### GENERAL STUDY GUIDE FOR BIOLOGY COLUMBIA UNY

### 1. Introduction to Biology

- Definition and Scope: Understand what biology is and its various branches (e.g., zoology, botany, microbiology).
- Characteristics of Life: Learn the characteristics that define living organisms: growth, reproduction, metabolism, cellular organization, homeostasis, heredity, response to stimuli, and adaptation.

### 2. Cell Biology

- Cell Theory: Study the principles of cell theory.
- Prokaryotic vs. Eukaryotic Cells: Differences between these cell types.
- Cell Organelles: Function and structure of organelles like the nucleus, mitochondria, ribosomes, endoplasmic reticulum, Golgi apparatus, lysosomes, and chloroplasts (in plant cells).
- Cell Membrane: Structure (phospholipid bilayer) and function (transport, communication).

### 3. Genetics

- DNA and RNA: Structure and function of nucleic acids.
- Replication, Transcription, and Translation: Processes of genetic information flow.
- Mendelian Genetics: Principles of inheritance, Punnett squares, dominant and recessive traits.
- Non-Mendelian Genetics: Incomplete dominance, codominance, polygenic inheritance, and sex-linked traits.

## 4. Evolution and Natural Selection

- Darwin's Theory: Key concepts of natural selection and adaptation.
- Evidence for Evolution: Fossils, comparative anatomy, molecular biology, biogeography.
- Speciation: Mechanisms of speciation and evolutionary trees.

### Ecology

 Ecosystems: Structure and function of ecosystems, energy flow, and nutrient cycles (carbon, nitrogen, water).

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**Michael Seilmaier** 

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