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Phytochemical Methods

A Guide to Modern Techniques of Plant Analysis

Springer Science & Business Media While there are many books available on methods of organic and biochemical analysis, the majority are either primarily concerned with the application of a particular technique (e.g. paper chromatography) or have been written for an audience of chemists or for biochemists work ing mainly with animaltissues. Thus, no simple guide to modern metho ds of plant analysis exists and the purpose of the present volume is to fill this gap. It is primarily intended for students in the plant sciences, who have a botanical or a general biological background. It should also be of value to students in biochemistry, pharmacognosy, food science and 'natural products' organic chemistry. Most books on chromatography, while admirably covering the needs of research workers, tend to overwhelm the student with long lists of solvent systems and spray reagents that can be applied to each class of organic constituent. The intention here is to simplify the situation by listing only a few specially recommended techniques that have wide currency in phytochemical laboratories. Sufficient details are provided to allow the student to use the techniques for themselves and most sections contain some introductory practical experiments which can be used in classwork.

The Laboratory Rat, Second Edition

CRC Press Rats have long been recognized as a valuable biomedical research model, notably in the investigation of aging, toxicology, addiction, and common human diseases such as diabetes and hypertension. In many instances, individuals conducting such research studies are charged with important responsibilities, including animal facility management, animal husbandry, veterinary care, regulatory compliance, and various experimental methodologies. With the advent of genetic manipulations and biomedical research technological advances such as bioimaging, the versatility and usefulness of the rat as an animal model has soared. The Laboratory Rat, Second Edition captures the multiple advances in this important animal model's husbandry, veterinary care, and experimental methodology. This edition features augmented, expanded, and novel information on biology, anesthesia, analgesia, and experimental techniques benefiting personnel working with rats—from the animal care staff to the researcher and everyone in between. The book is also extremely useful to institutional animal care and use program supporters and elements, including animal care and use committees, institutional officials, occupational health and safety professionals, veterinary technicians, and veterinarians.

Plant Anatomy

Experiment and Interpretation

Handbook of Poisonous and Injurious Plants

Springer Nature This third edition of the Handbook of Poisonous and Injurious Plants is designed to assist the clinician in the initial response to the needs of a child or adult exposed to a poisonous or injurious plant. It highlights common and important plants that lead to the adverse effects upon exposure, and it describes the mechanisms of action of the implicated toxin, clinical manifestations, and specific therapeutics, as available, for each. This truly comprehensive resource is botanically rigorous with insights from both the pharmacognosy and medical literature. At the same time, it is also for those who are interested in growing and enjoying the plants in their environment, filling in a not-often-discussed botanical and horticultural niche that goes beyond their beautiful physical appearance. Plants contain many useful chemicals that humans have used for millennia as botanical curatives. This book will help the reader understand the fine balance between a medication and a poison, why plants contain these natural substances, and their impact on the human body. With its thorough references and full-color photos of hundreds of potentially toxic and injurious plants inside and outside the home, this book is useful for identifying

and addressing concerns about cultivated species and those found in the wild. This book will be of interest to botanists, horticulturists, clinicians, and naturalists as well as hikers, gardeners, and all those who simply enjoy the wonders of nature and the great outdoors.

Phenolic Compound Biochemistry

Springer Science & Business Media These are just a few examples that illustrate the chemical diversity and use of phenolic compounds, the topic of 'Phenolic Compound Biochemistry'. This book is written for researchers, instructors, advanced undergraduate students and beginning graduate students in the life sciences who wish to become more familiar with these and many other intriguing aspects of phenolic compounds. Topics covered include nomenclature, chemical properties, biosynthesis, including an up-to-date overview of the genetics controlling phenolic metabolism, isolation and characterization of phenolic compounds, phenolics used in plant defense, and the impact of phenolics on human health. The book is written in an accessible style, and assumes only basic knowledge of organic chemistry, biochemistry and cell physiology. More than 300 chemical structures and reaction schemes illustrate the text. Wilfred Vermerris is Associate Professor of Agronomy at the University of Florida Genetics Institute in Gainesville, FL. His research focuses on the genetic control of phenolic compounds that impact agro-industrial processing of crop plants. Ralph Nicholson is Professor of Botany and Plant Pathology at Purdue University in West Lafayette, IN. He is an expert on phenolic compounds involved in the plant's defense against pathogenic fungi and bacteria.

