

Helena Fernández · Ashwani Kumar
Maria Angeles Revilla *Editors*

Working with Ferns

Issues and Applications

 Springer

Working With Ferns Issues And Applications

**Karl-Hermann Neumann, Ashwani
Kumar, Jafargholi Imani**



Working With Ferns Issues And Applications:

Working with Ferns Helena Fernández,Ashwani Kumar,Maria Angeles Revilla,2010-11-11 This well timed volume features a selection of chapters composed by experts in their respective fields It covers a broad range of topics from its fundamental biology to the fern s population genetics and environmental and therapeutic applications

Working with Ferns Helena Fern Ndez,Ashwani Kumar,Maria Angeles Revilla,2011-03-30

Ferns Johnson Marimuthu,Helena Fernández,Ashwani Kumar,Shibila Thangaiah,2022-05-06 Ferns are representative of genetic inheritance of great value as they include species of ancient vascular plants which have direct connection with the evolution of plant life on Earth This volume brings a selection of chapters covering a range of themes on fern biology its development and growth useful protocols for propagation and conservation purposes genetic diversity as well as medicinal and environmental applications The content is organized into four parts Biotechnology of Ferns Propagation of Ferns Ferns in Medicines Environmental Regulation This wide spectrum of the contributions provides quick access to information on the enormous potential of this plant group This book brings together most recent research work and novel techniques which is far from the traditional perspective usually followed It is of interest to teachers researchers and botanists Also the book serves as additional reading material for undergraduate and graduate students of agriculture botany forestry and ecology

Step Wise Protocols for Somatic Embryogenesis of Important Woody Plants Shri Mohan Jain,Pramod Gupta,2018-05-30 World population is increasing at an alarming rate and this has resulted in increasing tremendously the demand for tree products such as wood for construction materials fuel and paper fruits oils and medicines etc This has put immense pressure on the world s supplies of trees and raw material to industry and will continue to do so as long as human population continues to grow Also the quality of human diet especially nutritional components is adversely affected due to limited genetic improvement of most of fruit trees Thus there is an immediate need to increase productivity of trees Improvement has been made through conventional breeding methods however conventional breeding is very slow due to long life cycle of trees A basic strategy in tree improvement is to capture genetic gain through clonal propagation Clonal propagation via organogenesis is being used for the production of selected elite individual trees However the methods are labour intensive costly and produce low volumes Genetic gain can now be captured through somatic embryogenesis Formation of embryos from somatic cells by a process resembling zygotic embryogenesis is one of the most important features of plants In 1958 Reinert in Germany and Steward in USA independently reported somatic embryogenesis in carrot cultures Since then tremendous progress in somatic embryogenesis of woody and non woody plants has taken place It offers a potentially large scale propagation system for superior clones

Current Advances in Fern Research Helena Fernández,2018-03-24 Ferns collectively represent an ancient species of vascular plant which has a direct connection to the beginning of life on Earth Today they are valued for their ornamental appeal environmental benefit or as sources of health benefiting metabolites Current pteridology the study of

fern encompasses a wide range of research activities including but not limited to plant physiology stress tolerance genetics and genomics The goal of this book is to compile the most relevant research done with ferns during the last decade It is organized into four parts I Biology and Biotechnology II Evolution and Conservation III Metabolism and Genetic Resources and IV Environment Each section reveals the utilization of ferns as a tool to explore challenges unique to plant development and adaptation This project represents our collective effort to raise the awareness of ferns as a model system to study higher plant functions Among the distinctive features of our proposed book are i a wide range of topics with contributing researchers from all around the world and ii recent advances of theoretic and applied knowledge with implications to crop species of economic value

Environmental Concerns and Sustainable Development Vertika Shukla,Narendra Kumar,2019-04-30 The current global environmental crisis is primarily the result of non standardized parameters for environmental regulation and is impacting e g clean air safe drinking water and the quality of food particularly in developing nations Due to their poor lax execution of EIA protocols newly developing countries are preferred destinations for establishing pollution emitting industries which results in the degradation and depletion of their natural resources Lack of environmental policy intervention is another major incentive to base dirty industries in these nations In order to ensure sustainable development the highest priority issues include the monitoring and eradication of environmental problems stemming from economic development virtually every form of economic development primarily results in the loss of forests and thus biodiversity followed by declining air quality and the contamination of natural resources Sustainable development ensures responsible interactions with the environment so as to minimize the depletion or degradation of natural resources and preserve environmental quality It involves integrated approaches to understanding the importance of environmental management systems and policy measures that lead to improved environmental performance This book addresses the environmental concerns associated with economic development and with approaches to attaining sustainable economic development which include monitoring the quality of water resources soil erosion and degradation of the natural environment

