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This website is a companion to the textbook Plant Physiology and Development, Sixth Edition by Lincoln Taiz, Eduardo Zeiger, Ian M. Møller, and Angus Murphy, published by Sinauer Associates.. For each chapter of the textbook, the site includes Web Topics and Web Essays that expand on the book’s coverage, Study Questions for self-review, and chapter References.

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This is a superb book on the subject. It really contains all the info needed for a real plant enthusiast or a classical Plant Physiology course. This version is considerably cheaper than the actual version of the book.

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Plant Physiology by Taiz and Zeiger is a classic book which presents the basics of the field in a splendid and comprehensive manner. The current edition is a continuation of the original text I had used in the early 1990s. The text is a wonderful blend of plant structure and function with the fundamentals of the physiological processes in plants.

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Throughout its 22 year history, the authors of Plant Physiology and Development 6e have continually updated the ebook to incorporate the latest advances in plant biology and implement pedagogical improvements requested by adopters.This has made Plant Physiology and Development, 6th edition (PDF) the most comprehensive, authoritative, and widely used upper-division plant biology textbook.

Dieses erfolgreiche, nummehr vierfarbige Lehrbuch liegt nunmehr bereits in der 4. Auflage vor. Es zeichnet sich durch seine Verbindung der klassischen Pflanzenphysiologie mit modernen, aktuellen Ansätzen aus; es verbindet die Untersuchungen zur Funktion der Pflanze mit den Gebieten der Genregulation und molekularen Genetik, der Zellbiologie und Signaltransduktion sowie der Bioenergetik. Ein starker Schwerpunkt liegt auf dem Gebiet der Pflanzen-Hormone. Didaktisch werden die anschaulichen 250 Photos und mehr als 500 vierfarbige Grafiken durch präzise Merksätze ergänzt, so dass sich dieses Lehrbuch sowohl an den Studenten als Einführung wie auch an den Wissenschaftler im Labor wendet. Von Studierenden der Biowissenschaften wird heute erwartet, dass sie im Laufe ihres Studiums englische Literatur problemlos lesen und verstehen und schließlich auch Forschungsergebnisse auf Englisch kommunizieren können. Den Weg dorthin bereitet der neu entwickelte Lehrbuchtyp "Easy Reading - Das Original mit Übersetzungshilfen". So bietet die vorliegende Ausgabe von "Plant Physiology" in einem zusammen- den englischen Originaltext - deutsche Übersetzungshilfen in der Randspalte - ein englisch-deutsches Glossar - deutsch- und englischsprachige Kapitelzusammenfassungen und auf der Website www.elsevier.de/taiz - ein Link zur amerikanischen Website mit neuen Kapiteln Wesentlicher Zusatznutzen der "Easy Reading"-Ausgabe ist, das Lesen des englischen Grundtextes zu erleichtern und in die spezielle wissenschaftliche Terminologie einzuführen. Wer dieses Buch durcharbeitet, steigert somit seine fachliche und seine sprachliche Kompetenz zugleich.
Plant Physiology, Fourth Edition continues to set the standard for textbooks in the field, making plant physiology accessible to virtually every student. Authors Lincoln Taiz and Eduardo Zeiger have again collaborated with a stellar group of contributing plant biologists to produce a current and authoritative volume that incorporates all the latest findings. Changes for the new edition include: - A new chapter (Chapter 24) on Brassinosteroids - A completely rewritten Chapter 16 (Growth and Development) - Updates on recent developments in the light reactions and the biochemistry of photosynthesis, respiration, ion transport, and water relations - In the hormone chapters, new information about signaling pathways and regulatory mechanisms - Coverage of major breakthroughs on the control of flowering, including the latest findings on the identity of the long-sought-after photoperiodic floral stimulus, “florigen.” The material typically considered prerequisite for plant physiology courses, as well as advanced material, is posted at the companion website. New material has been added here as well, including new Web topics and Web essays.

Published by Sinauer Associates, an imprint of Oxford University Press. Throughout its twenty-two year history, the authors of Plant Physiology and Development have continually updated the book to incorporate the latest advances in plant biology and implement pedagogical improvements requested by adopters. This has made Plant Physiology and Development the most authoritative, comprehensive, and widely-used upper-division plant biology textbook.

"Plant Physiology, Fifth Edition continues to set the standard for textbooks in the field, making plant physiology accessible to virtually every student. Authors Lincoln Taiz and Eduardo Zeiger have again collaborated with a stellar group of contributing plant biologists to produce a current and authoritative volume that incorporates all the latest findings. Changes for the new edition include: A newly updated chapter (Chapter 1) on Plant Cells, including new information on the endomembrane system, the cytoskeleton, and the cell cycle. A new chapter (Chapter 2) on Genome Structure and Gene Expression. A new chapter (Chapter 14) on Signal Transduction. Updates on recent developments in the light reactions and the biochemistry of photosynthesis, respiration, ion transport, and water relations. In the phytochrome, blue-light, hormone and development chapters, new information about signaling pathways, regulatory mechanisms, and agricultural applications. Coverage of recent breakthroughs on the control of flowering. Three new Appendices on Concepts of Bioenergetics, Plant Kinematics, and Hormone Biosynthetic Pathways As with prior editions, the Fifth Edition is accompanied by a robust Companion Website. New material has been added here as well, including new Web Topics and Web Essays."--P. 4 de la couv.

