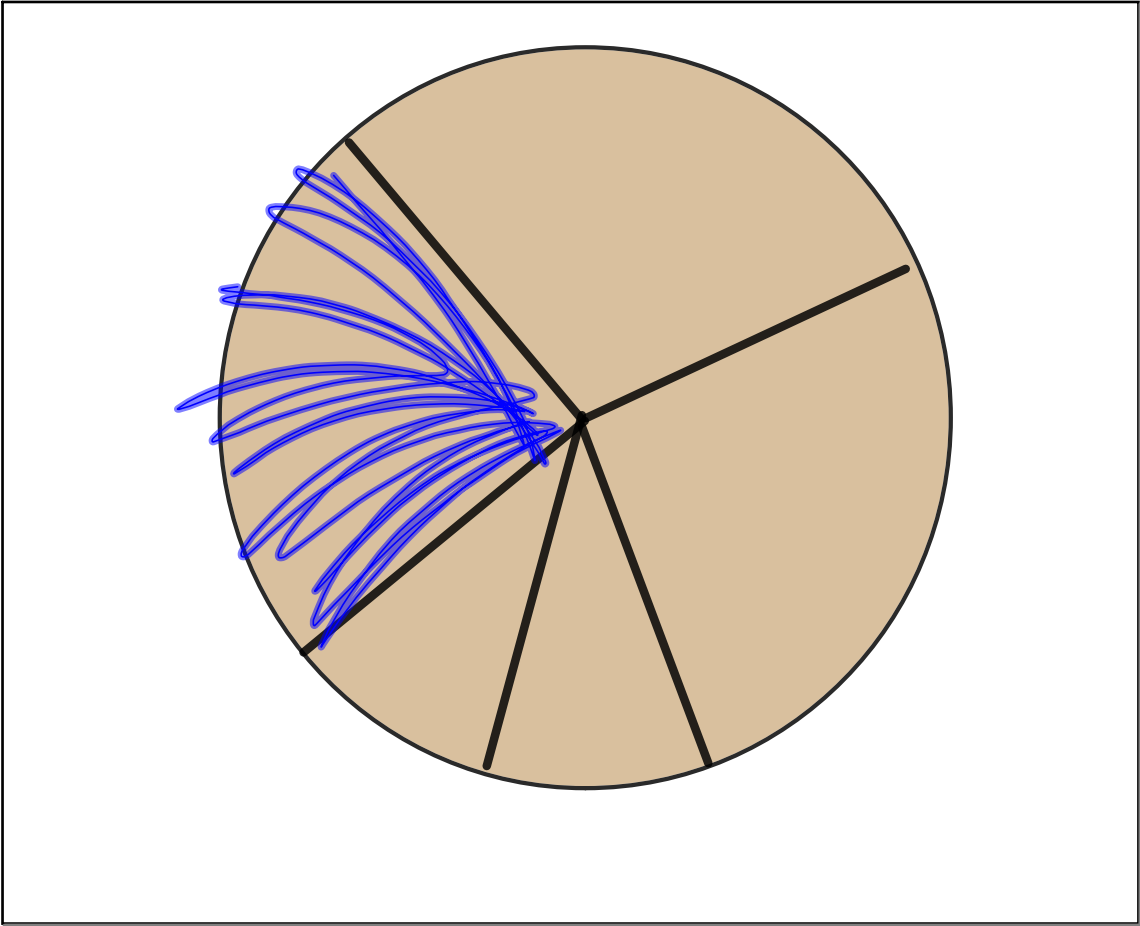
Notes on Chapter 6-2

Nov 11 - 7:20 AM

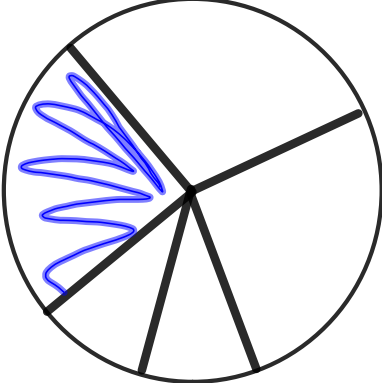
Cell Cycle is the cell division on a eukaryotic cell.

Cell cycle- a repeating sequence of cellular growth and division during the life of an organism.

