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### KEY=MATA - RYAN ESSENCE

### SIGNS AND SYMBOLS

### THEIR DESIGN AND MEANING

*Discusses the elements of a sign, and looks at pictograms, alphabets, calligraphy, monograms, text type, numerical signs, symbols, and trademarks*

### BLUE BOOK ON GEOTHERMAL RESOURCES

### HEALTH BENEFITS OF MEDITERRANEAN DIET

**MDPI** Growing evidence shows that a dietary pattern inspired by Mediterranean diet principles is associated with numerous health benefits. A Mediterranean-type diet has been demonstrated to exert a preventive effect toward cardiovascular diseases, in both Mediterranean and non-Mediterranean populations. Part of these properties may depend on a positive action toward healthier metabolism, decreasing the risk of diabetes and metabolic-syndrome-related conditions. Some studies also suggested a potential role in preventing certain cancers. Finally, newer research has showed that a higher adherence to the Mediterranean diet is associated with a lower risk of cognitive decline, depression, and other mental disorders. Overall, a better understanding of the key elements of this dietary pattern, the underlying mechanisms, and targets, are needed to corroborate current evidence and provide insights on new and potential outcomes. This Special Issue welcomes original research and reviews of literature concerning the Mediterranean diet and various health outcomes: Observational studies on established nutritional cohorts (preferred), case-control studies, or population sample on the association with non-communicable diseases; Level of evidence on the association with human health, including systematic reviews and metaanalyses; Evaluation of application of Mediterranean diet principles in non-Mediterranean countries; Description of mechanisms of action, pathways, and targets at the molecular level, including interaction with gut microbiota.

### BOOKDOWN

### AUTHORING BOOKS AND TECHNICAL DOCUMENTS WITH R MARKDOWN

**CRC Press** bookdown: Authoring Books and Technical Documents with R Markdown presents a much easier way to write books and technical publications than traditional tools such as LaTeX and Word. The bookdown package inherits the simplicity of syntax and flexibility for data analysis from R Markdown, and extends R Markdown for technical writing, so that you can make better use of document elements such as figures, tables, equations, theorems, citations, and references. Similar to LaTeX, you can number and cross-reference these elements with bookdown. Your document can even include live examples so readers can interact with them while reading the book. The book can be rendered to multiple output formats, including LaTeX/PDF, HTML, EPUB, and Word, thus making it easy to put your documents online. The style and theme of these output formats can be customized. We used books and R primarily for examples in this book, but bookdown is not only for books or R. Most features introduced in this book also apply to other types of publications: journal papers, reports, dissertations, course handouts, study notes, and even novels. You do not have to use R, either. Other choices of computing languages include Python, C, C++, SQL, Bash, Stan, JavaScript, and so on, although R is best supported. You can also leave out computing, for example, to write a fiction. This book itself is an example of publishing with bookdown and R Markdown, and its source is fully available on GitHub.

### TOPOGRAPHICAL BIBLIOGRAPHY OF ANCIENT EGYPTIAN HIEROGLYPHIC TEXTS, STATUES, RELIEFS AND PAINTINGS

### OBJECTS OF PROVENANCE NOT KNOWN. INDICES TO PARTS 1 AND 2. STATUES. VOL.8

### FREE WOMEN OF SPAIN

### ANARCHISM AND THE STRUGGLE FOR THE EMANCIPATION OF WOMEN

**AK Press** *With fists upraised, Mujeres Libres struggled for their own emancipation and the freedom of all.*

### THE CAMBRIDGE HANDBOOK OF COGNITIVE AGING

### A LIFE COURSE PERSPECTIVE

**Cambridge University Press** Decades of research have demonstrated that normal aging is accompanied by cognitive change. Much of this change has been conceptualized as a decline in function. However, age-related changes are not universal, and decrements in older adult performance may be moderated by experience, genetics, and environmental factors. Cognitive aging research to date has also largely emphasized biological changes in the brain, with less evaluation of the range of external contributors to behavioral manifestations of age-related decrements in performance. This handbook provides a comprehensive overview of cutting-edge cognitive aging research through the lens of a life course perspective that takes into account both behavioral and neural changes. Focusing on the fundamental principles that characterize a life course approach - genetics, early life experiences, motivation, emotion, social contexts, and lifestyle interventions - this handbook is an essential resource for researchers in cognition, aging, and gerontology.