Throughout its twenty-two year history, the authors of Plant Physiology have continually updated the book to incorporate the latest advances in plant biology and implement pedagogical improvements requested by adopters. This has made Plant Physiology the most authoritative, comprehensive, and widely used upper-division plant biology textbook. In the Sixth Edition, the Growth and Development section (Unit III) has been reorganized and expanded to present the complete life cycle of seed plants from germination to senescence. In recognition of this enhancement, the text has been renamed Plant Physiology and Development. As before, Unit III begins with updated chapters on Cell Walls and Signals and Signal Transduction. The latter chapter has been expanded to include a discussion of major signaling molecules, such as calcium ions and plant hormones. A new, unified chapter entitled Signals from Sunlight has replaced the two Fifth-Edition chapters on Phytochrome and Blue Light Responses. This chapter includes phytochrome, as well as the blue and UV light receptors and their signaling pathways, including phototropins, cryptochromes, and UVR8. The subsequent chapters in Unit III are devoted to describing the stages of development from embryogenesis to senescence and the many physiological and environmental factors that regulate them. The result provides students with an improved understanding of the integration of hormones and other signaling agents in developmental regulation.

Textbook, concepts, experimental data.

This third edition provides the basics for introductory courses on plant physiology without sacrificing the more challenging material sought by upper division and graduate level students. The text contains many new or revised figures and photographs, all in full colour. A website, referenced throughout the text, includes additional study questions, WebTopics (elaborating on selected topics discussed in the text), WebEssays (discussions of cutting edge research topics, written by those who did the work) and additional suggestions for further reading. Key pedagogical changes to the text result in a shorter book. Advanced material from the second edition has been removed and posted at an affiliated Web site, while many new or revised figures and photographs, study questions and a glossary of key terms have been added. Despite the streamlining of the text, the third edition incorporates all the important developments in plant physiology, especially in cell, molecular and developmental biology.

Cells, tissues, and organs: the architecture of plants; The plant cell building blocks: lipids, proteins, and carbohydrates; Lipids are a class of molecules that includes fats, oils, sterols, and pigments; Proteins playa central role in the biochemistry of cells and are responsible for virtually all the properties of life as we know it; Carbohydrates are the most abundant class of biological molecules; Biological membranes; The membrane lipid forms a bilayer, a highly fluid but very stable structure; Membranes contain significantamounts of protein; Cellular organelles; Most mature plant cells contain a large, central vacuole; The nucleus is the information center of the cell; The endoplasmic reticulum and golgi apparatus are centers of membrane biosynthesis and secretory activities; The mitochondrion is the principal site of cellular respiration; Plastids are a family of organelles with a variety of functions; Microbodies are metabolically very active; Cytoskeleton the extracellular matrix; The primary cell wall is a flexible n etwork of cellulose microfibrils and cross-linking glycans; The cellulose-glycan lattice is embedded in a matrix of pectin and protein; Cellulose microfibrils are assembled at the plasma membrane as they are extruded into the cell wall; The secondary cell wall is deposited on the inside of the primary wall in maturing cells; Plasmadesmata are cytoplasmic channels extend through the wall to connect the protoplasts of adjacent cells; Tissues and organs; Tissues are groups of cells that form organized, functional unit; Meristems are regions of perpetually dividing cells; Parenchyma is the most abundant living tissue in plants; Supporting tissues are distributed throughout the primary and secondary plant bodies; Vascular tissues are the principal conducting tissues for water and nutrients ; Epidermis is a superficial tissue that forms a continuous layer over the surface of the primary; Plant body; Plant organs; Roots anchor the plant and absorb water and minerals from the soil.

This text is the successor volume to Biophysical Plant Physiology and Ecology (W.H. Freeman, 1983). The content has been extensively updated based on the growing quantity and quality of plant research, including cell growth and water relations, membrane channels, mechanisms of active transport, and the bioenergetics of chloroplasts and mitochondria. One-third of the figures are new or modified, over 190 new references are incorporated, the appendixes on constants and conversion factors have doubled the number of entries, and the solutions to problems are given for the first time. Many other changes have emanated from the best laboratory for any book, the classroom. - Covers water relations and ion transport for plant cells; diffusion, chemical potential gradients, solute movement in and out of plant cells - Covers interconnection of various energy forms: light, chlorophyll and accessory photosynthesis pigments, ATP and NADPH - Covers forms in which energy and matter enter and leave a plant; energy budget analysis, water vapor and carbon dioxide, water movement from soil to plant to atmosphere

A condensed version of the best-selling Plant Physiology and Development, this fundamentals version is intended for courses that focus on plant physiology with little or no coverage of development. Concise yet comprehensive, this is a distillation of the most important principles and empiricalfindings of plant physiology.

Since its publication in 2000, Biochemistry & Molecular Biology of Plants, has been hailed as a major contribution to the plant sciences literature and critical acclaim has been matched by global sales success. Maintaining the scope and focus of the first edition, the second will provide a major update, include much new material and reorganise some chapters to further improve the presentation. This book is meticulously organised and richly illustrated, having over 1,000 full-colour illustrations and 500 photographs. It is divided into five parts covering: Compartments: Cell Reproduction; Energy Flow; Metabolic and Developmental Integration; and Plant Environment and Agriculture. Specific changes to this edition include: Completely revised with over half of the chapters having a major rewrite. Includes two new chapters on signal transduction and responses to pathogens. Restructuring of section on cell reproduction for improved presentation. Dedicated website to include all illustrative material. Biochemistry & Molecular Biology of Plants holds a unique place in the plant sciences literature as it provides the only comprehensive, authoritative, integrated single volume book in this essential field of study.

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