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ARTEMISIA ANNUA - PHARMACOLOGY AND BIOTECHNOLOGY

Springer Science & Business Media Artemisinin, a sesquiterpene lactone originally extracted from the medicinal plant Artemisia annua L., is an effective antimalarial agent, particularly for multi-drug resistant and cerebral malaria. However, the concentration of artemisinin in the plant is very low. Because the chemical synthesis of artemisinin is complicated and not economically feasible in view of the poor yield of the drug, the intact plant remains the only viable source of artemisinin production. Therefore, it is necessary to increase the concentration of artemisinin in A. annua to reduce the cost of artemisinin based antimalarial drugs. Plant scientists have focused their efforts on A. annua for a higher artemisinin crop yield. With the present volume, we are bringing together the research which is being done on this plant throughout the world and future possibilities for scientists and researchers who want to work on it.

CICATRISING CONJUNCTIVITIS

Karger Medical and Scientific Publishers Cicatrising conjunctivitis is one of the most challenging causes of ocular surface disease today and without appropriate intervention, corneal blindness or loss of sight from supervening infection is common. Because many of these

diseases are rare, there is often limited management experience available and the resources for research into treatment and pathogenesis are scarce. This book summarizes present treatment strategies and the clinical and laboratory studies validating these approaches. Topics discussed in this ambitious volume include an in-depth look at non-progressive causes including trachoma, Stevens-Johnson syndrome and ligneous conjunctivitis. It also examines chronic progressive conjunctival cicatrization, the diseases which cause it, their clinical and laboratory evaluation, immunopathogenesis, sequelae and management. Armed with this knowledge, successful intervention can be planned for the prevention and treatment of a group of diseases previously associated with poor prognoses. Ophthalmologists and dermatologists seeking practical advice about the management of these diseases will benefit most from this book.

INTELLIGENT ROBOTICS AND APPLICATIONS

14TH INTERNATIONAL CONFERENCE, ICIRA 2021, YANTAI, CHINA, OCTOBER 22-25, 2021, PROCEEDINGS, PART III

Springer Nature The 4-volume set LNAI 13013 - 13016 constitutes the proceedings of the 14th International Conference on Intelligent Robotics and Applications, ICIRA 2021, which took place in Yantai, China, during October 22-25, 2021. The 299 papers included in these proceedings were carefully reviewed and selected from 386 submissions. They were organized in topical sections as follows: Robotics dexterous manipulation; sensors, actuators, and controllers for soft and hybrid robots; cable-driven parallel robot; human-centered wearable robotics; hybrid system modeling and human-machine interface; robot manipulation skills learning; micro_nano materials, devices, and systems for biomedical applications; actuating, sensing, control, and instrumentation for ultra-precision engineering; human-robot collaboration; robotic machining; medical robot; machine intelligence for human motion analytics; human-robot interaction for service robots; novel mechanisms, robots and applications; space robot and on-orbit service; neural learning enhanced motion planning and control for human robot interaction; medical engineering.

COMPLICATIONS IN UVEITIS

Springer Nature This book will focus for the first time on how to avoid complications of uveitis, or how to deal with them either surgically or medically. Its uniqueness lies in the fact that all other books available on the subject of uveitis concentrate on pathogenesis, natural course, diagnosis and treatment of the uveitic entity itself, barely touching complications arising from inflammation. This book will be divided in chapters, each of them concentrating on a particular portion of the eye, from front to back, and how it can get affected by complications from inflammation. Inflammatory diseases causing these complications will be just

superficially touched, the main focus will be the pathogenesis of the actual complication, prevention and treatment. Every chapter will be introduced by a section by a uveitis specialist on how inflammation can cause that particular complication, and how we can avoid it. Then a specialist in the sector (cornea surgeon, glaucoma surgeon, etc) will describe management of the complication. This multi-disciplinary approach to complications of uveitis will provide to the readers the tools to prevent them, or to correctly manage them. It will be a book mainly directed to uveitis specialist but that could also interest other specialists.