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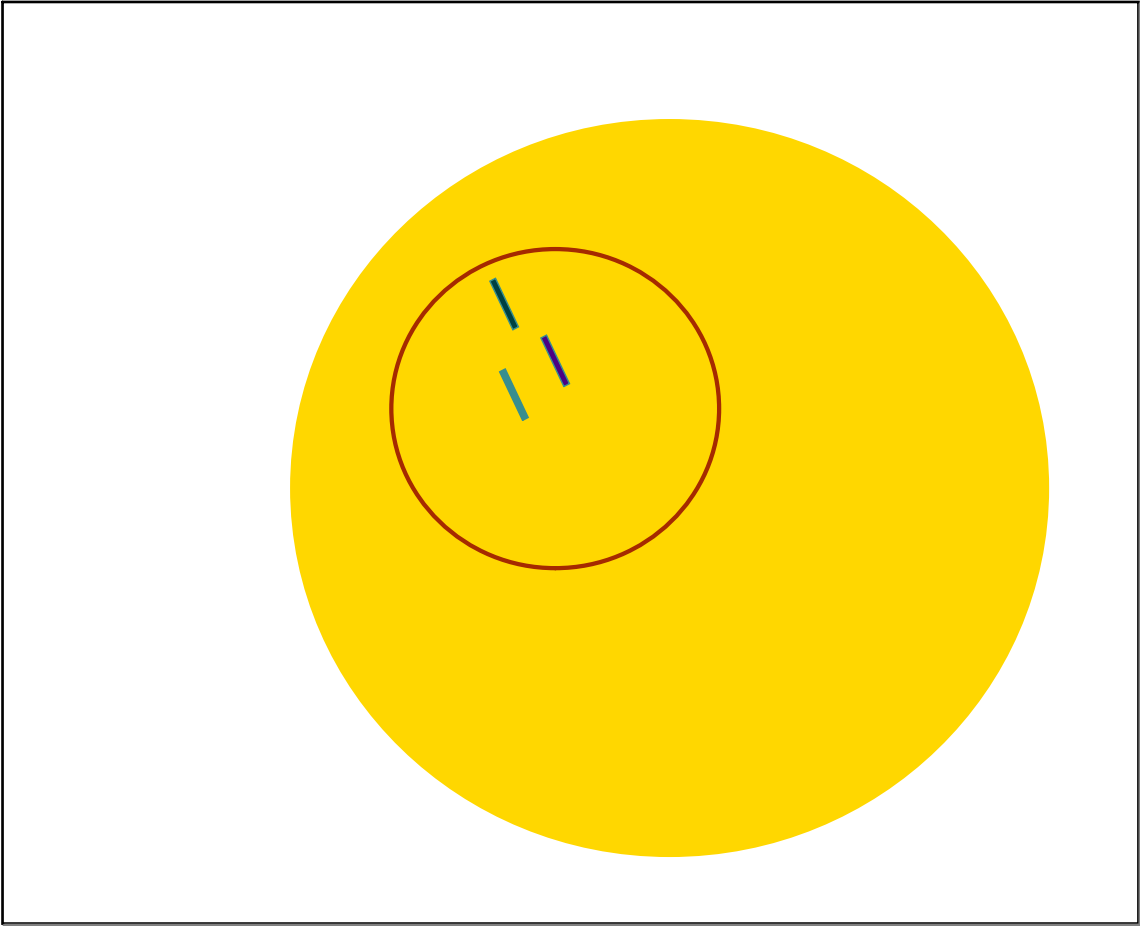


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G_1 The first growth phase. A cell carries out its functions and grow. Cells that are not dividing stay in G_1