### ADVANCES IN SOCIAL AND OCCUPATIONAL ERGONOMICS

### PROCEEDINGS OF THE AHFE 2019 INTERNATIONAL CONFERENCE ON SOCIAL AND OCCUPATIONAL ERGONOMICS, JULY 24-28, 2019, WASHINGTON D.C., USA

**Springer** This book reports on cutting-edge research on social and occupational ergonomics, presenting innovative contributions to the optimization of sociotechnical management systems related to organizational, policy, and logistical issues. It discusses timely topics related to communication, crew resource management, work design, participatory design, as well as teamwork, community ergonomics, cooperative work, and warning systems, and explores new work paradigms, organizational cultures, virtual organizations, telework, and quality management. The book also describes pioneering infrastructures implemented for different purposes such as urban, health, and enterprise, and examines the changing role of automated systems, offering innovative solutions that address the needs of particular populations. Based on the AHFE 2019 International Conference on Social and Occupational Ergonomics, held on July 24-28, 2019, Washington D.C, USA, the book provides readers with a comprehensive overview of the current challenges in both organizational and occupational ergonomics, highlighting key connections between them and underlining the importance of emotional factors in influencing human performance.

### ECONOMETRICS AND INCOME INEQUALITY

**MDPI** This book is a printed edition of the Special Issue "Econometrics and Income Inequality" that was published in Econometrics

### ENERGY EFFICIENCY IN BUILDINGS

### BOTH NEW AND REHABILITATED

**MDPI** Buildings are one of the main causes of the emission of greenhouse gases in the world. Europe alone is responsible for more than 30% of emissions, or about 900 million tons of CO<sub>2</sub> per year. Heating and air conditioning are the main cause of greenhouse gas emissions in buildings. Most buildings currently in use were built with poor energy efficiency criteria or, depending on the country and the date of construction, none at all. Therefore, regardless of whether construction regulations are becoming stricter, the real challenge nowadays is the energy rehabilitation of existing buildings. It is currently a priority to reduce (or, ideally, eliminate) the waste of energy in buildings and, at the same time, supply the necessary energy through renewable sources. The first can be achieved by improving the architectural design, construction methods, and materials used, as well as the efficiency of the facilities and systems; the second can be achieved through the integration of renewable energy (wind, solar, geothermal, etc.) in buildings. In any case, regardless of whether the energy used is renewable or not, the efficiency must always be taken into account. The most profitable and clean energy is that which is not consumed.

### NEW INSIGHTS INTO RETINAL DEGENERATIVE DISEASES

**Springer Science & Business Media** Since 1984, we have organized satellite symposia on retinal degenerations that are held in conjunction with the biennial International Congress of Eye Research. The timing and location of our Retinal Degeneration Symposia have allowed scientists and clinicians from around the world to convene and present their exciting new findings. The symposia have been arranged to allow ample time for discussions and one-on-one interactions in a relaxed atmosphere, where international friendships and collaborations could be established. The IXth International Symposium on Retinal Degeneration was held on October 9-14, 2000 in Durango, Colorado and was attended by over 100 scientists from six continents. This book contains many of their presentations. Several events of note occurred at this meeting. First, thanks to the generous support of the Foundation Fighting Blindness, we were able to sponsor the travel of 11 young scientists from six countries.

Most of them have contributed chapters to this volume. The response to the travel program was so overwhelming that we will make it regular feature of our meeting. This will allow other bright, young investigators to be introduced to the world experts who study retinal degenerations. Second, about 40% of the scientists who attended this meeting were there for the first time. We believe that this indicates a growing interest in retinal degeneration research and ensures that new talent will be attracted to this important area of investigation. The symposium received support from several organizations.