Industrial Enzymes and Their Applications

John Wiley & Sons A comprehensive, accessible, up-to-date catalog of enzymes andtheir uses in modern manufacturing. Enzymes have long been used by industrial product makers as majorcatalysts to transform raw materials into end products. Nowavailable in English for the first time, Industrial Enzymes andTheir Applications is the only authoritative catalog of enzymeswith in-depth coverage of their varied uses, the classes in whichthey are grouped, and which chemical reagents they have replaced oncurrent mass production lines. The first section surveys general enzyme characteristics anddiscusses their microbiological origin, including pH andtemperature dependence of the activity and stability of eachenzyme. The next section then examines the most importantindustrial enzymes in use today--includingcarbohydrate-hydrolyz-ing enzymes, proteases, estercleavage-fat-hydrolyzing enzymes, and immobilized enzymes. The lastsection is devoted to specific applications of technical enzymes insuch areas as food processing, beverage production, animalnutrition, leather, and textiles. Industrial Enzymes and Their Applications offers instant access toa wealth of key enzyme data--an invaluable, wide-ranging resourcefor industrial chemists, biochemists, biochemical engineers, andstudents.

Textbook of Biochemistry for Medical Students

JP Medical Ltd The seventh edition of this book is a comprehensive guide to biochemistry for medical students. Divided into six sections, the book examines in depth topics relating to chemical basics of life, metabolism, clinical and applied biochemistry, nutrition, molecular biology and hormones. New chapters have been added to this edition and each chapter includes clinical case studies to help students understand clinical relevance. A 274-page free booklet of revision exercises (9789350906378), providing essay questions, short notes, viva voce and multiple choice questions is included to help students in their exam preparation. Free online access to additional clinical cases, key concepts and an image bank is also provided. Key points Fully updated, new edition providing students with comprehensive guide to biochemistry Includes a free booklet of revision exercises and free online access Highly illustrated with nearly 1500 figures, images, tables and illustrations Previous edition published in 2010

Laboratory Handbook for the Fractionation of Natural Extracts

Springer Science & Business Media This laboratory manual will be welcomed by all research scientists involved in the extraction, fractionation and isolation of compounds from natural materials, especially those working with plants. The book is clear and concise, and features practical exercises to illustrate the techniques described in every chapter. It will provide an invaluable research reference tool for those scientists investigating the potential benefits of ethnomedicine and the properties of chemicals isolated from natural flora.

Cultivation and Processing of Medicinal Plants

John Wiley & Sons Incorporated A comprehensive practical account detailing botanical cultivation and chemical processing of plants for the extraction of pharmacologically active drugs or drug mixtures. Includes species containing aromatic and flavoring substances and essential oils used in the kitchen, perfumery and cosmetics, in modern therapy and traditional herbal remedies. The controlling possibilities of biological, economical and technical parameters influencing efficient cultivation are discussed as well as special biological requirements and equipment.

Sweet Potato

An Untapped Food Resource

Cambridge University Press Effects of toxic factors and anti-nutritional components are also considered.

