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Thin Layer Chromatography in Phytochemistry Monika Waksmundzka-Hajnos 2008-03-04 Thin layer chromatography (TLC) is increasingly used in the fields of plant chemistry, biochemistry, and molecular biology. Advantages such as speed, versatility, and low cost make it one of the leading techniques used for locating and analyzing bioactive components in plants. Thin Layer Chromatography in Phytochemistry is the first source devoted to supplying state-of-the-art information on TLC as it applies to the separation, identification, quantification, and isolation of medicinal plant components. Renowned scientists working with laboratories around the world demonstrate the applicability of TLC to a remarkable diversity of fields including plant genetics, drug discovery, nutraceuticals, and toxicology. Elucidates the role of plant materials in the pharmaceutical industry... Part I provides a practical review of techniques, relevant materials, and the particular demands for using TLC in phytochemical applications. The text explains how to determine the biological activity of metabolites and assess the effectiveness of herbal medicines and nutritional supplements. Part II concentrates on TLC methods used to analyze specific plant-based metabolite classes such as carbohydrates, proteins, alkaloids, flavonoids, terpenes, etc. Organized by compound type, each chapter discusses key topics such as sample preparation, plate development, zone detection, densitometry, and biodetection. Demonstrates practical methods that can be applied to a wide range of disciplines... From identification to commercial scale production and quality control, Thin Layer Chromatography in Phytochemistry is an essential bench-top companion and reference on using TLC for the study of plant-based bioactive compounds.

Left Ventricular Hypertrophy in Hypertension James Ian Summers Robertson 1979 Source book of flavors Gary Reineccius 2013-12-14 Flavor is unquestionably one of the most extremely secretive one-reluctant to disclose anything that might be of value to an important attributes of the food we eat. competitor. Thus, little information about Man

does not eat simply to live but even the activities of the flavor industry itself is more so lives to eat. Take away the pleasure of food and life becomes relatively mundane. available to the public. There now is a substantial body of literature The goal of the original Source Book of nature dealing with food flavor. The "golden Flavors, written by Henry Heath, was to years" of flavor research in the United States bring together in one volume as much of the work as was done in the 1960s and 70s. Numerous academic worldwide data and facts and as many flavor and government institutions had strong related subjects (e. g. , food colors) as was possible and money was readily available. Henry Heath added a wealth of information available for flavor research. In the 1980s personal information on how the industry and 90s, research funding has become difficult accomplishes its various activities, which culture to obtain, particularly in an esthetic had never been published in any other literature area such as food flavor. The number of authors. It has been the intent of this author to research groups focusing on food flavor has updated and build upon the original work of declined in the United States. Fortunately, Henry Heath.

Basic Medical Biochemistry Dawn B. Marks 1996-01-01

Food Preservation Techniques Peter Zeuthen 2003-10-30 Extending the shelf-life of foods whilst maintaining safety and quality is a critical issue for the food industry. As a result there have been major developments in food preservation techniques, which are summarised in this authoritative collection. The first part of the book examines the key issue of maintaining safety as preservation methods become more varied and complex. The rest of the book looks both at individual technologies and how they are combined to achieve the right balance of safety, quality and shelf-life for particular products. Provides an authoritative review of the development of new and old food preservation technologies and the ways they can be combined to preserve particular foods Examines the emergence of a new generation of natural preservatives in response to consumer concerns about synthetic additives Includes chapters on natural antimicrobials, bacteriocins and antimicrobial enzymes, as well as developments in membrane filtration, ultrasound and high hydrostatic pressure

