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Medicinal and aromatic plants (MAPs) have accompanied mankind from its very early beginnings. Their utilization has co-evolved with homo sapiens itself bringing about a profound increase in our scientific knowledge of these species enabling them to be used in many facets of our life (e.g. pharmaceutical

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products, feed- and food additives, cosmetics, etc.).

Remarkably, despite the new renaissance of MAPs usage, ca. 80 % of the world's population is relying on natural substances of plant origin, with most of these botanicals sourced from the wild state. This first volume and ultimately the series, provides readers with a wealth of information on medicinal and aromatic plants.

Two aspects of the biotechnology of medicinal and aromatic plants are of immediate application. (1) Micropropagation under controlled germ free conditions which enables their fast multiplication and availability throughout the year irrespective of external environment - this is specially useful for elite and rare plants. (2) A large-scale culture and low-temperature

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storage of cells enables retention of their biosynthetic potential for the production of important secondary metabolites, medicines, flavours and other pharmaceutical products. This book has been compiled with a view to bringing together information and literature on the biotechnology and the present state of the art of plant cell cultures for their potential use in the pharmaceutical industry. This volume comprises 29 chapters on the biotechnology of medicinal and aromatic plants grouped into three sections, (1) micropropagation, immobilization, cryopreservation, bioreactors, production of secondary metabolites and their impact in pharmacy, (2) production through cell cultures of antitumour compounds, IrDopa, shikonin, an thraquinone, morphinan alkaloids, caffeine,

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berberine, valeoptriates, rosmarinic acid, quinine, tropanes, hypoxoside, ellipticine, paeoniflorin, saponins, cardenolides etc, and (3) distribution, economic importance, conventional propagation, review of the tissue culture work on micropropagation and the in vitro production of compounds of medicinal and pharmaceutical interest in various species of Cannabis, Centaurium, Cinchona, Digitalis, Duboisia, Hypoxia, Lithospermum, Ochrosia, Paeonia, Panax, Papavar, Rehmannia, Rhamnus and Rhaza.

This book on 'Aromatic Plants' contains seven s. Introductory on 'History, importance and scope of aromatic plants' deals with the importance of aromatic crops and their close association with human health and beauty care from time

immemorial. History of development of cultivation and aroma based industries in different regions of the world is described to emphasize their significance, scope and role in increasing the quality of human life. Classification of aromatic plants based on their climatic requirement, growth habit and floral morphology elaborated in succeeding will be of great interest to students, researchers and farmers. on 'Extraction of aroma principles' describes traditional as well as modern techniques employed for efficient extraction of volatile oils and oleo-resins from different plants materials and equipments employed for the purpose. Quality of oil is found to vary significantly with ecotypes, season, time of collection, crop maturity and weather conditions prevailing during the growth

period, extraction method and duration of extraction process. Conditions and duration of storage also have a bearing on quality of essential oil. This necessitates development and imposition of appropriate quality standards in trade. These aspects are covered in fourth on 'Quality assurance of essential oils'. Aromatic oils & their derivatives and combinations occupy a covetable position in holistic medicines such as aromatherapy. on 'Aromatherapy' details the use of essential oils in human health care, techniques employed, aromatherapy message, aromatic bath, facial care, hair care etc. Information on aromatic oil's wide spread application to relieve stress and rejuvenate body are also included. Sixth and seventh s deal with major and other sources of aromatic oils. Under major

sources, 17 aromatic crops and under other sources, 25 crops and discussed in detail. These s include the common name, botanical name and synonyms if any and family, vernacular names, importance and uses, habitat and distribution, agro technology, soil, climate, season, land preparation, planting, seed rate and spacing manurial and fertilizer recommendation, irrigation, weed control, pest control, harvest, propagation techniques, herbal yield, extraction and utilization, oil recovery, oil composition, properties of oil, storage requirements etc.