Food Analysis by HPLC

CRC Press For food scientists, high-performance liquid chromatography (HPLC) is a powerful tool for product composition testing and assuring product quality. Since the last edition of this volume was published, great strides have been made in HPLC analysis techniques-with particular attention given to miniaturization, automatization, and green chemistry. Tho

Electrical and Magnetic Methods of Non-destructive Testing

Springer Science & Business Media This book is intended to help satisfy an urgent requirement for up-to date comprehensive texts at graduate and senior undergraduate levels on the subjects in non-destructive testing (NDT). The subject matter here is confined to electrical and magnetic methods, with emphasis on the widely used eddy current and magnetic flux leakage methods (including particle inspection), but proper attention is paid to other techniques, such as microwave and AC field applications, which are rapidly growing in importance. Theoretical analyses relating to the various methods are discussed and the depths of presentation are often governed by whether or not the information is readily available elsewhere. Thus, for example, a considerable amount of space is devoted to eddy current theory at what the author considers to be a reasonable standard and not, as usually experienced, in either a too elementary manner or at a level appreciated only by a postgraduate theoretical physicist. The inclusion of the introductory chapter is intended to acquaint the reader with some of the philosophy of NDT and to compare, briefly, the relative performances of the more important methods of testing.

Bioactive Compounds from Plants

John Wiley & Sons Useful throughout history for their medical as well as other benefits, plant-derived compounds have gained particular importance recently, due to environmental factors. The isolation and characterization of plant products, the identification of their role in the plant, and ways of synthesizing identical compounds or more potent analogues are covered. Also includes methods of culturing plant tissues and genetic engineering as a means of increasing the yield of desired substances from plants. Special emphasis is placed on plants previously unknown to

Western scientists.

Flavonoids

Chemistry, Biochemistry and Applications

CRC Press Advances in the flavonoid field have been nothing short of spectacular over the last 20 years. While the medical field has noticed flavonoids for their potential antioxidant, anticancer and cardioprotectant characteristics, growers and processors in plant sciences have utilized flavonoid biosynthesis and the genetic manipulation of the flavonoid pa

Biochemistry of Antimicrobial Action

Springer The rapid advances made in the study of the synthesis, structure and function of biological macromolecules in the last fifteen years have enabled scientists concerned with antimicrobial agents to achieve a considerable measure of understanding of how these substances inhibit cell growth and division. The use of antimicrobial agents as highly specific inhibitors has in turn substantially assisted the investigation of complex biochemical processes. The literature in this field is so extensive however, that we considered an attempt should be made to draw together in an introductory book the more significant studies of recent years. This book, which is in fact based on lecture courses given by us to undergraduates at Liverpool and Manchester Universities, is therefore intended as an introduction to the biochemistry of antimicrobial action for advanced students in many disciplines. We hope that it may also be useful to established scientists who are new to this area of research. The book is concerned with a discussion of medically important antimicrobial compounds and also a number of agents that, although having no medical uses, have proved invaluable as research tools in biochemistry. Our aim has been to present the available information in a simple and readable way, emphasizing the established facts rather than more controversial material. Whenever possible, however, we have indicated the gaps in the present knowledge of the subject where further information is required.

Intestinal helminthiasis

SICS Editore Intestinal helminths are very common parasites found worldwide (about 3 billion carriers in total). Enterobiasis (pinworm/threadworm infection) is a common condition in children but can also affect adults. It appears that the incidence of pinworm infection has increased particularly in the industrialised countries, where other helminthic diseases are relatively rare.

Modern Techniques for Food Authentication

Academic Press Modern Techniques for Food Authentication, Second Edition presents a comprehensive review of the novel techniques available to authenticate food products, including various spectroscopic technologies, methods based on isotopic analysis and chromatography, and other techniques based on DNA, enzymatic analysis and electrophoresis. This new edition pinpoints research and development trends for those working in research, development and operations in the food industry, giving them readily accessible information on modern food authentication techniques to ensure a safe and authentic food supply. It will also serve as an essential reference source to undergraduate and postgraduate students, and for researchers in universities and research institutions. Presents emerging imaging techniques that have proven to be powerful, non-destructive tools for food authentication Includes applications of hyperspectral imaging to reflect the current trend of developments in food imaging technology for each topic area Provides pixel level visualization techniques needed for fast and effective food sample testing Contains two new chapters on Imaging Spectroscopic Techniques

