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Phylogeny and Evolution of the Angiosperms The Gymnosperms Evolution of Reproductive Organs in Land Plants Handbook of Flowering Plants of Nepal (Vol. 1 Gymnosperms and Angiosperms: Cycadaceae - Betulaceae) Plant Genomes Gymnosperm (naked seeds plant) : structure and development Objective NCERT Xtract Biology for NEET, AIIMS, Class 11/ 12, JIPMER 5th Edition A Flora of California: Gymnosperms to angiosperms Genetics, Genomics and Breeding of Conifers Study Guide Central Hindu School Entrance Exam 2022 For Class 11 Oswaal 35 Year's NEET UG Solved Papers 1988-2022 + NCERT Textbook Exemplar Biology (Set of 2 Books) (For 2023 Exam) Oswaal 35 Year's NEET UG Solved Papers 1988-2022 + NCERT Textbook Exemplar Physics, Chemistry, Biology (Set of 6 Books) (For 2023 Exam) Oswaal NEET (UG) Mock Test 15 Sample papers + 35 Years Solved Papers Physics, Chemistry & Biology 1988-2022 (Set of 4 books) (For 2023 Exam) Oswaal 35 Years' NEET UG Solved Papers Chapterwise & Topicwise Biology 1988-2022 (For 2023 Exam) Oswaal Topper's Handbook + 35 Years' NEET UG Solved Papers (Set of 6 Books) Physics, Chemistry, Biology 1988-2022 (For 2023 Exam) Non Coding RNAs in Plants Hydrogeology, Chemical Weathering, and Soil Formation Induced Plant Resistance to Herbivory U.S. Geological Survey Professional Paper Phytolith Systematics Stress Physiology of Woody Plants Climate Change and the Microbiome Endangered Flora of California Conifers of the World Prehistoric Life Practical Botany A Textbook of Botany: Angiosperms The Big, Bad Book of Botany The Gymnosperms Handbook Angiosperm Origins On the Germination, Development, and Fructification of the Higher Cryptogamia Student Interactive Workbook for Starr/Evers/Starr's Biology Today and Tomorrow with Physiology The Evolution of Plants Ginkgo Biloba A Global Treasure Plant Molecular Evolution Phenylpropanoid Systems Biology and Biotechnology Coffee A Natural History of Conifers Through the End of the Cretaceous in the Type Locality of the Hell Creek Formation in Montana and Adjacent Areas The Pine Genomes

Endangered Flora of California collects a master list of endangered plants native to California. This book highlights the impact of climate change on the soil microbiome and its subsequent effects on plant health, soil-plant dynamics, and the ecosphere. It also discusses emerging ideas to counteract these effects, e.g., through agricultural applications of functional microbes, to ensure a sustainable ecosystem. Climate change is altering the soil microbiome distributions and thus the interactions in microbiome and plant-soil microorganism. Improvement of our understanding of microbe-microbe and plant-microbe interaction under changing climatic conditions is essential, because the overall impact of these interactions under varying adverse environmental conditions is lacking. This book has been designed to understand the impact of climate change, i.e., mainly salt and drought stress, on the soil microbiome and its impact on plant, yield, and the ecosphere. The book is organized into four parts: The first part reviews the impact of climate change on the diversity and richness of the soil microbiome. The second part addresses effects of climate change on plant health. The third part discusses effects on soil-plant dynamics and functionality, e.g., soil productivity. The final part deals with the effects of climate change on ecosystem functioning and also discusses potential solutions. The book will appeal to students and researchers working in the area of soil science, agriculture, molecular biology, plant physiology, and biotechnology. This textbook presents a comprehensive treatment of Angiosperms by discussing its vital components, Taxonomy, Anatomy, Embryology including Tissue Culture and Economic Botany. Written in a simple and lucid style, it has abundance of relevant illustrations with self-explanatory diagrams. Information on new angiospermic families enhances the utility of the book. It caters primarily to the requirements of undergraduate

students of Botany and would also be a useful source of reference for postgraduate students & candidates appearing for several competitive examinations. "The chapters represent a surge of field and laboratory research activity, illustrating the impacts of new and refined methods and tools. This volume explores geologic and biologic history preserved in the strata bounding the Cretaceous-Paleogene boundary"--Provided by publisher. Get the extra practice you need to succeed in your biology course with this hands-on Student Workbook. Designed to help you master the problem-solving skills and concepts presented in BIOLOGY TODAY AND TOMORROW WITH PHYSIOLOGY, 4th Edition, this practical, easy-to-use workbook reinforces key concepts and promotes skill building. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book is the first comprehensive compilation of the most up-to-date research in the genomics, transcriptomics, and breeding of pine species across Europe, North America, and Australia. With chapters on the state of the reference genomes, transposon function, genome-wide diversity, functional genomics, genomics of disease resistance, genomics of abiotic stress, and genomic selection, this book is a must-read for scientists, breeders, and students of plant genomics. The book contains 12 chapters over 300 pages authored by a group of world-renowned scientists in the field of pine genomics. Pines (Pinus) are the world’s most economically important forest tree species. The recent genome sequencing of several important pine species has paved the way for understanding their complex biology and helps future management and breeding efforts. Latest NEET Question Paper 2022- Fully solved Chapter-wise & Topic-wise Previous Questions to enable quick revision Previous Years’ (1988-2022) Exam Questions to facilitate focused study Mind Map: A single page snapshot of the entire chapter for longer retention Mnemonics to boost memory and confidence Revision Notes: Concept based study material Oswaal QR Codes: Easy to scan QR codes for online content Analytical Report: Unit-wise questions distribution in each subject Two SQPs based on the latest pattern Tips to crack NEET Top 50 Medical Institutes Ranks Trend Analysis: Chapter-wise This plant book aims to help identify all extant gymnosperm plants to genus and family level anywhere in the world. The Gymnosperm Handbook is a practical teaching and identification guide, as well as, a useful reference work to the world's gymnosperms designed for both specialists and non-specialists and from beginner to expert. The book contains: (i) descriptions of all gymnosperm families; (ii) morphological notes for all currently recognised genera; (iii) practical keys to genera for all families; and (iv) over 160 images and illustrations. Interest in this unique plant has grown dramatically over the last 10 years, and this book provides an overview and recent findings concerning cell biology, biochemistry, development, morphology, phylogeny, paleobotany, as well as possible applications in chemistry and medicine. It also covers environmental aspects and the relationship between G. biloba and humans. Thus it will be of wide interest to botanists, horticulturists and scientists working on this attractive and useful plant, and aims to both stimulate further study and contribute to the development of new fields in Ginkgo research. Discusses the origin of life on earth, from the simplest forms to the development of man, including theories of plant and animal evolution. With contributions by internationally reputed researchers in the field, this book presents the implications of the genomic revolution for conifers—promoting a better understanding of the evolution of these organisms as well as new knowledge about the molecular basis of quantitative trait variation. Both of these discoveries play important roles in their domestication. Topics include cytogenetics, patterns of nucleotide diversity, genetic mapping, integration of molecular markers in breeding, transcriptomics, advances in proteomics and metabolomics in gymnosperms, and economic importance. Recent major advances in the field of comparative genomics and cytogenomics of plants, particularly associated with the completion of ambitious genome projects, have uncovered astonishing facets of the architecture and evolutionary history of plant genomes. The aim of this book was to review these recent developments as well as their implications in our understanding of the mechanisms which drive plant diversity. New insights into the evolution of gene functions, gene families and genome size are presented, with particular emphasis on the evolutionary impact of polyploidization and transposable elements. Knowledge on the structure and evolution of plant sex chromosomes, centromeres and microRNAs is reviewed and updated. Taken together, the contributions by internationally recognized experts present a panoramic overview of the structural features and evolutionary dynamics of plant genomes.This volume of Genome Dynamics will provide researchers, teachers and students in the fields of biology and agronomy with a valuable source of current knowledge on plant genomes. This volume is the first in theAdvances in Archaeological and Museum Science series sponsored by the Society for Archaeological Sciences. The purpose of this biennial series is to provide summaries of advances in closely defined topics in archaeometry,