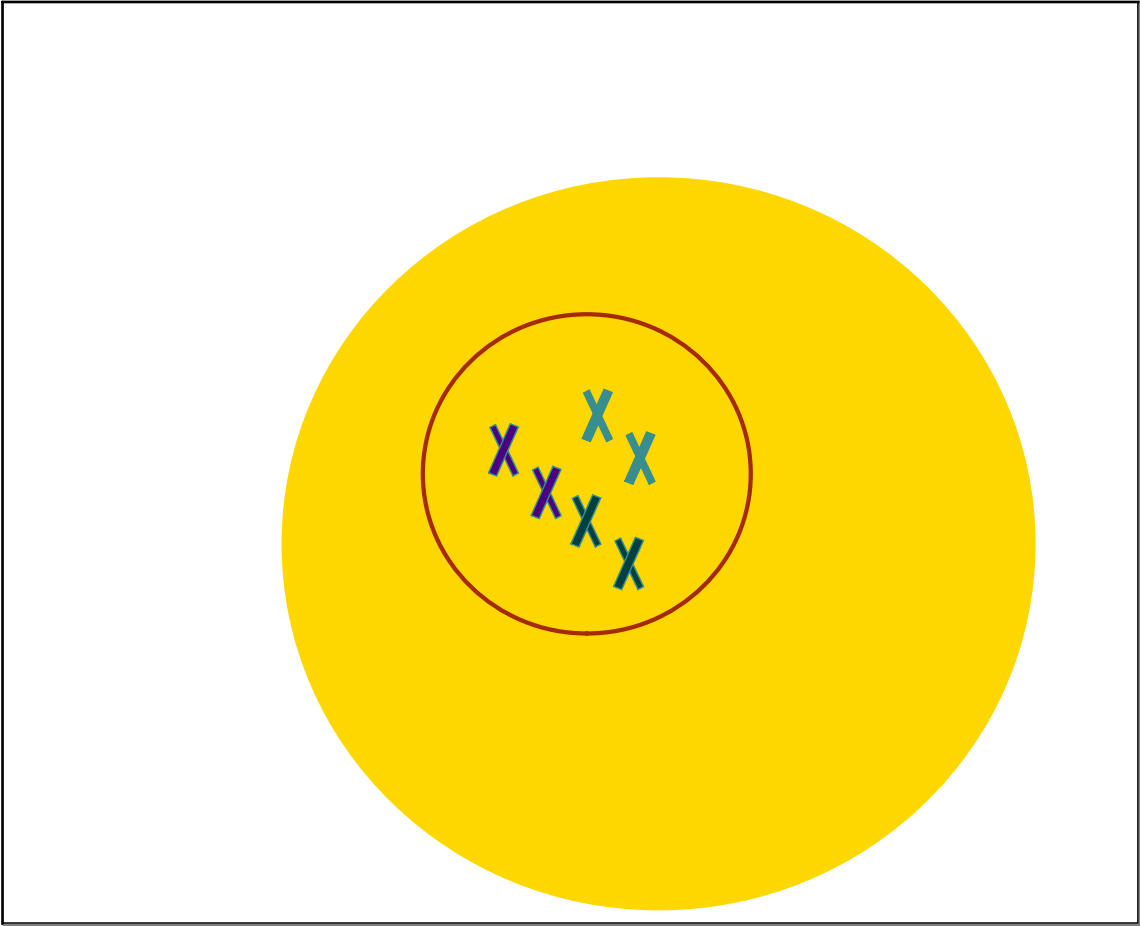
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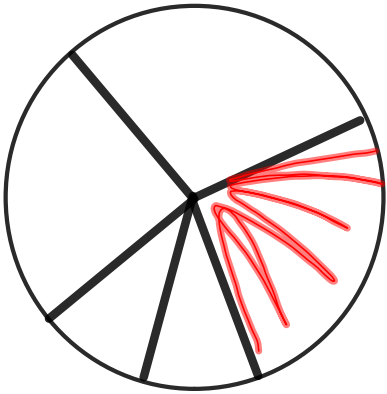
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S phase- Synthesis- a cell's DNA is copied. At the end of this phase each Chromosome consists of two chromatids attached at the centromere

