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Materials and the Environment AOCs Publishing
 Industrial Oil Crops presents the latest information on important products derived from seed and other plant oils, their quality, the potential environmental benefit, and the latest trends in industrial uses. This book provides a comprehensive view of key oil crops that provide products used for fuel, surfactants, paints and coatings, lubricants, high-value polymers, safe plasticizers and numerous other products, all of which compete effectively with petroleum-derived products for quality and cost. Specific products derived from oil crops are a principle concern, and other fundamental aspects of developing oil crops for industrial uses are also covered. These include improvement through traditional breeding, and molecular, tissue culture and genetic engineering contributions to breeding, as well as practical aspects of what is needed to bring a new or altered crop to market. As such, this book provides a handbook for developing products from renewable resources that can replace those currently derived from petroleum. Led by an international team of expert editors, this book will be a valuable asset for those in product research and development as well as basic plant research related to oil crops. - Up-to-date review of all the key oilseed crops used primarily for industrial purposes - Highlights the potential for providing renewable resources to replace petroleum derived products - Comprehensive chapters on biodiesel and polymer chemistry of seed oil - Includes chapters on economics of new oilseed crops, emerging oilseed crops, genetic modification and plant tissue culture technology for oilseed improvement
Index Medicus Springer Science & Business Media
 Plant Analysis: An Interpretation Manual 2nd Edition is an easily accessible compilation of data summarising the range of nutrient concentration limits for crops, pastures, vegetables, fruit trees, vines, ornamentals and forest species. This information is valuable in assessing the effectiveness of fertiliser programs and for monitoring longer term changes in crop nutritional status. New to this edition: *Volume and scope of information accessed from the literature has expanded several-fold. Interpretation criteria for 294 species have been compiled in the tables from more than 1872 published papers. *New chapter on nutrient criteria for forest species. *Includes guidelines for collecting, handling and analysing plant material. An entire chapter is devoted to the identification of nutrient deficiency and toxicity symptoms.
Genome Size and Genetic Homogeneity of Regenerated Plants: Methods and Applications American Academic Press
 Analysis, Fate, and Toxicity of Engineered Nanomaterials in

Plants, Volume 84 in the Comprehensive Analytical Chemistry series, highlights new advances in the field, with this new volume presenting interesting chapters on the Current status of environmental monitoring, Physical principles of infrared, Chemical principles of infrared, Instrumentation and hardware, Data analysis, Sampling, Applications in water, Application in soil and sediments, Applications in ecology of animals and plants, Applications in air monitoring, Applications in contamination, Applications in marine environments, Advantages and pitfalls, and more. - Provides the authority and expertise of leading contributors from an international board of authors - Presents the latest release in the Comprehensive Analytical Chemistry series - Updated release includes the latest information on the field of engineered nanomaterials in plants
Analysis, Fate, and Toxicity of Engineered Nanomaterials in Plants Elsevier
 This book provides a systematic overview of the recent developments in the production and processing of jute and allied fibres, giving insight into ways to improve their productivity in order to keep pace with the growing needs of an increasing population. The book will be particularly beneficial to agronomists, soil scientists, pathologists, biotechnologists, seed production specialists, market managers, industrialists, development agencies, graduate and postgraduate students, and other stakeholders associated with jute and allied fibre crop improvement, or market development in the public and private sectors. The book may also help to generate ideas surrounding the formulation of public-private collaborative research for future innovations regarding this crop.
Plant Analysis CRC Press
 Growing awareness of environmental issues has led to increasing demand for goods produced from natural products, including natural fibres. The two-volume Handbook of natural fibres is an indispensable tool in understanding the diverse properties and applications of these important materials. Volume 2: Processing and applications focuses on key processing techniques for the improvement and broader application of natural fibres. Part one reviews processing techniques for natural fibres. Silk production and the future of natural silk manufacture are discussed, as well as techniques to improve the flame retardancy of natural fibres and chemical treatments to improve natural fibre properties. Ultraviolet-blocking properties, enzymatic treatment, and electrokinetic properties are also discussed. Part two goes on to investigate applications of natural fibres, including automotive applications, geotextiles, paper and packaging, and natural fibre composites (NFCs) for the construction and automotive industries. The use of flax and hemp, textiles made from jute and coir, antimicrobial natural fibres, and biomimetic textile materials are

