Mitosis Phases

1. Interphase
2. Prophase
3. Prometaphase
4. Metaphase
5. Anaphase
6. Telophase
7. Cytokinesis

Mitosis Definition

Mitosis is the process, in the cell cycle, by which the chromosomes in the cell nucleus are separated into two identical sets of chromosomes, each in its own nucleus.

Metaphase

Motor Proteins

> Motor proteins are a class of molecular motors that are able to move along the surface of a suitable substrate.

Interphase

Chromatin

> Chromatin is a complex of macromolecules found in cells, consisting of DNA, protein and RNA. The primary functions of chromatin are 1) to package DNA into a smaller volume to fit in the cell, 2) to reinforce the DNA macromolecule to allow mitosis, 3) to prevent DNA damage, and 4) to control gene expression and DNA replication.

Centrosomes

> In cell biology, the centrosome is an organelle that serves as the main microtubule organizing center (MTOC) of the animal cell as well as a regulator of cell-cycle progression.

Cytokenesis

Cytokinesis is the process in which the cytoplasm of a single eukaryotic cell is divided to form two daughter cells.

Anaphase

Anaphase is the stage of mitosis or meiosis when chromosomes are split and the sister chromatids move to opposite poles of the cell.

Telophase

Telophase is the final stage in both meiosis and mitosis in a eukaryotic cell.

Cleavage Furrow

In cell biology, the cleavage furrow is the indentation of the cell's surface that begins the progression of cleavage, by which animal and some algal cells undergo cytokinesis, the final splitting of the membrane, in the process of cell division.

Prophase

Chromosomes

> A chromosome is packaged and organized chromatin, a complex of macromolecules found in cells, consisting of DNA, protein and RNA.

Chromatid

> A chromatid is one copy of a duplicated chromosome, which is generally joined to the other copy by a single centromere.

Microtubules

> Microtubules are a component of the cytoskeleton, found throughout the cytoplasm.

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Published 27th October, 2014.
Last updated 13th May, 2016.

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