
Esau's Plant Anatomy: Meristems, Cells, and Tissues of the Plant Body: Their Structure, Function, and Development, 3rd Edition

Ecology of Lianas
Plant Biomechanics
Ecological Strategies of Xylem Evolution
Plant Anatomy
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An Introduction to Plant Structure and Development
Plant Anatomy
Teaching Plant Anatomy Through Creative Laboratory Exercises
Applied Plant Anatomy
Botany Illustrated
Systematic Anatomy of the Dicotyledons
Vascular Transport in Plants
Anatomy of Seed Plants
Integrative Plant Anatomy
Plant Anatomy
Plant-Provided Food for Carnivorous Insects
The Shoot Apical Meristem
Physiology of Growth and Development in Horticultural Plants
Plant Systematics
Ontogeny, Cell Differentiation, and Structure of Vascular Plants
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Plant Anatomy
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Esau's Plant Anatomy
Plant Structure
Sieve Elements
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ANATOMY OF SEED PLANTS, 2ND ED
Forage Quality, Evaluation, and Utilization

Plant Anatomy and Embryology
Monocotyledons
Polarity in Plants
Strasburger's Plant Sciences

*Esau Plant Anatomy Meristems Cells
And Tissues Of The Plant Body Their
Structure Function And Development
3rd Edition*

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guest

BRAIDEN MORIAH

Ecology of Lianas John Wiley & Sons

In this book, the author analyzes plant form and how it has evolved in response to basic physical laws. He examines the ways these laws limit the organic expression of form, size, and growth in a variety of plant structures and in plants as whole organisms, drawing on both the fossil record and studies of extant species.

Plant Biomechanics Springer Science & Business Media

Intended as a text for upper-division undergraduates, graduate students and as a potential reference, this broad-scoped resource is extensive in its educational appeal by providing a new concept-based organization with end-of-chapter literature references, self-quizzes, and illustration interpretation. The concept-based, pedagogical approach, in contrast to the classic discipline-based approach, was specifically chosen to make the teaching and learning of plant anatomy more accessible for students. In addition, for instructors whose backgrounds may not primarily be plant anatomy, the features noted above are designed to provide sufficient reference material for organization and class presentation. This text is unique in the extensive use of over 1150 high-resolution color micrographs, color diagrams and scanning electron micrographs. Another feature is frequent side-boxes that highlight the relationship of plant anatomy to specialized investigations in plant molecular biology, classical investigations, functional activities, and research in forestry, environmental studies and genetics, as well as other fields. Each of the 19 richly-illustrated chapters has an abstract, a list of keywords, an introduction, a text body consisting of 10 to 20 concept-based sections, and a list of references and additional readings. At the end of each chapter, the instructor and student will find a section-by-section concept review, concept connections, concept assessment (10 multiple-choice questions), and concept

applications. Answers to the assessment material are found in an appendix. An index and a glossary with over 700 defined terms complete the volume.

Ecological Strategies of Xylem Evolution Springer

Structure, physiology, evolution, systematics, ecology.

Plant Anatomy Springer

This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1975.

Plant Anatomy CABI

The establishment of polarity is a fundamental feature in eukaryotic development. Polarity in Plants provides an account of current research into the mechanisms by which polarity is generated at the level of the cell, organ and organism in plants, drawing especially on recent work with model organisms. The emphasis is on the use of the techniques of molecular genetics to dissect molecular mechanisms. This is the first volume to bring together the diverse aspects of polarity in plant development.

An Introduction to Plant Structure and Development CRC Press

Divided into four sections covering anatomy in relation to crop management, anatomical descriptions of the major crop plants, anatomical changes in adaptation to environments and the link between anatomy and productivity, this book provides a comprehensive source of crop plant anatomy information. The crop areas covered include cereals, pulses and beans, oil crops and fibre crops. Suitable for students, researchers and professionals in the field, this book brings together economic plant anatomy and crop productivity for the first time. It is suitable for students and researchers of crop scienc.

