Plant Conservation And Biodiversity 1st Edition

#plant conservation #biodiversity #environmental protection #ecology book #species preservation

Delve into the crucial subjects of plant conservation and biodiversity with this foundational 1st Edition. This resource offers comprehensive insights into the urgent need for environmental protection, exploring practical strategies for species preservation and safeguarding vital ecosystems. An essential ecology book for students, researchers, and anyone passionate about nature conservation.

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The Conservation of Plant Biodiversity

Discusses the various options for conserving plants at the level of the gene, species and community.

Ex Situ Plant Conservation

Faced with widespread and devastating loss of biodiversity in wild habitats, scientists have developed innovative strategies for studying and protecting targeted plant and animal species in "off-site" facilities such as botanic gardens and zoos. Such ex situ work is an increasingly important component of conservation and restoration efforts. Ex Situ Plant Conservation, edited by Edward O. Guerrant Jr., Kayri Havens, and Mike Maunder, is the first book to address integrated plant conservation strategies and to examine the scientific, technical, and strategic bases of the ex situ approach. The book examines where and how ex situ investment can best support in situ conservation. Ex Situ Plant Conservation outlines the role, value, and limits of ex situ conservation as well as updating best management practices for the field, and is an invaluable resource for plant conservation practitioners at botanic gardens, zoos, and other conservation organizations; students and faculty in conservation biology and related fields; managers of protected areas and other public and private lands; and policymakers and members of the international community concerned with species conservation.

Plant Ecology and Conservation

Plant Ecology & Conservation is an introduction to the world of plant ecology. It includes the main areas of current research including ideas about plant populations, nutrition and plant community ecology and has a particular emphasis on the interactions of plants with animals, fungi and microorganisms whose important is being increasingly demonstrated. With the world's environmental problems having such a high profile, the book focusses on the human impact on the world's plant species. Conservation of the terrestrial world starts with plants as they form the basis of all ecosystems on land. We can only understand how best to conserve the world's biodiversity with an understanding of the central role of plant ecology. This theme runs throughout with numerous examples of the disruption of ecosystems

by human activity emphasising the connection between plant ecology and conservation. Key Features: Boxes present case studies, important statistics and interesting asides Full-colour photos depict key species and habitats and superb line drawings illustrate many concepts Important data are presented in Tables and Figures throughout Each chapter has Key Concepts and review questions to test a reader's grasp of the content Key References and Further Reading are given for each chapter to point the reader towards the most important and influential literature Jargon is kept to a minimum and a full Glossary of all technical terms is presented The book is aimed primarily at undergraduate and graduate students in any aspect of ecology or plant science. It should also appeal to anyone interested in how plants function and are concerned about what is needed for the conservation of the world's ecosystems.

Plant Conservation and Biodiversity

Original studies address key aspects of the conservation and biodiversity of plants. Articles are all peer-reviewed primary research papers, contributed by leading biodiversity researchers from around the world. Collectively, these articles provide a snapshot of the major issues and activities in global plant conservation. Many of the articles can serve as excellent case studies for courses in ecology, restoration, biodiversity, and conservation.

In Situ Conservation of Wild Plant Species

In this, the latest in the People and Plants series, plant conservation is described in the context of livelihoods and development, and ways of balancing the conservation of plant diversity with the use of plants and the environment for human benefit are discussed. A central contention in this book is that local people must be involved if conservation is to be successful. Also examined are ways of prioritizing plants and places for conservation initiatives, approaches to in situ and ex situ conservation, and how to approach problems of unsustainable harvesting of wild plants. Roles for botanists, foresters, sociologists, development workers and others are discussed. This book acts as a unifying text for the series, integrating case studies and methodologies considered in previous volumes and pointing out in a comprehensive, accessible volume the valuable lessons to be learned.