also considered, before a final discussion of enhancing consumer demand for natural textile fibres. With its distinguished editor and international team of expert contributors, the two volumes of the Handbook of natural fibres are essential texts for professionals and academics in textile science and technology. - Focuses on key processing techniques for the improvement and broader application of natural fibres - Reviews processing techniques for natural fibres, including silk production and the future of natural silk manufacture - Discusses ultraviolet-blocking properties, enzymatic treatment, and electrokinetic properties, among other topics
Handbook of Natural Fibres Elsevier
 The Flax Genome is a comprehensive compilation of most recent studies focused on reference genome, genetic resources and molecular diversity, breeding, QTL mapping, gene editing tools, functional genomics and metabolomics, molecular breeding via genomic selection, and genomic resources. The flax genome reference sequences and the new genome assemblies are presented. A list of flax QTL and candidate genes associated with more than 35 traits, including yield and agronomic, seed quality and fatty acid composition, fibre quality and yield, abiotic stress, and disease resistance traits, are summarized. A QTL-based genomic selection strategy and genome-editing tools are systematically introduced. In addition, huge amounts of flax genomic resources generated in the last decade are summarized. The book contains 13 chapters with about 390 pages authored by globally reputed researchers in the relevant fields to this crop. The book is intended to be useful to students, teachers, and researchers interested in traditional and molecular breeding, pathology, molecular genetics and breeding, bioinformatics and computational biology, and functional genomics
Plant Glycobiology - A Sweet World of Glycans, Glycoproteins, Glycolipids, and Carbohydrate-Binding Proteins Springer Nature
 The present book is a compilation of current test methods useful in risk assessment of transgenic plants. It is intended to aid the environmental researcher in finding and comparing relevant methods quickly and easily. It may also be used as a general reference work for field-ecologists, laboratory- biologists and others working in plant population biology and genetics. The major processes affecting the fate of plants are covered with emphasis on invasion, competition and establishment, e.g., seed dispersal, density-dependent competition, and plant growth. Ecosystem effects and genetic structure are also covered. For each process a number of relevant test methods have been selected; in total, 84 methods for field, greenhouse or laboratory research are included, employing 51 key processwords. Each method is described and evaluated briefly and succinctly, and there are comments on assumptions, restrictions, advantages,

and applications. An extensive bibliography provides entry into the scientific background, and cross references make it possible quickly to find all relevant sources. Methods to study pollination and gene transfer will be considered in a future volume.

Industrial Oil Crops CRC Press

Plant improvement has shifted its focus from yield, quality and disease resistance to factors that will enhance commercial export, such as early maturity, shelf life and better processing quality. Conventional plant breeding methods aiming at the improvement of a self-pollinating crop usually take 10-12 years to develop and release of the new variety. During the past 10 years, significant advances have been made and accelerated methods have been developed for precision breeding and early release of crop varieties. This book focuses on the accelerated breeding technologies that have been adopted for major oil crops. It summarizes concepts dealing with germplasm enhancement and development of improved varieties based on innovative methodologies that include doubled haploidy, marker assisted selection, marker assisted background selection, genetic mapping, genomic selection, high-throughput genotyping, high-throughput phenotyping, mutation breeding, reverse breeding, transgenic breeding, shuttle breeding, speed breeding, low cost high-throughput field phenotyping, etc. This edited volume is therefore an excellent reference on accelerated development of improved crop varieties.

