

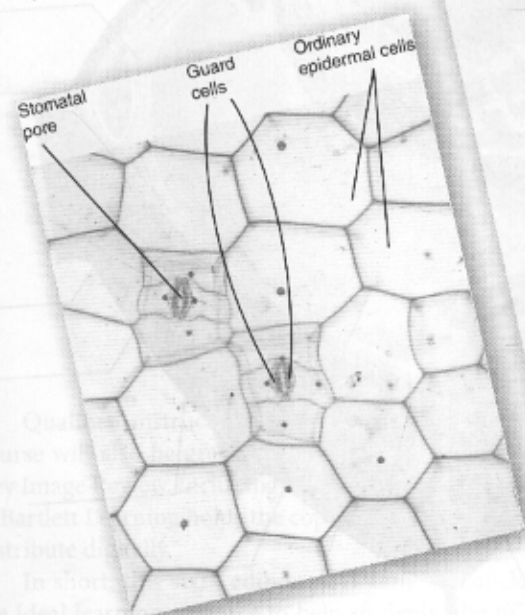
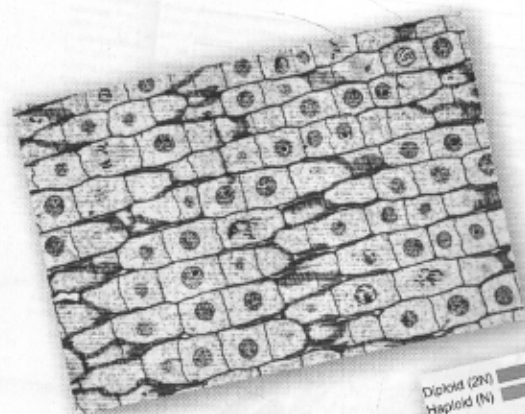
PREFACE

Botany is a hands-on science. In order to fully absorb the material, students need to get out there and get their hands dirty, often literally. As with any scientific study, it is vital to observe and experiment, so laboratory activities are crucial to a complete learning experience.

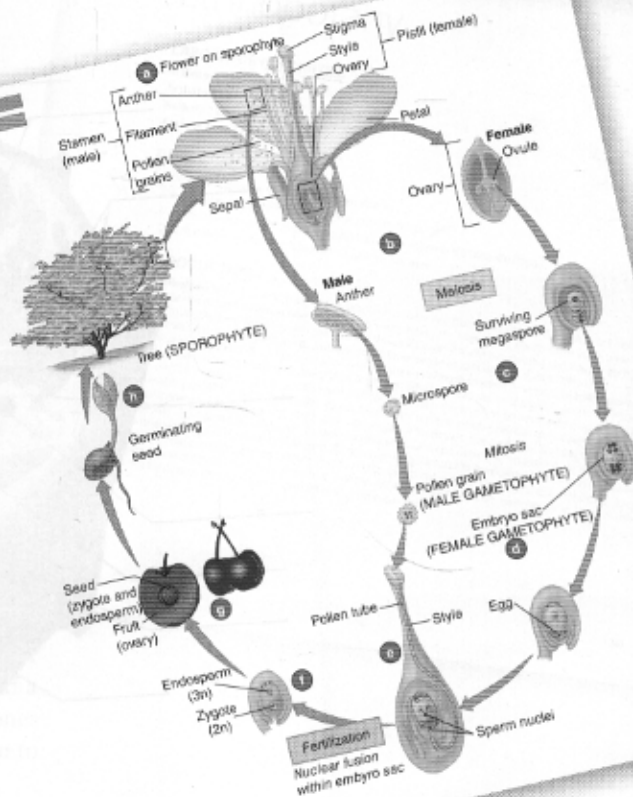
Our core plant biology book, *Botany: An Introduction to Plant Biology*, by James D. Mauseth, has just undergone a major revision. With significant improvements to the art, design, pedagogy, and content, we have created a learning resource of the highest quality for our instructors and students in introductory botanical science courses. Naturally, a

book of this quality deserves a lab manual of equal quality and usefulness, and this overhaul reflects that. Numerous significant improvements have been made, all with instructors and students in mind.

The first obvious improvement is that this resource is printed in full color. We experience the plant world in color, so this lab manual, as a guide to exploration of the plant world, will best reflect that with clear micrographs, detailed and realistic illustrations, bright photographs, and a new, engaging color design. What students see in the lab manual will be much closer to what they see in their experiments and under their microscopes.



Diploid (2N)
Haploid (N)



Second, we have selected a spiral binding. Most students will be reading and writing in this book in a laboratory setting, and that will be much easier now that the pages can lay flat on their lab benches. Perforated pages will simplify assignments

for instructors and students as they are now able to easily tear out their work and submit it for a grade. Furthermore, the areas for responses and sketching have been more clearly defined with boxes and lines to improve organization.

