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News from Orchid Centres
Short Communications
Culture Note

Orchids Science And Commerce

**Nirmal Joshee, Sadanand A.
Dhekney, Prahlad Parajuli**



Orchids Science And Commerce:

Orchids ,2001 Contributed articles with special reference to India **Flowers for Trade** V.L.Sheela,2008-03-05 The book is a classic covering flowers used in decoration of houses offices restaurants hospitals and private places of rest and relaxation For nature lovers it is a paradise of colours forms and shapes Fragrant flowers flowers for bouquet making flowers for essences and bonsai are narrated to the enchantment of students and scholars as well There are 21 chapters dealing with general topics in flower trade standards markets and global demand and supply The specific chapters deal elaborately anthuriums carnations china aster chrysanthemums gerbera gladiolus heliconias jasmine marigold orchids roses and tube roses An exhaustive chapter on new cut flowers narrates recent introductions The Japanese Bonsai is dealt in exquisite style Research and development in this sector are separately dealt with Future prospects trends and globalised flower marketing are written for use of floriculturists Modern technology of protected growing of flowers is informative All the flowers indicated in the book are presented in colour photograph forms as well **Orchid Biology: Recent Trends & Challenges** Shaik Mahammad Khasim,Sadanand Nagesh Hegde,María Teresa González-Arno,Kanchit Thammasiri,2020-01-31 This book on Orchid Biology Recent Trends Challenges reviews the latest strategies for the preservation and conservation of orchid diversity and orchid germplasm It is an outcome of the Proceedings of the International Symposium on Biodiversity of Medicinal Plants Orchids Emerging Trends and Challenges held on 9 11 February 2018 at Acharya Nagarjuna University India In addition eminent orchid experts from around the globe were invited to contribute to this book All chapters were peer reviewed by international experts The Orchidaceae are one of the largest families of flowering plants comprising over 700 genera and 22 500 species and contributing roughly 40 percent of monocotyledons They also represent the second largest flowering plant family in India with 1 141 species in 166 genera and contribute roughly 10% of Indian flora Orchids comprise a unique group of plants and their flowers are among the most enchanting and exquisite creations of nature Phylogenetically and taxonomically the Orchidaceae are considered to be a highly evolved family among angiosperms They show incredible diversity in terms of the shape size and colour of their flowers and are of great commercial importance in floriculture markets around the globe Millions of cut flowers of Cymbidium Dendrobium Cattleya Paphiopedilum Phalaenopsis Vanda etc besides potted orchid plants are sold in Western Countries and thus the orchid cut flower industry has now become a multimillion dollar business in Europe the USA and South East Asia Besides their ornamental value orchids hold tremendous pharmaceutical potential Root tubers of *Habenaria edgeworthii* form an important component of the *Astavar* group of drugs in Ayurvedic medicine It is an established fact that tubers of some terrestrial orchids have been used to treat diarrhoea dysentery intestinal disorders cough cold and tuberculosis Some orchids particularly those belonging to the genera *Aerides* *Arachnis* *Cattleya* *Cymbidium* *Dendrobium* *Epidendrum* *Oncidium* *Paphiopedilum* *Phalaenopsis* *Renanthera* *Vanda* etc have been extensively used to produce internationally acclaimed hybrids Yet paradoxically Indian orchids are victims of their own

beauty and popularity As a result their natural populations have been declining rapidly because of unbridled commercial exploitation in India and abroad In fact some orchids are now at the verge of extinction e g *Renanthera imschootiana* *Diplomeris hirsuta* *Paphiopedilum fairrieianum* *Cypripedium elegans* *Taeniophyllum andamanicum* etc Given the global importance of orchids in terms of securing human health and wealth this comprehensive compilation prepared by international experts is highly topical Its content is divided into five main sections I Cryopreservation Biotechnology II Orchid Biodiversity Conservation III Anatomy Physiology IV Pollination Biology and V Orchid Chemicals Bioactive Compounds All contributions were written by eminent orchid experts professors from around the world making the book a valuable reference guide for all researchers teachers orchid enthusiasts orchid growers and students of biotechnology botany pharmaceutical sciences and ethnomedicine It will be equally valuable for readers from the horticultural industry especially the orchid industry agricultural scientists and policymakers