Plant Conservation

Only a green world, rich in plants, can sustain us and the millions of other species with which we share this planet. But, in an era of global change, nature is on the retreat. Like the communities they form, many plant species are becoming rarer, threatened even to the point of extinction. The worldwide community of almost three thousand botanic gardens are holders of the most diverse living collections of plants and have the unique potential to conserve plant diversity. Conservation biology is a fast moving and often controversial field, and, as the contributions within these pages from experts in the field demonstrate, plant conservation is multifaceted, mirroring the complexity of the biodiversity it aims to protect, and striving not just to protect threatened plants but to preserve ecosystem services and secure the integrity of the biosphere.

Plant Conservation Science and Practice

Commissioned by the World Wide Fund for Nature and IUCN - The World Conservation Union as part of their joint endeavor of "building the capacity to conserve," this work by David R. Given elucidates the concepts that underlie successful conservation efforts. Drawing on his own work and involving international collaboration, the author also presents a large number of real-life case studies that illustrate the principles of conservation in action. Chapters are devoted to the natural - and unnatural - causes of plant rarity and endangerment, and the management of plant populations in natural habitats, in modified landscapes, and off-site to preserve germplasm. Going beyond the biology of conservation, other chapters are devoted to the ethical, educational, and economic aspects of plant conservation. Cyrille de Klemm, an expert on international law, has contributed a chapter on conservation legislation.

Principles and Practice of Plant Conservation

First Published in 2006. Routledge is an imprint of Taylor & Francis, an informa company.

Plant Conservation

Highlights the key role played by taxonomy in the conservation and sustainable utilisation of plant biodiversity.

Taxonomy and Plant Conservation

Crop wild relatives (CWR) are species closely related to crop plants which can contribute beneficial traits such as pest or disease resistance and yield improvement. Through an examination of national, regional and global context of CWR, this text presents methodologies and case studies that provide recommendations for global conservation and use.

Crop Wild Relative Conservation and Use

This is the first volume in the new multi-volume set, Global Biodiversity. Each volume in this series aims to provide insightful information on the biodiversity of selected nations in particular regions. The volumes summarize the available data on both wild and cultivated plants, wild and domesticated animals, and microbes of the different nations. Global Biodiversity, Volume 1: Selected Countries in Asia focuses on selected countries of Asia, providing an abundance of biodiversity information on Afghanistan, Bangladesh, India, Indonesia, Iran, Iraq, Japan, Lebanon, Malaysia, Mongolia, Myanmar, Nepal, and Vietnam. The first chapter in the volume provides an informative overview of what is biodiversity along with biogeographic classifications. It provides explanations of biodiversity patterns and species number; biodiversity conservation, protection, and international commitments and cooperation; biodiversity threats and drivers of change (such as human population growth, climate change, land use change); and the economics of biodiversity as well.

Global Biodiversity

This fourth volume in the new multi-volume set Global Biodiversity is a rich resource on the biodiversity of a selection of countries in the Americas and in Australia. Chapters explore both wild and cultivated plants, wild and domesticated animals, and the variety of microbes of the countries of Bolivia, Brazil, Canada, Costa Rica, Cuba, Ecuador, Honduras, Mexico, Australia, Paraguay, the United States, and Venezuela. The different chapters explore the geographical status, ecosystem diversity, species diversity, genetic diversity, and conservation efforts in each selected country. They focus on genetic diversity of crop plants/cultivated plants and domesticated animals and their wild relatives and also discuss the endangered and protected plants and animals of the respective counties. Other volumes in this series include coverage of selected countries in Asia, Europe, and Africa. The volumes provide an informative compilation on the variety and variability of life in the regions discussed and will help to fill the gap in knowledge while also encouraging the conservation of biodiversity and sustainable utilization.