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## PULMONARY FUNCTIONAL IMAGING

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### BASICS AND CLINICAL APPLICATIONS

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**Springer Nature** This book reviews the basics of pulmonary functional imaging using new CT and MR techniques and describes the clinical applications of these techniques in detail. The intention is to equip readers with a full understanding of pulmonary functional imaging that will allow optimal application of all relevant techniques in the assessment of a variety of diseases, including COPD, asthma, cystic fibrosis, pulmonary thromboembolism, pulmonary hypertension, lung cancer and pulmonary nodule. Pulmonary functional imaging has been promoted as a research and diagnostic tool that has the capability to overcome the limitations of morphological assessments as well as functional evaluation based on traditional nuclear medicine studies. The recent advances in CT and MRI and in medical image processing and analysis have given further impetus to pulmonary functional imaging and provide the basis for future expansion of its use in clinical applications. In documenting the utility of state-of-the-art pulmonary functional imaging in diagnostic radiology and pulmonary medicine, this book will be of high value for chest radiologists, pulmonologists, pulmonary surgeons, and radiation technologists.

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### HEALTH SYSTEMS PERFORMANCE ASSESSMENT

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#### DEBATES, METHODS AND EMPIRICISM

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**World Health Organization** The World Health Report 2000 has generated considerable media attention, controversy in some countries, and debate in academic journals. This volume brings together in one place the substance of many of these key debates and reports, methodological advances, and new empiricism reflecting the evolution of the WHO approach since the year 2000. Specifically, the volume presents many differing regional and technical perspectives on key issues, major new methodological developments, and a quantum increase in the empirical basis for cross-country performance assessment. It also gives the full report of the Scientific Peer Review Group's exhaustive assessment of these new approaches.

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### INFRARED SPECTROSCOPY IN CONSERVATION SCIENCE

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**Getty Publications** This book provides practical information on the use of infrared (IR) spectroscopy for the analysis of materials found in cultural objects. Designed for scientists and students in the fields of archaeology, art conservation, microscopy, forensics, chemistry, and optics, the book discusses techniques for examining the microscopic amounts of complex, aged components in objects such as paintings, sculptures, and archaeological fragments. Chapters include the history of infrared spectroscopy, the basic parameters of infrared absorption theory, IR instrumentation, analysis methods, sample collection and preparation, and spectra interpretation. The authors cite several case studies, such as examinations of Chumash Indian paints and the Dead Sea Scrolls. The Institute's Tools for Conservation series provides practical scientific procedures and methodologies for the practice of conservation. The series is specifically directed to conservation scientists, conservators, and technical experts in related fields.

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### THE PRODUCE CONTAMINATION PROBLEM

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#### CAUSES AND SOLUTIONS

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**Academic Press** Understanding the causes and contributing factors leading to outbreaks of food-borne illness associated with contamination of fresh produce is a worldwide challenge for everyone from the growers of fresh-cut produce through the entire production and delivery process. The premise of *The Produce Contamination Problem* is that when human pathogen contamination of fresh produce occurs, it is extremely difficult to reduce pathogen levels sufficiently to assure microbiological safety with the currently available technologies. A wiser strategy would be to avoid crop production conditions that result in microbial contamination to start. These critical, problem-oriented chapters have been written by researchers active in the areas of food safety and microbial contamination during production, harvesting, packing and fresh-cut processing of horticultural crops, and were designed to provide methods of contamination avoidance. Coverage includes policy and practices in the United States, Mexico and Central America, Europe, and Japan. Addresses food-borne contaminations from a prevention view, providing proactive solutions to the problems. Covers core sources of contamination and methods for identifying those sources. Includes best practice and regulatory information.