archaeological science, environmental archaeology, preservation technology and museum conservation. The Society for Archaeological Sciences (SAS) exists to encourage interdisci plinary collaboration between archaeologists and colleagues in the natural and physical sciences. SAS members are drawn from many disciplinary fields. However, they all share a common belief that physical science techniques and methods constitute an essential component of archaeological field and laboratory studies. The General Editors wish to express their appreciation to Renee S. Kra and Frances D. Moskovitz of Radiocarbon for their special expertise and assistance in the production of this volume. We also appreciate the contribution of the two reviewers for their excellent comments and suggestions. The General Editor responsible for undertaking the development of this volume was R. E. Taylor. This book addresses the importance woody plants have in agriculture, forestry, and the environment and how various stresses affect their performance. It reviews physiological and molecular responses of woody plants to major environmental stresses and focuses on the mechanisms involved in imparting resistance to stress. Chapters cover basics of plant physiology including plant structure and plant growth, photosynthesis, respiration, plant growth regulation, abiotic and biotic plant stresses including drought, water logging, nutrient deficiency, salinity, chilling, freezing, heat, oxidative stress, and heavy metal toxicity. The 5th Edition of the book Objective NCERT Xtract -Biology for NEET, Class 11 & 12, AIIMS consists of Quality Selected MCQs as per current NCERT syllabus covering the entire syllabus of 11th and 12th standard. The most highlighting feature of the book is the inclusion of a lot of new questions created exactly on the pattern of NCERT. • This book-cum-Question Bank spans through 38 chapters. • The book provides a detailed 2 page Concept Map for Quick Revision of the chapter. • This is followed by 3 types of objective exercises: 1. Topic-wise Concept Based MCQs 2. NCERT Exemplar & Past NEET & AIIMS Questions 3. 15-20 Challenging Questions in Try If You Can Exercise • Detailed explanations have been provided for all typical MCQs that need conceptual clarity. • The book also includes 5 Mock Tests for Self Assessment. This book assures complete syllabus coverage by means of questions for more or less all significant concepts of Biology. In nutshell this book will act as the BEST PRACTICE & REVISION MATERIAL for all PMT entrance exams. Latest NEET Question Paper 2022- Fully solved Chapter-wise & Topic-wise Previous Questions to enable quick revision Previous Years' (1988-2022) Exam Questions to facilitate focused study Mind Map: A single page snapshot of the entire chapter for longer retention Mnemonics to boost memory and confidence Revision Notes: Concept based study material Oswaal QR Codes: Easy to scan QR codes for online content Analytical Report: Unit-wise questions distribution in each subject Two SQPs based on the latest pattern Tips to crack NEET Top 50 Medical Institutes Ranks Trend Analysis: Chapter-wise Latest NEET Question Paper 2022- Fully solved Chapter-wise & Topic-wise Previous Questions to enable quick revision Previous Years' (1988-2022) Exam Questions to facilitate focused study Mind Map: A single page snapshot of the entire chapter for longer retention Mnemonics to boost memory and confidence Revision Notes: Concept based study material Oswaal QR Codes: Easy to scan QR codes for online content Analytical Report: Unit-wise questions distribution in each subject Two SQPs based on the latest pattern Tips to crack NEET Top 50 Medical Institutes Ranks Trend Analysis: Chapter-wise This is a broad but provocative examination of the evolution of plants from the earliest forms of life to the development of our present flora. Taking a fresh, modern approach to a subject often treated very stuffily, the book incorporates many recent studies on the morphological evolution of plants, enlivens the subject with current research on ancient DNA and other biomolecular markers, and places plant evolution in the context of climate change and mass extinction. Also includes special Biome Maps, showing the flora on the Earth's surface at different geological ages. Written for a non-specialist audience. 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. Excerpt from Practical Botany: There are already so many books embodying elementary courses in botany that whoever offers another should give reasons for so doing. As here set forth, the study of plants is related to everyday life more closely than is usually done. Those aspects of plant life are presented which have the largest significance to the public in general, and which are of interest and educative value to beginning students. The book includes the principles of plant nutrition, the relation of plant nutrition to soils and climate and to the food of animals and men; it discusses some of those diseases of plants, animals, and men, which are produced by parasitic plants; the propagation of plants, plant breeding, forestry, and the main uses of plants and plant products are given in an elementary way. The elements of plant life and structure are presented synthetically rather than by use of the special divisions of botanical study, which are more helpful to advanced students than to beginners. It is believed that this mode of treatment stimulates and develops a scientific method