

UNIT 8: ECOLOGY

Ecology:

- **Definition:** Ecology is the study of the relationships between organisms and biological environments.

Levels of Organization:

- **Individual:** Study of the characteristics and behaviors of individual organisms.
- **Population:** Focus on interactions and characteristics of a group of individuals of the same species.
- **Community:** Study of the interactions between different species in an area.
- **Ecosystem:** Examining the interactions between the community and its physical environment.
- **Biome:** A major ecological region characterized by its climate and vegetation.
- **Biosphere:** The entire Earth, including all living organisms and their environments.

Population Ecology:

- **Definition:** Population dynamics of populations over time.

Population Growth Models:

- **Exponential Growth:** A population grows at a constant rate.

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4

metaphase, anaphase, telophase

its genes along with its nonc-

substrates enter active site; enzyme
change shape such that its active site
the substrates (induced fit).



Chromosomes

- Cellular structure carrying genetic material, found in the nucleus of cells
- Each chromosome consists of one very long DNA molecule and proteins
- **Chromatin**
 - Complex of DNA & proteins that makes up eukaryotic chromosomes
 - When cell isn't dividing, chromatin exists in dispersed form, as a long, thin fibers that aren't visible with a light microscope
- **Somatic Cells**

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Emilie Sanchez



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