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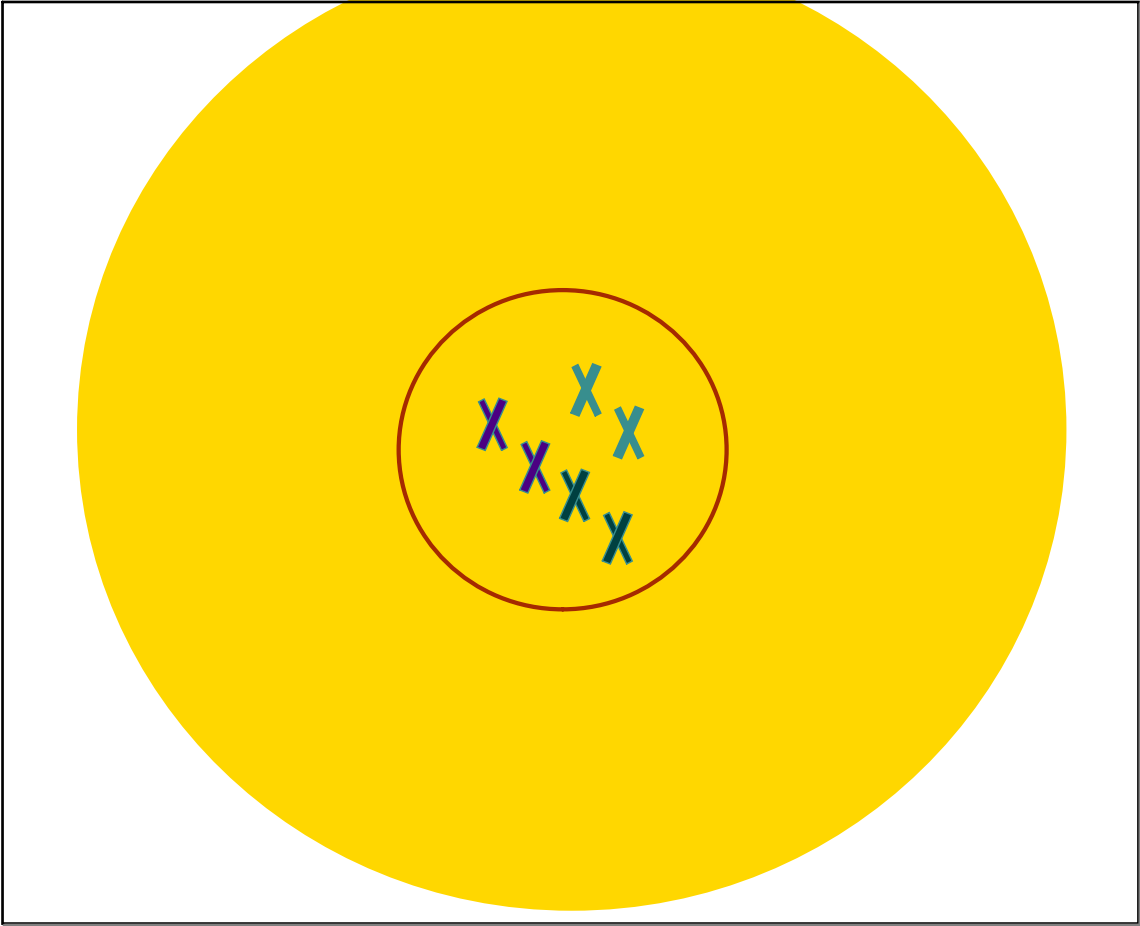


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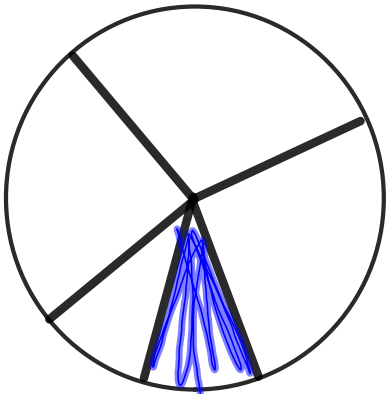


G_2 phase. The 2nd growth phase. The cell prepares to divide. Microtubules are assembled.