Cultivation and Uses

Medicinal and aromatic plants ; 3

Medicinal and Aromatic Plants VIII

A Compendium for 1st World Congress of Agroforestry, 2004

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The Coloured Atlas of Medicinal and Aromatic Plants of
Jordan and Their Uses (Volume Two)

Before the concept of history began, humans undoubtedly acquired life benefits by discovering medicinal and aromatic plants (MAPs) that were food and medicine. Today, a variety of available herbs and spices are used and enjoyed throughout the world and continue to promote good health. The international market is also quite welcoming for MAPs and essential oils. The increasing environment and nature conscious buyers encourage producers to produce high quality essential oils. These consumer choices lead to growing preference for organic and herbal based products in the world market. As the benefits of medicinal and aromatic plants are recognized, these plants will have a special role for humans in

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the future. Until last century, the production of botanicals relies to a large degree on wild-collection. However, the increasing commercial collection, largely unmonitored trade, and habitat loss lead to an incomparably growing pressure on plant populations in the wild. Therefore, medicinal and aromatic plants are of high priority for conservation. Given the above, we bring forth a comprehensive volume, “Medicinal and Aromatic Plants: Healthcare and Industrial Applications”, highlighting the various healthcare, industrial and pharmaceutical applications that are being used on these immensely important MAPs and its future prospects. This collection of chapters from the different areas dealing with MAPs caters to the need of all those who are working or have interest in the above topic. Research Paper from the year 2008 in the subject Forestry /

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Forestry Economics, Vrije University Brussel (Human Ecology
Department), 52 entries in the bibliography, language: English,

abstract: The role of medicinal plants in traditional health care delivery in Ghana cannot be overemphasized. More than 250 indigenous trees and plants with healing properties have been scientifically catalogued in Ghana. Unfortunately, the very foundation upon which the medicinal plant species and the traditional health care system survive is threatened by deforestation. The rate of deforestation has increased by 50% over the last ten years, according to the UN Food and Agriculture Organization (FAO). The current area of intact forest is now estimated at between 10.9 and 11.8% of the original cover and 6.9% of the country's total area. Deforestation is changing the habitats of disease-carrying

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insects and creating conditions that may help to spread malaria, river blindness and other devastating illnesses.

Moreover, since the majority of the rural poor in Ghana depends on traditional medicine for their health care needs, the present high rate of deforestation will have a detrimental effect on the health care delivery system in the country. Important plant species will be lost to deforestation unless urgent measures are taken. This paper examines the impact of deforestation on medicinal plants in Ghana.

27 chapters cover the distribution, economic importance, conventional propagation, micropropagation, tissue culture studies, and in vitro production of important medicinal and other pharmaceutical compounds in various species of *Anchusa*, *Brucea*, *Catharanthus*, *Chrysanthemum*, *Coleus*,

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Corydalis, Coreopsis, Emilia, Ginkgo, Gloriosa, Hypericum, Inonotus, Leucosceptrum, Lilium, Linum, Mosses, Nandina, Penstemon, Prunus, Pteridium, Quassia, Ribes, Senecio, Taraxacum, Thermopsis, Vanilla, and Vitiveria. Like the previous five volumes on medicinal and aromatic plants (Volumes 4, 7, 15, 21, and 24), this book contains a wealth of useful information for advanced students and researchers in the field of plant biotechnology and chemical engineering, pharmacy, botany and tissue culture.

The International Workshop on Medicinal and Aromatic Plants

Aromatic Plants

Agricultural, Commercial, Ecological, Legal, Pharmacological
and Social Aspects

Medicinal and Aromatic Plants XII

Cultivation and Utilization of Aromatic Plants

Medicinal and Aromatic Plants XI comprises 24 chapters. It deals with the distribution, importance, conventional propagation, micropropagation, tissue culture studies, and the in vitro production of important medicinal and pharmaceutical compounds in various species of *Anagallis*, *Azadirachta*, *Centranthus*, *Costus*, *Cuphea*, *Dioscorea*, *Drosera*, *Fagara*, *Frangula*, *Hyacinthus*, *Hypericum*, *Jamesoniella*, *Karwinskia*, *Lactarius*, *Lactuca*, *Marrubium*, *Menispermum*, *Ornithopus*, *Petroselinum*, *Phellodendron*, *Solanum*, *Solidago*, and *Zanthoxylum*. Like the previous ten volumes published between 1988 and 1998, it is tailored to the needs of advanced students, teachers, and research scientists in the field of pharmacy, plant

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*tissue culture, phytochemistry, biomedical engineering, and plant
biotechnology in general.*

The agricultural sector of medicinal (including plant stimulants) and aromatic plants is characterized by an enormous number and diversity of species. Only a few of them can be considered cultivated crops in which significant breeding efforts are made. For most species, however, breeding is performed in short-term projects only. Therefore, basic knowledge about these species is still fragmentary. Our intention is to compile and organize the available information on the most commonly utilized plant species into one publication, thereby providing a standardized resource for the researchers and the grower community. This book therefore provides reference source materials for a wide

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variety of plant species used for human consumption due to their flavor, medicinal or recreational properties. It is divided into a section of general topics on genetic resources, breeding adaptation of analytic methods and a compilation of basic data for DNA content, chromosome number and mating system followed by a section of 20 monographs on a species or species groups.