Plant Anatomy Springer Science & Business Media

The development of a plant is a multifaceted, dynamic

phenomenon. Due to their immobility, plants respond not only to internal developmental cues, but also to changes in the prevailing environmental conditions. Climate change has increased vulnerability in plants due to increasing concentrations of CO₂ and other pollutants, and fluctuations in the growing environment. These changes affect crop growth and productivity thereby posing a major risk to global food security. *Physiology of Growth and Development in Horticultural Plants* contains 22 chapters organized into six sections, beginning with an introduction on basic concepts of plant growth and development; followed by genetic basis of plant development; quantification of growth; and sensing and response of plants to various environmental signals. It also explores plant growth hormones and their role either singly or in combination in controlling various aspects of plant growth and development, and hormonal regulation of physiological and developmental processes. The book highlights intricate aspects of growth and development in horticultural plants with classic examples from the real world. Features · Presents information on plant growth and development; structure and genetic basis of plant development with quantification of growth; sensing and response of plants to various environmental signals; and various phytohormones and their role in controlling aspects of plant growth and development. · Provides key scientific and technical advances, issues, and challenges in various areas of growth and development of horticultural plants. · Demonstrates how the response of various plants to internal and external stimuli can be commercially exploited. *Physiology of Growth and Development in Horticultural Plants* encourages the development of new techniques, technologies and innovative practices, and is an ideal reference for students of advanced plant sciences courses, researchers, and commercial horticultural practitioners.

Teaching Plant Anatomy Through Creative Laboratory Exercises
Cambridge University Press

With improved microscope and preparation techniques, studies of histological structures of plant organisms experienced a revival

of interest at the end of the 19th century. From that time, histological data have substantially studied the pioneers in botanical science. From the beginning of the 20th century, the microscope allowed research in cell structure, the general functional unit of living beings. Advances in cytology gradually influenced histology, at first, however, rather timidly. Only the new and spectacular progress in ultrastructural cytology and cytochemistry led to a great increase in modern work on the structures of vascular plants and the related ontogenical and physiological data, thanks to the use of the electron microscope and the contribution of molecular biology. Not only did new techniques lead to new approaches, but achievements in general biology shifted the orientation of research, linking investigation to the physiological aspects of cell and tissue differentiation. Among these, the demonstration of the general principles of development, and the characterization of molecules common to plants and animals, which control and govern the main basic functions of cells and tissues, have widened the scope of modern research on plant structures. Present trends in biological research show that it is necessary to know the structures thoroughly, from the ultrastructural cytological scale to the scale of tissue and organ arrangement, even for physiological research on either cells, tissues, or whole organs. The study of growth factors, differentiation, or organogenesis can be mentioned as an example.

Applied Plant Anatomy CRC Press

Lianas are woody vines that were the focus of intense study by early ecologists, such as Darwin, who devoted an entire book to the natural history of climbing plants. Over the past quarter century, there has been a resurgence in the study of lianas, and liana are again recognized as important components of many forests, particularly in the tropics. The increasing amount of research on lianas has resulted in a fundamentally deeper understanding of liana ecology, evolution, and life-history, as well as the myriad roles lianas play in forest dynamics and functioning. This book provides insight into the ecology and evolution of lianas, their anatomy, physiology, and natural history, their global abundance and distribution, and their wide-ranging effects on the myriad organisms that inhabit tropical and temperate forests.

Botany Illustrated Cambridge University Press

The shoot apex, although tiny and enclosed in the apical bud,

forms the whole of the shoot system of plants and has a key role in producing leaves and flowers. An appreciation of how it functions is essential to an understanding of plant growth. In this book, the questions of the manner and the speed at which the shoot apex grows, and the likely cellular processes that are involved in the formation of leaves and flowers, are examined at the biochemical, physiological, biophysical, molecular, and genetic levels. This book is the only one currently available that is wholly devoted to the growth and physiology of the shoot apex and its key role in the formation of leaves and flowers.

Cambridge University Press

This book is a fundamental guide to understanding plant structure offering plant scientists, plant biologists and horticulturalists in practice, academic life and in training. It includes a combination of concise scientific text and superb color photographs and drawings, focusing on structure at anatomical, histological and fine structure levels.

Systematic Anatomy of the Dicotyledons University of Chicago Press

Advances in Botanical Research

Vascular Transport in Plants Elsevier

This book, first published in 2005, addresses food-mediated interactions, focusing on how plants employ foods to recruit arthropod 'bodyguards' as a protection against herbivores.

Anatomy of Seed Plants Elsevier

This fourth edition of Plant Systematics is completely revised and updated. It incorporates the updated International Code of Nomenclature for Algae, Fungi and Plants (Shenzhen Code, 2018), the new version of PhyloCode (Beta version of PhyloCode 5, 2014), APweb version 14 (September, 2018), revised Angiosperm Phylogeny Group classification (APG IV, 2016), new Pteridophyte Phylogeny Group Classification (PPG I, 2016), besides the updates since the publication of third edition. The book is a blend of classical fundamental aspects and recent developments, especially in the field of molecular systematics, cladistics and computer identification. Special attention has been given to information on botanical nomenclature, identification, molecular systematics and phylogeny of angiosperms. The complicated concepts of phylogeny, taxometrics and cladistics have been explained with a view to providing a comparison between these diverse but interactive fields of study. An attempt has been made

to build upon a common example when exploring different methods, especially in procedures of identification, taxometrics and cladistics. The major systems of classification are evaluated critically. Discussion on major families of Pteridophytes, Gymnosperms and Angiosperms, especially those of major phylogenetic interest, form a major portion of this edition. The ebook includes nearly 500 color photographs set out in 36 pages covering plants from different parts of the world. In addition, 305 black & white illustrations have been included to provide a better understanding of the plants covered in the book.