of thinking by directing attention to the plant as a living unit and a citizen of the plant world. No attempt is made to include references to such recent discoveries in the field of botany as are botanically significant but not important for elementary instruction. Chapters I and II are so arranged that a student may secure a general introductory appreciation of the significance of plant structure and work. It is intended that Chapter I should be used as a means of raising questions concerning the place of plants in nature. Chapter II presents an outline of the five dominant structures of seed plants, and the kind of work that is done by each. Although they are relative latecomers on the evolutionary scene, having emerged only 135?170 million years ago, angiosperms—or flowering plants—are the most diverse and species-rich group of seed-producing land plants, comprising more than 15,000 genera and over 350,000 species. Not only are they a model group for studying the patterns and processes of evolutionary diversification, they also play major roles in our economy, diet, and courtship rituals, producing our fruits, legumes, and grains, not to mention the flowers in our Valentine’s bouquets. They are also crucial ecologically, dominating most terrestrial and some aquatic landscapes. This fully revised edition of Phylogeny and Evolution of the Angiosperms provides an up-to-date, comprehensive overview of the evolution of and relationships among these vital plants. Incorporating molecular phylogenetics with morphological, chemical, developmental, and paleobotanical data, as well as presenting a more detailed account of early angiosperm fossils and important fossil information for each evolutionary branch of the angiosperms, the new edition integrates fossil evidence into a robust phylogenetic framework. Featuring a wealth of new color images, this highly synthetic work further reevaluates long-held evolutionary hypotheses related to flowering plants and will be an essential reference for botanists, plant systematists, and evolutionary biologists alike. Coffee is one of the most popular drinks in the world but how does the production influence chemistry and quality? This book covers coffee production, quality and chemistry from the plant to the cup. Written by an international collection of contributors in the field who concentrate on coffee research, it is edited expertly to ensure quality of content, consistency and organization across the chapters. Aimed at advanced undergraduates, postgraduates and researchers and accompanied by a sister volume covering how health is influenced by the consumption of coffee, these titles provide an impactful and accessible guide to the current research in the field. Handbook of Flowering Plants of Nepal (Shrestha et al. 2018) is an updated version of 'Enumeration of the Flowering Plants of Nepal Vols. 1-3 (Hara et al. 1978-1982)' and 'Annotated Checklist of Flowering plants of Nepal (Press et al. 2000)' • Arrangement of orders and families, based on relationships on the basis of DNA sequences, according to Angiosperm Phylogeny Group (APG IV, 2016) Whereas, genera and species are arranged in alphabetical order • The book covers basic information on global biodiversity; vegetation, forest types and flora of Nepal • The Handbook of Flowering Plants of Nepal will be published in two volumes Volume 1 comprises 91 families (Cycadaceae – Betulaceae), 696 genera and ca. 3004 taxa (2857 species, 33 subspecies, 113 varieties, and 1 forma) of gymnosperms and flowering plants (nearly 40 percent species of Nepal flora) • It also includes 103 species of exotic species, and 137 species of doubtful or uncertain species • The volume two will comprise remaining species belonging to Coriariaceae–Apiaceae • Additional information includes information on Type specimen of endemic species of Nepal • Similarly, Nepali names, English names, life forms, elevation ranges, and general distribution are provided for each species • Furthermore, economic use values of most of the species (with parts use), and information on species with IUCN Red List category, and CITES Appendices are also provided. “This book represents a major stepping-stone on the pathway in completing the Flora of Nepal, and is an indispensible resource for anyone working on Nepalese plants”. Foreword: Dr. Mark F Watson, Editor-in-Chief, Flora of Nepal Royal Botanic Garden