Exploring Medicinal Orchids Azamal Husen,Manu Pant,2024-12-18 Orchids are fascinating ornamental flowers with a huge market both as cut flowers and potted plants but they are also used in the traditional medicine system as they can be rich in phytochemicals with exceptional medicinal properties This book *Exploring Medicinal Orchids* is a comprehensive guide for medicinally important orchids their diversity and their use in traditional and folk medicines It presents information on secondary metabolites of medicinally active orchid species pharmaceutical and medicinal applications and describes advanced techniques of biotechnology in the conservation of medicinal orchids Features Dedicated chapters discuss phytochemical constituents and medicinal properties of orchids Enriches the understanding of secondary metabolites of medicinal orchids and their pharmaceutical application Elaborates the botanical ethnomedicinal and pharmacological aspects of various medicinal orchids Demonstrates tissue culture systems for the conservation of medicinal orchids A volume in the *Exploring Medicinal Plants* series this book is a resource for academics researchers professors and students working in the fields of medicinal plants and flowers biodiversity conservation herbal medicine and plant biotechnology

Orchid Biology: Reviews and Perspectives X Tiiu Kull,J. Arditti,Sek Man Wong,2009-01-21 As stated many times before the purpose of *Orchid Biology Reviews and Perspectives* OB is to present reviews on all aspects of orchids The aim is not to balance every volume but to make a balanced and wide ranging presentation of orchids in the series as a whole The chapters in this the last volume of the series range over a number of topics which were not covered before Singapore is justly famed for its orchids They can be seen on arrival or departure in its modern highly efficient and comfortable Changi Airport and on the way from it to town Vanda Miss Joaquim the first hybrid to come from Singapore became its National Flower This natural hybrid can be seen on its currency stamps and public and private decorations Many excellent breeders starting with Prof Eric Holttum who bred the first man made hybrid *Spathoglottis Primrose* produced numerous magnificent hybrids and won countless awards in Singapore and elsewhere These hybrids served to enrich the country s orchid mystique In the opening chapter of this volume Dr Teoh Eng Soon

Western style Eng Soon Teoh himself a prize winning orchid breeder grower and author writes about some of the breeders who contributed to the Singapore orchid fame Prof Hans Fitting was one of the best known plant physiologists of his time As a young man he studied the effects of pollen on orchid flowers

Micropropagation of Orchids Tim Wing Yam, Joseph Arditti, 2017-07-05 Divided into three volumes Micropropagation of Orchids Third Edition retains the exhaustive list of micropropagation protocols for many genera and updates each section to include new and or revised information about Culture media and vessels Techniques and procedures for both orchids which were previously cultured and for those which were not Plant hormones and growth regulators Media components Methods for tissue decontamination Historical information Procedures for the cultivation for plantlets which have been removed from flasks Sources of light and illumination methods Written by two globally acknowledged experts in the field the third edition of this definitive text on the micropropagation of orchids is a detailed and comprehensive collection of procedures and methods for multiplying orchids including organ tissue and cell culture techniques in vitro and is intended for researchers in plant science and propagation professional and amateur orchid growers and plant breeding professionals Much of the general information about techniques and procedures can be applied to plants other than orchids

Biotechnological Innovations for Sustainable Biodiversity and Development Ranbir Chander Sobti, 2025-03-31 This book reviews the important role of biotechnological innovations in achieving sustainable development goals and conserving global biodiversity It presents the latest biotechnological techniques used to identify and characterize various groups of plants and animals such as genomic tools for animal identification and DNA barcoding for precise plant characterization It also reviews the utility of proteomics and metabolomics in enhancing our understanding of diverse species The book also discusses responsible development and sustainable utilization of bioresources including strategies for conserving and managing bioresources bioprospecting for novel biodiscoveries and sustainable agricultural practices to preserve agrobiodiversity Further the book addresses the pressing challenges faced by biodiversity including the far reaching effects of climate change the threat posed by invasive species the consequences of pollution on biodiversity degradation and the interplay between diseases and biodiversity decline Toward the end the book analyzes the impact of environmental degradation on biodiversity and explores emerging technologies in biodiversity conservation focusing on genetically modified organisms GMOs The book will interest scientists researchers policymakers environmentalists academics and students involved in biotechnology ecology genetics and conservation biology

Key Features Discusses cutting edge biotechnological innovations for biodiversity conservation Presents cutting edge biotechnological techniques for identifying and characterizing selected groups of plants and animals Addresses critical environmental challenges such as climate change invasive species and pollution