Vitamin E

Food Chemistry, Composition, and Analysis

CRC Press Meeting industry demand for an authoritative, dependable resource, Vitamin E: Food Chemistry, Composition, and Analysis provides insight into the vast body of scientific knowledge available on vitamin E related to food science and technology. Coverage of these topics is intertwined with coverage of the food delivery system, basic nutrition,

Techniques of Flavonoid Identification

Herbal Medicinal Products

Scientific and Regulatory Basis for

Development, Quality Assurance and Marketing Authorisation

CRC Press Herbal medicinal products are becoming more widely accepted as alternatives to medical prescriptions. Many physicians believe that herbal medicinal products are able to beneficially complement or even replace chemical medicines. Recognizing this, European institutions are pushing the harmonization of assessment criteria for herbal medicinal products. However, this kind of reevaluation of herbal medicinal products is combined with increased expectations of physicians, pharmacists, and patients with regard to quality, safety and efficacy. There are often uncertainties about the interpretation of basic terms related to the manufacture and quality of herbal medicinal products. Herbal Medicinal Products clarifies these uncertainties, increasing transparency in the herbal medicinal products market and supporting an adequate scientific discussion related to herbal medicinal products. It offers a complete survey on current scientific knowledge, as well as on legal basic requirements for the development, standardization, and licensing of herbal medicinal products.

CRC Handbook of Dietary Fiber in Human Nutrition, Third Edition

CRC Press Dietary fiber is widely recognized as an essential element of good nutrition. In fact, research on the use of fiber in food science and medicine is being conducted at an incredible pace. CRC Handbook of Dietary Fiber in Human Nutrition, Third Edition explores the chemistry, analytical methodologies, physiological and biochemical aspects, clinical and epidemiological studies, and consumption patterns of dietary fiber. Featuring new chapters and tables, in addition to updated sections, the third edition of this popular book includes important information that has become available since the publication of the second edition. What's new in the Third Edition? o Definitions and consumption of dietary fiber from 1992-2000 o A new chapter on the physical chemistry of dietary fiber o Updated dietary fiber values for common foods o New table: Tartaric Acid Content of Foods o Coverage of non-plant food fibers, such as chitin and chitosan o An entire section devoted to the effect of whole grains, cereal fiber, and phytic acid on health o Discussion of the interaction of fiber and phytochemicals Quickly retrieve and understand current data with the book's concise, easy-to-read tables and definitions. Covering all aspects of dietary fiber, including chemistry and definitions, analytical procedures, and basic physiological functions, the CRC Handbook of Dietary Fiber in Human Nutrition provides you with a unique collection of dietary fiber information unlike that found in any other book.

Natural Products Isolation

Springer Science & Business Media Natural Products Isolation: Second Edition presents a practical overview of just how natural products can be extracted, prepared, and isolated from the source material. Maintaining the main theme and philosophy of the first edition, this second edition incorporates all the new significant developments in this field of research. The chapters are divided into four distinct sections: introduction, extraction, chromatography, and special topics. This second edition provides substantial backround information for natural product researchers and will prove a useful reference guide to all of the available techniques.

Polyphenols in Plants

Isolation, Purification and Extract Preparation

Academic Press Polyphenols in Plants assists plant scientists and dietary supplement producers in assessing polyphenol content and factors affecting their composition. It also aids in selecting sources and regulating environmental conditions affecting yield for more consistent and function dietary supplements. Polyphenols play key roles in the growth, regulation and structure of plants and vary widely within different plants. Stress, growth conditions and plant species modify polyphenol structure and content. This book describes techniques to identify, isolate and characterize polyphenols, taking mammalian toxicology into account as well. Defines conditions of growth affecting the polyphenol levels Describes assay and instrumentation techniques critical to identifying and defining polyphenols, critical to researchers and business development Documents how some polyphenols are dangerous to consume, important to dietary supplement industry, government regulators and lay public users

Integrative Plant Anatomy

Academic Press Presents the basic concepts and terminology of plant anatomy with a special emphasis on its significance and applications to other disciplines. This book also highlights the important contribution made by studying anatomy to the solutions of a number of problems. It is illustrated with line drawings and photographs.