CHINESE DRUGS OF PLANT ORIGIN

CHEMISTRY, PHARMACOLOGY, AND USE IN TRADITIONAL AND MODERN MEDICINE

Springer Science & Business Media Traditional Chinese medicine has been used for thousands of years by a large population. It is currently still serving many of the health needs of the Chinese people; and still enjoying their confidence it is practised in China in parallel with modern Western medical treatment. In addition to scientific organisations dedicated to modern Western medicine, e. g. the Chinese Academy of Medical Sciences and various medical schools, a series of parallel institutions have been established in China to promote traditional Chinese medicine, such as the Academy of Traditional Chinese Medicine and training institutions. Almost all hospitals in China have a department of traditional medicine. Furthermore, a large number of scientific journals are dedicated to traditional Chinese medicine, covering both experimental and clinical investigations. Medicinal materials constitute a key topic in the treatment of disease according to traditional Chinese medicine. The Chinese Pharmacopoeia (1985 edition) is therefore divided into two separate volumes, Volume I containing traditional Chinese medicinal materials and preparations and Volume II containing pharmaceuticals of Western medicine. The oldest Chinese review of medicinal materials, Shennong Bencao Jing (100-200 A. D.), covered 365 herbal drugs. The classic compilation in this field, Bencao Gangmu (Compendium of Materia Medica), was published in 1578 by Li Shi-zhen and recorded as many as 1898 crude drugs of plant, animal and mineral origin.

RETINAL PIGMENT EPITHELIUM IN HEALTH AND DISEASE

Springer Nature This book provides a contemporary resource on one of the major players in retinal diseases - the Retinal Pigment Epithelium (RPE). Throughout the book, the physiological and the pathological function of the RPE are covered on equal terms, to help readers to understand the RPE as a whole. Moreover, the development of RPE in diagnostics and therapy are covered, as well as some practical knowledge about RPE experimental models. Retinal Pigment Epithelium in Health and Disease highlights new findings of RPE research and includes the state-of-the-art knowledge of each RPE topic presented. This important feature sets this book apart from other publications, with the chapters following a design which leads from the general to the specific, to give a precise collection of the

facts known. The chapters are written by well-known experts that are currently active in the field as consultants, basic scientists, and group leaders, providing expert guidance on the current aspects and future outlooks of this topic.

POWERSKIN CONFERENCE

PROCEEDINGS

The PowerSkin Conference aims to address the role of building skins to accomplish a carbon neutral building stock. Topics such as building operation, embodied energy, energy generation and storage in context of facades, structure and environment are considered."

CANNABIS SATIVA L. - BOTANY AND BIOTECHNOLOGY

Springer This book highlights current Cannabis research: its botany, authentication, biotechnology, in vitro propagation, chemistry, cannabinoids biosynthesis, metabolomics, genomics, biomass production, quality control, and pharmacology. Cannabis sativa L. (Family: Cannabaceae) is one of the oldest sources of fiber, food and medicine. This plant has been of interest to researchers, general public and media not only due to its medicinal properties but also the controversy surrounding its illicit use. Cannabis has a long history of medicinal use in the Middle East and Asia, being first introduced as a medicine in Western Europe in the early 19th century. Due to its numerous natural constituents, Cannabis is considered a chemically complex species. It contains a unique class of terpeno-phenolic compounds (cannabinoids or phytocannabinoids), which have been extensively studied since the discovery of the chemical structure of tetrahydrocannabinol (Δ^9 -THC), commonly known as THC, the main constituent responsible for the plant's psychoactive effects. An additionally important cannabinoid of current interest is Cannabidiol (CBD). There has been a significant interest in CBD and CBD oil (extract of CBD rich Cannabis) over the last few years because of its reported activity as an antiepileptic agent, particularly its potential use in the treatment of intractable epilepsy in children.

BIOLOGY OF THE LOTUS BORER (PYRAUSTA PENITALIS GROTE)

HYPERTHERMIA IN CANCER THERAPY

G K Hall

THYME

THE GENUS THYMUS

CRC Press The genus Thymus consists of about 350 species of perennial, aromatic herbs and subshrubs native to Europe and North Africa. Various types of thyme are used all over the globe as condiments, ornamentals and sources of essential oil. Thyme oil (distilled from its leaves) is among the world's top ten essential oils, displaying antibacterial, antimyco