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### SURGICAL MANAGEMENT OF AORTIC PATHOLOGY

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#### CURRENT FUNDAMENTALS FOR THE CLINICAL MANAGEMENT OF AORTIC DISEASE

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**Springer** This book follows the concept of perceiving the entire aorta as one functional organ assuming that all individual pathologies and local interventional procedures affect the up- and downstream segments with consequences for complications and disease progression. Thus any preventive or surgical strategy must recognize the aortic disease in its entirety. The book intends to cover the full spectrum of aortic pathologies, mechanisms and functional interplay. The latest available diagnostic tools and options for surgical treatment are presented by the foremost experts in their field in state-of-the-art reviews. The reader is provided with the most current and comprehensive insight into all fundamental and clinical aspects of aortic disease. All chapters are carefully complemented with figures and illustrations.

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### THE ODD 15 OUT

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#### HOW TO BE COOL AND OTHER THINGS I DEFINITELY LEARNED FROM GROWING UP

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Hilarious stories and advice about the ups and downs of growing up, from a hugely popular YouTube artist and storyteller.

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### MARCH'S ADVANCED ORGANIC CHEMISTRY

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#### REACTIONS, MECHANISMS, AND STRUCTURE

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John Wiley & Sons

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### THE SUBLIME QURAN

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Library of Islam, Limited First translation by American woman. Refutes husbands can beat their wives.

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### THE PSYCHOLOGY OF HUMAN THOUGHT

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CUP Archive

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### IMMUNOSENESCENCE

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**Springer Science & Business Media** Human immunosenescence contributes to morbidity and mortality in later life. Understanding the reasons for age-associated alterations to protective immunity in the elderly would ultimately improve and extend healthspan. The majority of the papers collected in this remarkable and timely volume address the mechanisms responsible for immune ageing in humans. They also consider what might be accomplished to redress the erosion of immune competence with age.

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### CURRENT TRENDS IN HIGH PERFORMANCE COMPUTING AND ITS APPLICATIONS

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#### PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING AND APPLICATIONS, AUGUST 8-10, 2004, SHANGHAI, P.R. CHINA

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**Springer Science & Business Media** A large international conference on High Performance Computing and its applications was held in Shanghai, China, August 8-10, 2004. It served as a forum to present current work by researchers and software developers from around the world as well as to highlight activities in the high performance computing area. It aimed to bring together research scientists, application - oneers, and software developer to discuss problems and solutions and to identify new issues in this area. The conference focused on the design and analysis of high performance computing algorithms, tools, and platforms and their scientific, engineering, medical, and industrial applications. It drew about 150 participants from Canada, China, Germany, India, Iran, Japan, Mexico, Singapore, South Korea, the United Kingdom, and the United States of America. More than 170 papers were received on a variety of subjects in modern high performance computing and its applications, such as numerical and software algorithm design and analysis, grid computing advance, adaptive and parallel algorithm development, distributing debugging tools, computational grid and network environment design, computer simulation and visualization, and computational language study and their applications to science, engineering, and medicine. This book contains ninety papers that are representative in these subjects. It serves as an excellent research reference for graduate students, scientists, and engineers who work with high performance computing for problems arising in science, engineering, and medicine. This conference would not have been possible without the support of a number of organizations and agencies and the assistance of many people.

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### GUIDE TO MEDICINAL PLANTS, A: AN ILLUSTRATED SCIENTIFIC AND MEDICINAL APPROACH

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**World Scientific** This book presents up-to-date information on a total of 75 native and non-native medicinal plants growing in Singapore. Comprehensive and useful information from the published literature — including plant descriptions and origins, traditional medicinal uses, phytoconstituents, pharmacological activities, adverse reactions, toxicities, and reported drug-herb interactions — is presented in an easy-to-read manner for easy and quick reference. There is no minimum level of knowledge required to read this book, and botanical and medical glossaries are also provided for readers' convenience. The book will be of great practical benefit to a wide-ranging audience. Educators and students in complementary medicine and health, pharmacognosy, medicinal chemistry, natural products,

pharmacology, toxicology, pharmacovigilance, medicine, pharmacy, nursing, botany, biology, chemistry and life sciences will find the information useful. The book will also appeal to clinicians, pharmacists, nurses and researchers, as it contains a comprehensive reference list at the end for further reading.