This book describes the various applications of microorganisms in improving plant growth, health and the efficiency of phytochemical production. The chapters trace topics such as the role of PGPRs in improving salt stress and heavy metal tolerance in plants; the prevention and control of plant diseases; boosting soil fertility and agriculture productivity; the induction of

secondary metabolite biosynthesis in medicinal and aromatic plants; the enhancement of phytochemical levels, and the action mechanisms, diversity and characterization of PGPRs. The reviews will be of interest for scientists in the fields of agriculture, microbiology, soil biology, plant breeding and herbal medicinal products.

New Vistas in Agroforestry

Biotechnology in Agriculture and Forestry

Impact of Deforestation on Medicinal Plants in Ghana

Plant-Growth-Promoting Rhizobacteria (PGPR) and Medicinal Plants

Medicinal and Aromatic Plants: The Basics of Industrial Application

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This book introduces the first part of a collection of exquisite coloured photographs which illustrate diverse wild medicinal and aromatic plant species in Jordan. It discusses 281 species from 58 families recorded from 400m below sea level (in the Dead Sea and the Jordan valley) to 2000m above sea level (in the North), and from the deserts of al-Azraq and Wadi Rum in the East and the South to the lush, black soils in the North, and along the Jordan River and water channels in the West. Information on species taxonomy and botanical affiliation, chemical constituents, plant parts used in medication,

medicinal and pharmacological importance, healing properties and uses in folk medicine is also presented. As such, the book is a valuable resource on diverse wild plant species of different growth habits and habitats used for culinary, health and other purposes.

"This booklet is intended to promote and create awareness about MAPs [medicinal aromatic plants] as a feasible diversification enterprise for small-scale farmers. It highlights the challenges and opportunities associated with MAPs as a diversification enterprise, and presents small-scale

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cultivation options, processing, marketing and selling strategies to achieve a successful livelihood diversification option for small-scale farmers"--Introduction.

This book, Medicinal and Aromatic Plants IX, like the previous eight volumes published in 1988, 1989, 1991, 1993, 1994, and 1995, is unique in its approach. It comprises twenty-four chapters dealing with the distribution, importance, conventional propagation, micropropagation, tissue culture studies, and the in vitro production of important medicinal and pharmaceutical compounds in various

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species of Agave, Anthemis, Aralia, Blackstonia, Catha, Catharanthus, Cephalocereus, Clerodendron, Coronilla, Gloeophyllum, Liquidambar, Marchantia, Mentha, Onosma, Paeonia, Parthenium, Petunia, Phyllanthus, Populus, Portulaca, Sandersonia, Serratula, Scoparia, and Thapsia. It is tailored to the needs of advanced students, teachers, and research scientists in the field of pharmacy, plant tissue culture, phytochemistry, biochemical engineering, and plant biotechnology in general.

Healthcare and Industrial Applications
Harvesting, Drying, and Processing

Production, Phytochemistry, and Utilization Scientific, Production, Commercial and Utilization Aspects

Medicinal and Aromatic Plants VI

It was in late 2002 that the idea of preparing a collection of multi-authored chapters on different aspects of ag- st forestry as a compendium for the 1 World Congress of Agroforestry, June 2004, was tossed around. With the approval of the idea by the Congress Organizing Committee, serious efforts to make it a reality got under way in early 2003. The rigorously peer-reviewed and edited manuscripts were submitted to the publisher in December 2003. Considering the many

different individuals involved in the task as authors and manuscript reviewers, we feel quite pleased that the task could be accomplished within this timeframe. We are pleased also about the contents on several counts. First of all, the tropical-temperate mix of topics is a rare feature of a publication of this nature. In spite of the scientific commonalities between tropical and temperate practices of agroforestry, the differences between them are so enormous that it is often impossible to mesh them together in one publication. Secondly, several of the chapters are on topics that have not been discussed or described much in agroforestry literature. A third feature is that some of the authors, though well known in their own disciplinary areas, are somewhat new to agroforestry; the perceptions and outlooks of these

scholars who are relatively uninfluenced by the past happenings in agroforestry gives a whole new dimension to agroforestry and broaden the scope of the subject. Finally, rather than just reviewing and summarizing past work, most chapters take the extra effort in attempting to outline the next steps.