SHRINK SLEEVE TECHNOLOGY

Technological advances have vastly expanded the market for shrink sleeve labels. Today, full body decoration, 360-degree branding, the potential to decorate complex and intricate shapes, the ability to add tamper evidence, abrasion resistance and waterproof printed images are all possible due to constantly developing technology. With this increase in applications, shrink sleeve label popularity is growing fast, but advancement comes at a cost and the complexities involved in the production of these labels are also on the rise. Shrink sleeve label printing uses a variety of different films, with different degrees of shrink capability. Converters need knowledge of each of these films, along with the image distortion processes, and the shrinkability and performance requirements of inks. They must also understand the demands of the seaming process and how printed sleeves perform during shrinkage. This book can improve your shrink sleeve production by guiding you through the film, ink, printing and processing stages. Use the detailed information to improve quality, prevent errors and correct potential faults. Ultimately, you can increase the options offered to your clients and grow your business. Chapters include: An introduction to sleeves and sleeve technology Shrink sleeve substrates and their usage Design and origination for sleeve labels Printing technologies and inks for shrink sleeve decoration Converting heat shrink sleeve labels - slitting, seaming, sheeting 50 and finishing Shrink sleeving - using the right application and shrink tunnel technology Challenges, learnings and the quest for perfection

DISCOMFORT GLARE IN INTERIOR LIGHTING

ECO-ARCHITECTURE VII

HARMONISATION BETWEEN ARCHITECTURE AND NATURE

WIT Press Comprises a collection of papers presented at the 7th International Conference on Harmonisation between Architecture and Nature, this volume reviews the challenges and new opportunities of contemporary architecture. These papers cover the results of advances in design and new building technologies, as well as the development of new materials. Many of the changes are motivated

by a drive towards eco-architecture, trying to harmonise architectural products with nature. Another important issue is the adaptation of the architectural design to the natural environment, learning from nature and traditional construction techniques. Never before in history have architects and engineers had such a range of new processes and products open to them. In spite of that, the construction industry lags behind all others in taking advantage of a wide variety of new technologies. This is understandable, due to the inherent complexity and uniqueness of each architectural project. Advances in computer and information systems, including robotics, offers the possibility of developing new architectural forms, construction products and building technologies which are just now starting to emerge. Changes have also taken place in the way modern society works and lives, due to the impact of modern technologies. Patterns of work have been disrupted and changed, affecting transportation and the home environment. The demand is for a new type of habitat that can respond to the changes and the consequent requirements in terms of urban environment. The papers contained in this book deal with topics such as building technologies, design by passive systems, design with nature, cultural sensitivity, life cycle assessment, resources and rehabilitation and many others including case studies from many different places around the world. They will be of interest to architects, engineers, planners, physical scientists, sociologists and economists.

THE LOCAL GOVERNMENT FINANCE (SCOTLAND) ORDER 2021

Enabling power: Local Government Finance Act 1992, sch. 12, para. 1, 9 (4). Issued: 22.03.2021. Made: 19.03.2021. Laid before the Scottish Parliament: -. Coming into force: 20.03.2021. Effect: SSI. 2020/102 partially revoked. Territorial extent & classification: S. General. Supersedes draft SSI (ISBN 9780111049938) published 10.03.2021

INTRAOCULAR TUMORS

Springer Nature This book aims to cover all aspects of intraocular tumors. The chapters explain diagnosis and treatment plan in detail with the aid of step-by-step descriptions in the form of flow charts. An additional chapter covers imaging modalities that help in diagnosing these conditions. The book is written by subject experts from all over the world. The book includes latest treatment protocols and changing trends in management of ocular tumors. Chapter with special focus on genetics is included to help clinicians understand the condition better.

SLEEP—WAKE DISORDERS

Springer Science & Business Media Sleep-wake disorders frequently give rise to severe ailments and varied distresses in a great number of people in the world, disturbing their physical and mental activities and their social function. Sleep-wake disorders are now

classified into a great number of categories according to their clinical features and etiological factors. Patients with sleep-wake disorders are taken care of not only by specialists for such disorders but also by general physicians and specialists of different physical and mental disorders. In the recent years, the nature of sleep and sleep-wake disorders have been intensively studied by investigators belonging to different fields of science including medicine, biology, and psychology in many countries. It is very important for the progress of research that investigators working in the related fields in different countries meet together and exchange their findings and ideas. The Japanese-German International Symposium on Sleep-Wake Disorders was held on October 9-10th, 1996 in the old, beautiful city of Erfurt (Germany). This symposium was organized by Professor Karlheinz Meier-Ewert (Schwalmstadt, Germany) and Dr. Masako Okawa (Ichikawa, Japan), with support of the German Society of Sleep Research (President at that time, Professor J. H. Peter) and of the Japanese Society of Sleep Research (President at that time, Professor Y. Hishikawa).