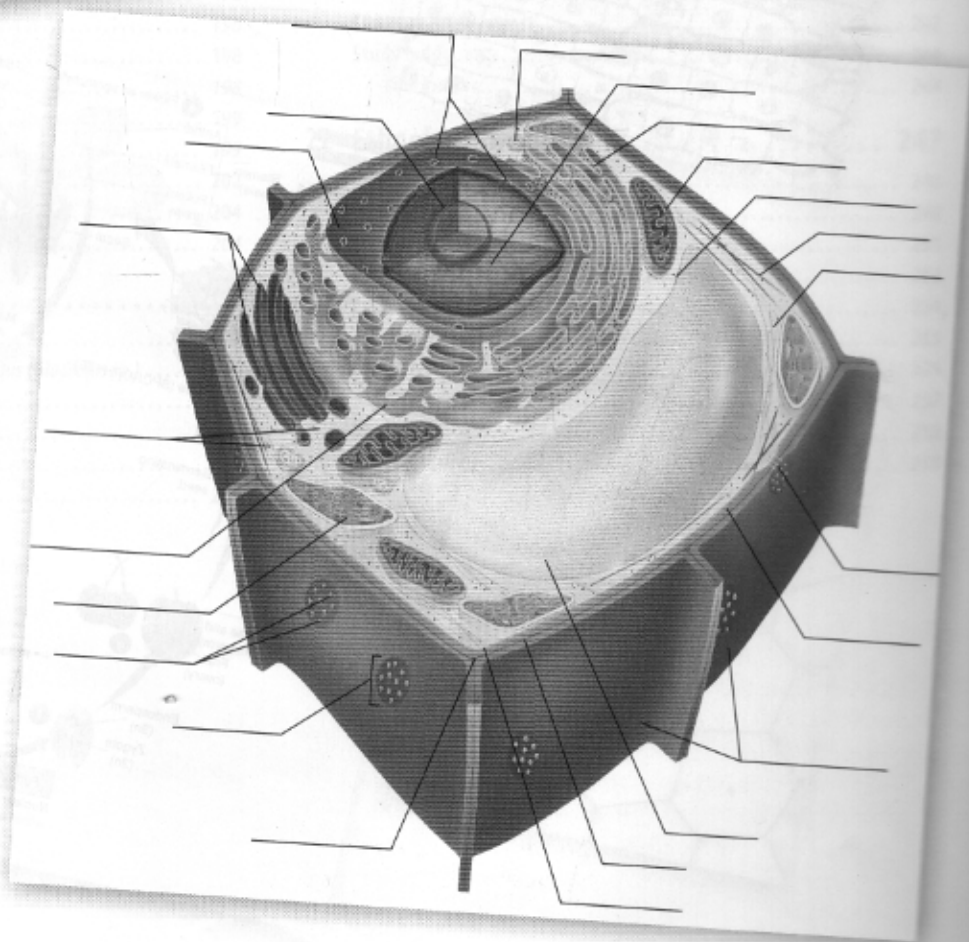
CASE STUDY—The Hot Lawn

Alexandria has a lovely front lawn that she enjoys tending every weekend. One day, while the temperature is especially warm, she goes outside to relax on her patio and enjoy the weather. She notices that the blades of grass in her lawn seem to be curled inward toward the stem and worries that there might be something wrong. She calls her landscaper who assures her that the condition of the grass is completely normal.

1. What type of plant is grass? Is it a monocot or a eudicot? How can you tell?

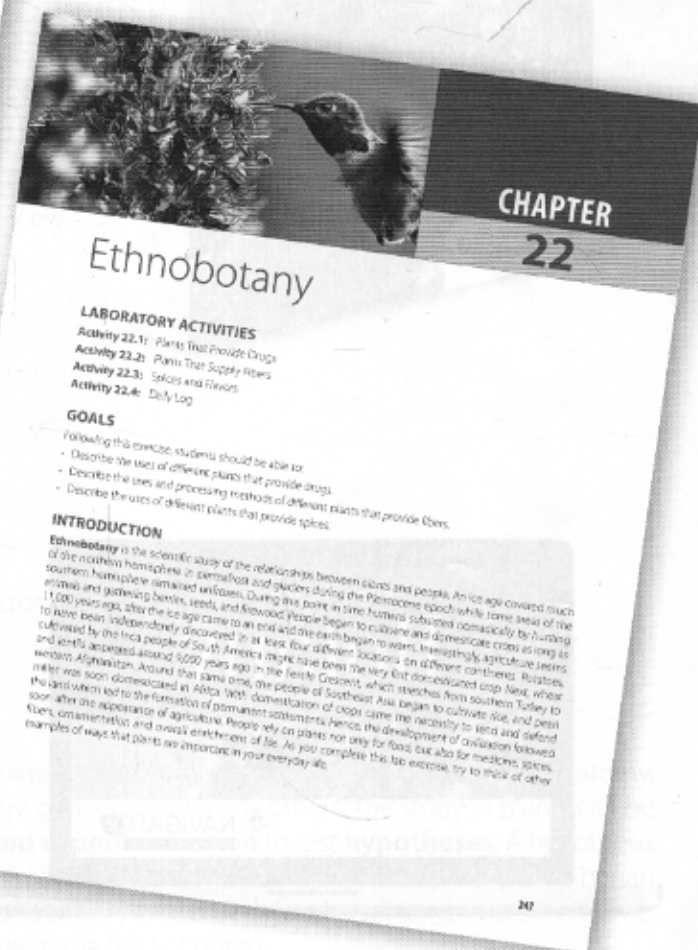
2. What types of cells are present in the blades of grass to cause them to curl inward toward the stem?

