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The edited book highlights comprehensive studies on plant diversity dynamics, ecosystem processes, and best conservation practices from the interdisciplinary perspectives such as the botanists, ecologists, conservation biologists, geneticists, cell biologists, molecular biotechnologists, and social scientists. The main focus of the book is to address biodiversity loss and ecosystem collapse amidst the escalating climate change problems, aggravated by anthropogenic activities in biocultural landscapes. The book describes the biocultural landscape of today, ecology of plant diversity, botany of keystone and other rare species of economic and pharmaceutical significance, ecosystem processes, conservation, and emerging frameworks to sustain biocultural landscapes in the Anthropocene. Biocultural landscapes are tracks of land in many parts of the world, shaped by unique human-nature interactions. Many of these landscapes are populated with indigenous peoples with a unique way of life including their interaction with plants and the environment. The relationship between humans and nature in biocultural landscapes used to be harmonious. However, as the human population surges, much pressure has been experienced by the landscape, hence, the loss of biodiversity and degradation of ecosystem services that cascade to agricultural systems. The book is of interest to teachers, professors, policymakers, researchers, and advocates in the fields of botany, ecology, taxonomy, biodiversity conservation, environmental science, molecular biology and genomics, molecular ecology, agriculture, and Agri-tourism, forestry, social science, and climate change professionals. Also, the book serves as a good reference and additional reading material for undergraduate and graduate students. This latest volume in Wiley Blackwell's prestigious Annual Plant Reviews brings together articles that describe the biochemical, genetic, and ecological aspects of plant interactions with insect herbivores.. The biochemistry section of this outstanding volume includes reviews highlighting significant findings in the area of plant signalling cascades, recognition of herbivore-associated molecular patterns, sequestration of plant defensive metabolites and perception of plant semiochemicals by insects. Chapters in the genetics section are focused on genetic mapping of herbivore resistance traits and the analysis of transcriptional responses in both plants and insects. The ecology section includes chapters that describe plant-insect interactions at a higher level, including multitrophic interactions, investigations of the cost-benefit paradigm and the altitudinal niche-breadth hypothesis, and a re-evaluation of co-evolution in the light of recent molecular research. Written by many of the world's leading researchers in these subjects, and edited by Claudia Voelckel and Georg Jander, this volume is designed for students and researchers with some background in plant molecular biology or ecology, who would like to learn more about recent advances or obtain a more in-depth understanding of this field. This volume will also be of great use and interest to a wide range of plant scientists and entomologists and is an essential purchase for universities and research establishments where biological sciences are studied and taught. To view details of volumes in Annual Plant Reviews, visit: www.wiley.com/go/apr Also available from Wiley: Plant Defense Dale Walters 9781405175890 Herbicides and Plant Physiology, 2nd Edn

Andrew Cobb & John Reade 9781405129350 A textbook for undergraduate students which considers the diversity of plants, how they function, and the central role they play in our ecosystem. Annotation copyrighted by Book News, Inc., Portland, OR The first edition of Tropical Rain Forests: an Ecological and Biogeographical Comparison exploded the myth of 'the rain forest' as a single, uniform entity. In reality, the major tropical rain forest regions, in tropical America, Africa, Southeast Asia, Madagascar, and New Guinea, have as many differences as similarities, as a result of their isolation from each other during the evolution of their floras and faunas. This new edition reinforces this message with new examples from recent and on-going research. After an introduction to the environments and geological histories of the major rain forest regions, subsequent chapters focus on plants, primates, carnivores and plant-eaters, birds, fruit bats and gliding animals, and insects, with an emphasis on the ecological and biogeographical differences between regions. This is followed by a new chapter on the unique tropical rain forests of oceanic islands. The final chapter, which has been completely rewritten, deals with the impacts of people on tropical rain forests and discusses possible conservation strategies that take into account the differences highlighted in the previous chapters. This exciting and very readable book, illustrated throughout with color photographs, will be invaluable reading for undergraduate students in a wide range of courses as well as an authoritative reference for graduate and professional ecologists, conservationists, and interested amateurs. Biological Approaches and Evolutionary Trends in Plants ... India has a vast landmass of 328 million hectares, extending from the tropics to the alpine regions, rich wetlands to deserts, islands, long coastline to Western and Eastern Ghats and the high Himalayas. It has equally rich and diverse plant diversity, with over 47,000 species that are already documented. Because of the large