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-3,4,5 Diversity and Evolution of Land Plants The plant kingdom
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Landscapes Plant Diversity: Cells and Tissues The Role of Plant
Diversity in the Functioning of Ecosystems Plant Diversity Diversity
and Evolutionary Biology of Tropical Flowers Convergence and
Diversity : Native Plants of South Central Texas Genetic Diversity in
Horticultural Plants Biogeography of Mycorrhizal Symbiosis Ecology
and Conservation of Mountaintop grasslands in Brazil Demons in Eden
Measuring Plant Diversity Self-Incompatibility in Flowering Plants***

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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 self-contained, 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. Biodiversity. 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. This book surveys the world's green plant diversity, from green algae through flowering plants, in a taxonomic and evolutionary context.

1. VIRUSES
2. GENERAL ACCOUNT OF BACTERIOPHAGE
3. BACTERIAL STRUCTURE, NUTRITION, REPRODUCTION AND ECONOMIC IMPORTANCE
4. GENERAL ACCOUNT OF MYCOPLASMA
5. GENERAL ACCOUNT OF CYANOBACTERIA AND ACTINOMYCETES
6. APPLICATION OF MICROBIOLOGY
7. SOME IMPORTANT PLANT DISEASES
8. ALGAE [General Characteristics, Classification and Economic Importance of Algae]
9. CHLOROPHYTA : GREEN ALGAE : VOLVOX AND OEDOGONIUM
10. CHAROPHYCEAE : Chara
11. XANTHOPHYCEAE : GREEN - YELLOW ALGAE : Vaucheria
12. PHAEOPHYCEAE : BROWN ALGAE : Ectocarpus
13. RHODOPHYCEAE : RED ALGAE : Polysiphonia
14. A GENERAL ACCOUNT, STRUCTURE, REPRODUCTION, CLASSIFICATION AND ECONOMIC IMPORTANCE OF FUNGI
15. OOMYCETES AND ZYGOMYCETES
16. ASCOMYCETES : YEAST AND PEZIZA
17. BASIDIOMYCETES : PUCCINIA
18. DEUTEROMYCETES : ALTERNARIA
19. GENERAL ACCOUNT OF LICHENS
20. GENERAL CHARACTERS AND CLASSIFICATION OF BRYOPHYTA
21. HEPATICOPSIDA : RICCIA AND MARCHANTIA
22. ANTHOCEROTOPSIDA : ANTHOCEROTALES : Anthoceros
23. BRYOPSISIDA : POLYTRICHALES : Polytrichum
24. PTERIDOPHYTA [Important Characters and Classification of Pteridophyta]
25. STELAR ORGANIZATION IN PTERIDOPHYTA
26. PSILOPHYTOPSIDA : PSILOPHYTALES : Rhynia
27. LYCOPSISIDA : LYCOPODIALES : Lycopodium
28. LYCOPSISIDA : SELAGINELLELES: Selaginella
29. SPHENOPSISIDA : EQUISETALES: Equisetum
30. PTERIDOPSISIDA : MARSILEALES: Marsilea [Leptosporangiopsida-Marsileales-Marsileaceae]

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. "This fascinating and richly illustrated book reintroduces us to the world of plants and the intricacies of their existence, including how they live, grow and reproduce. It is an intimate, close-up portrait that deepens our understanding of the commonplace and the exotic. At the same time, it reveals the beauty of plants in new ways. The diversity of plants is brought to life through exemplars that engage, and through insights that enrich. To borrow a phrase from Darwin, there is grandeur in this view of plants. I am sure you will enjoy it." --Avant-propos. 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. 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 pteridophyte. The contributors are internationally acknowledged

experts in their field. At the heart of evolution lies a bewildering paradox. Natural selection favors above all the individual that leaves the most offspring—a superorganism of sorts that Jonathan Silvertown here calls the "Darwinian demon." But if such a demon existed, this highly successful organism would populate the entire world with its own kind, beating out other species and eventually extinguishing biodiversity as we know it. Why then, if evolution favors this demon, is the world filled with so many different life forms? What keeps this Darwinian demon in check? If humankind is now the greatest threat to biodiversity on the planet, have we become the Darwinian demon? Demons in Eden considers these questions using the latest scientific discoveries from the plant world. Readers join Silvertown as he explores the astonishing diversity of plant life in regions as spectacular as the verdant climes of Japan, the lush grounds of the Royal Botanical Gardens at Kew, the shallow wetlands and teeming freshwaters of Florida, the tropical rainforests of southeast Mexico, and the Canary Islands archipelago, whose evolutionary novelties—and exotic plant life—have earned it the sobriquet "the Galapagos of botany." Along the way, Silvertown looks closely at the evolution of plant diversity in these locales and explains why such variety persists in light of ecological patterns and evolutionary processes. In novel and useful ways, he also investigates the current state of plant diversity on the planet to show the ever-challenging threats posed by invasive species and humans. Bringing the secret life of plants into more colorful and vivid focus than ever before, Demons in Eden is an empathic and impassioned exploration of modern plant ecology that unlocks evolutionary mysteries of the natural world. This book offers a timely overview and synthesis of biogeographic patterns of plants and fungi and their mycorrhizal associations across geographic scales. Written by leading experts in the field, it provides an updated definition of mycorrhizal types and establishes the best practices of modern biogeographic analyses. Individual chapters address the basic processes and mechanisms driving community ecology, population biology and dispersal in mycorrhizal fungi, which differ greatly from these of prokaryotes, plants and animals. Other chapters review the state-of-the-art knowledge about the distribution, ecology and biogeography of all mycorrhizal types and the most important fungal groups involved in mycorrhizal symbiosis. The book argues that molecular methods have revolutionized our understanding of the

ecology and biogeography of mycorrhizal symbiosis and that rapidly evolving high-throughput identification and genomics tools will provide unprecedented information about the structure and functioning of mycorrhizal symbiosis on a global scale. This volume appeals to scientists in the fields of plant and fungal ecology and biogeography. Plant Diversity in Agroecosystems and Agricultural Landscapes. 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 is a pioneer attempt to bring forward the first synthesis on the most diverse and threatened mountain top vegetation of South America, the rupestrian grasslands. It brings to light the state of the art information on this ecosystem geology, soil formation and distribution, environmental filters that lead to biodiversity, species interactions and their fine tuned adaptations to survive the harsh mountain environment. The human dimensions of the rupestrian grassland are also addressed, including the anthropogenic threats that may irreversibly impact biodiversity and ecosystem services. The book also highlights the ongoing studies on ecological restoration and first attempt to model the impacts of climate change on its speciose biota. Explores the diversity and natural history of green plants throughout the world. A unique account of the structure, biology and evolution of tropical flowering plants. Here is a thorough presentation and critique of the sampling approaches, designs and field techniques for measuring plant diversity. 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 finer-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 biologists, and students, as a tool kit for future field measurements of plant diversity.

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