Global Biodiversity

Annotation Faced with widespread and devastating loss of biodiversity in wild habitats, scientists have developed innovative strategies for studying and protecting targeted plant and animal species in "off-site" facilities such as botanic gardens and zoos. Such ex situ work is an increasingly important component of conservation and restoration efforts. Ex Situ Plant Conservation, edited by Edward O. Guerrant Jr., Kayri Havens, and Mike Maunder, is the first book to address integrated plant conservation strategies and to examine the scientific, technical, and strategic bases of the ex situ approach. The book examines where and how ex situ investment can best support in situ conservation. Ex Situ Plant Conservation outlines the role, value, and limits of ex situ conservation as well as updating best management practices for the field, and is an invaluable resource for plant conservation practitioners at botanic gardens, zoos, and other conservation organizations; students and faculty in conservation biology and related fields; managers of protected areas and other public and private lands; and policymakers and members of the international community concerned with species conservation.

Ex Situ Plant Conservation

This colourful textbook introduces students to conservation biology, the science of preserving biodiversity.

Conservation Biology

The rate of species and natural habitat loss across our planet is steadily accelerating. This book argues that existing practises of plant conservation are inadequate and firmly supports the placement of ecological restoration at the cornerstone of biodiversity conservation. The author unifies different aspects of conservation into one coherent concept, including natural area protection, ex situ conservation and in situ interventions through either population management or ecological restoration. Assisted colonization, experimentation, and utilization of threatened plant species are raised as crucial elements in restoration, with partly novel ecosystems being among its major target areas. Covering a wide spectrum of plant conservation examples, and offering practical methodologies alongside the theoretical context, this is a vital resource for students, research scientists and practitioners in conservation biology and restoration ecology.

Plant Conservation

The reintroduction of rare and endangered species to their natural habitat is one of emerging tools of ecosystem management. Yet despite hundreds of ongoing projects, the biological underpinnings of such activity are poorly understood, and important questions remain. Restoring Diversity provides biological, policy, and regulatory foundations for successful restoration of rare plants. Topics considered include the strategic and legal context for rare plant restoration, the biology of restoration, use (and misuse) of mitigation in rare plant conservation, and case studies from across the United States. Restoring Diversity presents model guidelines for the reintroduction of endangered plants - guidelines that incorporate ideas contained in the book's chapters with the wide-ranging experience of experts in the field. It is a pathbreaking work that not only unifies concepts in the field of restoration, but also fills significant technical and policy gaps and provides operational tools for successful restorations.

Restoring Diversity

Discusses the use of natural resources for the purpose of extending their availability and retaining global biodiversity.

Conservation

Following the much acclaimed success of the first volume of Key Topics in Conservation Biology, this entirely new secondvolume addresses an innovative array of key topics in contemporary conservation biology. Written by an internationally renownedteam of authors, Key Topics in Conservation Biology 2 addsto the still topical foundations laid in the first volume(published in 2007) by exploring a further 25 cutting-edge issuesin modern biodiversity conservation, including controversial subjects such as setting conservation priorities, balancing thefocus on species and ecosystems, and financial mechanisms to valuebiodiversity and pay for its conservation. Other chapters, settingthe framework for conservation, address the sociology and philosophy of peoples' relation with Nature and its impact onhealth, and such challenging practical issues as wildlife trade and conflict between people and carnivores. As a new development, thissecond volume of Key Topics includes chapters on major ecosystems, such as forests, islands and both fresh and marine waters, alongwith case studies of the conservation of major taxa: plants, butterflies, birds and mammals. A further selection of topics consider how to safeguard the future through monitoring, reserveplanning, corridors and connectivity, together with approaches toreintroduction and re-wilding, along with managing wildlifedisease. A final chapter, by the editors, synthesises thinking on the relationship between biodiversity conservation and humandevelopment. Each topic is explored by a team of top international experts, assembled to bring their own cross-cutting knowledge to apenetrating synthesis of the issues from both theoretical and practical perspectives. The interdisciplinary nature of biodiversity conservation is reflected throughout the book. Each essay examines the fundamental principles of the topic, the methodologies involved and, crucially the human dimension. In this way, Key Topics in ConservationBiology 2, like its sister volume, Key Topics in ConservationBiology, embraces issues from cutting-edge ecological scienceto policy, environmental economics, governance, ethics, and the practical issues of implementation. Key Topics in Conservation Biology 2 will, like itssister volume, be a valuable resource in universities and colleges, government departments, and conservation agencies. It is aimedparticularly at senior undergraduate and graduate students inconservation biology and wildlife management and wider ecological and environmental subjects, and those taking Masters degrees in anyfield relevant to conservation and the environment. Conservation practitioners, policy-makers, and the wider general public eager tounderstand more about important environmental issues will also findthis book invaluable.