Food Colorants

Chemical and Functional Properties

CRC Press Drawing on the expertise of internationally known, interdisciplinary scientists and researchers, Food Colorants: Chemical and Functional Properties provides an integrative image of the scientific characteristics, functionality, and applications of color molecules as pigments in food science and technology, as well as their impact on health. The book emphasizes the structure-function relationships of pigment molecules to explain biosynthesis, modifications and degradation during storage and processing, and the effect of these changes on quality and safety. Understanding the rate and nature of degradation assists in selecting optimum processing parameters. Beginning with an overview of the physics and biochemistry of color, the book focuses on the mechanics of pigment stability and bioavailability, and antioxidant and pro-oxidant action. It reviews the influence of pigments on health and metabolism, incorporating results of in vivo and in vitro studies. It addresses the occurrence of pigment in food matrices and their stability during processing and storage. Conventional technologies as well as new, environmentally friendly methods are presented along with recent advances in biotechnology to produce colorants. There is also a chapter on novel approaches to the biosynthesis of colorants by microalgae, microorganisms, and genetic engineering. Contributions give significant attention to analytical methods and recent advances in detecting both natural and synthetic colorants, their quality, quantity, and degradation during processing and storage. The book rounds out its comprehensive coverage with a look at quality and safety risk assessments and international regulations, as well as lists of formerly and newly approved colorants and additives. Peer reviewed contributions and critical evaluations ensure a concise, systematic presentation of the relationships between the chemical nature and functional properties of various natural and synthetic pigments used to color food.

An Integrated System of Classification of Flowering Plants

Columbia University Press -- Natural History

Medical Parasitology

CRC Press Infections caused by parasites are still a major global health problem. Although parasitic infections are responsible for a significant morbidity and mortality in the developing countries, they are also prevalent in the developed countries. Early diagnosis and treatment of a parasitic infection is not only critical for preventing morbidity and mortality individually but also for reducing the risk of spread of infection in the community. This concise book gives an overview of critical facts for clinical and laboratory diagnosis, treatment and prevention of parasitic diseases which are common in humans and which are most likely to be encountered in a clinical practice. This book is a perfect companion for primary care physicians,

residents, nurse practitioners, medical students, paramedics, other public health care personnel and as well as travelers.

Flora of Java

Mosquitoes and Their Control

Springer Science & Business Media Mosquitoes and Their Control presents a wealth of information on the bionomics, systematics, ecology, research techniques and control of both nuisance and disease vector mosquitoes in an easily readable style, providing practical guidelines and important information for professionals and laymen alike. Ninety-two European species and more than 100 globally important vector and nuisance species are included in the book. Most of them, including all European species, are described in the fully illustrated identification keys, followed by a detailed description of the morphology, biology, distribution and medical importance of each species, including over 700 detailed drawings. Mosquitoes and Their Control includes: systematics and biology, medical significance, research techniques, illustrated identification keys for larval and adult mosquito general, morphology, ecology, and distribution of the species identified in the keys, biological, chemical, physical and genetic control of mosquitoes. Mosquitoes and Their Control is a valuable tool for vector ecologists, entomologists, and all those involved with mosquito control, biology, ecology, and systematics world-wide. It will especially benefit those professionals, scientists and students dealing with mosquitoes and their control on a day-to-day basis. Society as a whole stands to gain from improved, environmentally responsible mosquito management programs designed on the basis of a broader understanding of mosquitoes and their control, as provided in this enlightening book.

