James D. Mauseth

Botany

SIXTH EDITION

An Introduction to Plant Biology

ACCESS CODE INSIDE

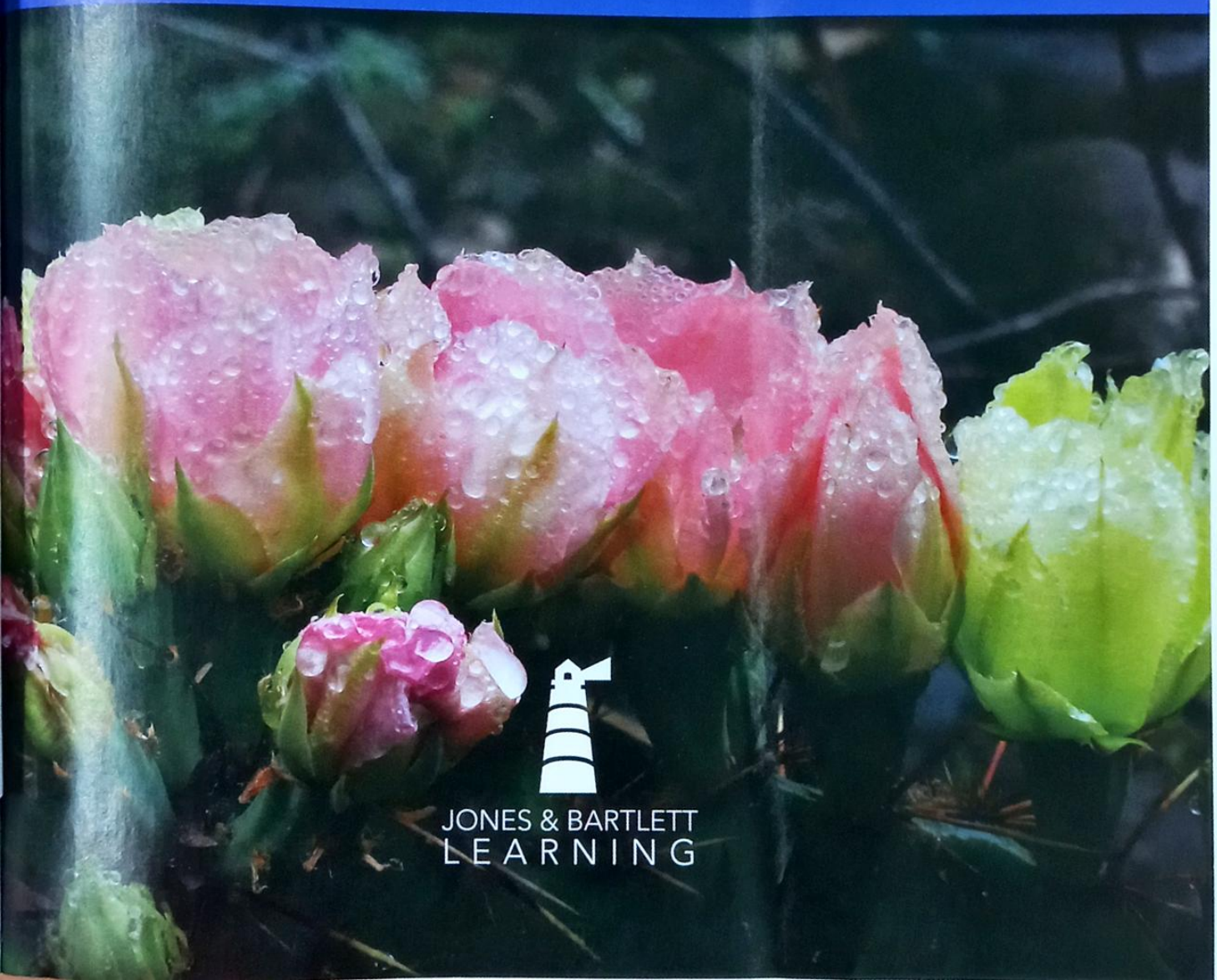
NAVIGATE 2 ADVANTAGE ACCESS

James D. Mauseth, PhD
University of Texas at Austin

SIXTH EDITION

Botany

An Introduction to Plant Biology



JONES & BARTLETT
LEARNING

World Headquarters
Jones & Bartlett Learning
5 Wall Street
Burlington, MA 01803
978-443-5000
info@jblearning.com
www.jblearning.com

Jones & Bartlett Learning books and products are available through most bookstores and online booksellers. To contact Jones & Bartlett Learning directly, call 800-832-0034, fax 978-443-8000, or visit our website, www.jblearning.com.