Nutrition, Well-Being and Health Jaouad Bouayed 2012-02-23 In our modern society, expectations are high, also with respect to our daily diet. In addition to being merely "nutritious", i.e. supplying a variety of essential nutrients, including macro-nutrients such as proteins or micro-nutrients such as minerals and vitamins, it is almost expected that a good diet offers further advantages - especially well-being and health and the prevention of chronic diseases, which are, as we generally tend to grow older and older, becoming a burden to enjoying private life and to the entire society. These additional qualities are often sought in diets rich also in non-nutritive components, such as phytochemicals. In contrast to drugs, which are taken especially to cure or ameliorate diseases, it is expected that a healthy diet acts in particular on the side of prevention, allowing us to become old without feeling old. In the present book, rather than trying to give an exhaustive overview on nutritional aspects and their link to well-being and health, selected topics have been chosen, intended to address presently discussed key issues of nutrition for health, presenting a reasonable selection of the manifold topics around diet, well-being, and health: from the antioxidants polyphenols and carotenoids, aroma-active terpenoids, to calcium for bone health, back to traditional Chinese Medicine.

Principles of Bacterial Pathogenesis Eduardo A. Groisman 2001-01-09 Principles of

Bacterial Pathogenesis presents a molecular perspective on a select group of bacterial pathogens by having the leaders of the field present their perspective in a clear and authoritative manner. Each chapter contains a comprehensive review devoted to a single pathogen. Several chapters include work from authors outside the pathogenesis field, providing general perspectives on the evolution, regulation, and secretion of virulence and determinants. Key Features * Explains the basic principles of bacterial pathogenesis * Covers diverse aspects integrating regulation, cellular microbiology and evolution of microbial disease of humans * Discusses current strategies for the identification of virulence determinants and the methods used by microbes to deliver virulence factors * Presents authoritative treatises of the major disease microorganisms

Dorland's Pocket Medical Dictionary, 29/e Dorland 2013-11-10 Stay current with all the latest terminology in today's ever-evolving medical field with the 29th Edition of Dorland's Pocket Medical Dictionary. Based on Dorland's Illustrated Medical Dictionary, the most trusted medical dictionary used by today's health care professionals, this portable and user-friendly resource puts dependable and indispensable information at your fingertips. Quickly find what you need from among 36,000+ medical terms, including more than 3,100 new and revised entries reflecting the most important changes in medicine. You'll also have full-color images throughout, a PIN code to download a spell checker, and a 32-page set of color anatomical plates including 19 plates from the Netter collection. At any stage in your career, this pocket-sized reference is the convenient, portable way to access Dorland's - the first and last word in medicine for over 110 years. Find dependable definitions for the most essential medical terms with content based on Dorland's Illustrated Medical Dictionary, the most trusted medical dictionary used by today's health care professionals. Visualize medical concepts with full-color illustrations used throughout the text. Better understand anatomy by viewing a special 32-page set of color anatomical plates, including 19 plates from the Netter collection. Carry Dorland's to the lab, the classroom, or the office thanks to its small, portable format.

Introduction to Spectroscopy Donald L. Pavia 2014-01-01 Introduce your students to the latest advances in spectroscopy with the text that has set the standard in the field for more than three decades: INTRODUCTION TO SPECTROSCOPY, 5e, by Donald L. Pavia, Gary M. Lampman, George A. Kriz, and James R. Vyvyan. Whether you use the book as a primary text in an upper-level spectroscopy course or as a companion book with an organic chemistry text, your students will receive an unmatched, systematic introduction to spectra and basic theoretical concepts in spectroscopic methods. This acclaimed resource features up-to-date spectra; a modern presentation of one-dimensional nuclear magnetic resonance (NMR) spectroscopy; an introduction to biological molecules in mass spectrometry; and coverage of modern techniques alongside DEPT, COSY, and HECTOR. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Pharmacognosy, Phytochemistry, Medicinal Plants (2e ed. - retiree broch")
BRUNETON Jean 2008-07-01 This new edition of the book by Jean Bruneton has been revised and expanded by over 200 pages, to reflect the most recent advances (natural or semisynthetic substances) as well as the most recent contributions to the therapeutic arsenal (antimalarial, antitumor, or antiretroviral agents). Building upon biosynthetic relationships, the author describes the different classes of metabolites and the drugs