Solvent Effects in Organic Chemistry

Wiley-VCH Verlag GmbH

Plant Secondary Metabolites

Occurrence, Structure and Role in the Human Diet

John Wiley & Sons Plant secondary metabolites have been a fertile area of chemical investigation for many years, driving the development of both analytical chemistry and of new synthetic reactions and methodologies. The subject is multi-disciplinary with chemists, biochemists and plant scientists all contributing to our current

understanding. In recent years there has been an upsurge in interest from other disciplines, related to the realisation that secondary metabolites are dietary components that may have a considerable impact on human health, and to the development of gene technology that permits modulation of the contents of desirable and undesirable components. Plant Secondary Metabolites: Occurrence, Structure and Role in the Human Diet addresses this wider interest by covering the main groups of natural products from a chemical and biosynthetic perspective with illustrations of how genetic engineering can be applied to manipulate levels of secondary metabolites of economic value as well as those of potential importance in diet and health. These descriptive chapters are augmented by chapters showing where these products are found in the diet, how they are metabolised and reviewing the evidence for their beneficial bioactivity.

Practical Clinical Biochemistry

Mechanisms of antibiotic resistance

Frontiers Media SA Antibiotics represent one of the most successful forms of therapy in medicine. But the efficiency of antibiotics is compromised by the growing number of antibiotic-resistant pathogens. Antibiotic resistance, which is implicated in elevated morbidity and mortality rates as well as in the increased treatment costs, is considered to be one of the major global public health threats (www.who.int/drugresistance/en/) and the magnitude of the problem recently prompted a number of international and national bodies to take actions to protect the public (http://ec.europa.eu/dgs/health_consumer/docs/road-map-amr_en.pdf: http://www.who.int/drugresistance/amr_global_action_plan/en/; http://www.whitehouse.gov/sites/default/files/docs/carb_national_strategy.pdf). Understanding the mechanisms by which bacteria successfully defend themselves against the antibiotic assault represent the main theme of this eBook published as a Research Topic in Frontiers in Microbiology, section of Antimicrobials, Resistance, and Chemotherapy. The articles in the eBook update the reader on various aspects and mechanisms of antibiotic resistance. A better understanding of these mechanisms should facilitate the development of means to potentiate the efficacy and increase the lifespan of antibiotics while minimizing the emergence of antibiotic resistance among pathogens.

Parthenium Weed

Biology, Ecology and Management

CABI This book explores the most important aspects of the biology, ecology and management of what is one of the world's worst weeds. Originally regarded as a major weed in Australia and India, Parthenium weed is now widespread in around 48 countries in Africa, Asia and the South Pacific, and has the potential to spread to new countries in Africa, Asia and Europe. This book, which is a collective effort by 27

members of the International Parthenium Weed Network, addresses research and knowledge gaps for different countries. It examines the weed's mode of spread, its impact on agricultural production, its effect on the environment and on human health, and its management using biological control, as well as cultural, physical and chemical approaches. It also considers the coordination of the weed's management, possible uses for Parthenium weed, its present distribution and how this is impacted by climate change. This book includes: A detailed analysis of Parthenium weed biology. Experiences with Parthenium weed worldwide. An explanation of practical management options. This book will be of interest to graduate students and researchers in universities and institutes, in the fields of plant ecology, botany, agriculture, conservation and restoration ecology.

The Laboratory Rat

Biology and Diseases

Elsevier The Laboratory Rat, Volume I: Biology and Diseases focuses on the use of rats in specific areas of research, ranging from dental research to toxicology. The first part of this book retraces the biomedical history of early events and personalities involved in the establishment of rats as a leading laboratory animal. The taxonomy, genetics and inbred strains of rats are also elaborated. The next chapters illustrate the hematology, clinical biochemistry, and anatomical and physiological features of the laboratory rat. This text concludes with a description of infectious diseases that may be contracted from laboratory and/or wild rats. This volume is a good source for commercial and institutional organizations involved in producing rats for research use, specialists in laboratory animal, animal care and research technicians, as well as students in graduate and professional curricula.