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## SNAKES OF THE WORLD

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### A SUPPLEMENT

**CRC Press** *Snakes of the World: A Catalogue of Living and Extinct Species*, published in 2014, was the first catalogue of its kind and covered all living and fossil snakes described between 1758 and 2012. This new volume will be a supplement to this important herpetological reference and will include new published data on snakes named and recognized since 2012. Key Features Supplements and updates Wallach et al. - *Snakes of the World* - the only work to cover all living snakes in the world. Includes updates for fossil snakes named since the publication of Wallach et al. Summarizes the systematic snake literature published since the appearance of Wallach et al. Genera and species are listed alphabetically for ease of reference. Related Titles Wallach, V., K. L. Williams, and J. Boundy. *Snakes of the World: A Catalogue of Living and Extinct Species* (ISBN 978-1-138-03400-6) Aldridge, R. D. and D. M. Sever, eds. *Reproductive Biology and Phylogeny of Snakes* (ISBN 978-1-57808-701-3) Caldwell, M. W. *The Origin of Snakes: Morphology and the Fossil Record* (ISBN 978-1-4822-5134-0)

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## DEVELOPMENT OF MUSLIM THEOLOGY, JURISPRUDENCE AND CONSTITUTIONAL THEORY

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Library of Alexandria

### YEAST TECHNOLOGY

**Springer Science & Business Media** Yeasts are the active agents responsible for three of our most important foods - bread, wine, and beer - and for the almost universally used mind/ personality-altering drug, ethanol. Anthropologists have suggested that it was the production of ethanol that motivated primitive people to settle down and become farmers. The Earth is thought to be about 4.5 billion years old. Fossil microorganisms have been found in Earth rock 3.3 to 3.5 billion years old. Microbes have been on Earth for that length of time carrying out their principal task of recycling organic matter as they still do today. Yeasts have most likely been on Earth for at least 2 billion years before humans arrived, and they play a key role in the conversion of sugars to alcohol and carbon dioxide. Early humans had no concept of either microorganisms or fermentation, yet the earliest historical records indicate that by 6000 B. C. they knew how to make bread, beer, and wine. Earliest humans were foragers who collected and ate leaves, tubers, fruits, berries, nuts, and cereal seeds most of the day much as apes do today in the wild. Crushed fruits readily undergo natural fermentation by indigenous yeasts, and moist seeds germinate and develop amylases that produce fermentable sugars. Honey, the first concentrated sweet known to humans, also spontaneously ferments to alcohol if it is by chance diluted with rainwater. Thus, yeasts and other microbes have had a long history of 2 to 3.

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### ORIGINS OF ALGAE AND THEIR PLASTIDS

**Springer Verlag** Algae are of central importance in marine and freshwater ecosystems. Recent molecular sequence analyses show that the algae are of polyphyletic origins and that their evolution is best explained by tracing the endosymbiotic events that have resulted in the origins of their plastids. This volume provides a highly readable, thorough and up-to-date account of the major findings in algal, cyanobacterial and plastid phylogeny. All major algal groups (e.g., green, red, heterokont, dinoflagellate algae) are treated in separate chapters by leading experts on these groups.

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### REIMAGINING REGIONAL ANALYSES

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#### THE ARCHAEOLOGY OF SPATIAL AND SOCIAL DYNAMICS

**Cambridge Scholars Publishing** *Reimagining Regional Analysis* explores the interplay between different methodological and theoretical approaches to regional analysis in archaeology. The past decades have seen significant advances in methods and instrumental techniques, including geographic information systems, the new availability of aerial and satellite images, and greater emphasis on non-traditional data, such as pollen, soil chemistry and botanical remains. At the same time, there are new insights into human impacts on ancient environments and increased recognition of the importance of micro-scale changes in human society. These factors combine to compel a reimagining of regional archaeology. The authors in this volume focus on understanding individual trajectories and the historically contingent relationships between the social, the economic, the political and the sacred as reflected regionally. Among topics considered are the social construction of landscape; use of spatial patterning to interpret social variability; paleoenvironmental reconstruction and human impacts; and social memory and social practice. This book opens a discourse around the spatial patterning of the contingent, recursive relationships between people, their social activities and the environment.