Flax Universidad de Antioquia

This reference is a timely compilation of studies of genome size and genetic stability of regenerated plants. It presents 13 book chapters that cover recent advancements in CRISPR/Cas-based genome editing, the use of molecular markers to analyze somaclonal variation in tissue culture, and genetic stability assessment in various plant species, including medicinally valuable plants like Valeriana and Coffea. The book also highlights the role of flow cytometry in investigating polyploidy and provides valuable insights into genetic fidelity assessment of micropropagated woody plants and orchids. The contributors have shed light on the intra-specific and inter-specific genome and chromosome number variation with reference to gene duplication and DNA sequence loss. Molecular techniques for detecting ploidy levels and genetic homogeneity in regenerated plantlets are also discussed. Additional highlights of the book include brief guidelines for experimental protocols for flow cytometry and molecular markers, coverage of a wide range of plants, and supporting references. This is an excellent reference for biologists, geneticists, and plant scientists exploring genetic homogeneity and genome size variation in diverse plant groups.

Accelerated Plant Breeding, Volume 4 Elsevier

Healthcare professionals, including doctors, pharmacists and nurses, are often confronted with patients who use over-the-counter (OTC) herbal medicinal products and food supplements. While taking responsibility for one's own health and treatment options is encouraged, many patients use these products based on limited (and sometimes inaccurate) information from non-scientific sources, such as the popular press and internet. There is a clear need to offer balanced, well-informed advice to patients, yet a number of studies have shown that, generally, conventionally trained health practitioners consider their knowledge about herbal medicinal products and supplements to be weak. Phytopharmacy fills this knowledge gap, and is intended for use by the busy pharmacist, nurse, or doctor, as well as the 'expert patient' and students of pharmacy and herbal medicine. It presents clear, practical and concise monographs on over a hundred popular herbal medicines and plant-based food supplements. Information provided in each monograph includes: • Indications • Summary and appraisal of clinical and pre-clinical evidence • Potential interactions • Contraindications • Possible adverse effects An overview of the current regulatory framework is also outlined, notably the EU Traditional Herbal Medicinal Products Directive. This stipulates that only licensed products or registered traditional herbal medicinal products (THR), which have assured quality and safety, can now legally be sold OTC. Monographs are included of most of the major herbal ingredients found in THRs, and also some plant-based food supplements, which while not strictly medicines, may also have the potential to exert a physiological effect.

Legumes and Oilseed Crops Springer Nature

Given the explosive development of new molecular marker techniques over the last decade, newcomers and experts alike in the field of DNA fingerprinting will find an easy-to-follow guide to the multitude of techniques available in DNA Fingerprinting in Plants: Principles, Methods, and Applications, Second Edition. Along with step-by-step annotated p

The Flax Genome Academic Press

Since 1995, when the first edition of Flaxseed in Human Nutrition was published, the consumer and food industry interest in flaxseed as a beneficial component in the human diet has continued to grow as the scientific literature on this subject has expanded over the past decade. This second edition of Flaxseed in Human Nutrition provides the current status of the knowledge about the analysis and composition of flaxseed, the metabolism and bioavailability of its major components, the effect of flaxseed on development and disease, processing of flaxseed, and

availability of flaxseed products. Some of the research in these areas was just emerging in the early to mid-1990's and was incomplete or not described when the first edition was published.

Linseed Springer Science & Business Media

This book provides all the aspects of microbes for food additives, and a detailed description of their different categories. The chapters provide a step-by-step overview of microbial food additives as enzymes, antioxidants, stabilizers, emulsifiers, organic acids, colorants, sweeteners, flavoring compounds that have been used commercially by industrialists. In addition, an emphasis on the use of microbes as therapeutic agents such as probiotics and enzymes have also been given in the respective chapters. Furthermore, the book also comprises the detailed description of legislation and policies for the use of microbial additives at large scale in different food industries. Therefore, this book provides a comprehensive, state of art updated literature which can be used by the food scientists, nutritionists, microbiologists and a health-conscious layman to check the food additive list on a product for a nutritious and safer food.

