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ECONOMIC ZOOLOGY. **Genome Engineering for Crop Improvement** Phytochemistry **Modern Text Book of Zoology: Invertebrates** **Circular Economy for the Management of Operations** Ganitānanda *Soil Nitrogen Ecology* **Upconversion Nanophosphors** Forty-six Years of Indian Journal of Entomology **Developmental Biology** *Animal Behaviour* Applied and Economic Zoology *Emerging Technologies in Data Mining and Information Security* **Advanced Carbon Materials and Technology** **Cation Transporters in Plants** *The Physics of Semiconductor Devices* **Bioprospecting of Plant Biodiversity for Industrial Molecules** *Fish & Fisheries* **Ethnobotany of India, Volume 5** *Bioprospecting of Microorganism-Based Industrial Molecules* *Handbook of Universities* Elements of Entomology **Calcium Transport Elements in Plants** **A Pictorial Treatise on Gall Bladder Cancer Research** **Developments in Biometrics and Video Processing Techniques** **Climate Change and the Microbiome** **Fungal Diversity, Ecology and Control Management** The Devil Don **Targeting Chronic Inflammatory Lung Diseases Using Advanced Drug Delivery Systems** **Government Gazette Report Regarding the Facts and Circumstances Relating to the Death of Shri Deen Dayal Upadhyaya Deendayal Upadhyaya** **100 Inspirational Stories** **Ethnobotany of India, 5-Volume Set** *Phytomedicine* **Hybrid Phosphor Materials** *Algae* **Communities, Segments, Synonyms, Surnames and Titles** Economic Zoology Phytochemistry, 3-Volume Set **The**

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Political Thought of Pandit Deendayal Upadhyaya

Report Regarding the Facts and Circumstances Relating to the Death of Shri Deen

Dayal Upadhyaya Mar 31 2020

Emerging Technologies in Data Mining and Information

Security Oct 19 2021 This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) held at the University of Engineering & Management, Kolkata, India, during July 2020. The book is organized in three volumes and includes high-quality research work by academicians and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, and case studies related to all the areas of data mining, machine learning, Internet of things (IoT), and information security.

Upconversion

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Nanophosphors Mar 24 2022

Upconversion Nanophosphors provides detailed information about various lanthanide-based upconversion nanoparticles and their application in different fields. It will also help solve fundamental and applied problems of inorganic phosphor materials showing upconversion behavior, as well as generate innovative ideas related to the application of inorganic phosphor materials. This book will prove to be an invaluable reference work for scientists, engineers, industrial experts, and masters and PhD students working in the field of upconversion and materials science. Covers the synthesis and characterization of upconversion nanophosphors and their applications Highlights which classes of upconversion materials are suitable for a specific application Explores processes to engineer upconversion nanoparticles for state-of-the-art technologies, including

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upconversion labelling and counterfeiting, highly sensitive and selective biosensing, and upconversion-activated drug delivery

Elements of Entomology Jan 10 2021

Circular Economy for the Management of Operations

Jun 26 2022 Circular-Economy is a new concept in operations management. Its goal is to redefine growth, focusing on positive benefits arising for society as a whole out of efficiencies such as designing waste out the operations process. This book will help practitioners use the proper strategy for effective adoption of Circular practices to use in their organization. Features: Provides a complete understanding of Circular-Economy practices Offers advanced mathematical models to help industry management adopt the correct practices Presents a deep understanding of cross-functional and customer-focused design thinking Covers how to develop sustainable practices in all

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operations management.