that produce them. Organized in four parts (primary metabolites, phenolics, shikimates and acetates, terpenes and steroids, alkaloids), the book develops for each class, phytochemical generalities, distribution, biosynthesis, extraction and quantitation methods, and biological aspects. For each raw material, it presents the origin, identity, production, composition, uses, processing and optimization: thus a considerable amount of botanical, chemical, analytical, pharmacological and therapeutic data is gathered into a particularly coherent compilation, for each product, the therapeutic indications and recommended usage are specified. An extensive index (about 3 000 entries) and nearly 500 recent references represent a valuable starting point for the reader's own literature research. This encyclopedia of pharmacognosy and phytochemistry is written for students, educators and professionals using plant resources in pharmacy, cosmetology, perfumery, botany, food technology and other fields.

Industrial Enzymes and Their Applications Helmut Uhlig 1998-04-06 A comprehensive, accessible, up-to-date catalog of enzymes and their uses in modern manufacturing. Enzymes have long been used by industrial product makers as major catalysts to transform raw materials into end products. Now available in English for the first time, Industrial Enzymes and Their Applications is the only authoritative catalog of enzymes with in-depth coverage of their varied uses, the classes in which they are grouped, and which chemical reagents they have replaced on current mass production lines. The first section surveys general enzyme characteristics and discusses their microbiological origin, including pH and temperature dependence of the activity and stability of each enzyme. The next section then examines the most important industrial enzymes in use today--including carbohydrate-hydrolyzing enzymes, proteases, ester cleavage-fat-hydrolyzing enzymes, and immobilized enzymes. The last section is devoted to specific applications of technical enzymes in such areas as food processing, beverage production, animal nutrition, leather, and textiles. Industrial Enzymes and Their Applications offers instant access to a wealth of key enzyme data--an invaluable, wide-ranging resource for industrial chemists, biochemists, biochemical engineers, and students.

Pulmonary Nanomedicine Neeraj Vij 2012-08-06 This book explores engineered nanomaterials (ENM) pulmonary effects and familiarizes readers with unique aspects of nanomaterial application and research. Focusing on the diagnostic and therapeutic utilities of nanomaterials in different lung diseases, it discusses the novel applications of nanotechnology for the treatment of airway diseases such as asthma, allergy, chronic obstructive pulmonary diseases, cystic fibrosis, and lung cancer. In an attempt to synchronize the efforts of pulmonary biologists, chemists, and clinicians in developing novel nano-based tools for airway diseases, the book also discusses the strategies to overcome the pathophysiological and technical barriers.

Pharmaceutical Statistics Sanford Bolton 1990

Flora of Java BACKER C.A. 1980-01-31

OECD Guidelines for the Testing of Chemicals, Section 4 Test No. 423: Acute Oral toxicity - Acute Toxic Class Method OECD 2002-02-08 This is a test guideline for testing for Acute Oral Toxicity using the Acute Toxic Class Method.

Lichen Secondary Metabolites Branislav Rankovi? 2019-07-26 This revised and extended edition provides in-depth insights into the benefits and untapped potential of lichen-derived bioactive compounds. The whole spectrum of these compounds'

biological and medical functions, from antibiotic to antiviral and anti-carcinogenic properties, is presented. In addition, a new chapter discusses the anti-neurodegenerative and anti-diabetic activities of lichenic secondary metabolites. Given its scope, the book offers a valuable asset for students and researchers in this field.