Compendium of Crop Genome Designing for Nutraceuticals Springer Nature

The crop plants cater not only to our basic F5 (food, feed, fiber, fuel, and furniture) needs but also provide a number of nutraceuticals with potential nutritional, safety and therapeutic properties. Many crop plants provide an array of minerals, vitamins, and antioxidant-rich bioactive phytochemicals. Increasing incidences of chronic diseases such as cancer, diabetes and HIV, and malnutrition necessitate global attention to health and nutrition security with equal emphasis to food security. This compendium compiles results of researches on biochemical, physiological and genetic mechanisms underlying biosynthesis of the health and nutrition related nutraceuticals. It also explores the precise breeding strategies for augmentation of their content and amelioration of their quality in crop plants under all commodity categories including cereals and millets, oilseeds, pulses, fruits and nuts, and vegetables. The compendium comprise 5 sections dedicated to these 5 commodity groups and presents enumeration on the concepts, strategies, tools and techniques of nutraceutomics. These sections include 50 chapters devoted to even number of major crop plants. These chapters present deliberations on the biochemistry and medicinal properties of the nutraceuticals contained; genetic variation in their contents; classical genetics and breeding for their quantitative and qualitative improvement; tissue culture and genetic engineering for augmentation of productivity and quality; and sources of genes underlying their biosynthesis. They also include comprehensive enumeration on genetic mapping of the genes and QTLs controlling the contents and profile of the nutraceuticals and molecular breeding for their further improvement through marker assisted selection and backcross breeding tools. Prospects of post-genomic precise breeding strategies including genome-wide association mapping, genomic selection, allele mining, and genome editing are also discussed. This compendium fills the gap in academia, and research and development wings of the private sector industries interested in an array of subjects including genetics, genomics, tissue culture, genetic engineering, molecular breeding, genomics-assisted breeding, bioinformatics, biochemistry, physiology, pathology, entomology, pharmacognosy, IPR, etc., and will also facilitate understanding of the policy making agencies and people in the socio-economic domain and research sponsoring agencies.

Flaxseed in Human Nutrition, Second Edition Butterworth-Heinemann

East Anglia has long been known for its internationally significant cultural and environmental Palaeolithic archaeology, often overshadowing the potential of its Holocene resource. This volume details the results of 8 years of palaeoenvironmental, archaeological and geoarchaeological investigations focused on the post-glacial history and evolution of the Suffolk river valleys, funded by Historic England and a number of commercial developers. The volume illustrates the largely untapped research potential of the region and provides information concerning the timing, pattern and process of alluvial development, landscape change, and human activity. The highlight of these investigations was the excavation and associated analyses of three well-preserved later prehistoric timber alignments and their environmental records, discovered during flood alleviation works on the floodplain of the lower Waveney Valley. As well as documenting these internationally significant remains, the research described includes innovative approaches to wetland archaeological and palaeoenvironmental study, highlighting important methodological considerations with respect to radiocarbon dating and chronology, applying novel geophysical approaches to site prospection, and recording wooden artefacts using 3-D laser scanning. The volume also discusses the results of groundwater monitoring of sediments containing the late prehistoric timber alignment at Beccles and considers the longer-term preservation potential of these fragile remains, which - as with other wetland archaeological sites - are at ever increasing risk from development pressures, as well as the longer term impacts of climate and environmental change.

Medicinal Plants and their Bioactive Compounds in Human

Health: Volume 1 Oxbow Books

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control and biodiversity depletion. Novel, environmentally-friendly solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy and social sciences. Indeed, sustainable agriculture decipher mechanisms of processes that occur from the molecular level to the farming system to the global level at time scales ranging from seconds to centuries. For that, scientists use the system approach that involves studying components and interactions of a whole system to address scientific, economic and social issues. In that respect, sustainable agriculture is not a classical, narrow science. Instead of solving problems using the classical painkiller approach that treats only negative impacts, sustainable agriculture treats problem sources. Because most actual society issues are now intertwined, global and fast-developing, sustainable agriculture will bring solutions to build a safer world.

