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the seventh edition of this book includes chapter overviews checkpoints detailed summaries summary tables a list of key terms and end of chapter questions there is also a new chapter on recombinant dna technology plant biotechnology and genomics

long acclaimed as the definitive introductory botany text raven biology of plants eighth edition by ray evert susan eichhorn stands as the most significant revision in the book s history every topic was updated with information obtained from the most recent primary literature making the book valuable for both students and professionals

biochemistry and molecular biology of plants 2nd edition 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 and 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

plants are integral to human well being and many species have been domesticated for more than 10 000 years evidence of plant scientific investigation and classification can be found in ancient texts from cultures around the world chinese indian greco roman muslim etc whereas early modern botany can be traced to the late 15th and early 16th centuries in europe during the past several decades plant biology has been revolutionized first by molecular biology and then by the genomic era the model organism arabidopsis thaliana has proved to be an invaluable tool for investigation into fundamental processes in plant biology many of which share commonalities with animal biology plant specific processes from reproduction to immunity and second messengers have also yielded to extensive investigation with the genomes of more than 30 plant species now available and many more planned in the near future the impact on our understanding of plant evolution and biology continues to grow our increased ability to engineer plant species to a variety of ends may provide novel solutions to ensure adequate and reliable food production and renewable energy even as climate change impacts our environment the decision to focus the 2012 symposium on plant science reflected the enormous research progress achieved in recent years and was intended to provide a broad synthesis of the current state of the field setting the stage for future discoveries and application this is the first symposium in this historic series that focused exclusively on the botanical sciences the symposium spanned a broad range of areas of investigation including genetics biochemistry molecular and cell biology developmental biology physiology and population evolution studies at levels ranging from the single cell to the entire organism and from single genes to genomes plant specific processes and pathways featured broadly throughout the meeting effort was made to balance fundamental biological discoveries with applications relevant to societal well being including improved crops fuel and habitat page xv

functional biology of plants provides students and researchers with a clearly written well structured whole plant physiology text early in the text it provides essential information on molecular and cellular processes so that the reader can understand how they are integrated into the development and function of

the plant at whole plant level thus this beautifully illustrated book presents a modern applied integration of whole plant and molecular approaches to the study of plants it is divided into four parts part 1 genes and cells looks at the origins of plants cell structure biochemical processes and genes and development part 2 the functioning plant describes the structure and function of roots stems leaves flowers and seed and fruit development part 3 interactions and adaptations examines environmental and biotic stresses and how plants adapt and acclimatise to these conditions part 4 future directions illustrates the great importance of plant research by looking at some well chosen topical examples such as gm crops biomass and bio fuels loss of plant biodiversity and the question of how to feed the planet throughout the book there are text boxes to illustrate particular aspects of how humans make use of plants and a comprehensive glossary proves invaluable to those coming to the subject from other areas of life science

provides a comprehensive synthesis of modern evolutionary biology as it relates to plants this text recounts the saga of plant life from its origins to the radiation of the flowering plants through computer generated walks it shows how living plants might have evolved

plants represent the foundation of terrestrial life providing the energy and oxygen that sustain virtually all other living organisms on earth these remarkable organisms have evolved sophisticated structures and systems that enable them to capture sunlight absorb water and nutrients from soil and convert simple inorganic compounds into the complex organic molecules that fuel ecosystems worldwide understanding plant biology begins with examining their fundamental architecture and organization which reflects millions of years of evolutionary adaptation to life at the interface between earth and sky the basic plant body plan exhibits a remarkable unity of design despite the enormous diversity of plant forms found across different environments and taxonomic groups this organization reflects the fundamental challenge faced by all terrestrial plants the need to simultaneously access resources from two very different environments roots explore the dark nutrient rich soil environment to absorb water and minerals while shoots extend into the aerial environment to capture light energy and exchange gases with the atmosphere this division of labor between underground and aboveground organs has shaped plant evolution and continues to influence every aspect of plant biology the modular construction of plants enables them to grow throughout their lives by adding new organs and tissues as needed unlike animals which typically reach a determinate size this indeterminate growth pattern allows plants to continuously explore their environment for resources while adjusting their body plan in response to changing conditions new roots can grow toward water sources while shoots can extend toward light and away from competitors this growth flexibility represents one of the key innovations that has enabled plants to colonize diverse terrestrial environments