Aroma has played a vital role, directly as well as indirectly, in the life of human beings since its appearance on the earth as a result of evolution. India, Egypt and Persia were amongst the first countries to have conceived the process of distillation of essential oils. Aromatic plants have essential or aromatic oils naturally occurring in them. They help heal mental ailments and other diseases. India is endowed with a rich wealth of medicinal plants. Aromatic (Aroma Producing) plants are those plants which

produce a certain type of aroma. Their aroma is due to the presence of some kind of essential oil with chemical constituents that contain at least one benzene ring in the their chemical configuration. These plants have made a good contribution to the development of ancient Indian material medica. In recent years, there has been a tremendous growth of interest in plant based drugs, pharmaceuticals, perfumery products, cosmetics and aroma compounds used in food flavors and fragrances and natural colors in the world. The chemical nature of these aromatic substances may be due to a variety of complex chemical compounds. There is a definite trend to adopt plant based products due to the cumulative derogatory effects resulting from the use of antibiotic and synthetics and except for a few cultivated

crops, the availability of plant based material is mainly from the natural sources like forests and wastelands. There is a need to introduce these crops into the cropping system of the county, which, besides meeting the demands of the industry, will also help to maintain the standards on quality, potency and chemical composition. During the past decade, demand for aromatic plants and its products has attracted the worldwide interest, India being the treasure house of biodiversity, accounts for thousands of species which are used in herbal drugs. 90% of herbal industry requirement of raw material is taken out from the forests. This book basically deals with cultivation of *matricaria chamomilla*, present agro production technology status of celery, cultivation of *ocimum gratissimum* linn. var *clocimum*, the production and

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perfume potential of jasminum collections, chemical modification of turmeric oil to more value added products, biologically active compounds from turpentine oil, folk medicinal uses of indigenous aromatic plants in nepal , traditional uses of selected aromatic plants of bhutan and their cultivation prospects, blending aspects of perfumes with turpentine constituents, the chemistry of mint flavour, essential oils of cinnamomum species, citral containing cymbopogon species etc. The aim of publishing this book is to provide multidisciplinary information on aromatic plants. The book covers method of cultivation and utilization of various aromatic plants. This is very useful book for farmers, technocrats, agriculture universities, libraries, new entrepreneurs etc.

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This book presents the opinions of an international panel of specialists that explored the agricultural, commercial, ecological, legal, pharmacological and social future of medicinal and aromatic plants. It represents a wide collection of views, reflecting the diversity of disciplines and interests of the panel members. It highlights the necessity of continued and integrated research on plant sources, conservation, bioactivity, analysis and marketing in examining future scenarios for application and sale of medicinal and aromatic plants. It shows the need for proof of efficacy and safety in drug development and the need to recognize societies contributing plant materials. The development of safe and effective medicinal and aromatic plant products depends upon the collaborative efforts of growers, collectors, conservationists,

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processors and businesses along with those of educators, sociologists, researchers and investors in developed and developing societies.

Cultivation Of Medicinal And Aromatic Crops

Medicinal & Aromatic Plants Abstracts

Medicinal and Aromatic Plants of the World - Africa Volume 3

Medicinal, Biochemical, and Agricultural Aspects

Diseases of Medicinal and Aromatic Plants and Their Management

Like the previous nine volumes published between 1988 and 1996, Medicinal and Aromatic Plants X is unique in its approach. It comprises 22 chapters

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dealing with the distribution, importance, conventional propagation, micropropagation, tissue culture studies, and the in vitro production of important medicinal and pharmaceutical compounds in various species of Actinidia, Alkanna, Arnebia, Campanula, Catharanthus, Centella, Chenopodium, Cornus, Cyanara, Ephedra, Euglena, Haplophyllum, Morus, Oenothera, Otacanthus, Oxalis, Polypodium, Rosmarinus, Sesamum, Solanum, Taxus, and Tephrosia. This book is tailored to the needs of advanced students, teachers, and research scientists in the field of

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*pharmacy, plant tissue culture, phytochemistry,
biochemical engineering, and plant biotechnology
in general.*

The current volume, "Medicinal and Aromatic Plants of the Middle-East" brings together chapters on selected, unique medicinal plants of this region, known to man since biblical times. Written by leading researchers and scientists, this volume covers both domesticated crops and wild plants with great potential for cultivation. Some of these plants are well-known medicinally, such as opium poppy and khat, while others such as aphraseomon

and citron have both ritual and medicinal uses. All have specific and valuable uses in modern society. As such, it is an important contribution to the growing field of medicinal and aromatic plants. This volume is intended to bring the latest research to the attention of the broad range of botanists, ethnopharmacists, biochemists, plant and animal physiologists and others who will benefit from the information gathered therein. Plants know no political boundaries, and bringing specific folklore to general medical awareness can only be for the benefit of all.

