



Cell Cycle and Mitosis

THE CELL CYCLE

The **cell cycle**, or **cell-division cycle**, is the series of events that take place in a **eukaryotic cell** between its formation and the moment it replicates itself. These events can be divided in **two main parts**: **interphase** (*in between divisions* phase grouping **G₁ phase**, **S phase**, **G₂ phase**), during which the cell is forming and carries on with its normal metabolic functions; the **mitotic phase** (**M mitosis**), during which the cell is replicating itself. Thus, cell-division cycle is an essential process by which a single-cell fertilized egg develops into a mature organism and the process by which hair, skin, blood cells, and some internal organs are formed.

1. What is meant by the cell cycle or cell division cycle? **events that take place in a eukaryotic cell between its formation and the moment it replicates itself**
2. In what type of cells --- prokaryotes or eukaryotes --- does the cell cycle occur? **eukaryotic cell**
3. Name the 2 main PHASES of the cell cycle. **Interphase, mitotic phase (M mitosis)**
4. ___ **interphase** _____ is in between the times when a cell is dividing.
5. What is occurring in a cell during interphase? **the cell is forming and carries on with its normal metabolic functions**
6. What is occurring during the mitosis phase? **the cell is replicating itself**

Cell Cycle Mitosis Lab Packet Answers

S Ben Porath



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