

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 interactions between different species in an area.
 - **Ecosystem:** Examines the community and its physical environment.
 - **Biome:** A major ecological region characterized by its vegetation and climate.
 - **Biosphere:** The entire planet Earth, including all living organisms and their interactions with the physical environment.

Population Ecology:

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

- Population Growth Models:**
- Exponential Growth

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



4

metaphase, anaphase, telophase

its genes along with its non-

- **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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Phillip E. Pack, Ph.D.



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