7.4 Homeostasis and Cells

Lesson Objectives

Explain how unicellular organisms maintain homeostasis.

Explain how multicellular organisms maintain homeostasis.

Lesson Summary

The Cell as an Organism Sometimes a single cell is an organism. Single-celled organisms must be able to carry out all the functions necessary for life.

- Unicellular organisms maintain homeostasis, relatively constant internal conditions, by growing, responding to the environment, transforming energy, and reproducing.
- Unicellular organisms include both prokaryotes and eukaryotes.
- Unicellular organisms play many important roles in their environments.

Multicellular Life Cells of multicellular organisms are interdependent and specialized.

- The cells of multicellular organisms become specialized for particular tasks and communicate with one another to maintain homeostasis.
- Specialized cells in multicellular organisms are organized into groups.
 - · A tissue is a group of similar cells that performs a particular function.
 - · An organ is a group of tissues working together to perform an essential task.
 - An organ system is a group of organs that work together to perform a specific function.
- The cells of multicellular organisms communicate with one another by means of chemical signals that are passed from one cell to another.
 - Certain cells form connections, or cellular junctions, to neighboring cells. Some of these junctions hold cells together firmly.
 - Other cells allow small molecules carrying chemical signals to pass directly from one cell to the next.
 - To respond to a chemical signal, a cell must have a receptor to which the signaling molecule can bind.

The Cell as an Organism

For Questions 1-5, complete each statement by writing the correct word or words.

- The term _____ refers to the relatively constant internal physical and chemical state of a living cell.
- Unicellular prokaryotes, called ______, are adapted to living in a remarkable number of different places.
- Some unicellular eukaryotes, called _______, contain chloroplasts.
- 4. Yeasts are unicellular ______, which are eukaryotes.
- 5. Other unicellular eukaryotes include _____ and algae.

Homeostasis And Transport Answer Key

Gina Hamilton

Homeostasis And Transport Answer Key:

Kingdoms of Life - Fungi Gina Hamilton, 2006-09-01 Color Overheads Included Milliken's new Kingdoms of Life series is aligned with national science standards and reflects current teaching practices Each book includes approximately 50 black and white reproducible pages 12 full color transparencies comprehension guestions and lab activities for each unit an answer key a glossary of bolded terms a timeline of biological discovery a laboratory safety guide as well as a national standards correlation Fungi details the anatomy and behavior of eukaryotic organisms which sustain themselves by feeding on in most cases dead and decaying organic materials Some fungi are parasites and attack and consume living tissues athlete s foot for CK-12 Biology Teacher's Edition CK-12 Foundation, 2012-04-11 CK 12 Biology Teacher's Edition complements example the CK 12 Biology Student Edition FlexBook Kingdoms of Life - Protista (eBook) Gina Hamilton, 2006-09-01 Milliken s Kingdoms of Life series is aligned with national science standards and reflects current teaching practices Each book includes approximately 50 black and white reproducible pages 12 full color transparencies print books or PowerPoint slides eBooks comprehension questions and lab activities for each unit an answer key a glossary of bolded terms a timeline of biological discovery a laboratory safety guide as well as a national standards correlation chart Protista details the structure and behavior of protists distinguished from monera principally by being composed of so called true cells eukaryotes or cells containing a distinct nucleus Protists can be either unicellular or multicellular and include most algae and some fungi

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of medicines derived from natural sources It begins with the fundamentals of pharmacognosy including its history scope and sources of drugs from plants animals marine environments and tissue cultures The book classifies drugs based on alphabetical morphological chemical pharmacological and taxonomical methods offering insights into how they are organized and unorganized such as dried extracts gums mucilages and oleoresins It also addresses the adulteration of crude drugs with detailed classifications and examples Furthermore the book emphasizes the evaluation of crude drugs using organoleptic microscopic physical chemical and biological methods including advanced techniques like quantitative microscopy Another crucial topic covered is the cultivation collection and storage of medicinal plants discussing factors like plant hormones polyploidy mutation and hybridization The role of plant tissue culture its development and applications such as edible vaccines is thoroughly explored The book also examines the integration of pharmacognosy in various traditional and allopathic medical systems including Ayurveda Unani Siddha Homeopathy and Chinese medicine Secondary metabolites like alkaloids glycosides flavonoids tannins volatile oils and resins are studied in depth focusing on their properties and identification The text also touches upon fibers hallucinogens teratogens natural allergens and primary metabolites like carbohydrates proteins enzymes and lipids providing insights into their sources preparation and therapeutic uses Additionally the potential of marine drugs is explored making this textbook an essential resource for students and researchers of pharmacognosy and phytochemistry Lewis's Adult Health Nursing I and II: Assessment and Management of Clinical Problems 5SAE 2V - E-Book Chintamani, Dr. L. Gopichandran, Mrinalini Mani, 2024-05-20 The 12th edition of Lewis s Medical Surgical Nursing served as the model for Lewis s Adult Health Nursing I II Fifth South Asia Edition which offers a thorough authentic approach to medical surgical nursing or adult health nursing in a clear approachable manner for students This fifth South Asia edition has been thoroughly revised to incorporate the most current information in a format that is easy to learn and practice Not just a textbook this edition is a reference for essential information needed by the students for preparing for all international nursing examinations Additionally it can serve as a vital companion in clinics operating rooms and emergency settings to standardize patient care in all stings Parallel Curriculum Units for Science, Grades 6-12 Jann H. Leppien, Jeanne H. Purcell, 2011-02-15 Based on the best selling book The Parallel Curriculum this resource deepens teachers understanding of how to use the Parallel Curriculum Model PCM to provide rigorous learning opportunities for students in science grades 6 12 This collection of sample units and lessons within each unit were developed by experienced teachers and demonstrate what high quality curriculum looks like within a PCM framework Ideal for use with high ability students the units revolve around genetics the convergence of science and society the integration of English and Biology and the Periodic Table Lessons include pre and post assessments Class 8-12 Biology Questions and Answers PDF Arshad Igbal, The Class 8 12 Biology Quiz Questions and Answers PDF Biology Competitive Exam Questions Chapter 1 20 Practice Tests Grade 8 12 Biology Textbook Questions for Beginners includes revision guide for problem solving with hundreds of

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Current Developments in Biotechnology and Bioengineering Vanete Thomaz Soccol, Ashok Pandey, Rodrigo R. Resende, 2016-09-17 Current Developments in Biotechnology and Bioengineering Human and Animal Health Applications provides extensive coverage of new developments state of the art technologies and potential future trends presenting data based scientific knowledge and information on medical biotechnological interventions for human and animal health Drawing on the key development areas in this field the book reviews biotechnological advances and applications in immunotechnology vaccines and vaccinology combinatorial libraries gene and cell therapy tissue engineering and parasite and infectious disease diagnostics This title outlines why biotechnological techniques in these areas are useful in a clinical context and considers their potential uses limitations and the ethical considerations surrounding their use Provides development in human and animal health due to biotechnology Includes immunotechnology and vaccinology Outlines diagnostic techniques based on tissue and metabolic engineering principles Considers potential uses of the various biotechnology based techniques and the ethical issues raised in their use

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