

## Botany An Introduction To Plant Biology

Gavin Hardy and Laurence Totelin have brought together their botanical and historical knowledge to produce this unique overview of ancient botany. It examines all the founding texts of botanical science, such as Theophrastus' Enquiry into Plants, Dioscorides' Materia Medica, Pliny the Elder's Natural History, Nicolaus of Damascus' On Plants, and Galen' On Simple Remedies, but also includes lesser known texts ranging from the sixth century BCE to the seventh century CE, as well as some material evidence. The authors adopt a thematic approach rather than a chronological one, considering important issues such as the definition of a plant, nomenclature, classifications, physiology, the link between plants and their environment, and the numerous usages of plants in the ancient world. The book also takes care to place ancient botany in its historical, social and economic context. The authors have explained all technical botanical terms and ancient history notions, and as a result, this work will appeal to historians of ancient science, medicine and technology; classicists; and botanists interested in the history of their discipline.

Offers a practical guide for the non-specialist on studying and learning from plant fossils to understand the evolution of vegetation on Earth.

With more than 260,000 copies in print, this bestselling primer on the science of plants is back and better than ever, with updated content and new photography.

Introduction to Plant Science

Botany: A Lab Manual

Botany For Dummies

An Introduction to the Study of Plants

*This is a discovery book about plants. It is for students In the first section, introduction to plants, there are sev of botany and botanical illustration and everyone inter eral sources for various types of drawings. Hypotheti ested in plants. Here is an opportunity to browse and cal diagrams show cells, organelles, chromosomes, the choose subjects of personal inter. est, to see and learn plant body indicating tissue systems and experiments about plants as they are described. By adding color to with plants, and flower placentation and reproductive the drawings, plant structures become more apparent structures. For example, there is no average or stan and show how they function in life. The color code dard-looking flower; so to clearly show the parts of a clues tell how to color for definition and an illusion of flower (see 27), a diagram shows a stretched out and depth. For more information, the text explains the illus exaggerated version of a pink (Dianthus) flower (see trations. The size of the drawings in relation to the true 87). A basswood (Tiffa) flower is the basis for diagrams size of the structures is indicated by X 1 (the same size) of flower types and ovary positions (see 28). Another to X 3000 (enlargement from true size) and X n/n source for drawings is the use of prepared microscope (reduction from true size). slides of actual plant tissues.*

*Contemplating the textual gardens, poetic garlands, and epigrammatic groves which dot the landscape of early modern English print, Leah Knight exposes and analyzes the close configuration of plants and writing in the period. She argues that the early modern cultures and cultivation of plants and books depended on each other in historically specific and novel ways that yielded a profusion of linguistic, conceptual, metaphorical, and material intersections. Examining both poetic and botanical texts, as well as the poetics of botanical texts, this study focuses on the two outstanding English botanical writers of the sixteenth century, William Turner and John Gerard, to suggest the unexpected historical relationship between literature and science in the early modern genre of the herbal. In-depth readings of their work are situated amid chapters that establish the broader context for the interpenetration of plants and writing in the period's cultural practices in order to illuminate a complex interplay between materials and discourses rarely considered in tandem today.*

*The Sixth Edition of Botany: An Introduction to Plant Biology provides a modern and comprehensive overview of the fundamentals of botany while retaining the important focus of natural selection, analysis of botanical phenomena, and diversity.*

Practical Botany

Sixteenth-Century Plants and Print Culture

An Introduction to Plant Biology

The Big, Bad Book of Botany

Plant Evolution

*Explains the patterns method of plant identification, describing eight key patterns for recognizing more than 45,000 species of plants, and includes an illustrated reference guide to plant families.*

*Written for the introductory course for non-science majors, Plants & People outlines the practical, economical, and environmental aspects of how plants interact with human beings and the earth. The book begins with an introduction to the fundamental concepts of plant biology, followed by sections focused on the global issues related to plants and their connection to global warming, deforestation, and biogeography. It continues by examining how plants influence our daily lives, from food and drink to clothing and medicinal usage. The text encourages readers to have a continued interest in plants in our society and to consider how our actions play a role in their existence.*

*Botany: An Introduction to Plant Biology, Seventh Edtion provides a modern and comprehensive overview of the fundamentals of botany while retaining the important focus of natural selection, analysis of botanical phenomena, and diversity.*

Introduction to Plants, Major Groups, Flowering Plant Families

Study Guide to Accompany Botany, an Introduction to Plant Biology, 6th Ed. [by] T. Elliot Weier ... [et Al.]