Circular Economy for the Management of Operations will be of interest to practitioners and researchers in engineering as well as business management

Ganitānanda May 26 2022 This book includes 58 selected articles that highlight the major contributions of Professor Radha Charan Gupta—a doyen of history of mathematics—written on a variety of important topics pertaining to mathematics and astronomy in India. It is divided into ten parts. Part I presents three articles offering an overview of Professor Gupta's oeuvre. The four articles in Part II convey the importance of studies in the history of mathematics. Parts III-VII constituting 33 articles, feature a number of articles on a variety of topics, such as geometry, trigonometry, algebra, combinatorics and spherical trigonometry, which not only reveal the breadth and depth of Professor Gupta's work, but also highlight his deep commitment to the

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promotion of studies in the history of mathematics. The ten articles of part VIII, present interesting bibliographical sketches of a few veteran historians of mathematics and astronomy in India. Part IX examines the dissemination of mathematical knowledge across different civilisations. The last part presents an up-to-date bibliography of Gupta's work. It also includes a tribute to him in Sanskrit composed in eight verses.

Soil Nitrogen Ecology Apr 24 2022 This book highlights the latest discoveries about the nitrogen cycle in the soil. It introduces the concept of nitrogen fixation and covers important aspects of nitrogen in soil and ecology such as its distribution and occurrence, soil microflora and fauna and their role in N-fixation. The importance of plant growth-promoting microbes for a sustainable agriculture, e.g. arbuscular mycorrhizae in N-fixation, is discussed as well as perspectives of metagenomics, microbe-plant signal

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related aspects. This book enables the reader to bridge the main gaps in knowledge and carefully presents perspectives on the ecology of biotransformations of nitrogen in soil.

The Political Thought of Pandit Deendayal

Upadhyaya Jun 22 2019 In Indian context.

Advanced Carbon Materials and Technology Sep 17 2021

The expansion of carbon materials is multidisciplinary and is related to physics, chemistry, biology, applied sciences and engineering. The research on carbon materials has mostly focused on aspects of fundamental physics as they unique electrical, thermal and mechanical properties applicable for the range of applications. The electrons in graphene and other derived carbon materials behave as dirac fermions due to their interaction with the ions of the lattice. This direction has led to the discovery of new phenomena such as Klein tunneling in carbon based solid state systems and the so-called

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half-integer quantum Hall effect. Advanced Carbon Materials and Technology presents cutting-edge chapters on the processing, properties and technological developments of graphene, carbon nanotubes, carbon fibers, carbon particles and other carbon based structures including multifunctional graphene sheets, graphene quantum dots, bulky balls, carbon balls, and their polymer composites. This book brings together respected international scholars writing on the innovative methodologies and strategies adopted in carbon materials research area including Synthesis, characterization and functionalization of carbon nanotubes and graphene Surface modification of graphene Carbon based nanostructured materials Graphene and carbon nanotube based electrochemical (bio)sensors for environmental monitoring Carbon catalysts for hydrogen storage materials Optical carbon nanoobjects

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based biosensors Carbon doped cryogel films Bioimpact of carbon nanomaterials Photocatalytic nature of carbon nanotube based composites Engineering behavior of ash fills Fly ash syntactic foams microstructure

Government Gazette May 02 2020

The Devil Don Jul 04 2020

Chaitanya Upadhyay is from Dashrath a village in Vadodara, Gujarat. He has completed his schooling from Ankur Vidyalaya Dashrath and his Post graduation in Chemistry M.sc and from childhood itself he was fond of writing, he clearly remembers his first line which he wrote in the back of his Social Studies notebook in class 5 "mere ye pal ki zindagi" and now from the desk of his School, now he is a member of film Writers Association, completed more than 900 songs and has published his first thriller love story.

Forty-six Years of Indian
Journal of Entomology Feb 20 2022

Phytomedicine Dec 29 2019

Phytomedicine: A Treasure of
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Pharmacologically Active Products from Plants aims to present updated knowledge of plant-based medicines in terms of their research and development, production, and utilization, from the viewpoint of sustainability and by using the latest technologies. The book explores different phytometabolites on a mass scale, coupled with the efficacy, performance and applicability on target organisms to treat curable and fatal diseases. Readers will find a coherent package of phytotherapeutic information regarding inclusive assortment of research based, scientific amplitude of metabolites from the plant world encompassing various action plans. Information is presented sequentially regarding phytochemistry, biological activity and the serviceable aspects of bioactive compounds. The book also addresses various advancements and achievements of novel drugs from plants using molecular

