

BIOLOGY

Introduction to Plants

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Lei Shi



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Chapter Resource 23 Introduction to Plants Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-01-01 **Plant Biology and Biotechnology** Bir Bahadur, Manchikatl Venkat Rajam, Leela Sahijram, K.V. Krishnamurthy, 2015-07-02

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, preservation, 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 or 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, arbuscular mycorrhizae 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, apomixis, male sterility, induced mutations, polyploidy and climate changes is discussed each in a separate chapter. Microalgal 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.

A Laboratory Manual of Plant Histology Mason B. Thomas, William Russel Dudley, 1894

Essentials of Biology Presented in Problems George William Hunter, 1911

Discoveries in Plant Biology Shain-dow Kung, Shang-Fa Yang, 1998. This excellent book should be present in all central libraries and in those of plant biology institutions. The book is recommended to advanced students and researchers. *Journal of Plant Physiology* 1999.

Molecular Biology of Woody Plants S.M. Jain, S.C. Minocha, 2013-03-09. Woody plants belong to various taxonomic groups which are heterogeneous in morphology, physiology and geographic distribution. Other wise they have neither strong evolutionary relationships nor share a common habitat. They are a primary source of fiber and timber and also include many edible fruit species. Their unique phenotypic behavior includes a perennial habit associated with extensive secondary growth. Additional characteristics of woody plants include developmental juvenility and maturity with respect to growth habit, flowering time and morphogenetic response in tissue cultures, environmental control of bud dormancy and

flowering cycles variable tolerance to abiotic stresses wounding and pathogens and long distance transport of water and IRLtrients Woody plants particularly tree species have been the focus of numerous physiological studies to understand their specialized functions however only recently they have become the target of molecular studies Recent advances in our understanding of signal transduction pathways for environmental responses in herbaceous plants including the identification and cloning of genes for proteins involved in signal transduction should provide useful leads to undertake parallel studies with woody plants Molecular mapping techniques coupled with the availability of cloned genes from herbaceous plants should provide shortcuts to cloning relevant genes from woody plants The unique phenotypes of these plants can then be targeted for improvement through genetic engineering *NIV, God's Word for Gardeners, eBook Shelley Cramm*,2014-03-25 God will meet you personally in your garden and in his Throughout the Scriptures God has revealed spiritual truth in the language of growing things This Bible will take you into a deeper relationship with God through the contemplation of soil and soul The NIV God s Word for Gardeners Bible will inspire you to seek God in a personal way through informative essays devotional readings and prayers that explore the nature of the gardener s work the rewards of gardening the influence of seasons and weather and the joy of the harvest In this Bible you will also find botanical themed pages containing horticultural information for the prominent plants noted in Scripture and landscape themed pages highlighting the main gardens and regions in which the events in the Bible took place Draw near to the One whose garden is planted with delight in you Features 260 daily devotions and 52 weekend readings arranged in weekly themes and placed near relevant passages in the text to explore the biblical metaphors of gardens and gardening Topical Index for 52 weeks Special sections on the Garden of Eden the garden of Gethsemane and Jesus the Vine Genomes of Herbaceous Land Plants ,2013-12-18 Advances in Botanical Research publishes in depth and up to date reviews on a wide range of topics in plant sciences Currently in its 69th volume the series features several reviews by recognized experts on all aspects of plant genetics biochemistry cell biology molecular biology physiology and ecology This thematic volume features reviews on genomes of herbaceous land plants Publishes in depth and up to date reviews on a wide range of topics in plant sciences Features a wide range of reviews by recognized experts on all aspects of plant genetics biochemistry cell biology molecular biology physiology and ecology Volume features reviews on genomes of herbaceous land plants *Transgenic Plants Yelda Ozden Çiftçi*,2012-03-07 Development of efficient transformation protocols is becoming a complementary strategy to conventional breeding techniques for the improvement of crops Thus Transgenic Plants Advances and Limitations covers the recent advances carried on improvement of transformation methods together with assessment of the impact of genetically transformed crops on biosafety Each chapter has been written by one or more experienced researchers in the field and then carefully edited to ensure thoroughness and consistency Genome Editing in Plants Om Prakash Gupta,Suhas Gorakh Karkute,2021-07-25 Genome Editing in Plants Principles and Applications addresses the information of genome editing

starting from principles and historical aspects to the latest advancements in the field As genome editing technology has emerged as promising and cutting edge researchers around the world have started producing original research outputs which have significantly improved our current understanding and potential of this technology The initial chapters of this book describe different genome editing tools as well as their principles and applications Other chapters are dedicated to the present status and future applications of genome editing techniques in various crop improvement programmes Some of the advanced applications of CRISPR Cas tools such as base editing and RNA detection along with regulatory aspects of genome edited crops are described in detail This book serves as a valuable resource to researchers in the field of crop improvement graduate and postgraduate students engaged in plant molecular biology and biotechnology academicians and policy makers

Key Features Addresses topics associated with historical development and principles of genome editing technology
 Addresses basic mechanisms operating under each genome editing technology
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 Addresses the regulatory mechanisms of genome edited crops

Lipids in Plants and Algae: From Fundamental Science to Industrial Applications, 2022-01-29 Lipids in Plants and Algae From Fundamental Science to Industrial Applications Volume 101 provides in depth reviews on the most important aspects of the field Topics in this volume encompass the most recent data about the physical properties of membrane lipids lipid biosynthesis and metabolism including glycerolipids fatty acids sterols N acylethanolamines prostaglandins phytoprostane lipid storage acyl flux the dynamic and transport of glycerolipids and the conversion of fatty acids into hydrocarbons Lipid metabolism and lipidomics in plants and algae are one of the most challenging areas in biology not only for fundamental research but also for the sustainable production of valuable molecules for green chemistry including biofuel and health Includes sections on fatty acid synthesis lipid storage and hydrocarbon production Covers biophysics biochemistry metabolism and the bioengineering of plant and algae lipids Provides readers with a comprehensive resource on lipid dynamics and fluxes in plants and algae

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