

# 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**  
homeostasis



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**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.

### MAIN 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 wilt 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.

# Reading Guide Questions For 5.5 Multicellular Life

**Disha Experts**



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Herron, Peter L. Conlin, William C. Ratcliff, 2022-06-07 Among the most important innovations in the history of life is the transition from single celled organisms to more complex multicellular organisms Multicellularity has evolved repeatedly across the tree of life resulting in the evolution of new kinds of organisms that collectively constitute a significant portion of Earth's biodiversity and have transformed the biosphere This volume examines the origins and subsequent evolution of multicellularity reviewing the types of multicellular groups that exist their evolutionary relationships the processes that led to their evolution and the conceptual frameworks in which their evolution is understood This important volume is intended to serve as a jumping off point stimulating further research by summarizing the topics that students and researchers of the evolution of multicellularity should be familiar with and highlighting future research directions for the field Chapter 13 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license **Phylum MCQ (Multiple Choice Questions)**

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*Academic Encounters Level 1 Teacher's Manual Reading and Writing* Jennifer Wharton, 2013-06-17

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contains general teaching guidelines for the course tasks by task teaching suggestions answers for all tasks and unit quizzes and quiz answers      Cells: What Cells Do Angela Wagner,2013-04-01 This is the chapter slice What Cells Do from the full lesson plan Cells Cells are the building blocks of life We take you from the parts of plant and animal cells and what they do to single celled and multi cellular organisms Using simplified language and vocabulary concepts we discover human cell reproduction as well as diffusion and osmosis Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Ready to use reading passages student activities and color mini posters our resource is effective for a whole class small group and independent work All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy and STEM initiatives      **Evolutionary Transitions to Multicellular Life** Iñaki Ruiz-Trillo,Aurora M. Nedelcu,2015-03-27 The book integrates our understanding of the factors and processes underlying the evolution of multicellularity by providing several complementary perspectives both theoretical and experimental and using examples from various lineages in which multicellularity evolved Recent years marked an increased interest in understanding how and why these transitions occurred and data from various fields are providing new insights into the forces driving the several independent transitions to multicellular life as well as into the genetic and molecular basis for the evolution of this phenotype The ultimate goal of this book is to facilitate the identification of general and unifying principles and mechanisms      Holt Biology Chapter Resource File 19 Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004      Cambridge International AS and A Level Biology Coursebook with CD-ROM Mary Jones,Richard Fosbery,Jennifer Gregory,Dennis Taylor,2012-11 A series of titles which provides full support for the Cambridge International AS and A Level Biology syllabus Cambridge International AS and A Level Coursebook provides students with a full introduction to the AS and A Level syllabus and comprehensive support for their examination The experienced author team have reviewed the core text expanded the Applications of Biology chapters and added two new chapters on practical skills Each chapter now has a set of exam style practice questions as well as questions to help review the material Also included are advice on how to revise and prepare for the examinations multiple choice questions revision summaries and answers to all book questions      **Life in the Universe, 5th Edition** Jeffrey Bennett,Seth Shostak,Nicholas Schneider,Meredith MacGregor,2022-05-31 The world s leading textbook on astrobiology ideal for an introductory one semester course and now fully revised and updated Are we alone in the cosmos How are scientists seeking signs of life beyond our home planet Could we colonize other planets moons or even other star systems This introductory textbook written by a team of four renowned science communicators educators and researchers tells the amazing story of how modern science is seeking the answers to these and other fascinating questions They are the questions that are at the heart of the highly interdisciplinary field of astrobiology the study of life in the universe Written in an accessible conversational style for anyone intrigued by the possibilities of life in the solar system and beyond Life in the Universe is an ideal place to start learning about the latest

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