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various technological tools in an ecofriendly fashion. Discusses phytotherapeutic properties for a wide range of medical conditions, including anti-pyretic, anti-infective, anti-malarial, Anti-AIDS, anti-diabetic, anti-cancerous, immune-modulatory applications Includes a discussion of synergistic effects of formulations and antagonistic drug interactions Addresses advancements and achievements of novel plant-based drugs using molecular, enzymatic activities and various technological tools in an eco-friendly fashion
Ethnobotany of India, Volume 5 Apr 12 2021
Ethnobotany of India, Volume 5: The Indo-Gangetic Region and Central India is the fifth of a five-volume set on the ethnobotany of India. Bringing together in one place information on the ethnobotany of the Indo-Gangetic Region and Central India, this volume presents the valuable details of the ethnobotanical aspects of many plants of the region.

Competent authors have been
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selected to summarize information on the various aspects of ethnobotany of India, such as ethnoecology, traditional agriculture, cognitive ethnobotany, material sources, traditional pharmacognosy, ethnoconservation strategies, bioprospection of ethno-directed knowledge, and documentation and protection of ethnobotanical knowledge. With chapters written by experts in the field, the book provides comprehensive information on the tribals (the indigenous populations of the region) and knowledge on plants that grow around them. The volume looks at ethnic diversity of people of the region ethnic food plants and food preparation ethnomedical aspects of plants of the region, including hepatoprotective properties, uses to alleviate skin diseases, contraceptive uses, the trade in Indian medicinal plants multidisciplinary approaches for herbal medicine exploration The volume includes the details of the plants studies, their

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medicinal uses, their scientific names, the specific parts used, and how the plants are used, providing the what, how, and why of plant usage. The book is well illustrated with 23 color and 6 b/w illustrations.

Together, the five volumes in the Ethnobotany of India series presents the available ethnobotanical knowledge of India in one place. India's ancient and culturally rich and diverse information and use of ethnobotany will be valuable to those in the fields of botany and plant sciences, pharmacognosy and pharmacology, nutraceuticals, and others. The books also consider the threat to plant biodiversity imposed by environmental degradation, which impacts cultural diversity.

Hybrid Phosphor Materials

Nov 27 2019 This book reports the basics of hybrid phosphor materials, their synthesis routes and their special properties and characterization techniques. It gives the reader information about the natural origins and development of

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hybrid materials, which are developed by combining inorganic and organic species in one material interface-determined materials. The book provides a general classification of hybrid materials, wherein inorganic materials modified by organic moieties are distinguished from organic materials or matrices modified by inorganic constituents. It gives a focus to the functionalization of organic materials by inorganic additives. The application areas covered include optoelectronic field, sensor applications, biological and environmental applications.

Communities, Segments, Synonyms, Surnames and Titles Sep 25 2019 Based on first-hand surveys, as well as secondary sources, Volume V111 contains a comprehensive list of communities across the country with their synonyms and segments, including allelogenous units, titles, and surnames.

Cation Transporters in Plants Aug 17 2021 Cation

Transporters in Plants presents
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expert information on the major cation transporters, along with developments of various new strategies to cope with the adverse effects of abiotic and biotic stresses. The book will serve as a very important repository for the scientist, researcher, academician and industrialist to enhance their knowledge about cation transport in plants. Further, applications listed in the book will facilitate future developments in crop designing strategies. This comprehensive resource provides an alternative strategy for abiotic and biotic stress management in agricultural and horticultural crops. In addition, it will further improve basic knowledge on the origin and mechanism of cation homeostasis and their role in developmental transition and stress regulation. Contains in-depth knowledge about various cation transporters in plants Provides information about important macro and micronutrient cation transporters and their

