

Cell Structure and Function



BIG PICTURE IDEAS

- Cells are the basic units of life and can be classified into two main types: **prokaryotic cells**, which lack a nucleus and membrane-bound organelles, and **eukaryotic cells**, which have a nucleus and various organelles.
- Organelles** are specialized structures within cells that perform specific functions. Examples include the **nucleus** (containing DNA), **mitochondria** (producing energy through cellular respiration), endoplasmic reticulum (involved in protein synthesis and lipid metabolism), and **Golgi apparatus** (modifying, sorting, and packaging proteins).
- Osmosis** is a type of passive transport in which water molecules move across a selectively permeable membrane from an area of lower solute concentration (**hypotonic**) to an area of higher solute concentration (**hypertonic**). It plays a vital role in maintaining proper water balance within cells and is crucial for various biological processes, including nutrient uptake and waste removal.
- Cellular **transport** is the process by which substances move into, out of, and within cells. It includes various mechanisms such as passive transport, facilitated diffusion, active transport, endocytosis, and exocytosis, ensuring the proper exchange of molecules and maintaining cellular **homeostasis**.
- The **plasma membrane** is a selectively permeable barrier that surrounds cells, regulating the entry and exit of substances. It consists of a phospholipid **bilayer** embedded with **proteins** and other molecules.

KEY VOCAB



Ribosome

Lysosome

Turgor Pressure

Chlorophyll

Hydrophobic

Passive/Active Transport

Hypo/Hyper/Isotonic

Endosymbiosis

Endoplasmic Reticulum

Vacuole

Thylakoid

Surface Area

Hydrophilic

Concentration

Osmosis

Prokaryote

Golgi Complex

Chloroplast

Stroma

Volume

Selective Permeability

Solute

Water Potential

Eukaryote

Mitochondria

Apoptosis

Grana

Phospholipids

Polarity

Endo/Exocytosis

Osmoregulation

KEY

FORMULAS

Volume of sphere: $V = 4/3\pi r^3$ Surface Area of sphere: $SA = 4\pi r^2$ $W^* = W_1 + W_2$ $W_1 = -iCRT$

■ Topic 2.1 Cell Structure: Subcellular Components

■ Topic 2.2 Cell Structure and Function

■ Topic 2.10 Compartmentalization

- The **endomembrane system** includes the nuclear envelope, lysosomes, vesicles, endoplasmic reticulum, Golgi apparatus and plasma membrane.
- Apoptosis** is scheduled cell death.
- Secretory **vesicles** bud off the trans face of the Golgi Complex.
- Identify five pieces of evidence for the endosymbiosis theory of mitochondria and chloroplasts.
Double membranes, have their own DNA, have ribosomes, replicate independently, approximately the size of existing prokaryotic cells

Biology Unit 2 The Cell Answer Key

Holt Rinehart & Winston



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Regents Living Environment Power Pack Revised Edition Gregory Scott Hunter, 2021-01-05 Barron's two book Regents Living Environment Power Pack provides comprehensive review actual administered exams and practice questions to help students prepare for the Biology Regents exam This edition includes Four actual Regents exams Regents Exams and Answers Living Environment Four actual administered Regents exams so students can get familiar with the test Comprehensive review questions grouped by topic to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies Let's Review Regents Living Environment Extensive review of all topics on the test Extra practice questions with answers One actual Regents exam

Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information

Chapter Resource 5 Photosynthesis/Cell Response Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Student Study Guide for Campbell's Biology Second Edition* Martha R. Taylor, 1990 *Biology* Cecie Starr, John D. Jackson, Roger Taylor, 1991 *Gcse Aqa Biology* Lynn Henfield, 2006-06 Covering the core content of the AQA Biology 2006 onwards single award specification this revision guide reflects the How science works element of the course

The Longman Textbook Reader with Answers Cheryl Novins, 2007-07 The Longman Textbook Reader enables instructors to supplement their main textbook with sample chapters drawn from college textbooks Six full textbook chapters drawn various disciplines offer students more practice with actual college material and prepare them for readings they will encounter in later semesters Each chapter includes additional comprehension quizzes critical thinking questions and group activities to help students develop schema and to reinforce their learning

Biology Directions Donald I. Galbraith, 1993 Basic resource for Senior High Biology 20 1993 2008

Pathophysiology - E-Book Jacquelyn L. Banasik, Lee- Ellen C. Copstead-Kirkhorn, 2012-12-21 A clear comprehensive introduction to disease Pathophysiology 5th Edition explores the etiology pathogenesis clinical manifestations and treatment of disorders Units are organized by body system and each begins with an illustrated review of anatomy and normal physiology A discussion then follows on the disease processes and abnormalities that may occur with a focus on the pathophysiologic concepts involved Written by leading educators Lee Ellen Copstead and Jacquelyn Banasik Pathophysiology simplifies a rigorous subject with practical learning resources and includes coverage of the latest scientific findings and relevant research 900 full color illustrations clarify complex pathophysiological concepts Easy to read style includes many tables boxes and figures to highlight and simplify content Key Questions at the beginning of each chapter highlight key objectives and help you develop and use critical thinking skills Key Points boxes focus on the most important information Geriatric Considerations boxes analyze the age related changes associated with a specific body system A chapter summary gives you a quick wrap up of the key content in each chapter NEW Pediatric Considerations boxes with accompanying flow charts describe conditions and changes specific to young children NEW Updated content includes the latest information on new treatment advances the relationship between stress and inflammation to cardiovascular disease and much more throughout the text NEW Global Health Considerations tables include information on HIV AIDS and depression anxiety in women

Biology Neil A. Campbell, 1996 Accompanying CD ROM has interactive exercises a glossary quizzes and a test builder related to the text in the book

Study Guide for Starr and Taggart's Biology, the Unity and Diversity of Life Jane B. Taylor, 1989

Biological Science Freeman, Scott Freeman, Warren W. Burggren, 2002-03 By Warren Burggren University of North Texas Jay Brewster Pepperdine University Laurel Hester South Carolina Governor s School for Science and Mathematics Rather than repeat what is covered in the textbook the Student Study Guide will help students study biology and think like a scientist Introductory chapters on Data Interpretation Looking for Relationships Experimentation and Writing will be illustrated and developed for the student Each text chapter will then be covered with the goal of reinforcing the ideas mentioned in introductory chapters and to tie them to appropriate topics within a chapter

Individualized Biology Marvin Druger, 1997-09

Film & Video Finder, 1997

Inquiry Skills Development Holt Rinehart & Winston, 1998-01-27

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