The Fern Pharmacy Robert Dale Rogers,2025-09-09 Explores more than 500 species of ferns alongside full color photos Examines the Indigenous and folk uses of ferns for food and medicine throughout history Explains in detail the scientific research behind the potency of fern chemicals to heal many human conditions Used for millennia by Indigenous people for food and medicine ferns are now being recognized scientifically for their unique medicinal potential against antibiotic resistant bacteria cancer diabetes cardiovascular disease and liver kidney and respiratory conditions In The Fern Pharmacy Robert Dale Rogers explores more than 500 species of ferns and includes full color photographic examples He presents observations from naturalists from the 18th century until today as he details the traditional Indigenous and folk uses of ferns in North America Europe and Asia as well as their mythology chemistry pharmacology and important healing applications Rogers examines the unique botany of ferns as nonflowering seedless plants including their relationship with

mycorrhizal fungi their propagation via spores and their ancient past as colossal trees Interpreting modern research on the chemistry of ferns including in vitro and in vivo studies of their compounds and secondary metabolites he explores their chemical constituents healing properties from easing congestion and anxiety to treating infertility to fighting bacterial infections He also gives examples of how pharmacological researchers are now frequently rediscovering ancient Indigenous wisdom such as how Hammock Fern *Blechnum occidentale* was traditionally used in Brazil for pulmonary ailments inflammation and urinary tract and liver infections and how western maidenhair can be used for rheumatic pain insect stings and mental issues Featuring photographs by Alan Rockefeller and Drew Henderson this book reveals not just the beauty and variety of ferns but also their many modern healing benefits Plant Diversity in India A.K. Bhatnagar,Rupam

Kapoor,2018-07-24 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 *Antidiabetic Medicinal Plants* M. Naeem,Tariq

Aftab,2023-09-29 Medicinal Plants with Antidiabetic Properties Applications and Opportunities is the first comprehensive reference to present the state of current research as well as those developments that are impacting developments in the use of plants to address diabetic conditions Presenting multiple perspectives on the plants their identification cultivation and application this book presents the state of the art with an eye toward the future Herbal drugs and their components with insignificant toxicity and limited or no side effects are valuable therapeutic alternatives in the treatment of diabetes around the world and have been considered a fundamental source of potent antidiabetic drugs Exploration of plants containing numerous bio active compounds such as flavonoids terpenoids saponins carotenoids alkaloids and glycosides for their potential antidiabetic properties is increasing as alternative treatments for this globally devastating disease are sought

Presented in 5 parts the book first provides an overview of those plants with antidiabetic properties then moves to the agricultural practices for the cultivation and production of those plants Part Three focuses on the chemical composition and phytochemicals of the plants before then moving into a study of the physiological biotechnological and molecular approaches to optimizing these plants The book concludes with insights into current and potential future medical and clinical applications The book is ideal for those seeking to understand the biology and chemistry of plants with anti diabetic properties and their effective development and application Includes insights from laboratory research to field application Presents perspectives from agriculture biotechnology molecular biology pharmaceutical pharmacological and clinical trials Highlights the cost effective and eco friendly technologies for sustainable agricultural developments in antidiabetic plants

Bioactive Compounds in Bryophytes and Pteridophytes Hosakatte Niranjana Murthy,2023-06-20 This reference work provides a comprehensive overview of bioactive compounds investigated in bryophytes and pteridophytes and explores their nutritional biological pharmacological and ecological effects Bryophytes are cosmopolitan lower plants that are rich in phytochemicals including fatty acids tocopherols phenolics terpenoids Additionally these plants contain bibenzyls bis benzyls and polyketides which have been demonstrated to have antimicrobial anti inflammatory and cytotoxic activities Pteridophytes are another group of lower vascular plants which were reported to have useful secondary compounds such as flavonoids steroids phenolics terpenoids and these plants impart medicinal values including antioxidant antimicrobial anti inflammatory anti tumor and anti HIV activities This book contains comprehensive contributions compiled by expert scientists and researchers in this field The book offers a useful resource for plant biotechnologists plant biologists pharmacologists pharmacists food technologists nutritionists research investigators of the healthcare industry academia faculty and students of biology and biomedical sciences It also provides a strategic framework for further research and development activities of bryophytes and pteridophytes of the world