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applications in the agricultural and biotechnology sectors Facilitates agricultural scientists and industries in future crop designing strategies Provides an alternative strategy for abiotic and biotic stress management in agricultural and horticultural crops

A Pictorial Treatise on Gall Bladder Cancer Nov 07 2020

This book covers various aspects of gall bladder cancer, e.g. its epidemiology, etiology, pathology, clinical presentation, diagnosis, investigations, staging, management, prevention, etc. Gall bladder cancer is the most common form of biliary tract cancer worldwide, there are peculiar geographical variations in its incidence; while it is rare in the developed west (North America and Western Europe), high incidence rates are reported from Central and South America, Central and Eastern Europe, East Asia (Japan and Korea) and northern India. In addition, the book addresses a

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including thick walled gall bladder, gall bladder cancer with surgical obstructive jaundice, incidental gall bladder cancer, the role and place of common bile duct excision, the Japanese aggressive surgical approach, management of asymptomatic gall stones, etc. An authoritative work that provides detailed insights into various aspects of gall bladder cancer and its management, the book offers a valuable resource for physicians in high-incidence areas and low-incidence areas alike. It is richly illustrated throughout with radiographs (US, CT, MRI, etc.) and operative and specimen photos.

Handbook of Universities Feb 08 2021 The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of

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National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational

Institution For Their Career
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Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

Modern Text Book of Zoology: Invertebrates Jul 28 2022

[Economic Zoology](#) Aug 24 2019

Research Developments in Biometrics and Video

Processing Techniques Oct 07 2020

"This book investigates advanced techniques in user identification and security, including retinal, facial, and finger print scans as well as signature and voice authentication models"-- Provided by publisher.

Developmental Biology Jan 22 2022

Phytochemistry, 3-Volume Set Jul 24 2019

The 3-volume set, *Phytochemistry*, covers a wide selection of topics in phytochemistry and provides a wealth of information on the fundamentals, new applications, methods and

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modern analytical techniques, state-of-the-art approaches, and computational techniques. With chapters from professional specialists in their fields from around the world, the volumes deliver a comprehensive coverage of phytochemistry.

Phytochemistry is a multidisciplinary field, so this book will appeal to students in both upper-level students, faculty, researchers, and industry professionals in a number of fields, including biological science, biochemistry, pharmacy, food and medicinal chemistry, systematic botany and taxonomy, ethnobotany, conservation biology, plant genetic and metabolomics, evolutionary sciences, and plant pathology.

The Physics of Semiconductor Devices Jul 16 2021 This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that

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research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors.

[Phytochemistry](#) Aug 29 2022

As volume 2 of this three-volume set on phytochemistry, this book features chapters that comprehensively review a selection of important recent advances in ethnopharmacology and alternative and complementary medicines. It also presents many informative chapters on the medicinal potential of phytochemicals in the treatment and management of various diseases, such as cancer, diabetes, diabetic nephropathy, autoimmune diseases, neurological

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disorders, male infertility, and more.

Ethnobotany of India, 5-

Volume Set Jan 28 2020 This new 5-volume set, Ethnobotany of India, provides an informative overview of human-plant interrelationships in India, focusing on the regional plants and their medicinal properties and uses. Each volume focuses on a different significant region of India, including Volume 1: Eastern Ghats and Deccan Volume 2: Western Ghats and West Coast of Peninsular India Volume 3: North-East India and Andaman and Nicobar Islands Volume 4: Western and Central Himalaya Volume 5: The Indo-Gangetic Region and Central India With chapters written by experts in the field, the book provides comprehensive information on the tribals (the indigenous populations of the region) and knowledge on plants that grow around them. Each volume includes an introductory chapter with an overview of the region and then goes on to cover ethnic diversity and