Botany: An Introduction to Plant Biology

Botany: Introduction to Plant Biology and Botany: a Lab Manual

Plants and Speculative Fiction

*Winner, 2019 Science Fiction & Technoculture Studies Book Prize Radical Botany excavates a tradition in which plants participate in the effort to imagine new worlds and envision new futures. Modernity, the book claims, is defined by the idea of all life as vegetal. Meeker and Szabari argue that the recognition of plants' liveliness and animation, as a result of scientific discoveries from the seventeenth century to today, has mobilized speculative creation in fiction, cinema, and art. Plants complement and challenge notions of human life. Radical Botany traces the implications of the speculative mobilization of plants for feminism, queer studies, and posthumanist thought. It, as Michael Foucault has argued, the notion of the human was born at a particular historical moment and is now nearing its end. Radical Botany reveals that this origin and endpoint are deeply informed by vegetality as a form of pre- and posthuman subjectivity. The trajectory of speculative fiction which this book traces offers insights into the human relationship to animate matter and the technological mediations through which we enter into contact with the material world. Plants profoundly shape human experience, from early modern absolutist societies to late capitalism's manipulations of life and the onset of climate change and attendant mass extinction. A major intervention in critical plant studies, Radical Botany reveals the centuries-long history by which science and the arts have combined to posit plants as the model for all animate life and thereby envision a different future for the cosmos.*

BotanyJones & Bartlett Learning

*The Study of Plants in a Whole New Light "Matt Candellas succeeds in evoking the wonder of plants with wit and wisdom."—James T. Costa, PhD, executive director, Highlands Biological Station and author of Darwin's Backyard #1 New Release in Nature & Ecology, Plants, Botany, Horticulture, Trees, Biological Sciences, and Nature Writing & Essays In his debut book, internationally-recognized blogger and podcaster Matt Candellas celebrates the nature of plants and the extraordinary world of plant organisms. A botanist's defense. Since his early days of plant restoration, this amateur plant scientist has been enchanted with flora and the greater environmental ecology of the planet. Now, he looks at the study of plants through the lens of his ever-growing houseplant collection. Using gardening, houseplants, and examples of plants around you, In Defense of Plants changes your relationship with the world from the comfort of your windowsill. The ruthless, horny, and wonderful nature of plants. Understand how plants evolve and live on Earth with a never-before-seen look into their daily drama. Inside, Candellas explores the incredible ways plants live, fight, have sex, and conquer new territory. Whether a blossoming botanist or a professional plant scientist, In Defense of Plants is for anyone who sees plants as more than just static backdrops to more charismatic life forms. In this easily accessible introduction to the incredible world of plants, you'll find: • Fantastic botanical histories and plant symbolism • Passionate stories of flora diversity and scientific names of plant organisms • Personal tales of plantsman discovery through the study of plants If you enjoyed books like The Botany of Desire, What a Plant Knows, or The Soul of an Octopus, then you'll love In Defense of Plants.*

Botany, an Introduction to Plant Science

An Introduction to the Science of Plants

Plant Anatomy

For Advanced Level and Intermediate Students

The Botany of Desire

**A bitters-making handbook with a beautiful, botanical difference; three scientists present the back-stories and exciting flavours of plants from around the globe, in a range of tasty, healthy tinctures.**

**Written in 1988 mainly for undergraduate students, this text attempts to explain the functioning or the evolution of plant structures. It contains numerous diagrams, photographs, and micrographs (by both light and electron microscopy).**