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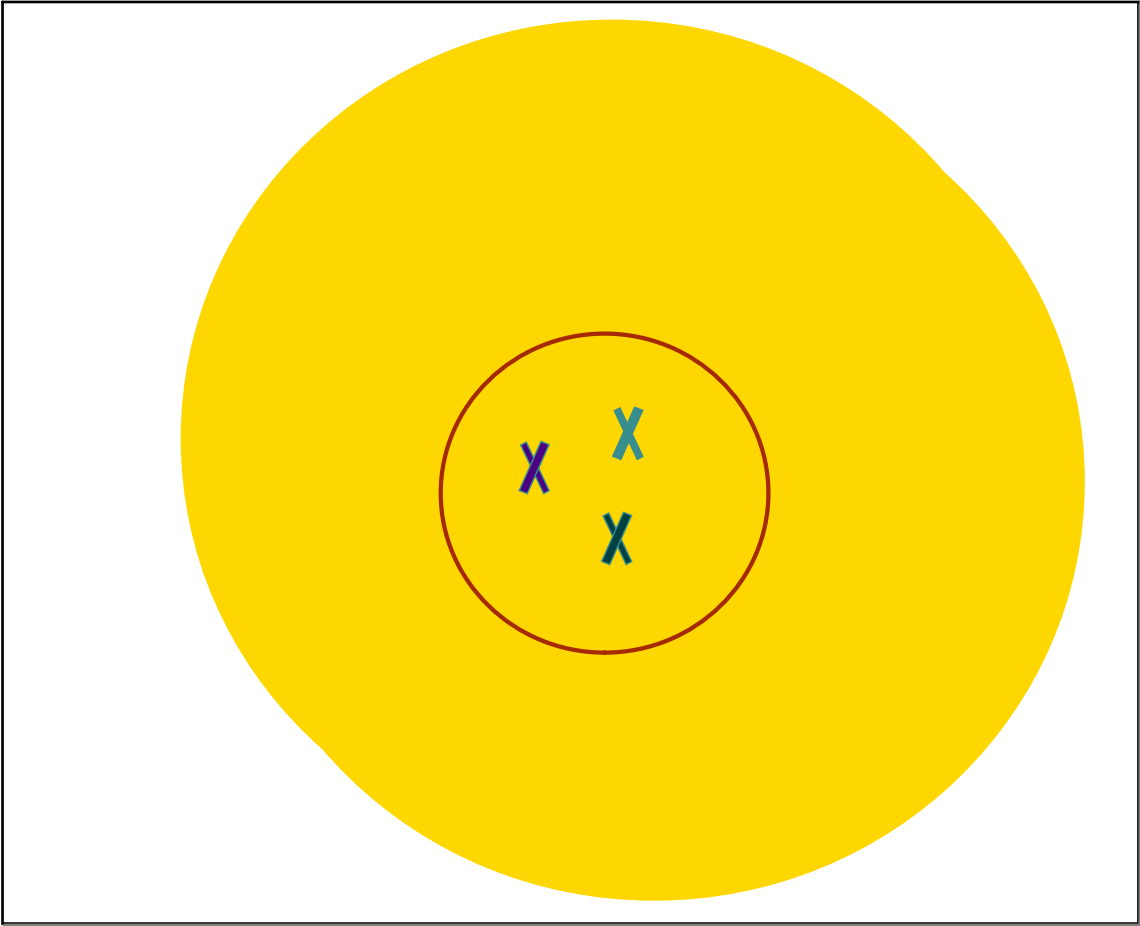


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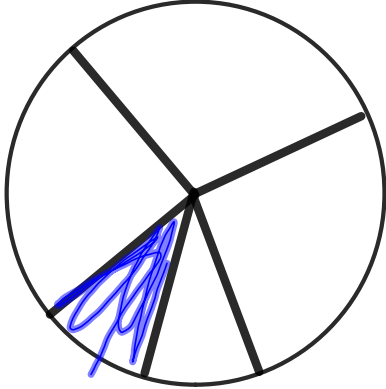


Mitosis- The process of cell division. The cell divides into two nuclei.