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

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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.

Medicinal and Aromatic Plants IX

Vol. 01. Horticulture Science Series

Medicinal and Aromatic Plants X

Breeding and Improvement

Medicinal and Aromatic Plants of the World

In the later part of the 20th century, the United States experienced a remarkable surge in public

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interest toward medicinal and aromatic crops and this trend continues. This consumer interest helped create a significant demand for plants with culinary and medicinal applications as the public discovers their benefits for a wide range of applications. Consequently, this consumer call has generated a huge demand on farmers, but has also provided opportunities for new agricultural crops to support both fresh and dry raw material markets. Processing raw materials for end use by consumers introduces even more variables at all levels from harvesting to final desired product. Maintaining quality and

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authenticity throughout this process has inspired farmers, processing facilities, and regulatory agencies to adopt new practices and new laws to maintain safety and quality. Maintaining this quality and authenticity is often made possible using analytical methods for quality control, which subsequently triggered a demand for both regulatory agencies and scientists throughout the world. For aforementioned reasons, it is imperative that scientists continue to explore related topics from the field to the final consumer product. This book touches on many of the issues currently being addressed by scientists working to

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produce the desired consumer product while maintaining authenticity and quality and environmental stewardship.

This book provides readers a fundamental understanding of the science and applications of medicinal and aromatic plant materials. Chapters of this handbook covers the basics of ethnobotany, (bio)active compounds and their natural sources. Information about the cosmetic, nutritional, medicinal and industrial uses (dyes, tannins and biocides) is also presented. Readers will also learn about concepts central to quality control processes, sustainable management, wild

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harvesting and the economic valuation of the industrial impact of endemic plants. The volume also presents a case study of the wormwood (*Artemisia absinthium* L.), which is helpful in explaining the above concepts. This book is intended as a handbook for undergraduate students and teaching professionals in research and higher education institutions involved in agricultural engineering, pharmacy, forestry, natural product chemistry. Non experts interested in aromatic and medicinal plant agriculture, transformation and commercialization will also find the content informative.

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In use as a medicinal plant since time immemorial in Europe and the Middle East, chamomile is gaining popularity in the Americas, Australia, and Asia. The spectrum of disease conditions in which it is used in traditional medicine systems is, quite simply, mind boggling. There is, without a doubt, a growing demand for this plant and therefore a growing need for an updated ready reference for the researchers, cultivators, and entrepreneurs who wish to work with chamomile. Chamomile: Medicinal, Biochemical, and Agricultural Aspects is just that. Based on extensive research, this book provides the latest information on the

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medicinal, aromatic, and cultivation aspects of chamomile. It covers chamomile's geographical distribution, taxonomy, chemistry, pharmacology, genetics, biochemistry, breeding, and cultivation. The book also discusses the profiles of the several medicinally active compounds of the oil and extracts and how their levels could be increased through breeding. The author highlights several potentially useful compounds discovered in the chamomile oil and extracts and discusses the cultivation and postharvest technology aspects of the plant in different agroclimatic zones including that of India. She presents guidelines on the good

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manufacturing practices laid out in different systems of medicine and provides an overview of the patents and products of chamomile especially important to researchers and entrepreneurs.

Although there is a plethora of information available on chamomile, the challenge has been finding a central repository that covers all aspects of the plant. Some books provide general coverage, others focus on only on pharmacological uses, and many are outdated. This book examines all aspects from cultivation and harvesting, to essential oil content and profile as well as pharmacology and biotechnology. It is a

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reference for current information, an entry point for further study, a resource for using oils and extracts in product development, and a guide for following best agronomic practices.

Medicinal and Aromatic Plants of the Middle-East

Medicinal and Aromatic Crops

Medicinal and Aromatic Plants

Medicinal and Aromatic Plants XI

Medicinal and Aromatic Plants I

The book entitled "Cultivation and Uses of Medicinal Plants" is an effort to provide systematic description of 175 medicinal plants of India. Description is given in

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very simple language that even a farmer can also understand cultivation practices and important points to be undertaken during their farming. There is increased demand of Amla, Harde, Baheda, Ashwagandha, Vinca and other medicinal plants by pharmacy companies but sources are very few. Major reason behind this factor is that farmers are not aware about medicinal plant farming and their useful properties. However, many national research institutes such as National Botanical Research Institute (NBRI), Central Institute of Medicinal and Aromatic Plants (CIMAP), Directorate of Medicinal and Aromatic

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Plants (DMAP) along with Agricultural Universities and traditional universities are working on the same aspect. But still in comparison with Allopathic medicines, traditional medicine is still not as successful; although literature showed their significance since ancient times of Vedas. Systematic literature regarding utility and cultivation of medicinal plants is not easily available. This book will be highly useful for researchers and students of botany, horticulture, pharmacy, ayurveda and agriculture.

