Introductory Plant Biology

Plant BiologyDiscoveries In Plant Biology (Volume I)Plant BiologyPlant BiologyPlant BiologyPlant BiologyPlant BiologyAn Introduction to Plant BiologyAn Introduction to Plant BiologyBIOS Instant Notes in Plant BiologyJournal of Plant BiologyStudies in Plant BiologyA Textbook of Plant BiologyBotanyPlant PhysicsElementary Plant BiologyA Textbook of Plant BiologyPlant EvolutionAnnual Report of the Director, Department of Plant BiologyAn Introduction to Plant Biology Ross H. Arnett Shain-dow Kung Thomas L. Rost Alison M. Smith Knut Norstog Linda E. Graham Andrew J. Lack Dale C (Dale Carl) 1912- Braungart Dale C. Braungart Andrew Lack Parameswaran Krishnan Kutty Nair M. C. Rayner Thomas Elliot Weier Karl Joseph Niklas James Edward Peabody William Neilson-Jones Karl J. Niklas Carnegie Institution of Washington. Department of Plant Biology Dale Carl Braungart

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as scientific progress hinges on the continual discovery and extension of previous discoveries this series discoveries in plant biology is specially compiled to provide an atlas of the landmark discoveries in the broad span of plant biology the collection of chapters written by renowned plant biologists describe how classic discoveries were made and how they have served as the foundation for subsequent discoveries we hope that this will facilitate our readers quest to advance their knowledge based on the advancements made previously by others the 21 discoveries described in this first volume all form the foundations of modern plant biology the contributors many of whom are themselves the researchers who made the discoveries bring readers back in time to retrace the steps of the discoveries following the creative thoughts of the scientists in deciphering the natural laws readers may appreciate how each field was developed from a simple subject to an advanced multidisciplinary field

this edition of plant biology will introduce you to the science of plants with current real world examples of plant biodiversity and ecology beginning with the familiar world of flowering plants and progressing into issues of biodiversity evolution and ecology book cover

plant biology is a new textbook written for upper level undergraduate and graduate students it is an account of modern plant science reflecting recent advances in genetics and genomics and the excitement they have created the book begins with a review of what is known about the origins of modern day plants next the special features of plant genomes and genetics are explored subsequent chapters provide information on our current understanding of plant cell biology plant metabolism and plant developmental biology with the remaining three chapters outlining the interactions of plants with their environments the final chapter discusses the relationship of plants with humans domestication agriculture and crop breeding plant biology contains over 1 000 full color illustrations and each chapter begins with learning objectives and concludes with a summary

the botany textbook underscores the importance of plants in daily life and calls attention to the diversity found within major plant groups

in this book you will learn that plant biology is more than learning the names of plants and their parts plant biology also considers how and why plants are so important in the world explaining many practical applications and issues appearing in the news media this textbook is designed to aid your discovery by focusing on the biological concepts that every educated citizen should know in order to make well informed decisions that will affect us all pref

instant notes in plant biology covers all aspects of modern plant biology the scope and depth of this text are suitable for a first and second year undergraduate student of plant biology including molecular biologists and biotechnologists

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the second edition of instant notes in plant biology has been both updated and reorganized and gives an insight into the whole of plant science integrating structure function and physiology a major addition is the section on understanding plants which introduces the major techniques in plant science and shows

how advances are made molecular techniques are used in all areas of plant science and are included throughout

this is a classic textbook on the subject of plant biology first published in 1920 it offers the reader an elementary course on the scientific method while exploring the relationship between plant life and general biological knowledge originally intended for use in schools and universities this comprehensive textbook is a great place to start for readers with an interest in botany and related subjects contents include the plant as a machine the cell respiration the water relations of plants absorption of mineral salts carbon assimilation the assimilation of nitrogen by plants the nutrition of heterophic plants enzymes reproduction reproductions reproductions continued etc many vintage books such as this are increasingly scarce and expensive it is with this in mind that we are republishing this volume now in an affordable modern high quality edition complete with a specially commissioned new introduction on botany

from galileo who used the hollow stalks of grass to demonstrate the idea that peripherally located construction materials provide most of the resistance to bending forces to leonardo da vinci whose illustrations of the parachute are alleged to be based on his study of the dandelion s pappus and the maple tree s samara many of our greatest physicists mathematicians and engineers have learned much from studying plants a symbiotic relationship between botany and the fields of physics mathematics engineering and chemistry continues today as is revealed in plant physics the result of a long term collaboration between plant evolutionary biologist karl j niklas and physicist hanns christof spatz plant physics presents a detailed account of the principles of classical physics evolutionary theory and plant biology in order to explain the complex interrelationships among plant form function environment and evolutionary history covering a wide range of topics from the development and evolution of the basic plant body and the ecology of aquatic unicellular plants to mathematical treatments of light attenuation through tree canopies and the movement of water through plants roots stems and leaves plant physics is destined to inspire students and professionals alike to traverse disciplinary membranes

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

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