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### OZONE

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#### A NEW MEDICAL DRUG

**Springer Science & Business Media** *Oxygen-Ozone therapy* is a complementary approach less known than homeopathy and acupuncture because it has come of age only three decades ago. This book clarifies that, in the often nebulous field of natural medicine, the biological bases of ozone therapy are totally in line with classical biochemistry, physiological and pharmacological knowledge. Ozone is an oxidizing molecule, a sort of super active oxygen, which, by reacting with blood components generates a number of chemical messengers responsible for activating crucial biological functions such as oxygen delivery, immune activation, release of hormones and induction of antioxidant enzymes, which is an exceptional property for correcting the chronic oxidative stress present in atherosclerosis, diabetes and cancer. Moreover, by inducing nitric oxide synthase, ozone therapy may mobilize endogenous stem cells, which will promote regeneration of ischemic tissues. The description of these phenomena offers the first comprehensive picture for understanding how ozone works and why. When properly used as a real drug within therapeutic range, ozone therapy does not only does not procure adverse effects but yields a feeling of wellness. Half the book describes the value of ozone treatment in several diseases, particularly cutaneous infection and vascular diseases where ozone really behaves as a "wonder drug". The book has been written for clinical researchers, physicians and ozone therapists, but also for the layman or the patient interested in this therapy.

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### LEAHY'S HOTEL GUIDE OF AMERICA

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#### MEDICINAL PLANTS IN ASIA FOR METABOLIC SYNDROME

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#### NATURAL PRODUCTS AND MOLECULAR BASIS

**CRC Press** *Medicinal Plants in Asia for Metabolic Syndrome: Natural Products and Molecular Basis* offers an in-depth view into the metabolic syndrome pharmacology of natural products with an emphasis on their molecular basis, cellular pathways, metabolic organs, and endocrine regulations. This sensational volume provides the scientific names, botanical classifications, botanical descriptions, medicinal uses, chemical constituents, and pharmacological activities of more than 100 Asian plants, with high quality original botanical plates, chemical structures, and pharmacological diagrams. It also lists hundreds of carefully selected bibliographical references, constituents on insulin resistance, obesity, atherosclerosis, atherogenic dyslipidemia, and endothelial dysfunction.

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### DIFFUSE LUNG DISORDERS

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#### A COMPREHENSIVE CLINICAL-RADIOLOGICAL OVERVIEW

**Springer Science & Business Media** *Bringing together pathologists, clinicians and diagnostic radiologists to produce a simplified analysis and a unification of the existing concepts in the diagnosis and treatment of diffuse lung diseases, this volume highlights pathological changes and presents the latest diagnostic modalities. Detailed therapeutic strategies are proposed based on epidemiological findings, radiographic manifestations, and the complex pathophysiological basis of each disorder. The result will appeal not only to the sophisticated practitioner but will also provide material that is sufficiently organised and didactic to be used by the young physician.*

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### EDIBLE MEDICINAL AND NON-MEDICINAL PLANTS

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#### VOLUME 6, FRUITS

**Springer Science & Business Media** This book continues as volume 6 of a multi-compendium on *Edible Medicinal and Non-Medicinal Plants*. It covers edible fruits/seeds used fresh, cooked or processed into other by-products, or as vegetables, cereals, spices, stimulant, edible oils and beverages. It covers selected species from the following families: Sapindaceae, Sapotaceae, Schisandraceae, Solanaceae, Thymelaeaceae, Urticaceae, Vitaceae and Winteraceae. This work will be of significant interest to scientists, researchers, medical practitioners, pharmacologists, ethnobotanists, horticulturists, food nutritionists, agriculturists, botanists, conservationists, lecturers, students and the general public. Topics covered include: taxonomy; common/English and vernacular names; origin and distribution; agroecology; edible plant parts and uses; botany; nutritive and pharmacological properties, medicinal uses and research findings; nonedible uses; and selected references.