Key Topics in Conservation Biology 2

The first book to focus exclusively on the subject, Geodiversity, Second Edition describes the interrelationships between geodiversity and biodiversity, the value of geodiversity to society, as well as current threats to its existence. Illustrated with global case studies throughout, the book examines traditional approaches to protecting geodiversity and the new management agenda now being implemented. The Second Edition of this successful textbook continues to build on the success of the first edition which is still the standard reference for the subject. Fully revised and updated throughout, the Second Edition now includes new material on geoparks, geotourism and implications of climate change for geoconservation. Reviews of previous edition: "Murray Gray's new book is the first widely available text to bring together and analyse some of these emerging ideas....The result is a book that should be in the library of every land manager and one that is likely to lead many practicing geoscientists and quaternarists to a new view of the importance of their field for nature conservation and environmental management.." —Journal of Quaternary Science, Vol.19, No.8, December 2004 "It is strange that it is necessary to justify the importance of geodiversity.... Murray Gray does it with brilliance, not only to convince 'non-believers', but giving inspiration to us that have worked in geoconservation for a long time." —ProGEO News, 3 & 4, 2003 "...The author provides a timely review of recent advances in the integration of geodiversity into wider conservation and planning strategies..." —Journal of Quaternary Science, Vol.19, No.8, December 2004 "...the book is well-written and follows a clear and concise outline." —Environmental Geology, Vol. 48, No. 2, July 2005

Geodiversity

Conservation in protected areas has focused on preserving biodiversity of ecosystems and species, whereas conserving the genetic diversity contained within species has historically often been ignored. However, maintaining genetic diversity is fundamental to food security and the provision of raw materials and it is best preserved within plants' natural habitats. This is particularly true for wild plants that are directly related to crop species and can play a key role in providing beneficial traits, such as pest or disease resistance and yield improvement. These wild relatives are presently threatened due to

processes of habitat destruction and change and methodologies have been adapted to provide in-situ conservation through the establishment of genetic reserves within the existing network of protected areas. Providing a long-awaited synthesis of these new methodologies, this book presents a practical set of management guidelines that can be used for the conservation of plant genetic diversity of crop wild relatives in protected areas.

Conserving Plant Genetic Diversity in Protected Areas

This new four-volume set, Global Biodiversity, provides a wealth of insightful information on the biodiversity of selected nations around the world. The volumes provide informative summaries of the available data on both wild and cultivated plants, wild and domesticated animals, and microbes of the different nations selected.

Global Biodiversity

The recent development of ideas on biodiversity conservation was already being considered almost three-quarters of a century ago for crop plants and the wild species related to them, by the Russian geneticist N.!. Vavilov. He was undoubtedly the first scientist to understand the importance for humankind of conserving for utilization the genetic diversity of our ancient crop plants and their wild relatives from their centres of diversity. His collections showed various traits of adaptation to environ mental extremes and biotypes of crop diseases and pests which were unknown to most plant breeders in the first quarter of the twentieth cen tury. Later, in the 1940s-1960s scientists began to realize that the pool of genetic diversity known to Vavilov and his colleagues was beginning to disappear. Through the replacement of the old, primitive and highly diverse land races by uniform modem varieties created by plant breed ers, the crop gene pool was being eroded. The genetic diversity of wild species was equally being threatened by human activities: over-exploita tion, habitat destruction or fragmentation, competition resulting from the introduction of alien species or varieties, changes and intensification of land use, environmental pollution and possible climate change.