**Plants form a fundamental element of the biosphere, and the evolution of plants has directly affected the evolution of animal life and the evolution of the Earth's climate. Plants have also become essential to humans not only in the form of cereal crops, fruit, and vegetables, but in their many other uses in wood and paper, and in providing medicines. Their aesthetic importance too in our parks and gardens as well as in wildflower meadows and great forests should not be underestimated. In this Very Short Introduction Timothy Walker, Director of the Botanical Gardens in Oxford, provides a concise account of the nature of plants, their variety, their evolution, and their importance and uses, stressing the need and efforts for their conservation for future generations. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.**

Botany for Beginners

Anatomy of Flowering Plants

Botany for Gardeners, Fourth Edition

Plants: A Very Short Introduction

Plant Science

David Attenborough meets Lemony Snicket in The Big Bad Book of Botany. Michael Largo's entertaining and enlightening one-of-a-kind compendium of the world's most amazing and bizarre plants, their history, and their lore. The Big, Bad Book of Botany introduces a world of wild, wonderful, and weird plants. Some are so rare, they were once more valuable than gold. Some found in ancient mythology hold magical abilities, including the power to turn a person to stone. Others have been used by assassins to kill kings, and sorcerers to revive the dead. Here, too, is vegetation with astonishing properties to cure and heal, many of which have long since been lost with the advent of modern medicine. Organized alphabetically, The Big, Bad Book of Botany combines the latest in biological information with bizarre facts about the plant kingdom's oddest members, including a species that is more poisonous than a cobra and a prehistoric plant that actually "walked." Largo takes you through the history of vegetables and fruits and their astonishing agricultural evolution. Throughout, he reveals astonishing facts, from where the world's first tree grew to whether plants are telepathic. Featuring more than 150 photographs and illustrations, The Big, Bad Book of Botany is a fascinating, fun A-to-Z encyclopedia for all ages that will transform the way we look at the natural world.

The easy way to score your highest in botany Employment of biological scientists is projected to grow 21% over the next decade, much faster than the average for all occupations, as biotechnological research and development continues to drive job growth. Botany For Dummies gives you a thorough, easy-to-follow overview of the fundamentals of botany, helping you to improve your grades, supplement your learning, or review before a test. Covers evolution by natural selection Offers plain-English explanations of the structure and function of plants Includes plant identification and botanical phenomenon Tracking a typical course in botany, this hands-on, friendly guide is your ticket to acing this required course for your major in biology, microbiology, zoology, or elementary education.

The book that helped make Michael Pollan, the New York Times bestselling author of How to Change Your Mind, Cooked and The Omnivore's Dilemma, one of the most trusted food experts in America Every schoolchild learns about the mutually beneficial dance of honeybees and flowers: The bee collects nectar and pollen to make honey and, in the process, spreads the flowers' genes far and wide. In The Botany of Desire, Michael Pollan ingeniously demonstrates how people and domesticated plants have formed a similarly reciprocal relationship. He masterfully links four fundamental human desires—sweetness, beauty, intoxication, and control—with the plants that satisfy them: the apple, the tulip, marijuana, and the potato. In telling the stories of four familiar species, Pollan illustrates how the plants have evolved to satisfy humankind's most basic yearnings. And just as we've benefited from these plants, we have also done well by them. So who is really domesticating whom?

Introduction to Plant Physiology

Radical Botany

A Natural System of Botany; Or a Systematic View of the Organisation, Natural Affinities and Geographical Distribution of the Whole Vegetable Kingdom

The Patterns Method of Plant Identification : an Herbal Field Guide to Plant Families of North America

The Art and Science of Making Bitters

*A plant anatomy textbook unlike any other on the market today. Carol A. Peterson described the first edition as 'the best book on the subject of plant anatomy since the texts of Esau'. Traditional plant anatomy texts include primarily descriptive aspects of structure, this book not only provides a comprehensive coverage of plant structure, but also introduces aspects of the mechanisms of development, especially the genetic and hormonal controls, and the roles of plasmodesmata and the cytoskeleton. The evolution of plant structure and the relationship between structure and function are also discussed throughout. Includes extensive bibliographies at the end of each chapter. It provides students with an introduction to many of the exciting, contemporary areas at the forefront of research in the development of plant structure and prepares them for future roles in teaching and research in plant anatomy.*