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### ORIENTAL HUMOUR

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#### THE BUDDHIST POETRY OF THE GREAT KAMO PRIESTESS

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#### DAISAIIN SENSHI AND HOSSHIN WAKASHŪ

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#### MODERN INDIAN THEATRE

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### A READER

**Oxford University Press, USA** *India has witnessed a steady increase in dramatic activity since the late nineteenth century through multiple forms and practices. Modern Indian Theatre: An Anthology brings together writings that speak to the historical contexts from which such practices emerged—colonization, cultural suppression and appropriation, intercultural transformations brought about by the*

impact of the colonial forces, and acute critical engagement with socio-political issues brought about by the hopes and failures of Independence. The volume addresses pertinent questions like how drama influences social change, the response of drama to the emergence and domination of mass media and the proliferation and influence of western media in India, and how mediations of gender, class, and caste influence drama, its language, forms, and aesthetics.

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## **ACUTE ISCHEMIC STROKE**

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### **IMAGING AND INTERVENTION**

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**Springer Science & Business Media** This updated second edition of *Acute Ischemic Stroke: Imaging and Intervention* provides a comprehensive account of the state of the art in the diagnosis and treatment of acute ischemic stroke. The basic format of the first edition has been retained, with sections on fundamentals such as pathophysiology and causes, imaging techniques and interventions. However, each chapter has been revised to reflect the important recent progress in advanced neuroimaging and the use of interventional tools. In addition, a new chapter is included on the classification instruments for ischemic stroke and their use in predicting outcomes and therapeutic triage. All of the authors are internationally recognized experts and members of the interdisciplinary stroke team at the Massachusetts General Hospital and Harvard Medical School. The text is supported by numerous informative illustrations, and ease of reference is ensured through the inclusion of suitable tables. This book will serve as a unique source of up-to-date information for neurologists, emergency physicians, radiologists and other health care providers who care for the patient with acute ischemic stroke.

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### **OPPORTUNITIES AND CHALLENGES FOR NEXT-GENERATION APPLIED INTELLIGENCE**

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**Springer Science & Business Media** The term "Artificial Intelligence" has been used since 1956 and has become a very popular research field. Generally, it is the study of the computations that enable a system to perceive, reason and act. In the early days, it was expected to achieve the same intelligent behavior as a human, but found impossible at last. Its goal was thus revised to design and use of intelligent methods to make systems more efficient at solving problems. The term "Applied Intelligence" was thus created to represent its practicality. It emphasizes applications of applied intelligent systems to solve real-life problems in all areas including engineering, science, industry, automation, robotics, business, finance, medicine, bio-medicine, bio-informatics, cyberspace, and man-machine interactions. To endow the intelligent behavior of a system, many useful and interesting techniques have been developed. Some of them are even borrowed from the natural observation and biological phenomenon. Neural networks and evolutionary computation are two examples of them. Besides, some other heuristic approaches like data mining, adaptive control, intelligent manufacturing, autonomous agents, bio-informatics, reasoning, computer vision, decision support systems, expert systems, fuzzy logic, robots, intelligent interfaces, internet technology, planning and scheduling, are also commonly used in applied intelligence.

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### **A DESCRIPTION OF COLLOQUIAL GUARANI**

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**Walter de Gruyter GmbH & Co KG**

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### **CLINICAL NEUROSCIENCE**

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### **FOUNDATIONS OF PSYCHOLOGICAL AND NEURODEGENERATIVE DISORDERS**

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Preceded by *The physiological bases of cognitive and behavioral disorders* / Lisa L. Weyandt. 2006.