Plant Conservation Report 2014

Agriculture and food production have a large footprint on the landscape globally and compete for space with land for nature conservation. This book explores the competition between the food needs of a growing human population and the conservation of biodiversity as intensified by the emerging use of crops for energy production. As concern about the impact of greenhouse gas emissions on climate grows and oil prices increase, energy production from agricultural crops has become a significant industry. At the same time, growth in food demand due to population growth has been accelerated by growing affluence associated with economic growth in major developing countries increasing per capita consumption. Consumers are concerned that the price of food will continue to increase sharply as a result of this competition but a loss of biodiversity may be another major outcome. Drawing on his expertise in plant conservation genetics, the author provides a balanced appraisal of the potential for developing new or improved crops for food or bioenergy production in the context of climate change, while at the same time protecting biodiversity.

Plant Genetic Conservation

This timely and comprehensive update of the original text integrates a diverse and scattered literature to produce a synthetic account of Mediterranean plant evolutionary ecology. It maintains the accessible style of its previous version whilst incorporating recent work in the context of a new structural framework.

Plant Resources for Food, Fuel and Conservation

The beautiful tropical dry forest of northwest Costa Rica, with its highly seasonal rainfall and diversely vegetated landscape, is disappearing even more rapidly than Costa Rica's better-known rain forest, primarily because it has been easier to convert to agriculture. This book, based on more than thirty years of study, offers the first comprehensive look at the ecology, biodiversity, and conservation status of this endangered and fragile region. The contributors, from Costa Rica, Britain, Mexico, and the United States, and representing the fields of ecology, environmental education, policy, and the law, examine the major plant and animal groups living in the dry forest and present the first technical evaluation of Costa Rica's conservation efforts. As they assess the status of their area of specialty in the dry forest, the contributors also look beyond this particular region to show how its plants and animals are

ecologically and evolutionarily connected to other geographic areas in Costa Rica and Central America. Their chapters cover topics such as watershed and coastal management, plant phenology, pollination, insects, birds, mammals, amphibians, and reptiles. They also consider the socioeconomic, policy, legal, and political aspects of biodiversity conservation, giving the volume a wide-ranging perspective and making a unique contribution to our knowledge of the tropical dry forest. The book concludes with an important synthesis of the contributors' recommendations on future directions, policies, and actions that will better conserve biodiversity in Costa Rica and other neotropical forests as well.

Plant Evolution in the Mediterranean

This book is the first comprehensive global review of all aspects of alien plant invasions in protected areas. It provides insights into advances in invasion ecology emanating from work in protected areas, and the link to locally relevant management support for protected areas. The book provides in-depth case studies, illuminating interesting and insightful knowledge that can be shared across the global protected area network. The book includes the collective understanding of 80 ecologists and managers to extract as much information as possible that will support the long-term management of protected areas, and the biodiversity and associated ecosystem services they maintain. "This outstanding volume draws together pretty much all that can be said on this topic, ranging from the science, through policy, to practical action". Dr. Simon N. Stuart, IUCN Species Survival Commission, UK. "This important and timely volume addresses two of the most serious problems affecting biodiversity conservation today: assessing the extent to which protected areas are impacted by biological invasions and the complex problems of managing these impacts. Written by leading specialists, it provides a comprehensive overview of the issues and gives detailed examples drawn from protected areas across the world". Professor Vernon H. Heywood, School of Biological Sciences, University of Reading, UK

