

Biology 101 Class Notes

Chromosomes

- Chromosomes are thread-like structures found in the nucleus of prokaryotic and eukaryotic cells.
- They are composed of DNA and associated proteins, which help package and organize the genetic material.
- Chromosomes carry the genetic information necessary for an organism's growth, development, and functioning.
- In humans, there are 46 chromosomes, with 23 pairs. One set is inherited from each parent.

Structures of Chromosomes

- Each chromosome consists of two sister chromatids, held together by a centromere.
- The centromere is a specialized region that plays a crucial role in chromosome segregation during cell division.

Mitosis

- Mitosis is a type of cell division that occurs in somatic cells (non-reproductive cells).



Study Guides

Biology 101



Outline

Quick reference

Key terms

Mitosis	a type of cell division that produces genetically identical daughter cells.
Interphase	The cell prepares for mitosis by duplicating its DNA during the S phase.
Prophase	Chromosomes condense, becoming visible under a microscope. The nuclear envelope breaks down.

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