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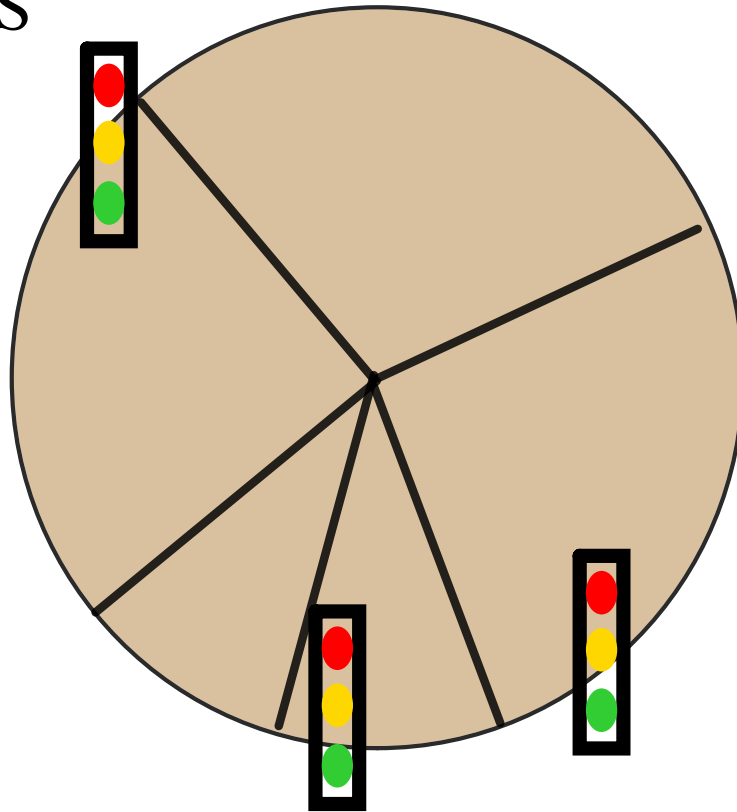


Cytokinesis- the process by which the Cytoplasm divides.

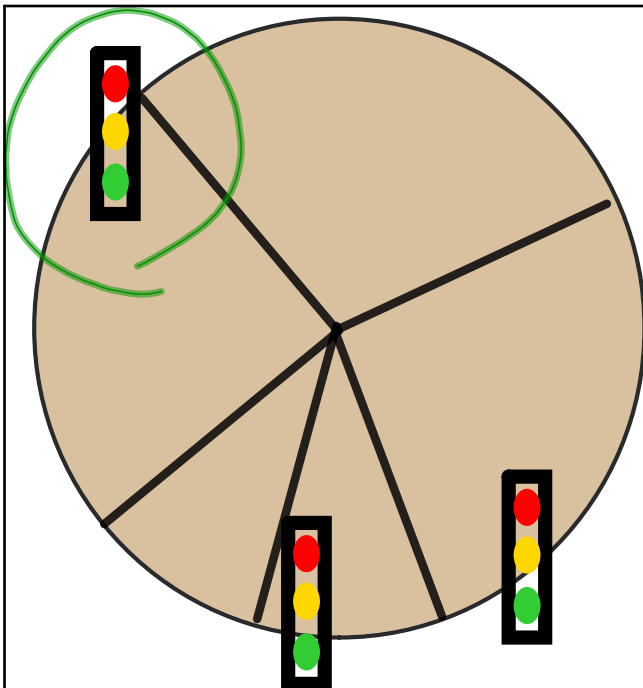
The diagram on the left shows a circle representing a cell. Three black lines radiate from the center to the edge, dividing the cell into three sectors. One of these sectors is filled with blue scribbles, representing the cytoplasm being divided during cytokinesis.

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STOPS

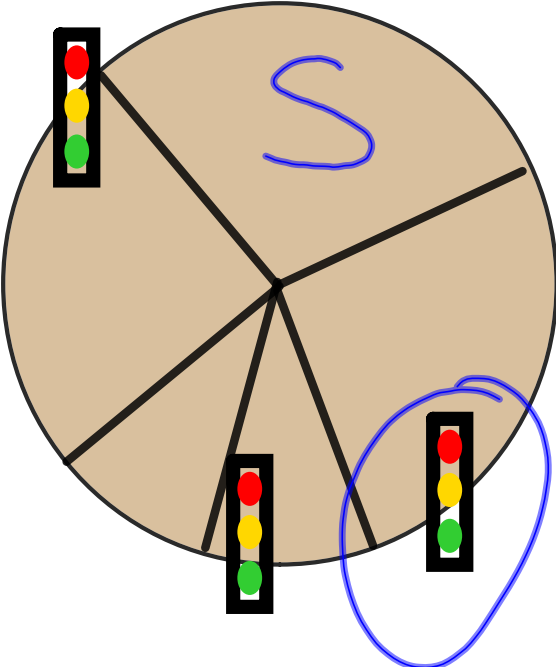


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G₁ checkpoint-
decide if the
cell will divide