ENCYCLOPEDIA OF LABELS AND LABEL TECHNOLOGY

An Encyclopaedia for the label producer and label user sectors, this reference provides a comprehensive understanding of the latest terms and terminology for all kinds of label and product decoration solutions.

PHOSPHORUS IN THE GLOBAL ENVIRONMENT

TRANSFERS, CYCLES AND MANAGEMENT

John Wiley & Son Limited However, the controls on phosphorus transfers through landscapes are complex, and an integrated approach by terrestrial and aquatic scientists is needed to develop such an understanding. The use of waterbodies as sensitive and fragile indicators of phosphorus losses from surrounding watersheds is an important step towards a comprehensive scientific approach.

ADVANCES IN HEMP RESEARCH

CRC Press Offering up-to-date information on the uses and composition of the plant, Advances in Hemp Research provides growers, researchers, manufacturers, and suppliers with methods and data for the processing and cultivation of hemp for textile and paper products. You will learn how recent advances in germplasm resources, breeding methods, and the improvement of physiological, morphological, and biochemical characteristics of the plant can strengthen hemp fiber, making it a profitable and important crop to study and to grow for uses in the textile and paper industries. Providing you with a complete update on the advances in research in several different areas, this text covers the entire spectrum of recent international hemp research and technological developments.

Advances in Hemp Research discusses many factors essential to the improvement of the crop and its uses, including: breeding techniques, agronomical practices, increased stress tolerance, and processing techniques that will enable the plant to produce high-quality fibers new cultivars to distinguish licit from illicit field cultivation the recent advances in crop physiology, such as radiation use efficiency, harvest index, and dry matter yields cultivation practices such as soil structure, manuring, harvesting, and crop rotation and how they contribute to optimal growing conditions for the plant current disease and control measures that lessen parasitic damage and loss of crops storing, processing, and marketing hemp as a component of paper, pulp, fiber, and oil Furthering the advancement of cannabis as an environmentally friendly and useful crop, this text supplies you with the information you need to successfully grow healthier and more resilient plants. Advances in Hemp Research will benefit your breeding studies or your business ventures by providing you with information and laboratory results that will help you successfully grow the cannabis plant for commercial use.

STRENGTH AND CONDITIONING FOR SPORTS PERFORMANCE

Routledge An effective strength and conditioning program is an essential component of the preparation of any athlete or sportsperson. Strength and Conditioning for Sports Performance is a comprehensive and authoritative introduction to the theory and practice of strength and conditioning, providing students, coaches and athletes with everything they need to design and implement effective training programs. Revised and updated for a second edition, the book continues to include clear and rigorous explanations of the core science underpinning strength and conditioning techniques and give detailed, step-by-step guides to all key training methodologies, including training for strength, speed, endurance, flexibility and plyometrics. The second edition expands on the opening coaching section as well as introducing an entirely new section on current training methods which includes examining skill acquisition and motor learning. Throughout the book the focus is on the coaching process, with every chapter highlighting the application of strength and conditioning techniques in everyday coaching situations. Strength and Conditioning for Sports Performance includes a unique and extensive section of sport-specific chapters, each of which examines in detail the application of strength and conditioning to a particular sport, from soccer and basketball to golf and track and field athletics. The second edition sees this section expanded to include other sports such as rugby union, rugby league and American football. The book includes contributions from world-leading strength and conditioning specialists, including coaches who have worked with Olympic gold medallists and international sports teams at the highest level. Strength and Conditioning for Sports Performance is an essential course text for any degree-level student with an interest in strength and conditioning, for all students looking to achieve professional accreditation, and an invaluable reference for all practising strength and conditioning coaches.