3. Why did this reaction occur? How does it benefit the plant?



New Case Studies have been added to every chapter. These provide students with a scenario related to the chapter and are followed up with questions that require critical thinking and knowledge application. This concept application is also helpful for situations where a lab may not be

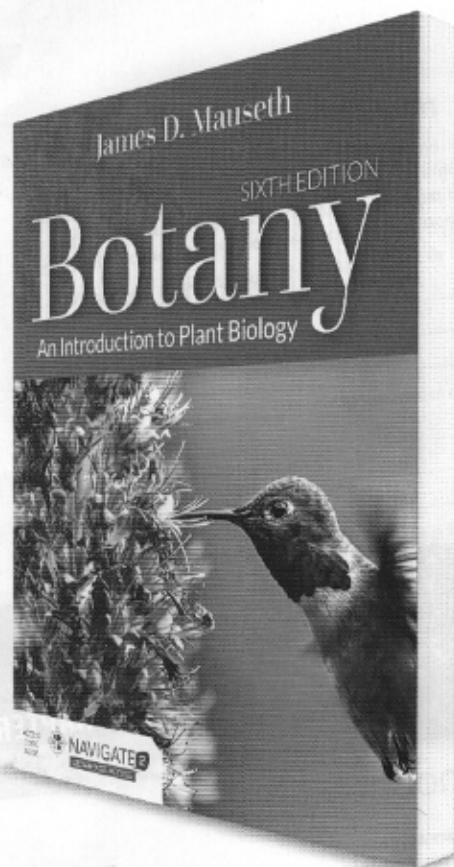
equipped to perform certain exercises or if instructors don't have room in their course to assign all of the practical activities. In addition, several image labeling exercises have been incorporated in select chapters as well as two new chapters on Community Ecology and Ethnobotany.



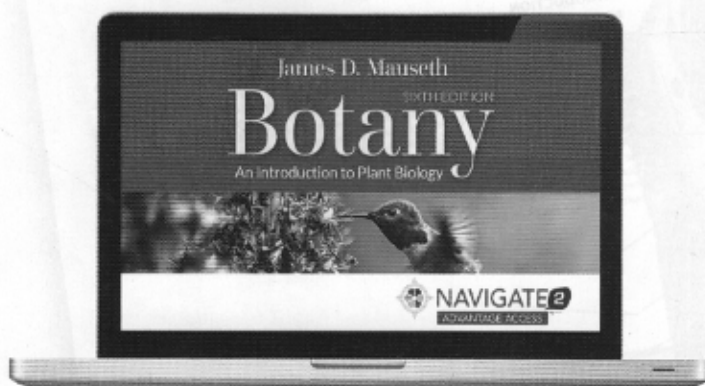
Qualified instructors who use the lab manual in their course will also be granted access to an Answer Key and a Key Image Review, including all of the images to which Jones & Bartlett Learning holds the copyright or has permission to distribute digitally.

In short, this sixth edition of *Botany: A Lab Manual* is the ideal learning resource to help students "dig in" to their study of botany.

BUNDLE AND SAVE ON BOTANY: AN INTRODUCTION TO PLANT BIOLOGY



Botany: An Introduction to Plant Biology, Sixth Edition continues to set the standard for the fundamentals of plant science. No botany text better connects structure to function and does so with higher quality art and imagery. Combining strong scientific grounding with an approachable writing style, *Botany: An Introduction to Plant Biology, Sixth Edition* teaches and engages. The essentials to a foundational understanding of plant science are all here, including structure, genetics and evolution, physiology and development, and ecology. Print book with Navigate 2 Advantage Access: 978-1-284-07753-7 Print book with Navigate 2 Advantage Access with Lab Manual: 978-1-284-11819-3



Teaching & Learning Botany Just Got Easier!

Navigate 2 Advantage Access for *Botany: An Introduction to Plant Biology, Sixth Edition* is a digital-only access code that unlocks a comprehensive and interactive eBook with engaging animations, student practice activities and assessments, a full suite of instructor resources (available to adopting instructors with course ID), and learning analytics reporting tools (available to adopting instructors with course ID).

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