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The Boundless Biology textbook is a college-level, introductory textbook that covers the intriguing subject of Biology, the study of life. Boundless works with subject matter experts to select the best open educational resources available on the web, review the content for quality, and create introductory, college-level textbooks designed to meet the study needs of university students.

This textbook covers:

The Study of Life -- The Science of Biology, Themes and Concepts of Biology

The Chemical Foundation of Life -- Atoms, Isotopes, Ions, and Molecules: The Building Blocks; Water; Carbon

Biological Macromolecules -- Synthesis of Biological Macromolecules, Carbohydrates, Lipids, Proteins, Nucleic Acids

Cell Structure -- Studying Cells, Prokaryotic Cells, Eukaryotic Cells, The Endomembrane System and Proteins, The Cytoskeleton, Connections between Cells and Cellular Activities

Structure and Function of Plasma Membranes -- Components and Structure, Passive Transport, Active Transport, Bulk Transport

Metabolism -- Energy and Metabolism; Potential, Kinetic, Free, and Activation Energy; The Laws of Thermodynamics; ATP: Adenosine Triphosphate; Enzymes

Cellular Respiration -- Energy in Living Systems, Glycolysis, Oxidation of Pyruvate and the Citric Acid Cycle, Oxidative Phosphorylation, Metabolism without Oxygen, Connections of Carbohydrate, Protein, and Lipid Metabolic Pathways, Regulation of Cellular Respiration

Photosynthesis -- Overview of Photosynthesis, The Light-Dependent Reactions of Photosynthesis, Using Light Energy to Make Organic Molecules

Cell Communication -- Signaling Molecules and Cellular Receptors, Propagation of the Signal, Response to the Signal, Signaling in Single-Celled Organisms

Cell Reproduction -- Cell Division, The Cell Cycle, Control of the Cell Cycle, Cancer and the Cell Cycle, Prokaryotic Cell Division

Meiosis and Sexual Reproduction -- The Process of Meiosis, Sexual Reproduction

Mendel's Experiments and Heredity -- Mendel's Experiments and the Laws of Probability, Characteristics and Traits, Laws of Inheritance

Modern Understandings of Inheritance -- Chromosomal Theory and Genetic Linkage, Chromosomal

Basis of Inherited Disorders

DNA Structure and Function -- Historical Basis of Modern Understanding, DNA Structure and Sequencing, Basics of DNA Replication, DNA Replication in Prokaryotes, DNA Replication in Eukaryotes, DNA Repair

Genes and Proteins -- Introduction, The Genetic Code, Prokaryotic Transcription, Eukaryotic Transcription, RNA Processing in Eukaryotes, Ribosomes and Protein Synthesis

Gene Expression -- Regulation of Gene Expression, Prokaryotic Gene Regulation, Eukaryotic Transcription Gene Regulation, Eukaryotic Epigenetic Gene Regulation, Eukaryotic Post-transcriptional Gene Regulation, Eukaryotic Translational and Post-translational Gene, Development on the Cellular Level, Cancer and Gene Regulation

The following chapters are also included:

Biotechnology and Genomics

Evolution and the Origin of Species

The Evolution of Populations

Phylogenies and the History of Life

Viruses

Prokaryotes: Bacteria and Archaea

Protists

Fungi

Seedless Plants

Seed Plants

Introduction to Animal Diversity

Invertebrates

Vertebrates

Plant Form and Physiology

Soil and Plant Nutrition

Plant Reproduction

The Animal Body: Basic Form and Function

Animal Nutrition and the Digestive System

The Nervous System

Sensory Systems and Movement

The Endocrine System

The Musculoskeletal System

The Respiratory System

The Circulatory System

Osmotic Regulation and Excretion

The Immune System

Animal Reproduction and Development

Ecology and the Biosphere

Population and Community Ecology

Ecosystems

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