Integrative Plant Anatomy CRC Press

This teaching guide covers the identification, deterioration, and conservation of artifacts made from plant materials. Detailed information on plant anatomy, morphology, and development, focusing on information useful to the conservator in identifying plant fibers are described, as well as the processing, construction, and decorative techniques commonly used in such artifacts. A final chapter provides a thorough discussion of conservation, preservation, storage, and restoration methods. This is a valuable resource to conservators and students alike.

Plant Anatomy Wiley

The book, by virtue of its authoritative coverage, should be most suitable to undergraduate as well as postgraduate students of all universities and also to those appearing for various competitive examinations such as CPMT, DME, DCS and IAS.

Plant-Provided Food for Carnivorous Insects Longman Publishing Group

This detailed overview of the structure of the sieve elements of the major plant groups, from algae to flowering plants, includes extant and extinct groups, revealing both common and divergent solutions to the problem of long-distance assimilate transport.

The Shoot Apical Meristem Getty Publications

This easy-to-follow, full-colour guide was created for instructors teaching plant structure at the high school, college, and university levels. It benefits from the experience of the authors, who in teaching plant anatomy over many years, came to realize that students learn best by preparing their own microscope slides from fresh plant samples. The exercises contained in this book have been tested, require minimal supplies and equipment, and use plants that are readily available. Detailed instructions are given for sectioning and staining of plant material. The book contains a

glossary of terms, an index, and a list of suppliers of materials required. A CD-ROM of all the illustrations is included for easy downloading into PowerPoint presentations. "Although a number of new plant anatomy texts have been published in recent years, none is as innovative, exciting and user-friendly as "Teaching Plant Anatomy Through Creative Laboratory Exercises" by Peterson, Peterson and Melville. What makes this book so usable from high school biology courses on through to upper level university plant structure labs is the wealth of experience that the authors have incorporated into this comprehensive clearly illustrated text. Using mostly photomicrographs of hand sections and wonderfully clear colour illustrations, they cover all aspects of plant structure from organelles to organs. The book also outlines some easy to use techniques, such as hand sections and clearings and macerations, which will certainly be very useful for any plant related lab. This book really does bring plant anatomy to life and will be a must for any course that deals with plant structure even if it's just to prepare plant material for molecular techniques. An excellent contribution to any botanical teaching where you want

your students to get a hands-on approach to the subject."... Dr. Usher Posluszny, University of Guelph
Physiology of Growth and Development in Horticultural Plants
 NRC Research Press
 This is an authoritative text/reference on the structure and development of seed plants. It presents the latest concepts in plant anatomy through experimental, histochemical, and ultrastructural approaches to the study of biological material. The book also includes new concepts and terms; expanded sections on flower, fruit, and seed; and a new description of characters used in keying out woods. · Development Of The Seed Plant · The Cell · Cell Wall · Parenchyma And Collenchyma · Sclerenchyma · Epidermis · Xylem: General Structure And Cell Types · Xylem: Variation In Wood Structure · Vascular Cambium · Phloem · Periderm · Secretory Structures · The Root: Primary State Of Growth · The Root: Secondary State Of Growth And Adventitious Roots · The Stem: Primary State Of Growth · The Stem: Secondary Growth And Structural Types · The Leaf: Basic Structure And

Development · The Leaf: Variations In Structure · The Flower: Structure And Development · The Flower: Reproductive Cycle · The Fruit · The Seed · Embryo And Seedling
Plant Systematics Academic Press
 Plant-parasitic nematodes are among the most destructive plant pathogens, causing enormous losses to agronomic crops worldwide. This book provides an up-to-date review of research related to two of the most important nematode pests, root-knot and cyst nematodes. Chapters cover early plant-nematode interactions, identification of nematode proteins important in the establishment of nematode feeding sites, and classification of biochemical and signaling pathways significant in the development of specialized feeding sites in the host. The cellular and subcellular structures essential for the parasitic interaction are examined by light and electron microscopy. Modern techniques of gene expression analyses and genomic sequencing are poised to provide an even greater wealth of information to researchers, enabling them to develop and examine natural and manmade mechanisms of resistance to this important plant pest.

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