Integrative Approaches to Biotechnology Frontiers Media SA

This book deliberates on the concept, strategies, tools, and techniques of allele mining in oilseed crops and its application potential in genome elucidation and improvement, including studying allele evolution, discovery of superior alleles, discerning new haplotypes, assessment of intra- and interspecific similarity, and studies of gene expression and gene prediction. Available gene pools in global germplasm collections, specifically consisting of wild allied species and local landraces for almost all major crops, have facilitated allele mining. The development of advanced genomic techniques, including PCR-based allele priming and Eco-TILLING-based allele mining, is now widely used for mining superior alleles. Allele's discovery has become more relevant now for employing molecular breeding to develop designed crop varieties matching consumer needs and with genome plasticity to adapt to climate change scenarios. All these concepts and strategies, along with precise success stories, are presented in the chapters dedicated to the major oilseed crops. 1. This is the first book on the novel strategy of allele mining in oilseed crops for precise breeding. 2. This book presents genomic strategies for mining superior alleles underlying agronomic traits from genomic resources. 3. This book depicts case studies of PCR-based allele priming and Eco-TILLING based allele mining. 4. This book elaborates on gene discovery and gene prediction in major oilseed crops. This book will be useful to students and faculties in various plant science disciplines, including genetics, genomics, molecular breeding, agronomy, and bioinformatics; scientists in seed industries; and policymakers and funding agencies interested in crop improvement.

The Valley of Kashmir John Wiley & Sons

Nutraceuticals and Natural Product Pharmaceuticals analyzes the nutraceutical and pharmaceutical research published over the last decade, paying particular attention to applications and recovery effects. The book emphasizes the great need for both nutritionists and pharmacologists to understand how these drugs can benefit human health. Topics explore innovative sources, bioavailability, pharmacokinetics, translating novel pathways and mechanisms of action into their clinical use, personalized nutrition and natural product medicine, the convergence between nutraceuticals and western medicine, interactions between drugs, nutrients, the microbiome and lifestyles, industrial applications and commercialization, metabolomics, nano-delivery systems and function, and more. Nutritionists and pharmacists working with natural products, food scientists, nutrition researchers and those interested in the development of innovative products, nutraceuticals, pharmaceuticals and functional foods are sure to benefit from this thorough resource. - Connects research from the nutraceutical and pharmaceutical industries - Promotes further communication and cooperation between pharmacologists and nutritionists by analyzing nutraceutical and pharmaceutical research in particular applications and recovery efforts - Explores the health effects of target compounds and the development of applications in both sectors

Phytopharmacy Elsevier

This book provides us a thorough overview of Crop Plant with current advance in research. Divided into two section based on the chapters contents. Chapter 1 provides information about markers and next generation sequencing technology and its use. Chapter 2 is about how we can use Silicon for Drought tolerance. Chapter 3 is to deal with the major problem of rising CO2 and O3 causing environmental pollution. Chapter 4 covers the phenomena of RNAi and its use, application in crop science. Chapter 5 is a review for boron deficiency in soils and how to deal with it for better crops. Chapter 6-10 provide some information regarding recent works going on in crop science.

Somaclonal Variation: Basic and Practical Aspects Springer Science & Business Media

Linseed: A Multipurpose-Multisector Crop of Industrial Significance provides a general overview of linseed as a multipurpose-

multisector crop for obtaining a number of valuable products. The book's sections present the use of linseed as food products and discuss a number of important topics, including genetic engineering and breeding advances, pre-harvest processing methods, advanced extraction and quality assessment, metabolic engineering, bioactivity, new food product development, chemistry, and functionality. The book also covers the use of

linseed in the textile sector and modified linseed oil products, animal feed products, cosmetics, and personal use products, along with their industrial significance. Food waste and the challenges of linseed crop production and processing into a number of industrial products are also discussed. This book acts as a comprehensive resource for food scientists, researchers, scholars, and industrial people related to food, nutraceutical,

cosmetics, pharmaceuticals, textiles, and health practitioners, especially dieticians and nutritionists. - Provides a general overview of linseed as a multipurpose-multisector crop for obtaining a number of valuable product - Covers the knowledge on the waste/by-products generated during the production and processing of linseed - Explores detection and identification of bioactive components from linseed

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