Biofuels: Greenhouse Gas Mitigation and Global Warming Ashwani Kumar,Shinjiro Ogita,Yuan-Yeu Yau,2018-02-09 This timely book is a compilation of edited articles by distinguished international scientists discussing global warming its causes as well as present and future solutions Social and economic growth at global level is measured in terms of GDP which requires energy inputs generally based on fossil fuel resources These however are major contributors to increasing levels of CO₂ causing 15 tonnes of green house gas emissions per capita Renewable sources of energy offer an alternative to fossil fuels and would help reduce this to the 2 tonnes of greenhouse gas emissions per capita per annum needed to achieve sustainable growth As such the book discusses the next generation of biofuels and all related aspects based on the editors significant investigations on biofuels over the last 30 years It also presents the latest research findings from research work carried out by contemporary researchers Presenting global biofuel perspectives it examines various issues related to sustainable development of biofuels in the contexts of agriculture forestry industry and economic growth It covers the 1st to 4th generation biofuels as well as the status of biofuel resources and their

potential in carbon neutral economy Offering a comprehensive state of art overview of current and future biofuels at local and global levels this book appeals to administrators policy makers universities and research institutions *Pollen Cryopreservation Protocols* P E Rajasekharan,R Gowthami,2025-08-25 This second edition provides new and updated methods focusing on pollen cryopreservation in various crops Chapters detail specific plant groups addressing a wide range of species from cereals and grasses to fruits nuts vegetables ornamentals and medicinal plants It features protocols for species such as Semecarpus anacardium grapes strawberries cashew soybean amaryllis and many others offering practical guidance for researchers and breeders working across diverse agricultural and horticultural domains Step by step protocols are complemented by personal notes precautions and specifying the reagents to be used in each step to ensure the repeatability of the procedure across labs Authoritative and cutting edge *Pollen Cryopreservation Protocols Second Edition* aims to serve as reference for researchers studying plant breeding and plant conservation biology *Advances in Lichens and Non-Flowering Plants Fungal Endophytes Research* Ahmed M. Abdel-Azeem,Francesca Degola,2025-09-30 *Advances in Lichens and Non Flowering Plants Fungal Endophytes Research* provides a better understanding of endophytic fungal diversity from lichens and non flowering plants and their applications Beneficial plant colonizing fungi deliver benefits to their hosts by promoting growth producing secondary metabolites and enhancing resistance to biotic and abiotic stresses Mycorrhizae and endophytic fungi are the hidden companions of plants living a mutually beneficial life inside the host plant With the development of techniques of molecular biology it has become possible to establish the correct identity of these fungi and to know their interactions with the host and other micro organisms The unique attributes of fungi thus herald great promise for their application in biotechnology and industry Fungi can be grown with relative ease making production at scale viable The search for fungal biodiversity and the construction of a living fungi collection have both incredible economic potential in locating organisms with novel biotechnological uses that will lead to novel products Fungi have provided the world with penicillin lovastatin and other globally significant medicines and they remain an untapped resource with enormous industrial potential *Advances in Lichens and Non Flowering Plants Fungal Endophytes Research Volume 1* explores biodiversity and the ecological perspective of these fungi It includes discussion of distribution patterns saxicolous lichens lesser known lichens fungi in the Amazon forest hosted medical ferns conifers aquatic plants gymnosperm trees as well as specific studies on Ginkgo biloba and the common Yew A companion *Volume 2* discusses bioprospecting for biomolecules and their applications in the medical agricultural and food industries It should be useful to researchers and students studying fungal biology biotechnology microbiology agriculture molecular biology environmental biology and related subjects *Annual Plant Reviews, The Evolution of Plant Form* Barbara A. Ambrose,Michael D. Purugganan,2012-11-21 *The Evolution of Plant Form* is an exceptional new volume in Wiley Blackwell s highly successful and well established *Annual Plant Reviews* Written by recognised and respected researchers this book delivers a comprehensive guide to the diverse