BIOACTIVES IN FRUIT

HEALTH BENEFITS AND FUNCTIONAL FOODS

Wiley-Blackwell For centuries we have known that fruit is important for health, but we are only just beginning to fully understand why. Bioactives in Fruit: Health Benefits and Functional Foods aims to summarise some of our current knowledge on the bioactive compounds that are associated with the health benefits of specific fruits with a strong emphasis on the validation of health benefits by human intervention trials. Reflecting the current interest in food and health, the book includes strategies to retain and enhance the bioactives in fruit through breeding, growing conditions, fruit storage, processing into ingredients and production of functional foods. To accomplish this task authors with expertise in biology, chemistry, pharmacology, food science, nutrition, medicine, and horticulture have contributed. They come from universities, government and industry funded research institutes and biotechnology and food companies in Europe, the United States, Asia and New Zealand to give the book a broad perspective. This book, describing fruit bioactives, their health benefits when consumed as a food and related topics regarding their development into fresh or processed functional foods, will be of use to postgraduate students, researchers, functional food product developers, food regulators and anyone who has curiosity about why fruit is good for you. The information contained within will provide plant breeders with new targets for the development of value-added horticultural products, and will also provide nutritionists and dieticians with a useful resource for developing strategies to assist in preventing or slowing disease onset or severity. Bioactives in Fruit: Health Benefits and Functional Foods is a major resource which will be required reading for anyone working in the fields of health and functional foods.

THE ROLE OF FERTILIZER IN SUSTAINING FOOD SECURITY AND PROTECTING THE ENVIRONMENT TO 2020

Intl Food Policy Res Inst In this discussion paper [the authors] review past trends in fertilizer use, estimate future needs, and assess technical and policy measures for dealing with environmental and energy concerns related to fertilizer use

THE LUMINOUS EQUIVALENT OF RADIATION

COLOR IN ARCHITECTURE

DESIGN METHODS FOR BUILDINGS, INTERIORS, AND URBAN SPACES

McGraw-Hill Professional Publishing This reference surveys the methods used by preeminent international designers to effectively

blend color, light, form, and space in the design process. Includes case studies contributed by leading world color authorities and examines the visual properties of color as applied to architecture and allied design.

FOURIER PTYCHOGRAPHIC IMAGING

A MATLAB TUTORIAL

Morgan & Claypool Publishers This book demonstrates the concept of Fourier ptychography, a new imaging technique that bypasses the resolution limit of the employed optics. In particular, it transforms the general challenge of high-throughput, high-resolution imaging from one that is coupled to the physical limitations of the optics to one that is solvable through computation. Demonstrated in a tutorial form and providing many MATLAB® simulation examples for the reader, it also discusses the experimental implementation and recent developments of Fourier ptychography. This book will be of interest to researchers and engineers learning simulation techniques for Fourier optics and the Fourier ptychography concept.

COMMUNICATING CURRENT RESEARCH AND EDUCATIONAL TOPICS AND TRENDS IN APPLIED MICROBIOLOGY

MEDICINAL AND AROMATIC PLANTS OF THE WORLD

SCIENTIFIC, PRODUCTION, COMMERCIAL AND UTILIZATION ASPECTS

Springer 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 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.

PLANT TISSUE CULTURE: PROPAGATION, CONSERVATION AND CROP IMPROVEMENT

Springer This book presents basic concepts, methodologies and applications of biotechnology for the conservation and propagation of aromatic, medicinal and other economic plants. It caters to the needs and challenges of researchers in plant biology, biotechnology, the medical sciences, pharmaceutical biotechnology and pharmacology areas by providing an accessible and cost-effective practical

approach to micro-propagation and conservation strategies for plant species. It also includes illustrations describing a complete documentation of the results and research into particular plant species conducted by the authors over the past 5 years. Plant Biotechnology has been a subject of academic interest for a considerable time. In recent years, it has also become a useful tool in agriculture and medicine, as well as a popular area of biological research. Current economic growth is globally projected in a highly positive manner, but the challenges many countries face with regard to food, feed, malnutrition, infectious diseases, the newly identified life-style diseases, and energy shortages, all of which are worsened by an ever-deteriorating environment, continue to pull the growth digits back. The common thread that connects all of the above challenges is biotechnology, which could provide many answers. Molecular biology and biotechnology have now become an integral part of tissue culture research. The tremendous impact generated by genetic engineering and consequently of transgenics now allows us to manipulate plant genomes at will. There has indeed been a rapid development in this area with major successes in both developed and developing countries. The book introduces several new and exciting areas to researchers who are unfamiliar with plant biotechnology and also serves as a review of ongoing research and future directions for scholars. The book highlights numerous methods for in vitro propagation and utilization of techniques in raising transgenics to help readers reproduce the experiments discussed.