population dependence on these plants, expansion of agriculture, urbanization and development efforts, many species are threatened too. Some of the issues concerning plant diversity in India are unique to the country. Taxonomic and floristic studies on all major groups have been carried out but the information is scattered in research papers and regional/local floras, manuals and monographs. This volume intends to bridge this gap. Nine of the thirteen chapters of this volume deals with different plant groups extending from algae to angiosperms and allied groups such as bacteria, fungi, lichens, and myxomycetes. There are chapters dealing with topical issues in global context on biodiversity with special reference to India such as climate change and its impact on biodiversity, crop diversity, and tradomedicalism. Each chapter is written by author(s) specialising on the particular group and having long experience of research in it. Each chapter includes not only distribution and diversity but also major researches, economic uses and conventional human interactions. Lacunae in current knowledge are also pinpointed. The book provides information on ecosystem diversity, flora of special sensitive regions (mangroves, wetland, and coral reefs), and on policies and strategies being adopted for in situ and ex situ conservation. The depletion of biodiversity is an alarming problem all over the country. The world conservation strategy suggests that the initial effort of biodiversity conservation should aim at establishment and maintenance of a network of protected area systems by making policy changes involving local people in the protected areas management and mobilising financial resources for their conservation and protection. The problem of biodiversity conservation has become a global issue. It is being realised that forests existing in a country is not a resource just for that country, but for the whole of the world. The Amazoian Rain Forests have been called the Lungs of the World as they serve to purity of the global atmosphere by release of oxygen and absorption of Pollutants. The rate of deforestation is several times higher in the developing countries than the developed countries, as the forests are being felled to generate funds and space for development. The total number of species in the world is estimated to be around 5 to 30 million but of which about 1.4 millions species have been described. The total number of plant species in India is estimated to be about 45,000 (15,000 flowering plants, 64 gymnosperms, 2843 bryopthes, 1042 pteriodophytes, 1940 lichans and 23,000 fungi). Nearly 4900 of those species are endemic to India out of which 1500 are highly threatened (MOEF, 1994). Contents Chapter 1: Plant biodiversity; Chapter 2: Phyto sociological region of india; Chapter 3: Phyto sociological region of the trans-himalaya; Chapter 4: Phyto sociological region of the west himalaya; Chapter 5: Phyto sociological

region of the eastern himalaya; Chapter 6: Phyto sociological region of north-east india; Chapter 7: Phyto sociological region of the indian desert; Chapter 8: Phto sociological region of the semi-aridzone; Chapter 9: Phyto sociological region of the gangetic plains; Chapter 10: Phyto sociological region of the western ghats; Chapter 11: Phyto sociological region of the deccan peninsula; Chapter 12: Phyto sociological region of the indian coasts; Chapter 13: Phyto sociological regions of andaman and nicobar islands; Chapter 14: Phyto sociological region of the lakshadeep islands; Chapter 15: Aquatic and wetland vegetation; Chapter 16: Weed and aliens; Chapter 17: Taxonomy: A view; Chapter 18: Angiosperms; Chapter 19: Gymnosperms; Chapter 20: Pteriodophytes; Chapter 21: Bryophytes; Chapter 22: Algae; Chapter 23: Ecology and distribution of the marine forms; Chapter 24: Fungi; Chapter 25: Lichens; Chapter 26: Botanical regions of india and their floristic compositions; Chapter 27: Some alien flowering plants. Presenting sampling approaches, designs and field techniques for measuring plant diversity, this book lays out a range of methods for mapping and measuring species diversity. Explores the diversity and natural history of green plants throughout the world. Plants provide a source of survival for all life on this planet. They are able to capture solar energy and convert it into food, feed, wood and medicines. Though sessile in nature, over many millions of years, plants have diversified and evolved from lower to higher life forms, spreading from sea level to mountains, and adapting to different ecozones. They have learnt to cope with challenging environmental conditions and various abiotic and biotic factors. Plants have also developed systems for monitoring the changing environment and efficiently utilizing resources for growth, flowering and reproduction, as well as mechanisms to counter the impact of pests and diseases and to communicate with other biological systems, like microbes and insects. This book discusses the “awareness” of plants and their ability to gather information through the perception of environmental cues, such as light, gravity, water, nutrients, touch and sound, and stresses. It also explores plants’ biochemical and molecular “computing” of the information to adjust their physiology and development to the advantage of the species. Further, it examines how plants communicate between their different organs and with other organisms, as well as the concepts of plant cognition, experience and memory, from both scientific and philosophical perspectives. Lastly, it addresses the phenomenon of death in plants. The epilogue