Commercial Orchids Lakshman Chandra De, 2015-01-29 Orchids account for a large share of global floriculture trade both as cut flowers and as potted plants and are estimated to comprise around 10% of international fresh cut flower trade The average value of fresh cut orchids and buds

trade during 2007-2012 was US 483 million. In 2012 there are more than 40 countries exporting orchids and 60 countries importing orchids around the world with the total size of the global trade equaling US 504 million. In India about 1350 species belonging to 186 genera represent approximately 5.98% of the world orchid flora and 6.83% of the flowering plants in India. The publication on Commercial Orchids is presented in 15 interesting chapters vividly highlighting the global orchid industry, bio diversity conservation and bio piracy of genetic resources, morphological and molecular characterization of valuable species, breeding approaches for improved genotypes, production of quality planting materials, physiology of tropical and temperate orchids, climate change and its impact on orchid productivity, production technology of commercial epiphytic orchids for cut flower production, technology of commercial terrestrial orchids for cut flower orchids for pot culture, hanging baskets and tree mounting, medicinal and aromatic orchids, post harvest management of cut flowers of commercial orchids, value addition and marketing.

Biodiversity and Its Significance Pramod Tandon, Y. P. Abrol, Suman Kumaria, 2007

Biodiversity and its Significance deals with the various fundamental aspects of biodiversity which have a direct and strong impact on human beings and their environment. It comprises 20 articles contributed by renowned experts in their areas. This pioneering book has been designed for the students and research scholars of Plant Sciences, Agricultural Science and Bioinformatics.

Biodiversity: An Overview Mukesh Kumar, G.S. Paliwal, 2011-07-15

India's phytodiversity is one of the most significant in the world. India is one of the twelve mega biodiversity centers in the world and also an important center of origin of agrobiodiversity. It is therefore very important to study, document and conserve the plant wealth of India and also of the world before its possible extinction. There are convincing scientific, economic and sociological reasons for giving priority to the conservation of the major centers of plant diversity throughout the world. The strategies to conserve the biodiversity include establishment of protected area network and corridors with emphasis on appropriate levels of management, reduction of anthropogenic pressure on natural populations by cultivating them elsewhere, programmes of augmentation, reintroduction and introduction of target taxa, restoration of degraded habitats etc. The conservation strategies can be either in situ conservation of genetic resources within their ecosystem and natural habitat or ex situ conservation of components of genetic material of biological diversity outside their natural habitat. The choice of conservation strategy depends upon the nature of the material to be conserved, i.e. the life cycle and mode of reproduction, size of individual population and ecological status. Ex situ techniques include the establishment of botanical and zoological gardens, banks of pollen, seed, tissue culture, DNA etc. Establishment of forest reserves, national parks, protected areas and on farm conservation of valuable plant varieties is being promoted to facilitate their in situ conservation.

Micropropagation of Orchids Joseph Arditti, 2009-01-26

This greatly expanded and updated edition of a classic reference work comprises two volumes offering a compendium of methods for multiplying orchids through micropropagation. A detailed collection of procedures and methods for multiplying orchids including organ tissue and cell culture techniques in vitro. Presents classic techniques that have been in the forefront of

orchid propagation since they were first developed in 1949 Detailed procedures are appended with tables and complete recipes for a large number of culture media Includes many illustrations chemical formulas historical vignettes and seldom seen illustrations of people orchids apparatus and tools an excellent resource like its predecessor both informative and captivating and served as a reminder of why we go to such extremes in our quest to propagate these plants American Orchid Society 2009 in the sense of its universal value and importance this Second Edition will undoubtedly be considered a classic if only because it will serve as a sole and invaluable resource on the subject Plant Science Bulletin 2009

Bioprospecting of Plant Biodiversity for Industrial Molecules Santosh Kumar Upadhyay, Sudhir Pratap Singh, 2021-06-22 BIOPROSPECTING OF PLANT BIODIVERSITY FOR INDUSTRIAL MOLECULES A comprehensive collection of recent translational research on bioresource utilization and ecological sustainability Bioprospecting of Plant Biodiversity for Industrial Molecules provides an up to date overview of the ongoing search for biodiverse organic compounds for use in pharmaceuticals bioceuticals agriculture and other commercial applications Bringing together work from a panel of international contributors this comprehensive monograph covers natural compounds of plants endophyte enzymes and their applications in industry plant bioprospecting in cosmetics marine bioprospecting of seaweeds and more Providing global perspectives on bioprospecting of plant biodiversity the authors present research on enzymes mineral micro nutrients biopesticides algal biomass and other bioactive molecules In depth chapters assess the health impacts and ecological sustainability of the various biomolecules and identify existing and possible applications ranging from ecological restoration to production of essential oils and cosmetics Other topics include bio energy crops as alternative fuel resources the role of plants in phytoremediation of industrial waste and the industrial applications of endophyte enzymes This comprehensive resource Includes a thorough introduction to plant biodiversity and bioprospecting Will further the knowledge of application of different plants and improve research investigation techniques Summarizes novel approaches for researchers in food science microbiology biochemistry and biotechnology Bioprospecting of Plant Biodiversity for Industrial Molecules is an indispensable compendium of biological research for scientists researchers graduate and postgraduate students and academics in the areas of microbiology food biotechnology industrial microbiology plant biotechnology and microbial biotechnology