Biodiversity Conservation in Costa Rica

Loss of biodiversity is among the greatest problems facing theworld today. Conservation and the Genetics of Populationsgives a comprehensive overview of the essential background, concepts, and tools needed to understand how genetic informationcan be used to conserve species threatened with extinction, and tomanage species of ecological or commercial importance. Newmolecular techniques, statistical methods, and computer programs, genetic principles, and methods are becoming increasingly useful inthe conservation of biological diversity. Using a balance of dataand theory, coupled with basic and applied research examples, thisbook examines genetic and phenotypic variation in natural populations, the principles and mechanisms of evolutionary change, the interpretation of genetic data from natural populations, andhow these can be applied to conservation. The book includes examples from plants, animals, and microbes in wild and captive populations. This second edition contains new chapters on Climate Change and Exploited Populations as well as new sections on genomics, geneticmonitoring, emerging diseases, metagenomics, and more. One-third of the references in this edition were published after the firstedition. Each of the 22 chapters and the statistical appendix have aGuest Box written by an expert in that particular topic (including James Crow, Louis Bernatchez, Loren Rieseberg, Rick Shine, and Lisette Waits). This book is essential for advanced undergraduate and graduatestudents of conservation genetics, natural resource management, and conservation biology, as well as professional conservation biologists working for wildlife and habitat managementagencies. Additional resources for this book can be found at: ahref="http://www.wiley.com/go/allendorf/populations"www.wiley.com/go/allendorf/populations/a.

Plant Invasions in Protected Areas

The recent development of ideas on biodiversity conservation was already being considered almost three-quarters of a century ago for crop plants and the wild species related to them, by the Russian geneticist N.!. Vavilov. He was undoubtedly the first scientist to understand the importance for humankind of conserving for utilization the genetic diversity of our ancient crop plants and their wild relatives from their centres of diversity. His collections showed various traits of adaptation to environ mental extremes and biotypes of crop diseases and pests which were unknown to most plant breeders in the first quarter of the twentieth cen tury. Later, in the 1940s-1960s scientists began to realize that the pool of genetic diversity known to Vavilov and his colleagues was beginning to disappear. Through the replacement of the old, primitive and highly diverse land races by uniform modem varieties created by plant breed ers, the crop gene pool was being eroded. The genetic diversity of wild species was equally being threatened by human activities: over-exploita tion, habitat destruction or fragmentation,

competition resulting from the introduction of alien species or varieties, changes and intensification of land use, environmental pollution and possible climate change.

Conservation and the Genetics of Populations

Crop wild relatives (CWR) are plant species which are more or less closely related to crops. They are a vital resource by providing a pool of genetic variation that can be used in breeding new and better adapted varieties of crops that are resistant to stress, disease, drought and other factors. They will be increasingly important in allowing crops to adapt to the impacts of climate, thus safeguarding future agricultural production. Until recently, the main conservation strategy adopted for CWR has been ex situ - through the maintenance of samples as seed or vegetative material in various kinds of genebank or other facilities. Now the need to conserve CWR in their natural surroundings (in situ) is increasingly recognized. Recent research co-ordinated by Bioversity International has produced a wealth of information on good practices and lessons learned for their effective conservation. This book captures the important practical experiences of countries participating in this work and describes them for the wider conservation community. It includes case studies and examples from Armenia, Bolivia, Madagascar, Sri Lanka and Uzbekistan, which are important centres of diversity for crop wild relatives, and covers four geographical regions - the Caucasus, South America, Africa and the Asia-Pacific Region. It provides practical, relevant information and guidance for the scaling-up of actions targeting CWR conservation around the world.

Plant Genetic Conservation

The Handbook provides a supporting guide to key aspects and applications of landscape ecology to underpin its research and teaching. A wide range of contributions written by expert researchers in the field summarize the latest knowledge on landscape ecology theory and concepts, landscape processes, methods and tools, and emerging frontiers. Landscape ecology is an interdisciplinary and holistic discipline, and this is reflected in the chapters contained in this Handbook. Authors from varying disciplinary backgrounds tackle key concepts such as landscape structure and function, scale and connectivity; landscape processes such as disturbance, flows, and fragmentation; methods such as remote sensing and mapping, fieldwork, pattern analysis, modelling, and participation and engagement in landscape planning; and emerging frontiers such as ecosystem services, landscape approaches to biodiversity conservation, and climate change. Each chapter provides a blend of the latest scientific understanding of its focal topics along with considerations and examples of their application from around the world. An invaluable guide to the concepts, methods, and applications of landscape ecology, this book will be an important reference text for a wide range of students and academics in ecology, geography, biology, and interdisciplinary environmental studies.