range of scientific perspectives in land plant evolution from morphological evolution to the studies of the mechanisms of evolutionary change and the tools with which they can be studied This title distinguishes itself from others in plant evolution through its synthesis of these ideas which then provides a framework for future studies and exciting new developments in this field The first chapter explores the origins of the major morphological innovations in land plants and the following chapters provide an exciting in depth analysis of the morphological evolution of land plant groups including bryophytes lycophytes ferns gymnosperms and angiosperms The second half of the book focuses on evolutionary studies in land plants including genomics adaptation development and phenotypic plasticity The final chapter provides a summary and perspective for future studies in the evolution of plant form The Evolution of Plant Form provides essential information for plant scientists and evolutionary biologists All libraries and research establishments where biological and agricultural sciences are studied and taught will find this important work a vital addition to their shelves

Medicinal and Aromatic Plants of the World - Africa Volume 3 Mohamed Neffati, Hanen Najjaa, Ákos Máthé, 2017-09-07 This volume in the series is devoted to Africa a continent that possesses a vast treasure of medicinal plants and has produced some exclusive materials for the world market This volume is expected to strengthen the medicinal plant sector in African countries by making comprehensive information on medicinal and aromatic plants available to policy makers and entrepreneurs It can be used to frame effective policies and create an environment conducive to the growth of the plant based medicine industry bringing economic benefit to African nations It will help health organizations to improve the health of their people by using their own resources and a less expensive system of medicine which is accepted by African society It could also lead scientific communities to increase R D activities in the field

Plant Biology and Biotechnology Bir Bahadur, Manchikatta Venkat Rajam, Leela Sahijram, K. V. Krishnamurthy, 2015-06-19 Plant genomics and biotechnology have recently made enormous strides and hold the potential to benefit agriculture the environment and various other dimensions of the human endeavor It is no exaggeration to claim that the twenty first century belongs to biotechnology Knowledge generation in this field is growing at a frenetic pace and keeping abreast of the latest advances and calls on us to double our efforts Volume II of this two part series addresses cutting edge aspects of plant genomics and biotechnology It includes 37 chapters contributed by over 70 researchers each of which is an expert in his her own field of research Biotechnology has helped to solve many conundrums of plant life that had long remained a mystery to mankind This volume opens with an exhaustive chapter on the role played by thale cress *Arabidopsis thaliana* which is believed to be the *Drosophila* of the plant kingdom and an invaluable model plant for understanding basic concepts in plant biology This is followed by chapters on bioremediation biofuels and biofertilizers through microalgal manipulation making it a commercializable prospect discerning finer details of biotic stress with plant fungal interactions and the dynamics of abiotic and biotic stresses which also figure elsewhere in the book Breeding crop plants for desirable traits has long been an endeavor of biotechnologists The significance of molecular markers

assisted selection and techniques are covered in a dedicated chapter as are comprehensive reviews on plant molecular biology DNA fingerprinting techniques genomic structure and functional genomics A chapter dedicated to organellar genomes provides extensive information on this important aspect Elsewhere in the book the newly emerging area of epigenetics is presented as seen through the lens of biotechnology showcasing the pivotal role of DNA methylation in effecting permanent and transient changes to the genome Exclusive chapters deal with bioinformatics and systems biology Handy tools for practical applications such as somatic embryogenesis and micropropagation are included to provide frontline information to entrepreneurs as is a chapter on somaclonal variation Overcoming barriers to sexual incompatibility has also long been a focus of biotechnology and is addressed in chapters on wide hybridization and hybrid embryo rescue Another area of accomplishing triploids through endosperm culture is included as a non conventional breeding strategy Secondary metabolite production through tissue cultures which is of importance to industrial scientists is also covered Worldwide exchange of plant genetic material is currently an essential topic as is conserving natural resources in situ Chapters on in vitro conservation of extant threatened and other valuable germplasms gene banking and related issues are included along with an extensive account of the biotechnology of spices the low volume high value crops Metabolic engineering is another emerging field that provides commercial opportunities As is well known there is widespread concern over genetically modified crops among the public GM crops are covered as are genetic engineering strategies for combating biotic and abiotic stresses where no other solutions are in sight RNAi and micro RNA based strategies for crop improvement have proved to offer novel alternatives to the existing non conventional techniques and detailed information on these aspects is also included The book s last five chapters are devoted to presenting the various aspects of environmental marine desert and rural biotechnology The state of the art coverage on a wide range of plant genomics and biotechnology topics will be of great interest to post graduate students and researchers including the employees of seed and biotechnology companies and to instructors in the fields of plant genetics breeding and biotechnology