reproductive biology is the basis of species improvement and a thorough understanding of this is needed for plant improvement whether by conventional or biotechnological methods this book presents an up to date and comprehensive description of reproduction in lower plants gymnosperms and higher plants it

covers general plant biology pollination pollen pistil interaction post fertilization changes and seed dormancy

this antique volume contains a detailed treatise on plants and how they grow with a wealth of detailed and interesting information on the biology of plant cells roots leaves and flowers written in clear language and profusely illustrated this book will appeal to those with a keen interest in the subject as well as collectors of antiquarian literature of this ilk although old much of the information contained herein is timeless and will still be of considerable value to modern readers many antique texts such as this are becoming increasingly hard to come by and expensive and it is with this in mind that we are proudly republishing this book now in an affordable modern edition for the enjoyment of those interested

this volume offers a much needed compilation of essential reviews on diverse aspects of plant biology written by eminent botanists these reviews effectively cover a wide range of aspects of plant biology that have contemporary relevance at the same time they integrate classical morphology with molecular biology physiology with pattern formation growth with genomics development with morphogenesis and classical crop improvement techniques with modern breeding methodologies classical botany has been transformed into cutting edge plant biology thus providing the theoretical basis for plant biotechnology it goes without saying that biotechnology has emerged as a powerful discipline of biology in the last three decades biotechnological tools techniques and information used in combination with appropriate planning and execution have already contributed significantly to economic growth and development it is estimated that in the next decade or two products and processes made possible by biotechnology will account for over 60 of worldwide commerce and output there is therefore a need to arrive at a general understanding and common approach to issues related to the nature possession conservation and use of biodiversity as it provides the raw material for biotechnology more than 90 of the total requirements for the biotechnology industry are contributed by plants and microbes in terms of goods and services there are however substantial plant and microbial resources that are waiting for biotechnological exploitation in the near future through effective bioprospection in order to exploit plants and microbes for their useful products and processes we need to first understand their basic structure organization growth and development cellular process and overall biology we also need to identify and develop strategies to improve the productivity of plants in view of the above in this two volume book on plant biology and biotechnology the first volume is devoted to various aspects of plant biology and crop improvement it includes 33 chapters contributed by 50 researchers each of which is an expert in his her own field of research the book begins with an introductory chapter that gives a lucid account on the past present and future of plant biology thereby providing a perfect historical foundation for the chapters that follow four chapters are devoted to details on the structural and developmental aspects of the structures of plants and their principal organs these chapters provide the molecular biological basis for the regulation of morphogenesis of the form of plants and their organs involving control at the cellular and tissue levels details on biodiversity the basic raw material for biotechnology are discussed in a separate chapter in

which emphasis is placed on the genetic species and ecosystem diversities and their conservation since fungi and other microbes form an important component of the overall biodiversity special attention is paid to the treatment of fungi and other microbes in this volume four chapters respectively deal with an overview of fungi arbuscularmycorrhizae and their relation to the sustenance of plant wealth diversity and practical applications of mushrooms and lichens associated with a photobiont microbial endosymbionts associated with plants and phosphate solubilizing microbes in the rhizosphere of plants are exhaustively treated in two separate chapters the reproductive strategies of bryophytes and an overview on cycads form the subject matter of another two chapters thus fulfilling the need to deal with the non flowering embryophyte group of plants angiosperms the most important group of plants from a biotechnological perspective are examined exhaustively in this volume the chapters on angiosperms provide an overview and cover the genetic basis of flowers development pre and post fertilization reproductive growth and development seed biology and technology plant secondary metabolism photosynthesis and plant volatile chemicals a special effort has been made to include important topics on crop improvement in this volume the importance of pollination services apomixes male sterility induced mutations polyploidy and climate changes is discussed each in a separate chapter microalga nutraceuticals vegetable oil based nutraceuticals and the importance of alien crop resources and underutilized crops for food and nutritional security form the topics of three other chapters in this volume there is also a special chapter on the applications of remote sensing in the plant sciences which also provides information on biodiversity distribution the editors of this volume believe the wide range of basic topics on plant biology that have great relevance in biotechnology covered will be of great interest to students researchers and teachers of botany and plant biotechnology alike

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