Crop Wild Relatives

Contends that effective biological conservation and social justice must go hand in hand. How can the international conservation movement protect biological diversity, while at the same time safeguarding the rights and fulfilling the needs of people, particularly the poor? Contested Nature argues that to be successful in the long-term, social justice and biological conservation must go hand in hand. The protection of nature is a complex social enterprise, and much more a process of politics, and of human organization, than ecology. Although this political complexity is recognized by practitioners, it rarely enters into the problem analyses that inform conservation policy. Structured around conceptual chapters and supporting case studies that examine the politics of conservation in specific contexts, the book shows that pursuing social justice enhances biodiversity conservation rather than diminishing it, and that the fate of local peoples and that of conservation are completely intertwined. Steven R. Brechin is Professor of Sociology at Syracuse University. He is the coauthor (with Patrick C. West) of Resident Peoples and National Parks: Social Dilemmas and Strategies in International Conservation. Peter R. Wilshusen is Associate Professor of Environmental Studies at Bucknell University. Crystal L. Fortwangler is Visiting Assistant Professor of Environmental Studies at Oberlin College.

The Routledge Handbook of Landscape Ecology

Biodiversity and Biomedicine: Our Future provides a new outlook on Earth's animal, plant, and fungi species as vital sources for human health treatments. While there are over 10 million various species on the planet, only 2 million have been discovered and named. This book identifies modern ways to incorporate Earth's species into biomedical practices and emphasizes the need for biodiversity

conservation. Written by leading biodiversity and biomedical experts, the book begins with new insights on the benefits of biologically active compounds found in fungi and plants, including a chapter on the use of wild fruits as a treatment option. The book goes on to discuss the roles of animals, such as amphibians and reptiles, and how the threatened presence of these species must be reversed to conserve biodiversity. It also discusses marine organisms, including plants, animals, and microbes, as essential in contributing to human health. Biodiversity and Biomedicine: Our Future is a vital source for researchers and practitioners specializing in biodiversity and conservation studies. Students in natural medicine and biological conservation will also find this useful to learn of the world's most bio-rich communities and the molecular diversity of various species. Presents new developments in documenting and identifying species for biodiversity conservation and ethical considerations for biodiversity research Examines biodiversity as an irreplaceable resource for biomedical breakthroughs using available species for medical research Discusses challenges and opportunities for biodiversity protection and research in biosphere reserves

Contested Nature

Conservation of plant resources is often focused on seed banks and botanical gardens. However, the two authors of this volume present a comprehensive conservation strategy that complements this ex-situ approach with practical guidance on in-situ management and conservation of plant resources. The book aims to facilitate better management of protected areas and to illustrate new approaches to conservation of plants within their landscapes. It draws on concepts from forestry, the agricultural sciences, anthropology, ethnology and ethnobotany and should be useful to practitioners, academics and policy-makers.

Biodiversity and Biomedicine

Biodiversity encompasses genes, species, ecosystems and their relative abundance. International awareness of the need to conserve biodiversity has been growing steadily since the first "Earth Summit" in 1992. The development of ecological networks can connect the fragmented habitats of wild animals, stem biodiversity loss, and promote dispersal and genetic exchanges of wild species. In this book, the authors present current research in the study of biodiversity conservation including the theory and practice of ecological networks to conserve biodiversity; sustainable utilization and conservation of indigenous Western Cape medicinal plants; biodiversity change and sustainable development; biodiversity management in the Brazilian Atlantic Forest; and agricultural water management inside the North African oasis.