presents an artist’s view of the beauty of the natural world, especially plant “architecture”. The book provides historical perspectives, comparisons with animal systems where needed, and general biochemical and molecular concepts and themes. Each chapter is selfcontained, but also includes cross talk with other chapters to offer an integrated view of plant life and allow readers to appreciate and admire the functioning of plant life from within and without. The book is a tribute by the Editor to his students, colleagues and co-workers and to those in whose labs he has worked. Environmental and specific diversity in the Chihuahuan desert in general, and in the Cuatro Ci é negas Basin in particular, has long been recognized as outstanding. This book provides a global ecological overview, together with in-depth studies of specific processes. The Chihuahuan desert is the warmest in North America, and has a complex geologic, climatic and biogeographical history, which affects today’s distribution of vegetation and plants and generates complex phylogeographic patterns. The high number of endemic species reflects this complex set of traits. The modern distribution of environments, including aquatic and subaquatic systems, riparian environments, gypsum dunes and gypsum-rich soils, low levels of phosphorous and organic matter, and high salinity combined with an extreme climate call for a range of adaptations. Plants are distributed in a patchy pattern based on punctual variations, and many of them respond to different resources and conditions with considerable morphological plasticity. In terms of physiological, morphological and ecological variability, cacti were identified as the most important group in specific environments like bajadas, characterized by high diversity values, while gypsophytes and gypsovagues of different phylogenies, including species with restricted distribution and endemics. The central theme of Green Plants is the astonishing diversity of forms found in the plant kingdom. The book is arranged according to generally accepted classification schemes, beginning with prokaryotic and eukaryotic algae and moving through mosses, liverworts, fern allies, ferns and gymnosperms to flowering plants. Copiously illustrated throughout, it provides a concise account of all algae and land

plants, with information on topics from cellular structure to life cycles and reproduction. The authors include newly emerging information on features of plants known only as fossils. This new edition has been completely updated to reflect current views on the origin of the major plant groups. This book surveys the world's green plant diversity, from green algae through flowering plants, in a taxonomic and evolutionary context. Biodiversity. This book in the series “Sustainable Development and Biodiversity” contains peer-reviewed chapters from leading academicians and researchers around the world in the field of horticulture, plant taxonomy, plant biotechnology, genetics and related areas of biodiversity science centered on genetic diversity. This book includes original research reviews (national, regional and global) and case studies in genetic diversity in fruits and vegetables, horticulture, and ecology from sub-tropical and tropical regions. It is unique as it covers a wide array of topics covering global interests and will constitute valuable reference material for students, researchers, extension specialists, farmers and certification agencies who are concerned with biodiversity, ecology and sustainable development. Discusses the various options for conserving plants at the level of the gene, species and community. A pioneering work, Species Diversity in Ecological Communities looks at biodiversity in its broadest geographical and historical contexts. For many decades, ecologists have studied only small areas over short time spans in the belief that diversity is regulated by local ecological interactions. However, to understand fully how communities come to have the diversity they do, and to properly address urgent conservation problems, scientists must consider global patterns of species richness and the historical events that shape both regional and local communities. The authors use new theoretical developments, analyses, and case studies to explore the large-scale mechanisms that generate and maintain diversity. Case studies of various regions and organisms consider how local and regional processes interact to determine patterns of species richness. The contributors emphasize the fact that ecological processes acting quickly on a local scale do not erase the effects of regional and historical events that occur more slowly and less frequently. This book compels scientists to rethink the foundations of community ecology and sets the stage for further research using comparative, experimental, geographical, and historical data. Ecologists interested in assessing landscapes and ecosystems must measure biomass, cover, and the density or frequency of various key species. Recently, sampling designs for measuring species richness and diversity, patterns of plant diversity, species-environment relationships, and species distributions have become fine-grained, as it has become increasingly important to accurately map and assess rare species for conservation. This book lays out the range of current methods for mapping and measuring species diversity, for field ecologists, resource managers, conservation biologist, and students, as a tool kit for future measurements of plant diversity. A unique account of the structure, biology and evolution of tropical flowering