Evidence-based Herbal Medicine

A handbook of practical, objective, and clinically oriented information on the use of herbalism in health care. Potentially useful herbal medicines are differentiated from the many popular herbs of dubious value A report card format allows quick reading and easy access to relevant information Herbs are graded, with grades determined by usefulness, effectiveness, availability, and safety Handbook size-can be carried in lab coat Analyses-based on controlled studies, or meta-analyses or systematic reviews of the primary literature Sections of each report card include: Uses; Pharmacology; Clinical Trials; Adverse Effects; Preparations and Dose; Contraindications, Interactions, and Warnings; Conclusion and Recommendations; References An appendix lists and reviews other herbal medicine information resources Nonherbal dietary supplements also are addressed in a separate section.

Nutraceuticals in Human Health

MDPI Nutraceuticals are a challenge for the future of prevention and therapy in healthcare. The possibility to prevent and/or support pharmacological therapy, which is nowadays mainly based on pharmaceuticals, can be a powerful tool to face pathological, chronic, long-term diseases in subjects who do not qualify for a pharmacological therapy. Nutraceuticals are obtained from vegetal or animal origin foods, and prospective research on these products will clarify their role, safety and efficacy by substantiating their role with clinical data. An effort to clarify their mechanism of action will open a door to the next generation of therapeutic agents that do not propose themselves as an alternative to drugs, but, instead, can be helpful to complement a pharmacological therapy, and to prevent the onset of chronical diseases. The market as well as the interest of people in naturally-derived remedies and less synthetic pharmaceuticals is growing, and the attention of the collective public imagination is nowadays more strongly focused on these food-derived products. This Special Issue is dedicated to the role of and perspectives on nutraceuticals in human health, examined from different angles ranging from analytical aspects to clinical trials, and from efficacy studies to beneficial effects on health conditions.

Review of Medical Microbiology

Extraction Methods for Environmental Analysis

John Wiley & Sons Extraction Methods for Environmental Analysis is the first book to bring together all the extraction techniques used for analysis of liquid and solid environmental samples, including solid phase extraction and micro-extraction, supercritical fluid extraction, microwave-assisted extraction and accelerated solvent extraction. The book is divided into two sections - solid sample preparation and liquid sample preparation - to facilitate access, and each section starts with a summary of methods available. The techniques are compared and contrasted by means of 70 bar charts, all in two colours, and 32 tables. Relative merits of the techniques are discussed to enable the user to select the most appropriate technique for their sample and method of analysis. Extraction Methods for Environmental Analysis is essential reading for anyone involved in environmental analysis.

Buku Ajar Patologi Robbins - E-Book

Elsevier (Singapore) Pte Limited Bagian dari kelompok Robbins dan Cotran yang terpercaya, Buku Ajar Patologi Robbins menyajikan secara ringkas prinsip-prinsip patologi manusia yang mudah dibaca, dengan ilustrasi yang baik sehingga ideal bagi mahasiswa masa kini yang sibuk. Edisi yang sepenuhnya direvisi ini tetap

menunjukkan penekanan-penekanan tentang patogenesis dan gambaran klinis penyakit, disertai karya seni baru dan diagram-diagram yang lebih rinci. - Mencakup berbagai topik-topik klinis tambahan dan mutakhir - Karya seni baru dan diagram yang lebih rinci meringkas proses-proses patologis yang utama - Program seni yang luar biasa menghasilkan fotomikrograf, foto makroskopik dan citra radiologis dengan kualitas yang tinggi untuk melengkapi ilustrasi tingkat dunia. - Kotak berisi poin-poin ringkasan menyajikan akses cepat terhadap informasi utama dan cara pengkajian yang mudah terhadap konsep-konsep inti. - Menekankan isi patogenesis, morfologi, dan patofisiologi di seluruh buku. - Lengkap dengan akses ke eBook dan sumber elektronik asli dalam bahasa Inggris di studentconsult.inkling.com