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plants used for healing and medical purposes for humans and animals ethnic food plants and ethnic food preparation specific information on the ethnomedicinal plants, the parts used, and the diseases cured other uses of plants by the ethnic tribes, such as for fiber, dyes, flavor, and recreation conservation, documentation, and management efforts of the ethnic communities and their plant knowledge The books include the details of the plants used, their scientific names, the parts used, and how the plants are used, providing the what, how, and why of plant usage. The volumes are well illustrated with over 100 color and 130 b/w illustrations. Together, the five volumes in the Ethnobotany of India series bring together the available ethnobotanical knowledge of India in one place. India is one of the most important regions of the old world, and its ancient and culturally rich and diverse knowledge of ethnobotany will be valuable to many in the fields of botany and plant

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sciences, pharmacognosy and pharmacology, nutraceuticals, and others. The books also consider the threat to plant biodiversity imposed by environmental degradation, which impacts cultural diversity.

Applied and Economic Zoology

Nov 19 2021 Recently Applied and Economic Zoology has been included in national syllabus by UGC for undergraduates. The book examines insect pests, animal pests, natural enemies, beneficial insects, beneficial animals, agricultural chemicals and more. The current book is blueprint for undergraduate students to aware about our natural wild life and its economic importance. The book contains four chapters with illustrations and boxed materials. In the chapter 1, we have covered parasitology, in which we have deliberately discussed about parasites of domestic animals and human, structures, life cycles, pathogenicity, diseases, symptoms and it control. In

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about vectors and pests. Here, we covered life cycle and control of pest and vectors such as Gundhi bug, Sugarcane leafhopper, Rodents, Termites and Mosquitoes. Chapter 3 is about animal breeding and animal cultures. In this, we started with basic introduction about breeding and culture, difference between them and then detailed discussion about Animals and Human Society, Animal Breeding, Genetic engineering applications in Animal Breeding, Breeding and Variation, Aquaculture, Pisciculture, Poultry farming, Sericulture, Apiculture, Lac-culture. The last chapter has wild life of India. In this chapter we provided detail for Wild Life Protection and Acts, Documentation of Wild Life, Rare, Endangered and Endemic species, Protected Area Network, Conservation of Wild Life, In-situ and Ex-situ conservation.

Algae Oct 26 2019 This exciting book presents diverse applications of microalgal renewable resources to meet modern demands for energy

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and value-added products. It also comprehensively describes the role of algae in sustainable and cost-effective wastewater treatment strategies, and highlights the latest research on, advances in and biotechnological relevance of algae in the areas of bioenergy, bioremediation, pharmaceuticals, nutraceuticals and green economy. The book addresses gaps in the fields of bioenergy, waste management, health and economy by providing broad information on bioenergy production, management strategies, drug development, nutraceuticals products and biobased economy using algae at the commercial level. The book introduces researchers to key and emerging innovations in the field of algal biology research and will assist policymakers, environmentalists, scientists, students and global thinkers in defining sustainable developmental goals for the future. Accordingly, it is an extremely important read for researchers and students in the

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environmental sciences, life sciences and chemistry, experts in the energy sector and policymakers alike. *Bioprospecting of Microorganism-Based Industrial Molecules* Mar 12 2021 Discover a comprehensive and current overview of microbial bioprospecting written by leading voices in the field In *Bioprospecting of Microorganism-Based Industrial Molecules*, distinguished researchers and authors Sudhir P. Singh and Santosh Kumar Upadhyay deliver global perspectives of bioprospecting of biodiversity. The book covers diverse aspects of bioprospecting of microorganisms demonstrating biomass value of nutraceutical, pharmaceutical, biomedical, and bioenergetic importance. The authors present an amalgamation of translational research on bioresource utilization and ecological sustainability that will further the reader's knowledge of the applications of different microbial diversity and reveal

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new avenues of research investigation. Readers will also benefit from: A thorough introduction to microbial biodiversity and bioprospecting An exploration of anti-ageing and skin lightening microbial products and microbial production of anti-cancerous biomolecules A treatment of UV protective compounds from algal biodiversity and polysaccharides from marine microalgal sources Discussions of microbial sources of insect toxic proteins and the role of microbes in bio-surfactants production Perfect for academics, scientists, researchers, graduate and post-graduate students working and studying in the areas of microbiology, food biotechnology, industrial microbiology, plant biotechnology, and microbial biotechnology, Bioprospecting of Microorganism-Based Industrial Molecules is an indispensable guide for anyone looking for a comprehensive overview of the subject.