Substantial discounts on bulk quantities of Jones & Bartlett Learning publications are available to corporations, professional associations, and other qualified organizations. For details and specific discount information, contact the special sales department at Jones & Bartlett Learning via the above contact information or send an email to specialsales@jblearning.com.

09604-0

00077980

Production Credits
VP, Executive Publisher: David D. Cella
Executive Editor: Matthew Kane
Associate Editor: Audrey Schwinn
Associate Production Editor: Alex Schab
Marketing Manager: Lindsay White
Manufacturing and Inventory Control Supervisor: Amy Bacus
Composition: Cenveo® Publisher Services
Cover Design: Kristin E. Parker
Rights & Media Specialist: Jamey O'Quinn
Media Development Editor: Shannon Sheehan
Media Development Editor: Troy Liston
Cover Image: © Tongho58/Moment/Getty
Front Matter Image: Courtesy of Will Klemm
Printing and Binding: RR Donnelley
Cover Printing: RR Donnelley

Library of Congress Cataloging-in-Publication Data
Names: Mauseth, James D., author.
Title: Botany : an introduction to plant biology / James D. Mauseth.
Description: Sixth edition. | Burlington, Massachusetts : Jones & Bartlett Learning, [2016]
Identifiers: LCCN 2016005564 | ISBN 9781284077537
Subjects: LCSH: Botany—Textbooks.
Classification: LCC QK47 .M38 2016 | DDC 580—dc23
LC record available at http://lccn.loc.gov/2016005564

6048

Printed in the United States of America
20 19 18 17 16 10 9 8 7 6 5 4 3 2 1

BRIEF TABLE OF CONTENTS

TABLE OF CONTENTS

The Best-Selling Botany Text Just Got Better!

DYNAMIC TECHNOLOGY SOLUTIONS

Includes access to Navigate 2 online learning materials, including a comprehensive and interactive eBook with engaging animations that bring biological processes to life, links to useful and relevant Internet resources, an audio glossary, student practice activities and assessments, learning analytics reporting tools, and more.

INSTRUCTOR RESOURCES

Instructor Resources include a comprehensive Instructor's Manual with teaching tips and detailed Lecture Plans, Lecture Slides in PowerPoint format, an Image Bank, animation files, and a Test Bank.

JONES & BARTLETT LEARNING
An Ascend Learning Company
www.jblearning.com

James D. Mauseth

SIXTH EDITION

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*** 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. Now in a modernized sixth edition, the text continues to lead with the latest material on molecular biology, plant biotechnology, and the most recent coverage of taxonomy and phylogeny of plants to keep students on the forefront of cutting-edge botanical research. ***Botany: An Introduction to Plant Biology*** is the clear choice for students digging into this exciting science.

NEW TO THE *SIXTH EDITION*

- **NEW** *Botany in Action* animations educate and entertain.
- Two **NEW** chapters highlight Ethnobotany and Community Ecology.
- A **NEW** chapter provides foundational information on botany, including climate ecology, adaptation, genes and genetics, and phylogeny of plants.
- **NEW** *Did You Know?* feature illuminates the direct application of plants to our lives and stimulates curiosity of the fascinating botanical world around us.
- **NEW** *At the Next Level* feature provides opportunities to expand students' understanding of botany.
- Additional material features modern discoveries in genetics and molecular biology.
- Visually stunning design with over 550 **NEW** and revised figures, including **NEW** photographs and detailed illustrations.
- Classic features such as *Botany and Beyond* and *Plants and People* have been retained by popular demand and modernized to suit a new generation of learners.
- Additional features include coverage of seeds and seedlings, genome sciences, current transports (PIN), gene regulation, and flowering.
- **NEW** *Learning Objectives* at the beginning of each chapter prepare students for the new material and guide their study.

ISBN: 978-1-284-07753-7
9 781284 077537