**Textbook, concepts, experimental data.**

**This value bundle includes the text and lab manual for Botany: An Introduction to Plant Biology.**

An Introduction to Plant Science

Botany at the Bar

The World's Most Fascinating Flora

Botany in a Day

An Introduction to Plant Structure and Development

In the 2007 third edition of her successful textbook, Paula Rudall provides a comprehensive yet succinct introduction to the anatomy of flowering plants. Thoroughly revised and updated throughout, the book covers all aspects of comparative plant structure and development, arranged in a series of chapters on the stem, root, leaf, flower, seed and fruit. Internal structures are described using magnification aids from the simple hand-lens to the electron microscope. Numerous references to recent topical literature are included, and new illustrations reflect a wide range of flowering plant species. The phylogenetic context of plant names has also been updated as a result of improved understanding of the relationships among flowering plants. This clearly written text is ideal for students studying a wide range of courses in botany and plant science, and is also an excellent resource for professional and amateur horticulturists.

Classification and naming of plants: Body: Seed: Metabolic plant cell: Chemistry and physiology: Stem: Root: Leaf: Soil and mineral nutrition: Transpiration, conduction, and absorption: Photosynthesis: Respiration: The flower: The fruit, seed, and seedling: Inheritance: The plant as a living

mechanism: Ecology: Algae: Fungi: Viruses: Genetic: Vascular plants: Bryophytes: Angiospermae: Evolution

Practical Botany for Advanced Level and Intermediate Students. Fifth Edition is a five-part laboratory manual covering the syllabuses in Botany of the advanced level students and other examinations of similar standard. This laboratory manual must be used in conjunction with textbooks of botany. The Introduction presents general instructions for practical work and for the keeping of practical notebooks and a list of apparatus and instruments required, as well as a summary of the characteristics of living organisms, the differences between plants and animals and the principles of plant classification. Part I describes the features and methods of use of the microscope, while Part II contains intensive discussions on the evaluation of the morphological, cytological, and histological aspects of plants. The remaining parts cover the biochemical, physiological, and genetic aspects of the plant experiments. This book is directed toward advanced and intermediate level botany teachers and students.

Plants and People

Plant Anatomy for the Twenty-First Century

Botany Illustrated

Botany

Inanimate Life

If you look around right now, chances are you'll see a plant. It could be a succulent in a pot on your desk, grasses or shrubs just outside your door, or trees in a park across the way. Proximity to plants tends to make us happy, even if we don't notice, offering unique pleasures and satisfactions. Open your eyes to the phenomenal and exciting world of botany!

Although plants comprise more than 90% of all visible life, and land plants and algae collectively make up the most morphologically, physiologically, and ecologically diverse group of organisms on earth, books on evolution instead tend to focus on animals. This organismal bias has led to an incomplete and often erroneous understanding of evolutionary theory. Because plants grow and reproduce differently than animals, they have evolved differently, and generally accepted evolutionary views—as, for example, the standard models of speciation—often fail to hold when applied to them. Tapping such wide-ranging topics as genetics, gene regulatory networks, phenotype mapping, and multicellularity, as well as paleobotany, Karl J. Niklas' s Plant Evolution offers fresh insight into these differences. Following up on his landmark book The Evolutionary Biology of Plants—in which he drew on cutting-edge computer simulations that used plants as models to illuminate key evolutionary theories—Niklas incorporates data from more than a decade of new research in the flourishing field of molecular biology, conveying not only why the study of evolution is so important, but also why the study of plants is essential to our understanding of evolutionary processes. Niklas shows us that investigating the intricacies of plant development, the diversification of early vascular land plants, and larger patterns in plant evolution is not just a botanical pursuit: it is vital to our comprehension of the history of all life on this green planet.

This revised text provides a comprehensive introduction to the fascinating world of plant science. From the basic requirements for plant growth, to genetic engineering and biotechnology, this easy-to- understand book is ideal for the high school level agriscience curriculum or college freshman level plant science course. Students will learn about the origins of cultivated plants, structure and anatomy, photosynthesis, respiration, propagation, production of major agronomic crops, and more.

In Defense of Plants

Of Books and Botany in Early Modern England

An Introduction to the History of Life

A Plant's-Eye View of the World

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