5.5

Multicellular Life

KEY CONCEPT Cells work together to carry out complex functions.

MAIN IDEAS

- Multicellular organisms depend on interactions among different cell types.
- · Specialized cells perform specific functions.
- Stem cells can develop into different cell types.

VOCABULARY

tissue, p. 151 organ, p. 151 organ system, p. 151 cell differentiation, p. 152 stem cell, p. 153

Review



Connect Each of us enters this world as a screaming infant. At first, the ability to eat solid foods or take a step draws forth great praise. These general skills rapidly lose their wonder, however, and by the time you reach the age of 18, everyone wants to know what you plan to do with yourself. Will you build houses or design clothing or treat patients? What will your specialty be? Cells, too, undergo specialization to carry out the complex functions required by the body.

CIMAIN IDEA

Multicellular organisms depend on interactions among different cell types.

Within multicellular organisms, cells communicate and work together in groups that form increasingly larger, more complex structures. This arrangement progresses from cells to tissues to organs to organ systems, as shown in **FIGURE 5.16. Tissues** are groups of cells that work together to perform a similar function. Groups of tissues that work together to perform a specific function or related functions are called **organs**. For instance, plants have photosynthetic tissues made of chlorophyll-containing cells. Conductive tissues transport sugars, water, and minerals to and from other parts of the plant. Protective tissues help prevent water loss. Together, these and other tissues form a leaf, the plant's food-producing organ.

Organs that carry out similar functions are further grouped into organ systems. In plants, the shoot system is above the ground. It includes stems that support the plant, leaves that capture radiant energy, and flowers that aid reproduction. Beneath the ground, the root system has different types of roots and root hairs that anchor the plant and absorb water and minerals.

As organ systems work together, they help an organism maintain homeostasis. For example, plants need to maintain a certain level of water within their cells, or they will will and die. They absorb water through their roots and expel it as water vapor through openings in their leaves called stomata. Stomata are controlled by special cells called guard cells, which close the stomata when a plant's water intake cannot keep up with its water loss.

Apply Suppose your family goes out of town and forgets to ask your neighbor to water the plants. Do you think the plants' stomata will be open or closed? Explain.

Connecting CONCEPTS

Homeostasis As you learned in Chapter 1, homeostasis is the maintenance of a stable internal environment. Both an organism's physiology and its behavior help it achieve homeostasis.

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George Plopper, Diana Bebek Ivankovic

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Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer **Inquiry Into Life, Study Guide** Sylvia S. Mader, 1982 <u>Study Guide</u> George Karleskint, 1991

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This topic has always fascinated man as evidenced even by the first chapters of Genesis The world of aqueous and terrestrial fauna appeared on early earth only after the flora covered the areas with the green pigmentation Almost all life depends upon sunlight via the photosynthesis of the botanical world We read abut the harnessing of bee pollination of crops to make it an essential component of modern agriculture endeavor Some plants seduce insects for pollination by their appearance e.g. disguised orchids entice visitors there is the production of sweet nectar as a bribe in flowers to attract bees butterflies and honey sucking birds A particular outstanding phenomena are the carnivorous plants that have developed trapping and Holt Biology Chapter Resource File 19 Holt Rinehart & Winston, Holt, digesting systems of insects and higher animals Rinehart and Winston Staff, 2004 Dance to the Tune of Life Denis Noble, 2017 This book formulates a relativistic theory of biology challenging the common gene centred view of organisms Multicellularity in the Cardiovascular System Paolo Madeddu, Gabor Foldes, 2019-03-25 10 in One Study Package for CBSE Science Class 9 with 3 Sample Papers Disha Experts, 10 in ONE CBSE Study Package Science set of 3 books PCB class 9 with 3 Sample Papers has 10 key ingredients that will help you achieve success 1 Chapter Utility Score CUS 2 Exhaustive Theory with Concept Maps 3 Text Book exercises 4 VSA SA LA Questions 5 Past year questions including 2017 18 Solved papers 6 HOTS Value based Exemplar 7 Past NTSE Exemplar MCQ s 8 15 Chapter Tests with Solutions 9 Important Formulas Terms Definitions 10 3 Sample Papers with detailed solutions Current Controversies in Philosophy of Science Shamik Dasgupta, Ravit Dotan, Brad Weslake, 2020-10-27 Current Controversies in Philosophy of Science asks twelve philosophers to debate six questions that are driving contemporary work in this area of philosophy The questions are I Are Boltzmann Brains Bad II Does Mathematical Explanation Require Mathematical Truth III Does Quantum Mechanics Suggest Spacetime is Nonfundamental IV Is Evolution Fundamental When It Comes to Defining Biological Ontology V Is Chance Ontologically Fundamental VI Are Sexes Natural Kinds These debates explore the philosophical foundations of particular scientific disciplines while also examining more general issues in the philosophy of science The result is a book that s perfect for the advanced philosophy student building up their knowledge of the foundations of the field and engaging with its cutting edge questions Preliminary descriptions of each chapter annotated lists of further readings for each controversy and study questions for each chapter help provide clearer and richer snapshots of active controversies for all readers Biological Science Jon Scott, Anne Goodenough, Gus Cameron, Dawn Hawkins, Martin Luck, Jenny Koenig, Alison Snape, Despo Papachristodoulou, Kay Yeoman, Mark Goodwin, 2022 A fresh approach to biology centred on a clear narrative active learning and confidence with quantitative concepts and scientific enquiry Spanning the breadth of biological science and designed for flexible learning it will give you a deeper understanding of the key concepts and an appreciation of biology as a dynamic experimental science **Phylum MCO** (Multiple Choice Questions) Arshad Igbal, The Phylum Multiple Choice Questions MCQ Quiz with Answers PDF Phylum MCQ PDF Download Quiz Questions Chapter 1 17 Practice Tests with Answer Key Phylum Questions Bank MCQs Notes

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