LUNASIN : Protein pada Kedelai dan Hasil Riset Terkait Hambatan pada Perjalanan Kanker Kolon DR. DRS. Kusmardi, MS 2019-08-22 Pada buku ini dijelaskan lunasin, suatu protein yang terdapat pada kedelai. Pemaparan dimulai dari ekstraksi kedelai untuk menghasilkan lunasin, dilanjutkan dengan uji fitokimianya. Sebelum pembahasan mengenai peran lunasin dalam perbaikan histopatologi kolon, terlebih dahulu dipaparkan peran lunasin dalam menghambat toksisitas hati oleh induksi azoksimetan dan dekstran sodium sulfate. Pembahasan terakhir adalah tentang peran lunasin dalam menghambat ekspresi beberapa protein yang terlibat dalam proses peradangan dan karsinogenesis kolon. Penulis memberikan pemaparan secara teoritis dan menunjukkan eviden dari penelitian yang telah dilakukan.

Phytopharmaceutical Technology LiSt/Schmidt 1990-08-15 Drugs from plants are a major contribution to world health. Their production involves machinery, workers, quality control, standards, and legislation. Phytopharmaceutical Technology is a practical reference volume that provides the basic information necessary to select and operate machinery and to process plant products through to the desired liquid, solid, or powdered drug form. As a result, much of the book is devoted to the production process. Topics discussed include plants and plant parts; converting plants to medicinal forms; tips on handling incoming plant materials, including quality, pests, residues, analytical techniques and legislation; solvents for extraction, chemical data and notes regarding selection and use; and production processes, including grading (sorting), size reduction (comminution), extraction, concentration, purification, and drying. The book also contains details regarding the dozens of types of machinery that can be used, as well as drawings, including cross-sections and schematics of the working action.

Quality assurance, standardization, and regulation is also discussed.

Phytopharmaceutical Technology is a handy reference tool for engineers and industrial chemists in the plant drug processing industry, as well as excellent reading for university students.

Cancer Biology Raymond W. Ruddon 2007-04-05 The fourth edition of this classic text provides a thorough, yet concise review of the cellular and molecular mechanisms involved in the transformation of normal into malignant cells, the invasiveness of cancer cells into host tissues, and the metastatic spread of cancer cells in the host organism. It defines the fundamental pathophysiologic changes that occur in tumor tissue and in the host animal or patient. Each chapter discusses the historical development of a field, citing the key experimental advances to the present day, and evaluates the current evidence that best supports or rules out concepts of the molecular and cellular mechanisms regulating cancer cell behavior. For all the areas of fundamental cancer research, an effort has been made to relate basic research findings to the clinical disease states. The book is well written and well illustrated, with schematic diagrams and actual research data to demonstrate points made in the text. There is also an extensive, up-to-date bibliography, making the book valuable to scientists, and to physicians, students, and nurses interested in the field of cancer biology. The topics covered include pathologic characterization of human tumors, epidemiology of human cancer, regulation of cell proliferation and differentiation, cellular and molecular

phenotypic characteristics of the cancer cell, mechanisms of carcinogenesis, tumor initiation and promotion, viral carcinogenesis, oncogenes and oncogene products, growth factors, chromosomal alterations in cancer, mechanisms of tumor metastasis, host-tumor interactions, fundamental aspects of tumor immunology, and the advances in cancer cell biology that will lead to improved diagnosis and treatment of cancer in the future.

Physic Nut, *Jatropha Curcas* L. Joachim Heller 1996 Introduction; Names of the species and taxonomy; Botanical description; Origin and centre of diversity; Properties; Uses ; Genetic resources; Breeding; Production areas; Ecology; Agronomy; Limitations of the crop; Prospects; Research needs; Bibliography;

Natural Products Isolation Richard J. P. Cannell 1998 Natural Products Isolation provides a comprehensive introduction to techniques for the extraction and purification of natural products from all biological sources. Geared to scientists with little experience of natural products extraction, but offering even skilled researchers valuable advice and insight, Natural Products Isolation lays the foundation for the potential extractor to isolate natural substances efficiently. Its methods and guidance will almost certainly play a major role in today's natural product discovery and development.

Natural Products Isolation Satyajit D. Sarker 2006 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 background information for natural product researchers and will prove a useful reference guide to all of the available techniques.