Edinburgh, UK. The Gymnosperms is a well-illustrated comprehensive account of living and fossil plants of this group. Chapters 1 and 2 give a general account, and describe similarities and dissimilarities with pteridophytes and angiosperms. Chapter 3 deals with classification. The next 18 chapters (4-21) deal sequentially with fossil and living taxa. Phylogenetic relationships are considered for each order. Chapter 22 discusses the in vitro experimental studies on the growth, development and differentiation of vegetative and reproductive organs and tissues. Chapter 23 summarizes the economic importance of gymnosperms. Chapter 24 gives the conciuding remarks. Thus, there is a complete coverage of significant findings concerning morphology, anatomy, reproduction, development of embryo and seed, cytology, and -evolutionary trends and phylogeny. Ultrastructural and histochemical details are given wherever considered necessary. There is a comprehensive list of literature citations, and a plant index. This book is essentially meant for the postgraduate students in India and abroad. Undergraduate students can also use it profitably. The entire course should be taught in 25-30 lectures/hours and about 75 hours of field and laboratory work. 1. Central Hindu School Entrance Test is a complete test guide. 2. Covers entire syllabus for class 11th. 3. Topically divided into 5 sections to provide better understanding. 4. Solved papers and Model papers are given for thorough practice. The book ‘CHS SET’ has been carefully designed to cater the needs of students of class 11th. Encrypted with Chapterwise notes and previous years’ questions, this book divides the entire syllabus into 5 major subjects. Each chapter has been well explained in details to ease the understanding of the concepts. Besides the theory part, this book focuses on practice part as well with latest solved papers to get the insights of the exam pattern, and two model papers for self-assessment. Housed with exam relevant content, this study guide boosts the preparation level and raises the confidence of a student to score better in their exam. TOC Model Solved Paper 2021 (Arts, & Commerce Group), Model Solved Papers 2021 (Maths & Bio Group), Solved paper 2019 (Art & Commerce Group), Solved Papers 2019 (Maths Group), Solved paper 2019 (Bio Group), English, Hindi, Mathematics, Physics, Chemistry, Biology, General Studies. In the most recent years, each of the RNA silencing pathways of plants have appeared to generate ncRNAs with dedicated functions, specialized biological activities and specific functional scopes. RNA silencing plays a crucial role in coordinating the expression, stability, protection and inheritance of eukaryotic genomes. It compromises several mechanisms, that invariably depend on core small non coding RNAs and that achieve dedicated sequence-specific functions. RNA silencing has been recognized to carry critical developmental, stress-response and bodyguard functions be coordinating the expression, protection, stability and inheritance of virtually all eukaryotic genomes. Thus, the ncRNAs encompass a wide set of mechanisms that achieve specialized functions. Explores soil as a nexus for water, chemicals, and biologically coupled nutrient cycling Soil is a narrow but critically important zone on Earth's surface. It is the interface for water and carbon recycling from above and part of the cycling of sediment and rock from below. Hydrogeology, Chemical Weathering, and Soil Formation places chemical weathering and soil formation in its geological, climatological, biological and hydrological perspective. Volume highlights include: The evolution of soils over 3.25 billion years Basic processes contributing to soil formation How chemical weathering and soil formation relate to water and energy fluxes The role of pedogenesis in geomorphology Relationships between climate soils and biota Soils, aeolian deposits, and crusts as geologic dating tools Impacts of land-use change on soils The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals. Find out more about this book from this Q&A with the Editors A compelling account of the extraordinary relatives of ordinary garden conifers. Leading expert Aljos Farjon provides a compelling narrative that observes conifers from the standpoint of the curious naturalist. It starts with the basic question of what conifers are and continues to explore their evolution, taxonomy, ecology, distribution, human uses, and issues of conservation. As the story unfolds many popular misconceptions are dispelled, such as the false notion that all conifers have cones. The extraordinary diversity of conifers begins to dawn as Farjon describes the diminutive creeping shrub Microcachrys tetragona, whose strange seed cones resemble raspberries, and the prehistoric-looking Araucaria meulleri. The taxonomic diversity of conifers is huge and Farjon goes on to relate how, over the course of 300 million years, these trees and shrubs have adapted to survive geological upheavals, climatic extremes, and formidable competition from flowering plants. All who seek to learn more about the early history of life on our planet will cherish this book. Plant molecular biology has produced an ever-increasing flood of data about genes and genomes. Evolutionary biology and systematics provides the context for synthesizing this information. This book brings together contributions from