INTERNATIONAL WEATHER FOR ENERGY CALCULATIONS (IWECD)

Contains "typical" weather data in ASCII format, suitable for use with building energy simulation programs, for 227 locations outside the USA and Canada. The files are derived from up to 18 years of DATSAV3 hourly weather data originally archived at the National Climatic Data Center. The weather data are supplemented by solar radiation estimated on an hourly basis from earth-sun geometry and hourly weather elements, particularly cloud amount information. This CD is the result of ASHRAE Research Project 1015. The CD contains the user's manual and complete research report in PDF, the weather data in printable ASCII format and a version of Adobe Acrobat Reader. To run Acrobat Reader, a 486 or Pentium-based computer and either Microsoft Windows 95 or Windows NT 3.5 or later is required. Will also run on a Macintosh. For Windows 95 and NT, 8MB of RAM (16MB recommended) and 10MB of free hard-disk space are required.

SKIN AGING, FREE RADICALS, AND ANTIOXIDANTS

Nova Biomedical This book describes mechanisms of skin damage generation and examines the potential impact of free radicals, reactive oxygen species (ROS) and oxidative damage on the skin aging process. It also evaluates methods to decrease skin oxidative stress, oxidative damage, and skin aging. The identification of free radical reactions as promoters of the skin aging process implies

that interventions aimed at limiting or inhibiting free radical reactions should be able to reduce the rate of formation of aging-related changes with a consequent reduction of the aging rate. This book highlights how aging of the skin happens, as well as what are the causes and the best ways to prevent and treat it.

ASPECTS OF COLOUR

Artikelsamling fra International Conference on Colour Education, UIAH, August 1994.

THE SUSTAINABLE CITY XIII

WIT Press Containing papers presented at the 13th International Conference on Urban Regeneration and Sustainability, this volume includes latest research providing solutions that lead towards sustainability. The series maintains its strong reputation and contributions have been made from a diverse range of delegates, resulting in a variety of topics and experiences.

ENVIRONMENTAL AND ARCHITECTURAL ACOUSTICS

CRC Press Adopting a multi-disciplinary approach to the practice of achieving a more acceptable acoustic environment, this book draws on the same basic principles to cover both the outdoors and indoor space. It starts with the fundamentals of sound waves and hearing and goes on to the measurement of noise and vibration, room acoustics, sound absorption, airb

ADVANCES IN UNDERSTANDING THE BIOLOGY OF HALOPHILIC MICROORGANISMS

Springer Science & Business Media This book is designed to be a long term career reference. The chapters present modern procedures. This is a how-to-book with a difference. These chapters: - reveal the background information about working with salt loving organisms, - are loaded with information about how experiments are conducted under high salt, - provide information about analyses that work under these conditions and those that may not, - present a wide range of details from laboratory designs to equipment used and even to simple anecdotal hints that can only come from experience. Microbiological training focuses largely on the growth, the handling and the study of the microbes associated with humans and animals. Yet the largest proportion of the Earth's microbiota lives in saline environments such as the Oceans, saline deserts and terminal hypersaline environments. This need for salt can be intimidating for those interested in entering the field or for those interested in understanding how such research is accomplished.