plants. Great progress has been made in our understanding of pollen-pistil interactions and self-incompatibility (SI) in flowering plants in the last few decades. This book covers a broad spectrum of research into SI, with accounts by internationally renowned scientists. It comprises two sections: Evolution and Population Genetics of SI, Molecular and Cell Biology of SI Systems. The reader will gain an insight into the diversity and complexity of these polymorphic cell-cell recognition and rejection systems. Heteromorphic and homomorphic SI systems and our current understanding of the evolution and phylogeny of these systems, based on the most recent molecular sequence data, are covered. Further, the book presents major advances in our knowledge of the pistil and pollen S-determinants and other unlinked components involved in SI, as well as the apparently diverse cellular regulatory mechanisms utilised to ensure inhibition of “self” pollen. Green Plants is a totally revised edition of the earlier Diversity of Green Plants by P. R. Bell and C. L. F. Woodcock. This new revision documents the latest information about the most exciting advances in the relevant fields of botanical science. The theme of the book is the remarkable diversity of form which has followed from the phenomenon of photosynthesis and the fixation of atmospheric carbon. The author's detailed treatment spans the full scope of the plant kingdom, extending from the simplest unicellular organisms to the complexity represented by the flowering plants. Information on the essential features of plants known only from the fossil record is also included. This complete and compact survey of all green plants will provide a tremendous resource for all students of botany. This exciting new textbook

examines the concepts of evolution as the underlying cause of the rich diversity of life on earth-and our danger of losing that rich diversity. Written as a college textbook, The Diversity and Evolution of Plants introduces the great variety of life during past ages, manifested by the fossil record, using a new natural classification system. It begins in the Proterozoic Era, when bacteria and bluegreen algae first appeared, and continues through the explosions of new marine forms in the Helikian and Hadrynian Periods, land plants in the Devonian, and flowering plants in the Cretaceous. Following an introduction, the three subkingdoms of plants are discussed. Each chapter covers one of the eleven divisions of plants and begins with an interesting vignette of a plant typical of that division. A section on each of the classes within the division follows. Each section describes where the groups of plants are found and their distinguishing features. Discussions in each section include phylogeny and classification, general morphology, and physiology, ecological significance, economic uses, and potential for research. Suggested readings and student exercises are found at the end of each chapter. The algae, fungi, mosses, lichens and liverworts, collectively known as lower plants, are the unsung heroes of natural history. This text includes 26 articles covering the diversity of algae, cyanobacteria, bacteria, pathogenic bacteria, fungi, lichens, bryophyte, and pteridophte. The contributors are internationally acknowledged experts in their field. This book provides a general overview of the natural landscapes and vegetation types of the U.S., the key plant species that help define them, the pressures faced by natural ecosystems and the imperative for conservation and restoration. It addresses the policies that have been introduced to manage healthy ecosystems and the practical progress that is being made in restoration. A particular focus is on the production of diverse native plant materials currently required by the National Seed Strategy. Case studies demonstrate how native plant materials are essential to support the conservation of healthy ecosystems with their biodiversity and functions as well as supporting a productive and sustainable agricultural sector and healthy ecosystems for all. The authors are closely connected with major national and international networks of botanic gardens, ecologists and conservation scientists at Board level and through other professional links. Condensing a wide range of current information into a concise format, this book fills a need by experts and informed amateurs interested in the natural environment, including gardeners, botanic garden and protected area visitors, government agencies, the private sector native seed industry, and NGOs. Today’s plants are descended from simple algaes that first emerged more than 500 million years ago, and now there are around 400,000 species. The huge diversity of forms that that these plants take is staggering. From towering redwoods, to diminutive mosses; from plants that developed stinging hairs and poisons, to those that require fire to germinate tor ocean currents to dsitribute their seeds. But how have we arrived at this mind-blowing variety in the plant kingdom? How Plants Work seeks to answer this intriguing question, drawing from a wide range of examples—from the everyday leaf to the most bizarre flowers. "This book is based on 'Diversitae fonctionnelle des Plantes - Traits des Organismes, Structure des Communautaes, Propriaetaes des Ecosystaemes' authored by Eric Garnier and Marie-Laure Navas, and published in 2013 by De Boeck. It has been substantially enriched compared to the French version, and some chapters have been extensively revised and completed"--Page vii.

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