

Applied Botany

REVISITING STRATEGIES FOR SUSTAINABLE DEVELOPMENT: an eConSus Book Series Vol. 2 Applied Botany Plant Biotechnology, Volume 2 Healing Plants of Nigeria Invasive Alien Species APPLIED BOTANY Plant-Bacteria Interactions Rodents of Sub-Saharan Africa Advances in breeding techniques for cereal crops Economic Botany Heavy Metals - Recent Advances The Hindu Kush Himalaya Assessment Evidence-Based Validation of Herbal Medicine                   Applied Botany Applied Botany Applied botany : a series of monographs Taxonomy and Applied Botany Applied Botany Series Applied botany and crop science Dr. Amitava Basu G. S. M. Ellis Sangita Sahni Anselm Adodo Thammineni Pullaiah Ratikanta Maiti Iqbal Ahmad Ara Monadjem Prof Frank Ordon Pandey B.P. Basim Almayyahi Philippus Wester Pulok K. Mukherjee George Allan Works [Anonymus AC02622294] Hendrik Cornelius Dirk de Wit [Anonymus AC02894945]

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this volume is the second of the new two volume plant biotechnology set this volume covers many recent advances in the development of transgenic plants that have revolutionized our concepts of sustainable food production cost effective alternative energy strategies microbial biofertilizers and biopesticides and disease diagnostics through plant biotechnology with the advancements in plant biotechnology many of the customary approaches are out of date and an understanding of new updated approaches is needed this volume presents information related to recent methods of genetic transformation gene silencing development of transgenic crops biosafety issues microbial biotechnology oxidative stress and plant disease diagnostics and management key features provides an in depth knowledge of various techniques of genetic transformation of plants chloroplast and fungus describes advances in gene silencing in plants discusses transgenic plants for various traits and their application in crop improvement looks at genetically modified foods and biodiesel production describes biotechnological approaches in horticultural and ornamental plants explores the biosafety aspect associated with transgenic crops considers the role of microbes in sustainable agriculture

healing plants of nigeria ethnomedicine and therapeutic applications offers comprehensive information on the use of herbal medicines in west africa combining an evidence based ethnobotanical perspective with a pharmacological and pharmaceutical approach to phytomedicine the book bridges the gap between the study of herbal plants pharmacological properties and active compounds for the development of clinical drugs and community oriented approaches emphasising local use it demonstrates how the framework of african traditional medicine can be preserved in a contemporary clinical context the book outlines the history and beliefs surrounding the traditional use of herbs by the local population alongside their application in contemporary phytotherapy in nigeria and west africa it features a critical assessment of the scientific rationale behind the use of these plants in ethnomedicine and offers a composite catalogue of phytotherapeutic and wellness agents detailing the safety profile efficacy and scientific integrity of plants used to treat diseases and optimise health features an ethnobotanical survey containing over 200 full colour photographs of nigerian and west african plants a unique combination of ethnobotany and pharmacognosy bridging the divide between pharmaceutical and community oriented approaches to herbal medicine research contextual discussion of the therapeutic potential of nigerian herbal medicine offers a template which can be used to separate the superstitious aspects of ethnomedicine from culturally inherited deposits of knowledge a handbook for herbal and natural medicine practitioners the book is aimed at african thinkers scientists healthcare providers and students of pharmacology and ethnomedicine

jedes jahr breiten sich invasive gebietsfremde arten in neue Ökosysteme aus die von den eindringlingen verursachten auswirkungen können sich in kürzester zeit bemerkbar machen und verheerend sein das thema der invasiven gebietsfremden arten ist umfassend komplex und auf verschiedenen ebenen von globaler bedeutung verschärft wird es durch die globalisierung der weltwirtschaft und den zunehmenden handel durch den die natürlichen barrieren für den transfer von arten durchbrochen werden invasive gebietsfremde arten bedrohen die weltweite nahrungsmittelversorgung die qualität und verfügbarkeit von trinkwasser sowie die stromproduktion und versorgung zusammen mit den zusätzlichen risiken durch den globalen klimawandel ist die weltweite homogenisierung von pflanzen tieren und mikrobe ein wesentlicher faktor für den sich verschlechternden gesundheitszustand der Ökosysteme und die nachlassenden Ökosystemdienstleistungen überall auf der welt um dieser entwicklung entgegenzuwirken besteht die dringende notwendigkeit einer einheitlichen ausrichtung von regierungen kulturen und programmen und einer besseren grenzüberschreitenden koordination nur so lassen sich die vielfältigen bedrohungen durch invasive gebietsfremde arten für die umwelt die wirtschaft und die gesundheit von pflanzen und tieren sowie insbesondere die menschliche gesundheit effektiv bekämpfen dieses vierbändige werk ist das erste das einen umfassenden satz nützlicher materialien zu den zentralen themen bereitstellt um die gesamte globale bedrohung durch invasive gebietsfremde arten sowie die vielfältigen probleme in verschiedenen teilen der welt deutlich zu machen und es enthält material in dem potenziell replizierbare lösungen zur Überwindung dieser bedrohungen aufgezeigt werden das werk betont die bedrohung durch invasive gebietsfremde arten auch im sinne eines