SPECIAL TOPICS IN STRUCTURAL DYNAMICS, VOLUME 6

PROCEEDINGS OF THE 31ST IMAC, A CONFERENCE ON STRUCTURAL DYNAMICS, 2013

Springer Science & Business Media Special Topics in Structural Dynamics, Volume 6: Proceedings of the 31st IMAC, A Conference and Exposition on Structural Dynamics, 2013, the sixth volume of seven from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: Teaching Experimental & Analytical Structural Dynamics Sensors & Instrumentation Aircraft/Aerospace Bio-Dynamics Sports Equipment Dynamics Advanced ODS & Stress Estimation Shock & Vibration Full-Field Optical Measurements & Image Analysis Structural Health Monitoring Operational Modal Analysis Wind Turbine Dynamics Rotating Machinery Finite Element Methods Energy Harvesting

COLOUR AND LIGHT

SPATIAL EXPERIENCE

Colour and Light: Spatial Experience describes the coherent interaction of light and colour in the spatial context. It explains the nature of light to colour specialists, and the nature of colour to light specialists, simultaneously conveying an understanding that light and colour must be thought of together. In addition, it brings out the apparent contradictions between the practically based knowledge of craftsmen, engineers and designers, and the theoretically based knowledge of academics in various disciplines. Including background context, facts and possible approaches, the book provides a basic understanding of light and colour, and their significance for humans in the spatial context.

BRASSICA IMPROVEMENT

MOLECULAR, GENETICS AND GENOMIC PERSPECTIVES

Springer Nature Global population is mounting at an alarming stride to surpass 9.3 billion by 2050, whereas simultaneously the agricultural productivity is gravely affected by climate changes resulting in increased biotic and abiotic stresses. The genus Brassica belongs to the mustard family whose members are known as cruciferous vegetables, cabbages or mustard plants. Rapeseed-mustard is world's third most important source of edible oil after soybean and oil palm. It has worldwide acceptance owing to its rare

combination of health promoting factors. It has very low levels of saturated fatty acids which make it the healthiest edible oil that is commonly available. Apart from this, it is rich in antioxidants by virtue of tocopherols and phytosterols presence in the oil. The high omega 3 content reduces the risk of atherosclerosis/heart attack. Conventional breeding methods have met with limited success in Brassica because yield and stress resilience are polygenic traits and are greatly influenced by environment. Therefore, it is imperative to accelerate the efforts to unravel the biochemical, physiological and molecular mechanisms underlying yield, quality and tolerance towards biotic and abiotic stresses in Brassica. To exploit its fullest potential, systematic efforts are needed to unlock the genetic information for new germplasms that tolerate initial and terminal state heat coupled with moisture stress. For instance, wild relatives may be exploited in developing introgressed and resynthesized lines with desirable attributes. Exploitation of heterosis is another important area which can be achieved by introducing transgenics to raise stable CMS lines. Doubled haploid breeding and marker assisted selection should be employed along with conventional breeding. Breeding programmes aim at enhancing resource use efficiency, especially nutrient and water as well as adoption to aberrant environmental changes should also be considered. Biotechnological interventions are essential for altering the biosynthetic pathways for developing high oleic and low linolenic lines. Accordingly, tools such as microspore and ovule culture, embryo rescue, isolation of trait specific genes especially for aphid, Sclerotinia and alternaria blight resistance, etc. along with identification of potential lines based on genetic diversity can assist ongoing breeding programmes. In this book, we highlight the recent molecular, genetic and genomic interventions made to achieve crop improvement in terms of yield increase, quality and stress tolerance in Brassica, with a special emphasis in Rapeseed-mustard.

THE EXCENTRIC BLUE AN ABRIDGED HISTORICAL REVIEW

FONDAZIONE GIORGIO RONCHI

Lucia Ronchi

COLOUR IMAGING

VISION AND TECHNOLOGY

Wiley-Blackwell Colour Imaging Vision and Technology Edited by Lindsay W. MacDonald and M. Ronnier Luo University of Derby, UK
 With every new computer now equipped with CD-ROM and high quality colour display and sound capabilities, multimedia imaging has become part of mainstream computing. Pressure is on developers to produce applications that make use of these facilities. This book examines the key enabling technologies for such applications including digital colour imaging, spanning the capture, processing,

encoding, transmission and reproduction of realistic colour images. * Extensive coverage of the multimedia materials and Web pages
* Improving quality of presentation * Covers a wide range of areas including colour imaging and multimedia user interface * Colour
illustrations Colour Imaging will appeal to a wide-ranging audience and is primarily aimed at colour engineers, colour researchers and
developers. It is also a valuable reference guide for undergraduates, MSc level students in colour imaging, new media developers and
manufacturers of imaging equipment. Visit Our Web Page! <http://www.wiley.com/>