

## **Mitosis - Cell Division**

The goal of mitosis is to duplicate cells, necessary for growth and repair. The difficulty is to copy the genetic code within the chromosomes. The chromosomes need to double the genetic information and then divide.

Phases of Mitosis: (Interphase) → Prophase → Metaphase → Anaphase → Telophase →

**Interphase:** inactive phase of mitosis - ordinary cell activities and duplication of genetic code.

**Prophase:** chromatin becomes visible chromosomes and nuclear membrane dissolves

**Metaphase:** the chromosomes line up, ready to divide

**Anaphase:** the chromosomes move toward opposite side of the cell

**Telophase:** two new nuclei begin to form, chromosomes relax into chromatin and a cell membrane forms to make two cells