People, Plants and Protected Areas

This work presents a thorough analysis of the biodiversity concept in international law and commentary on the 1992 United Nations Convention on Biological Diversity which was opened for signature following the 1992 UN Conference on Environment and Development. This Convention is the first international treaty explicitly to address all aspects of biodiversity ranging from the conservation and sustainable use of biological resources, to access to biotechnology and the safety of activities related to modified living organisms. The work extends beyond the ambit of the Convention itself to examine the conservation of biodiversity in international law generally, including measures for the protection of the terrestrial, marine and Antarctic environment and particular features relating to sustainable use of biological resources, ex-situ conservation and plant genetic resources. It further analyses the controversial issue of intellectual property rights, the problems of implementation in the European Union and the United States, differences between developing and developed states and the role of indigenous peoples. This major new work has been written by members of the Committee on Environmental Law of the British Branch of the International Law Association following an earlier study on the subject of International Law and Global Climate Change (Graham & Trotman, 1991). It is the first major study of the Convention of the context in which it was negotiated, and of the prospects for its implementation, following the entry into force of the Convention on 29 December 1993.

Biodiversity Conservation

A practical guide that covers both in situ and ex situ techniques for plant diversity conservation The conservation and sustainable use of plant genetic resources is of increasing importance globally. Plant Conservation Genetics addresses this issue by providing an extensive overview of this emerging area of science, exploring various practical strategies and the latest technology for conservation of plant

biodiversity. Leading specialists and experts discuss topics ranging from the science's foundations through every aspect of plant conservation genetics. This informative text includes several ex situ (outside of natural habitat) and in situ (inside of natural habitat) techniques for plant conservation useful for researchers, educators, and students. Plant Conservation Genetics first reviews the importance, opportunities, and numerous advantages of this type of conservation, then explores various effective ex situ (for specific species) and in situ (for certain species on up to full ecosystems and habitats) techniques for conservation. Essential detailed information is presented on collection strategies, botanic gardens, DNA banks, biodiversity management, and genetic resources in seedbanks. Each specialist reveals his or her personal experience of working in the field, allowing direct experience to illustrate and provide expert perspective on the key issues of plant conservation. The book is carefully referenced and includes tables and figures to enhance clarity of data. Plant Conservation Genetics topics include: strategies for plant conservation opportunities for application of plant conservation genetics botanic garden conservation DNA extraction and storage field genebanks in vitro techniques cryopreservation germplasm collection and management collecting missions genetic and biological property rights and benefit-sharing database and sample management for genebank collections monitoring and maintaining ecosystems in in situ conservation habitat fragmentation molecular analysis of plant genetic resources molecular marker analysis nuclear, mitochondrial, and chloroplast genome analysis genomics in the management of plant biodiversity Plant Conservation Genetics is a comprehensive desktop resource perfect for botanists, plant scientists, agricultural scientists, environmentalists, gardeners, and educators and students.

International Law and the Conservation of Biological Diversity

Plants' ability to turn sunlight into energy makes them the basis for all life; without them there is no life. And they are more than just a food source—they provide us with fuel, fibers, and pharmaceuticals. Global warming and the destruction of natural habitats are a serious threat to many plants, and there are worldwide efforts to mitigate the disaster. Plant Conservation tackles this essential topic head on. Timothy Walker, as the director of the Oxford Botanical Garden, a leader in the field of plant conservation, plays a key role in this effort. He highlights what is happening now, from cataloging the world's flora to conservation efforts like protecting plants from overcollecting. He also shows home gardeners how they can become involved, whether by growing their own food to decrease reliance on large agriculture or by making smart plant choices by growing natives and avoiding invasives. Plant Conservation treats a critical topic in an accessible and optimistic way. It is required reading for students, professionals, and anyone with a keen interest in the importance of plants.

Plant Conservation Genetics

Plant Conservation

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