Phytochemistry of Australia's Tropical Rainforest Cheryll J. Williams, 2021-12-01 Rare unique and irreplaceable precious native rainforests occupy a precariously small part of Australia while retaining a remarkable level of both biological and chemical diversity unrivalled by any other ecosystem Australia s ancient history and traditions are intimately intertwined with the rainforest plants that humans have utilised as both food and medicine Phytochemistry of Australia s Tropical Rainforest is a record of this history and details how our understanding of these plants has led to the discovery of anaesthetics analgesics steroids antimalarials and more It provides an insight into the habitat ecology and family associations of hundreds of species and explores their future therapeutic potential alongside phytochemical studies of the ancient plant lineages Toxicological evaluations of important poisonous plants are also included Rainforests provide shelter for unique flora and fauna that are counted among the rarest species on Earth many of which are illustrated in this book This comprehensive work is an essential reference for

phytochemists ethnobotanists and those with an interest in rainforests and their medicinal and botanical potential

Non-Tree Plant Species Diversity of Northern Peninsular Malaysia Farah Alia Nordin, Asyraf Mansor, This book explores the diversity of non tree plant species in northern Peninsular Malaysia including ferns aroids wild orchids palms and major climbers It presents a wealth of information on their distribution endemism ecology conservation status new occurrence records economic importance and ethnobotanical perspectives The book offers a comprehensive overview of fern species in the region revealing significant data gaps in the assessment of their global and national conservation statuses It also explores the agronomic potential of underutilized aroids particularly species from the genus *Amorphophallus* which could become important high value crops for Malaysia Additionally it highlights the diversity of wild orchids found in unique karst habitats showcasing great species diversity and endemism along with numerous new locality records for Peninsular Malaysia The analysis of palm species especially rattan emphasizes the crucial role of fauna in population stability while the discussion of climbers challenges the perception of these plants as mere competitors to timber trees showcasing their critical ecological contributions Ideal for researchers conservationists and students this book serves as a comprehensive resource for understanding the ecological and economic significance of Malaysia's diverse non tree flora

Gene Editing in Plants

Ashwani Kumar, Sudipti Arora, Shinjiro Ogita, Yuan-Yeu Yau, Krishnendu Mukherjee, 2024-03-18 This book is a collection of information about applying CRISPR Cas systems for genome editing in plants The main focus of this book is to address the recent advances and future prospects of CRISPR Cas technology in crops Genome editing technology is important because it can be used to improve plant traits The earlier genome engineering tools zinc finger nucleases ZFNs and TAL effector nucleases TALENs are complicated to design and not flexible The novel genome editor CRISPR Cas systems has advantages over ZFNs and TALENs The advantages are simple and easy to design precision in targeting and efficiency Due to its precision and simplicity the CRISPR Cas technology has rapidly become the most popular genome editing platform in life science fields CRISPR Cas technology has been used widely for human gene therapy to treat diseases and for plant breeding programs for crop improvement This book is of interest and useful to genome editing professionals plant breeders horticulturists field level extension workers nurserymen planters ecologists and valuable source of reference to the relevant researchers

Plant Cell and Tissue Culture - A Tool in Biotechnology

Karl-Hermann Neumann, Ashwani Kumar, Jafargholi Imani, 2020-10-01 This textbook is clearly structured with fourteen richly illustrated chapters and practical examples for easy understanding and direct implementation The methods and findings developed in the authors group are presented in detailed revised chapters Readers will find valuable updates on the molecular basis of biotechnological processes secondary metabolite production and genetic engineering In addition the basic principles of important biotechnologies as well as examples of specially designed crops that deliver improved productivity under stress conditions are presented This second edition sets the direction for future research on the basic aspects of plant tissue culture and its

applications in the fields of secondary metabolite production and genetic engineering It provides both general and specific information for students teachers academic researchers and industrial teams who are interested in new developments in plant tissue culture and its applications

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