Growing consumer interest in organic and herbal-

based products has led to great demand in the botanicals industry in the past few years. However, the growing number of products utilizing medicinal and aromatic plants (MAPs) has threatened an estimated 9,000 medicinal plant species worldwide, making it critical to reevaluate their research and development, production, and utilization. Continuing advances in Omics methodologies and instrumentation are essential to understanding how plants cope with the dynamic nature of their growing environment, how yields and characteristics can be improved, and how to most effectively direct conservation efforts. With a

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focus on metabolomics, genomics, proteomics, transcriptomics, and more, Medicinal and Aromatic Plants: Expanding Their Horizons through Omics illustrates the genetic mechanisms of MAPs, providing a better understanding of MAPs conservation and methods to improve characteristics for medical applications. With an introduction on the role of MAPs in human health, subsequent chapters discuss using proteomics to increase MAP yields and plant quality, genome editing, and CRISPR/Cas9. A valuable resource for farmers, scientists, chemists, biochemists, pharmacists, and students interested in

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medicinal and aromatic plants and plant biology,
Medicinal and Aromatic Plants: Expanding Their
Horizons through Omics ensures readers have the
background knowledge to put the necessary
methodologies into practice themselves. Includes in-
depth analysis of Omics technologies for the
enhancement of MAPs Discusses applications of MAPs
including their role in human health Written by world-
wide leading experts in the field

This book reports the proceedings of an international
panel of specialists that explored the agricultural,
commercial, ecological, legal, pharmacological and

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social future of medicinal and aromatic plants at a conference organized by Frontis – Wageningen International Nucleus for Strategic Expertise in Wageningen, The Netherlands. During the three-day conference, members of the panel presented and discussed a variety of facts, thoughts and opinions on research needs and potential importance of medicinal and aromatic plants among developed and developing societies. Hopefully, the information and particulars brought forth during presentations and discussions by panel members and summarized in these proceedings will initiate continued dialogue about the role and

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prospect of growing, collecting and processing medicinal and aromatic plants with pharmacological and industrial applications. As the reader will note, these proceedings represent a wide collection of views reflecting the diversity of disciplines and interests of panel members that enabled thoughtful deliberations from a range of perspectives. The panel highlighted the necessity of continued and integrated research on plant sources, conservation, bioactivity, analysis and marketing in examining future scenarios for application and sale of medicinal and aromatic plants. Of special concern was the need for proof of efficacy

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and safety in drug development and the need to
recognize societies contributing plant materials.

Medicinal Plants

Medicinal and Aromatic Plants in Asia

Health and Wealth from Medicinal Aromatic Plants

Expanding their Horizons through Omics

Chamomile

Make sure your crops are market-ready with the
aid of harvest and post-harvest mechanization

Medicinal and Aromatic Crops presents harvest and
post-harvest mechanization methods for the
profitable production of market-ready medicinal

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crops. This practical handbook includes photos, detailed figures, and schematic drawings of machines that will help bring existing design ideas to life and inspire new ones for use in harvesting and primary processing. The book also includes general information on medicinal and aromatic plants, current production trends, and “how-to” instructions for improving the production process. Even though the use of mechanization contributes not only to a marked increase in production, but also enables uniform quality and a decrease in drudgery for everyone involved, there’s a distinct

lack of material available of the subject. Medicinal and Aromatic Crops fills in the gap, providing a thorough, comprehensive look at every aspect of the mechanism of growing, harvesting, and processing, including production steps and procedures, safety and quality, plant drying, the use of renewable energy sources, dry processing, extraction, industrial usage, financial analysis, and software usage. Medicinal and Aromatic Crops examines: environmental concerns manual and semi-mechanized harvesting transport the use of solar energy and solid biomass energy pre- and

post-drying processes plant parts removal cutting, crushing, and milling post-drying separation and classification water and steam distillation and much more! Medicinal and Aromatic Crops is an invaluable guide to harvest and post-harvest mechanization for anyone involved in plant production and for agriculture educators and students.

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