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 I, 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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O García

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Excel Science Study Guide, Years 7-8 Nicholas Pefani, 2005 Summary & Study Guide - Microbia Lee Tang, 2019-06-01 Microbes connect all living and nonliving things on Earth This book is a summary of Microbia A Journey into the Unseen World Around You by Eugenia Bone New discoveries about how microbes affect our lives occur every day but it seems to require an advanced degree in biology to understand how they impact us Journalist Eugenia Bone returned to college in her fifties to help make sense of these creatures What she learned is that microbes connect to all living things They also connect nonliving things to living things They maintain the balance of chemicals on the planet and convert carbon dioxide into food that travels up the food chain Inside our cells are the remnants of ancient bacteria called mitochondria that convert the oxygen we breathe into energy In Microbia Bone chronicles what she learned in her year of studying biology It begins with the origin of life and how microbes affect the atmosphere and soil connecting nonliving things to living things She explores how microbes influence the evolution of all living things and why plants and animals evolve with their microbes Read this primer to understand the entwined worlds of microbes and the rest of life on Earth This guide includes Book Summary helps you understand the key concepts Online Videos cover the concepts in more depth Value added from this guide Save time Understand key concepts Expand your knowledge 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 Essential SOA Exam Practice: National 5 Biology Questions and Papers Billy Dickson, Graham Moffat, 2019-12-02 Exam board SQA Level National 5 Subject Biology First teaching September 2017 First exam Summer 2018 Practice makes permanent Feel confident and prepared for the SOA National 5 Biology exam with this two in one book containing practice questions for every question type and topic plus two full practice papers all written by experienced examiners Choose to revise by question type or topic A simple grid enables you to pick particular question styles or course areas that you want to focus on with answers provided at the back of the book Understand what the examiner is looking for Clear guidance on how to answer each question type is followed by plenty of questions so you can put the advice into practice building essential exam skills Remember more in your exam Repeated and extended practice will give you a secure knowledge of the key areas of the course cell biology biology multicellular organisms biology life on Earth Familiarise yourself with the exam paper Both practice papers mirror the language and layout of the real SQA papers complete them in timed exam style conditions to increase your confidence before the exams Find out how to achieve a better grade Answers to the practice papers have commentaries for each question with tips on writing successful answers and avoiding common mistakes Fully up to date with SQA's requirements The questions mark schemes and guidance

in this practice book match the requirements of the revised SQA National 5 Biology specification for examination from 2018 onwards Study Guide to Accompany Biology, the Science of Life, Third Edition W. J. Leverich,1991 Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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