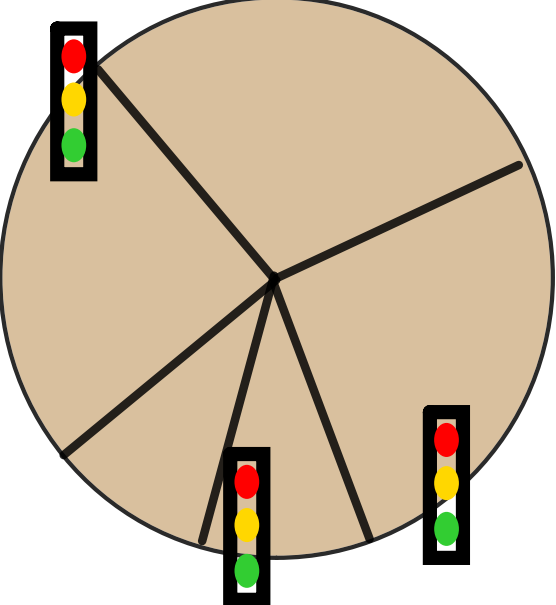
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A circular diagram representing a cell in the G₂ phase. The cell is divided into four quadrants by two diagonal lines. A blue 'S' is written in the top quadrant. Three traffic light icons are positioned around the cell: one in the top-left quadrant, one in the bottom-left quadrant, and one in the bottom-right quadrant. The traffic light in the bottom-right quadrant is circled in blue. The text to the right explains that this is the G₂ checkpoint where DNA replication is checked by DNA repair enzymes. If passed, the cell enters mitosis.

G₂ checkpoint-
DNA replication
is checked at this
point by DNA
repair enzymes.
If this check
point is passed
the cell enters
mitosis.

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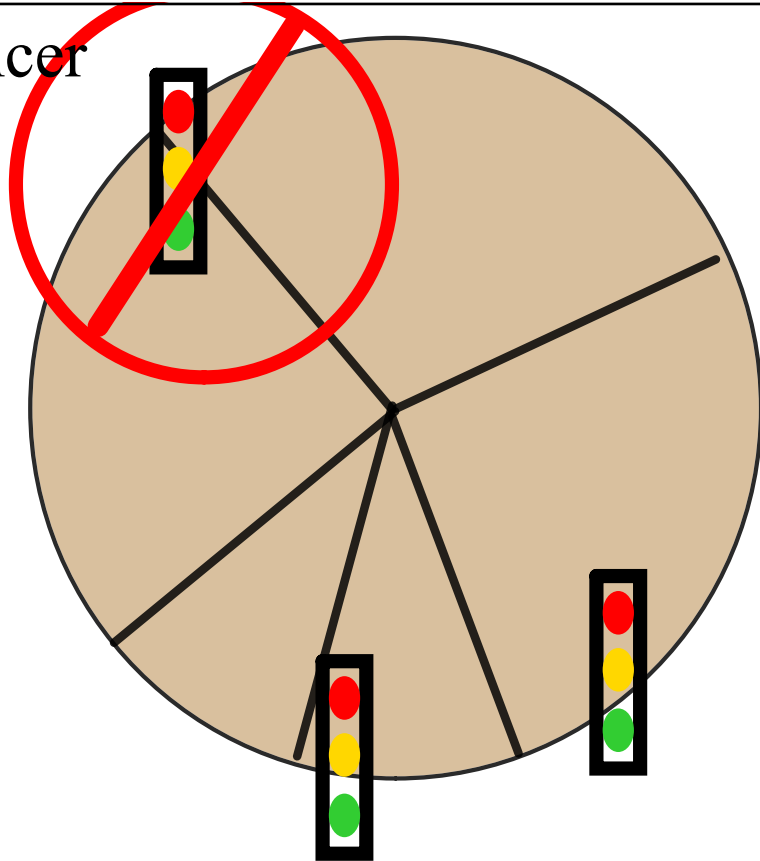


A circular diagram representing a cell in mitosis. The cell is divided into four quadrants by two diagonal lines. Three traffic light icons are positioned around the cell: one in the top-left quadrant, one in the bottom-left quadrant, and one in the bottom-right quadrant. The text to the right explains that the mitosis checkpoint triggers the exit from mitosis.

Mitosis
checkpoint-
triggers the
exit from
mitosis.

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Cancer



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