globalen aufrufs zum handeln invasive arten kennen keine grenzen daher hoffen wir dass wir durch die zusammenstellung von material das unterschiedliche wissenschaftliche und gesellschaftliche standpunkte aus aller welt berücksichtigt sowie durch die vermittlung von erkenntnissen und beispielen zu einer vielzahl damit zusammenhängender themen das globale bewusstsein stärken und einheitliche nationale reaktionen auf die bedrohung durch invasive gebietsfremde arten fördern können

with new discoveries and inventions in science application of botany has attained many dimensions besides the conventional application of botanical sciences forensic botany nanobotany phytoremediation and phytomining environmental impact assessment seed quality enhancement through priming are the new dimensions of applied botany the industrial applications of botany are in paper pulp rubber dye and gum industries at social front besides providing the livelihood and employment through cultivation of crops the branches of botany like community forestry are playing major role in the upliftment of folks use of mechanisms of carnivorous plants in plant protection and management of invasive plants for economic gains and conservation of biodiversity are new challenges in applied botany

here an extremely experienced team of authors from five different continents provides a timely review of progress in the use and exploitation of soil bacteria to improve crop and plant growth they present novel ideas on how to grow better more successful crops in an environmentally sound way making this invaluable reading for those working in the pharmaceutical biotechnological and agricultural industries

this comprehensive handbook covers all the rodents occurring in southern central east and west africa south of the sahara genus and species accounts include diagnostic descriptions systematics and taxonomy biogeographical environment fossil species photographs of skull and mandible illustrations of molar dentition photographs of live animals distribution maps and tables of standard museum measurements

assesses performance of conventional techniques such as backcross and hybrid breeding in introducing new traits maps current progress in methods to identify quantitative trait loci qtl linking phenotypic traits with genetic information for selection shows comparative strengths and weaknesses of marker assisted selection mas techniques such as genome wide association studies gwas and nested association mapping nam

for the students of b sc m sc and competitive examinations

heavy metals can be found everywhere on earth in water in the food we eat and even inside our bodies it is very important to learn more about heavy metals and how they can improve human life including how to use them and how to avoid harm this book covers several topics on heavy metals to enrich our knowledge about their effects removal and protection

this open access volume is the first comprehensive assessment of the hindu kush himalaya hkh region it comprises important scientific research on the social economic and environmental pillars of sustainable mountain

development and will serve as a basis for evidence based decision making to safeguard the environment and advance people's well being the compiled content is based on the collective knowledge of over 300 leading researchers experts and policymakers brought together by the hindu kush himalayan monitoring and assessment programme himap under the coordination of the international centre for integrated mountain development icimod this assessment was conducted between 2013 and 2017 as the first of a series of monitoring and assessment reports under the guidance of the himap steering committee eklabya sharma icimod atiq raman bangladesh yuba raj khatiwada nepal linxiu zhang china surendra pratap singh india tandong yao china and david molden icimod and chair of the himap sc this first hkh assessment report consists of 16 chapters which comprehensively assess the current state of knowledge of the hkh region increase the understanding of various drivers of change and their impacts address critical data gaps and develop a set of evidence based and actionable policy solutions and recommendations these are linked to nine mountain priorities for the mountains and people of the hkh consistent with the sustainable development goals this book is a must read for policy makers academics and students interested in this important region and an essentially important resource for contributors to global assessments such as the ipcc reports

evidence based validation of herbal medicines translational research on botanicals brings together current thinking and practice in the characterization and validation of natural products the book describes different approaches and techniques for evaluating the quality safety and efficacy of herbal medicine particularly methods to assess their activity and understand compounds responsible and their probable underlying mechanisms of action this book brings together the views expertise and experiences of scientific experts in the field of medicinal plant research hence it will be useful for researcher who want to know more about the natural lead with their validation and also useful to exploit traditional medicines includes state of the art methods for detecting isolating and performing structure elucidation by degradation and spectroscopic techniques highlights the trends in validation and value addition of herbal medicine with different scientific approaches used in therapeutics contains several all new chapters on topics such as traditional medicine inspired drug development to treat emerging viral diseases medicinal plants in antimicrobial resistance tlc bio profiling botanicals as medicinal foods bioprospecting and bioassay guided isolation of medicinal plants immunomodulators from medicinal plants and more

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