Immunity Boosting Medicinal Plants of the Western Himalayas Ajay Sharma, Gulzar Ahmad Nayik, 2023-03-14 This book presents a comprehensive guide to traditional immunity boosting medicinal plants of the Himalayas their traditional uses phytochemistry pharmacology diversity conservation biotechnology toxicology as well as future prospective All the chapters cover the latest advances in ethnobotany phytochemistry biochemistry and biotechnology The book offers a valuable asset for researchers and graduate students of chemistry botany biotechnology microbiology and the pharmaceutical sciences The main purpose of the present book is to draw on the rich culture folklore and biodiversity of immunity boosting medicinal plants of the Western Himalayas with particular emphasis on the Indian Trans Himalayan and Western Himalayan region All the plants included in the present

book are extensively used by the local tribes and people for their health promoting properties from ancient times This book will be a substantial contribution to the knowledge of the region and the country Also the book will be very useful to scientists graduates and undergraduates along with researchers in the fields of natural products herbal medicines ethnobotany pharmacology chemistry and biology Further it is an equally significant resource for a person working in different traditional medicinal systems doctors especially those engaged in Ayurveda Chinese traditional medicinal system Amchi and allopathy the pharmaceutical industry for drug design and synthesis biochemistry and biotechnology sciences and the agricultural sciences

Medicinal Plants Nirmal Joshee, Sadanand A. Dhekney, Prahlad Parajuli, 2019-11-11 This book offers a fresh look on a variety of issues concerning herbal medicine the methods of growing and harvesting various medicinal plants their phytochemical content medicinal usage regulatory issues and mechanism of action against myriad of human and animal ailments *Medicinal Plants From Farm to Pharmacy* comprises chapters authored by renowned experts from academics and industry from all over the world It provides timely in depth study analysis of medicinal plants that are already available in the market as supplements or drug components while also introducing several traditional herbs with potential medicinal applications from various regions of the world The book caters to the needs of a diverse group of readers plant growers who are looking for ways to enhance the value of their crops by increasing phytochemical content of plant products biomedical scientists who are studying newer applications for crude herbal extracts or isolated phytochemicals clinicians and pharmacologists who are studying interactions of herbal compounds with conventional treatment modalities entrepreneurs who are navigating ways to bring novel herbal supplements to the market and finally natural medicine enthusiasts and end users who want to learn how herbal compounds are produced in nature how do they work and how are they used in traditional or modern medicine for various disease indications

Ethnic Knowledge and Perspectives of Medicinal Plants Münir Öztürk, Kandikre Ramaiah Sridhar, Maryam Sarwat, Volkan Altay, Francisco Martín Huerta-Martínez, 2023-10-20 This new 2 volume set aims to share and preserve ethnic and traditional knowledge of herbal medicine and treatments while also emphasizing the link between biodiversity human nutrition and food security *Ethnic Knowledge and Perspectives of Medicinal Plants* is divided into two volumes with volume 1 focusing on the traditional use of curative properties and treatment strategies of medicinal plants and volume 2 addressing the varied nutritional and dietary benefits of medicinal plants and the practice of Ayurveda Both volumes stress the importance of bioresources for human nutrition and nutraceuticals based on ethnic knowledge and the need for efforts to protect biodiversity in many regions rich with medicinal plants Exploring the benefits of medicinal plants in disease prevention treatment and management Volume 1 discusses the traditional use of medicinal plants as promising therapeutics for cancer liver conditions COVID 19 and other human ailments It examines the efficacy of Ayurvedic and Chinese herbal medicine Indian traditional medicine and other ethnic herbal practices used by indigenous peoples of Azerbaijan South America Turkey India etc A variety of plants are