evolutionary biologists, systematists, developmental geneticists, biochemists, and others working on diverse aspects of plant biology whose work touches to varying degrees on plant molecular evolution. The book is organized in three parts, the first of which introduces broad topics in evolutionary biology and summarizes advances in plant molecular phylogenetics, with emphasis on model plant systems. The second segment presents a series of case studies of gene family evolution, while the third gives overviews of the evolution of important plant processes such as disease resistance, nodulation, hybridization, transposable elements and genome evolution, and polyploidy. Researched for more than three decades, this definitive work provides up-to-date descriptions of all the true conifers of the world, including 545 species of trees and shrubs. Written for accessibility to both horticultural and botanical audiences, it is the first comprehensive update of conifer taxonomy in nearly a century. Noted conifer taxonomist James E. Eckenwalder also discusses the relationships among the groups, practical usages, champion trees, fossil occurrences, and biology. New identification guides for the families and genera are based whenever possible on foliage features and thus should be easier to use than traditional conifer keys, which focus on seasonal, and often microscopic, cone characters. Eckenwalder shares the reasoning behind his taxonomic decisions, many of which are unique to this book, reflecting a comprehensive reevaluation of conifer classification. He also outlines the features sought in cultivars of each genus, particular cultivation concerns, and conifers recommended for cultivation under various conditions and to achieve different effects. Some 3,000 cultivars have been available in recent times, more than five times the total number of conifer species. Several hundred original illustrations include drawings of the seed cones for all genera as well as for representative species. Maps of the natural distribution of each genus allow for easy comparison of ranges. Handsome black-and-white photographs of species in their natural habitats and attractive color photos further enrich the volume. More than 100 images reproduce foliage of many genera as an aid in identification. With its unprecedented attention to detail and extensive bibliography, this major work is an essential reference for botanists, naturalists, and horticulturists. Latest NEET Question Paper 2022- Fully solved Chapter-wise & Topic-wise Previous Questions to enable quick revision Previous Years' (1988-2022) Exam Questions to facilitate focused study Mind Map: A single page snapshot of the entire chapter for longer retention Mnemonics to boost memory and confidence Revision Notes: Concept based study material Oswaal QR Codes: Easy to scan QR codes for online content Analytical Report: Unit-wise questions distribution in each subject Two SQPs based on the latest pattern Tips to crack NEET Top 50 Medical Institutes Ranks Trend Analysis: Chapter-wise • Chapter-wise and Topic-wise presentation • Latest NEET Question Paper 2022- Fully solved • Chapter-wise & Topic-wise Previous Questions to enable quick revision • Previous Years' (1988-2022) Exam Questions to facilitate focused study • Mind Map: A single page snapshot of the entire chapter for longer retention • Mnemonics to boost memory and confidence • Revision Notes: Concept based study material • Oswaal QR Codes: Easy to scan QR codes for online content • Analytical Report: Unit-wise questions distribution in each subject • Two SQPs based on the latest pattern • Tips to crack NEET • Top 50 Medical Institutes Ranks • Trend Analysis: Chapter-wise The great diversity of land plants (especially angiosperms) is mainly reflected in the diversity of various reproductive organs of plants. However, despite long time intensive investigations, there are still uncertainties and sometimes misunderstandings over the nature and evolution of reproductive organs in land plants. With the new advances made in various fields of botany (especially at molecular level), there is increasing light shed on some aspects of flowers (reproductive organs of angiosperms). In this ebook, we collect 15 papers reporting new understanding on plant reproductive organs. These works range from morphology and anatomy to molecular regulatory networks underlying traditional observations. We understand this single book cannot reach our goal, but we do hope that this book can contribute to or initiate some efforts leading to the final solution of some problems concerning the homology and evolution of reproductive organs in plants. This timely book provides an overview of the anatomical, chemical, and developmental features contributing to plant defense, with an emphasis on plant responses that are induced by wounding or herbivore attack. The book first introduces general concepts of direct and indirect defenses, followed by a focused review of the different resistance traits. Finally, signal perception and transduction mechanism for the activation of plant defense responses are discussed.

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