Genome Engineering for Crop Improvement Sep 29
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2022 In recent years, significant advancements have been made in the management of nutritional deficiency using genome engineering—enriching the nutritional properties of agricultural and horticultural crop plants such as wheat, rice, potatoes, grapes, and bananas. To meet the demands of the rapidly growing world population, researchers are developing a range of new genome engineering tools and strategies, from increasing the nutraceuticals in cereals and fruits, to decreasing the anti-nutrients in crop plants to improve the bioavailability of minerals and vitamins. Genome Engineering for Crop Improvement provides an up-to-date view of the use of genome editing for crop bio-fortification, improved bioavailability of minerals and nutrients, and enhanced hypo-allergenicity and hypo-immunogenicity. This volume examines a diversity of important topics including mineral and nutrient localization, metabolic

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engineering of carotenoids and flavonoids, genome engineering of zero calorie potatoes and allergen-free grains, engineering for stress resistance in crop plants, and more. Helping readers deepen their knowledge of the application of genome engineering in crop improvement, this book:

Presents genetic engineering methods for developing edible oil crops, mineral translocation in grains, increased flavonoids in tomatoes, and cereals with enriched iron bioavailability

Describes current genome engineering methods and the distribution of nutritional and mineral composition in important crop plants Offers perspectives on emerging technologies and the future of genome engineering in agriculture

Genome Engineering for Crop Improvement is an essential resource for academics, scientists, researchers, agriculturalists, and students of plant molecular biology, system biology, plant

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genomics.

Fish & Fisheries May 14 2021

Bioprospecting of Plant Biodiversity for Industrial Molecules Jun 14 2021

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

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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 through 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 Microbial Bioprospecting an indispensable

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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.

Deendayal Upadhyaya 100

Inspirational Stories Feb 29 2020 Pt. Deendayal

Upadhyaya, who treated upliftment of the person at the lowest rung of society as the main goal of nation-building, was an epitome of simplicity, but his divine values made him visionary and extraordinary. Every person considered himself blessed after coming in contact with him. He would never leave anybody disappointed. He would use his sharp and brilliant mind and try to find a solution to any problem brought to him by any person. He was bursting with honesty, conscientiousness, courage and leadership qualities. Unity and integrity of the nation always remained paramount to him and he

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constantly worked hard for the same. The exceptional example of collectivity, organisational skills and nationalism that he portrayed in his short but celebrated life would pave the way for not only the current but future generations also. These short stories from the inspirational life of Pandit Deendayal Upadhyaya, a great son of Mother India, would help others achieve something significant in their lives.

Fungal Diversity, Ecology and Control Management

Aug 05 2020 This edited volume provides comprehensive and latest information on the fungal biodiversity in its morphological characters, bioactive molecules, pathogenicity and virulence, and its impacts on crop production and sustainable management of agricultural productivity towards resolving global food security issues. The increasing number of infectious fungal diseases are regarded as threats to agricultural productivity and global food security. The efforts done by

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scientists to inventories the fungal diversity and identification of fungal species contributing as pathogens towards many plant and human diseases have been compiled in the present volume. The identification of the potential fungal pathogens is a prerequisite for an effective disease control management program. Also important is to understand the complex interactions between the host-pathogen and the environment. The book dwells on insights on the aforementioned aspects. The book also includes articles on ecological significance of fungi and fungal antagonists used as biocontrol agents on other pathogens. This compilation is useful to scientists working in similar areas as well as to undergraduate and graduate students keen on getting updated information on the subject. Scientists involved in agricultural research, crop management, and industries that manufacture agrochemicals may also find it useful read. .