discussed and the ethnomedicinal applications of over 100 wild mushrooms for their medicinal and healthcare purposes are elaborated on While volume 1 focuses primarily on natural plant resources for addressing specific health issues volume 2 looks at traditional medicinal plant use for their nutritional and dietary benefits while also encouraging the preservation of biodiversity for healthy and sustainable diets The volume presents information on over 2200 vascular plant taxa from 127 families as well as many taxa from leaf parts fruits underground parts floral parts seeds and more that have potential use as edible food plants Ethnic knowledge on the wild edible mushrooms is an emerging area which is unique and is dependent on the folk knowledge of tribals this volume discusses the unique nutritional attributes of wild edible mushrooms 206 species belonging to 73 genera in Southern India The authors look at various lichens as nutritional aids and medicine and as flavoring agents and spices Fucoidans derived from the seaweeds and spirulina are described for their antioxidant activity nutritional and anti aging properties antiviral activities anti cancer properties anti diabetic properties and more The authors also examine how ethnicity affects healthcare nutritive systems at different levels through various dynamics such as lower income inability for services uptake disputes among different ethnic groups cultural attitudes some ethnic group are vegetarian lack of socio economic resources and disease prevalence Together these two important volumes aim to preserve and disseminate the valuable ethnic knowledge of medicinal plants gained over thousands of years and to promote the value of integrating and safeguarding biodiversity

Orchids S. John Britto, 2004

The Orchid Strangler Pasquale De Marco, 2025-05-11 Prepare to be captivated by the dark allure of orchids and the twisted mind of a serial killer in *The Orchid Strangler* This gripping true crime exploration delves into a chilling investigation that will leave you questioning the boundaries of beauty and obsession As the city is gripped by fear detectives race against time to uncover the truth behind a series of gruesome murders Each victim bears a haunting signature an orchid its delicate petals stained with the crimson of death With each life extinguished the orchid's significance grows transforming it from a symbol of beauty into a sinister harbinger of doom Through meticulous investigation and expert analysis we follow the trail of clues uncovering the killer's modus operandi and delving into their twisted psyche The investigation takes us into the hidden corners of society where obsession and desire lead to unspeakable acts of violence But *The Orchid Strangler* is more than just a crime story It is a fascinating exploration of the world of orchids their captivating beauty and the dark history of their collection We discover the lengths to which some will go to possess these rare and exotic flowers blurring the lines between passion and obsession This book is a mesmerizing blend of true crime botanical intrigue and psychological suspense It is a journey into the darkness that lurks beneath the surface of beauty a tale of obsession murder and the enduring power of flowers Prepare to be captivated by *The Orchid Strangler* a haunting and unforgettable exploration of the dark side of desire If you like this book write a review on google books

[Handbook of Vanilla Science and Technology](#) Daphna Havkin-Frenkel, Faith C. Belanger, 2018-07-06 An updated guide to the production science and uses of vanilla Vanilla is a flavor and fragrance in foods

cosmetics pharmaceuticals and a wealth of other products Now in its second edition the Handbook of Vanilla Science and Technology provides a comprehensive and updated review of the science and technology used in these items production and supply Featuring contributions from an international range of experts this revised edition covers a multitude of topics including agricultural production global markets analytical methods sensory analysis food and fragrance applications organic farming and fair trade botanical diseases and novel uses The Handbook of Vanilla Science and Technology Second Edition is a vital resource for producers distributors and scientists involved in vanilla s growth and utilization and offers readers A guide to the cultivation extraction analysis DNA sequencing and marketing of vanilla Information on the production of vanilla in a range of countries such as Mexico Australia Costa Rica and India Guidelines on the quality control of vanilla beans and extracts Information on fair trade and the future of vanilla

Science ,1884 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting

Wild Relatives of Cultivated Plants in India Anurudh Kumar Singh,2017-08-14 This book provides a comprehensive overview of the wild relatives of crops and cultivated species found in India covering their distribution phylogenetic relationships with cultivated species traits that are of economic and breeding value and the perceived threats It highlights the opportunities the wild relatives of cultivated species offer in terms of new genes and allelic variability as well as several other exploitable economic and environmental benefits that can be harnessed with their conservation and cultivation This helps facilitate their use both directly and as part of the breeding program for related cultivated species filling the gaps of genetic variability in the primary gene pool It also discusses how they can be used in breeding programs using conventional technologies and the biotechnological approaches of recombinant DNA Transfer of natural genes using recombinant DNA known as Cisgenesis can accelerate the process of incorporating these natural genes without genetic drag of undesirable features and biosafety concerns and beyond taxonomic boundaries in response to the demand for new cultivars to meet the challenges of climate change and ever growing human population

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