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Targeting Chronic Inflammatory Lung Diseases Using Advanced Drug Delivery Systems Jun 02 2020

Targeting Chronic Inflammatory Lung Diseases Using Advanced Drug Delivery Systems explores the development of novel therapeutics and diagnostics to improve pulmonary disease management, looking down to the nanoscale level for an efficient system of targeting and managing respiratory disease. The book examines numerous nanoparticle-based drug systems such as nanocrystals, dendrimers, polymeric micelles, protein-based, carbon nanotube, and liposomes that can offer advantages over traditional drug delivery systems. Starting with a brief introduction on different types of nanoparticles in respiratory disease conditions, the book then focuses on current trends in disease pathology that use different in vitro and in vivo models. The comprehensive resource is designed for those

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specialized scientists and researchers involved in pulmonary research and drug development. Explores recent perspectives and challenges regarding the management and diagnosis of chronic respiratory diseases Provides insights into how advanced drug delivery systems can be effectively formulated and delivered for the management of various pulmonary diseases Includes the most recent information on diagnostic methods and treatment strategies using controlled drug delivery systems (including nanotechnology)

Animal Behaviour Dec 21 2021

1. Introduction to the Study of Animal Behaviour 2. Concepts of Ethology 3. Methods of Studying Behaviour 4. Mammalian Nervous System and Behaviour 5. Pheromones 86-108 6. Hormones and Behaviour 7. Biological Clocks 8. Orientation 9. Bird Migration and Navigation 10. Fish Migration 11. Social Organization 12. Wildlife 10 India Glossary Supplementary Reading

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Calcium Transport Elements in Plants

Dec 09 2020 Calcium Transport Elements in Plants discusses the role of calcium in plant development and stress signaling, the mechanism of Ca²⁺ homeostasis across plant membranes, and the evolution of Ca²⁺/cation antiporter (CaCA) superfamily proteins. Additional sections cover genome-wide analysis of Annexins and their roles in plants, the roles of calmodulin in abiotic stress responses, calcium transport in relation to plant nutrition/biofortification, and much more. Written by leading experts in the field, this title is an essential resource for students and researchers that need all of the information on calcium transport elements in one place. Calcium transport elements are involved in various structural, physiological and biochemical processes or signal transduction pathways in response to various abiotic and biotic stimuli. Development of high throughput sequencing technology has favored the

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characterization of numerous gene families in plants in recent years, including the calcium transport elements. Provides a complete compilation of detailed information on Ca²⁺ efflux and influx transporters in plants Discusses the mode of action of calcium transport elements and their classification Explores the indispensable role of Ca²⁺ in numerous developmental and stress related pathways
[ECONOMIC ZOOLOGY](#). Oct 31 2022

Climate Change and the Microbiome Sep 05 2020 This book highlights the impact of climate change on the soil microbiome and its subsequent effects on plant health, soil-plant dynamics, and the ecosphere. It also discusses emerging ideas to counteract these effects, e.g., through agricultural applications of functional microbes, to ensure a sustainable ecosystem. Climate change is altering the soil microbiome distributions and thus the interactions in microbiome and plant-soil microorganism. Improvement

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of our understanding of microbe-microbe and plant-microbe interaction under changing climatic conditions is essential, because the overall impact of these interactions under varying adverse environmental conditions is lacking. This book has been designed to understand the impact of climate change, i.e., mainly salt and drought stress, on the soil microbiome and its impact on plant, yield, and the ecosphere. The book is organized into four parts: The first part reviews the impact of climate change on the diversity

and richness of the soil microbiome. The second part addresses effects of climate change on plant health. The third part discusses effects on soil-plant dynamics and functionality, e.g., soil productivity. The final part deals with the effects of climate change on ecosystem functioning and also discusses potential solutions. The book will appeal to students and researchers working in the area of soil science, agriculture, molecular biology, plant physiology, and biotechnology.