Plant Genetics and Genomics Shane Simpson 2017-06-08 Plant genetics and genomics is a branch of biology which studies heredity and heredity transmission of characteristics in plants and other eukaryotic or multicellular organisms that are classified within the plant kingdom. This area includes various sub-fields like genetically engineered crops, genetically modified plants and examining the DNA and food safety and security. This book explores all the important aspects of this field in the present day scenario. It includes detailed explanation of the various concepts and applications of plant genetics and genomics. This book is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of plant genetics and genomics. Coherent flow of topics, student-friendly language and extensive use of examples make this textbook an invaluable source of knowledge.

Handbook of Laboratory Animal Science Jann Hau 2002-10-28 The second edition of an international bestseller, this book provides veterinary specialists as well as veterinary and biomedical researchers with detailed information about laboratory animal genetics, diseases, health monitoring, nutrition, and environmental impact on animal experiments. Completely revised and updated, Volume I now contains expand

Genetic Diversity in Plants Amir Muhammed 2012-12-06 For the last eighteen years we have been deeply involved in a cooperative effort with our Latin American colleagues in genetics, biochemistry, physiology, and molecular biology. We have been in close contact with scientists in a number of centers and have helped to organize symposia, workshops, and so forth, in an effort to accelerate their development and make their substantial work known. These symposia in Latin America have been quite successful.

The fifteenth will take place in Brasilia in 1977. At the request of colleagues, we are in the process of developing a similar series in Asia. The first very successful symposium was held in Calcutta in 1973. We were most pleased when Dr. Amir Muhammed, Vice Chancellor of the University of Agriculture, Lyallpur suggested that we hold a symposium on a topic of great importance to Pakistan, Genetic Control of Diversity in Plants, under the auspices of the University of Agriculture. It is our hope that this symposium will be followed by additional ones in Pakistan as well as in other countries in the Far East. Leadership is quickly developing in the hands of outstanding scientists in these countries, and we appreciate the opportunity to cooperate with them. We are especially grateful to the National Science Foundation for making PL- 480 funds available which made this symposium possible.

Laboratory Diagnosis of Infectious Diseases Paul G. Engelkirk 2008 Designed for associate-degree MLT/CLT programs and baccalaureate MT/CLS programs, this textbook presents the essentials of clinical microbiology. It provides balanced coverage of specific groups of microorganisms and the work-up of clinical specimens by organ system, and also discusses the role of the microbiology laboratory in regard to emerging infections, healthcare epidemiology, and bioterrorism. Clinical case studies and self-assessment questions show how to incorporate the information into everyday practice. More than 400 illustrations and visual information displays enhance the text. Essentials boxes, chapter outlines, key terms, summaries, and other study aids help students retain information. A bound-in CD-ROM includes additional review questions, case studies, and Web links.

Handbook of Solvents Leopold Schefflan 1954

Problem Solving in Hypertension Lee Kennedy 2009 This book presents a selection of challenging cases seen in everyday practice, highlighting learning points and recent developments made in the field. Each case is concise and formatted simply, logically leading the reader through clinical presentations, a series of questions/learning points, pertinent background information, recent developments, and further reading. Easy to read, ideal for dipping in and out during busy clinical practice, this book will be a valuable up-to-date resource for effective strategies to manage primary and secondary hypertension. For specialists in hypertension, cardiology, internal medicine, family medicine.

Instant Notes in Analytical Chemistry David Kealey 2002-06-15 Instant Notes in Analytical Chemistry provides students with a thorough comprehension of analytical chemistry and its applications. It supports the learning of principles and practice of analytical procedures and also covers the analytical techniques commonly used in laboratories today.

Cell and Tissue Culture for Medical Research Alan Doyle 2000-08-22 Cell and tissue culture is a technique in which plant or animal cells are grown under controlled conditions in the laboratory. This is then used for the analysis of the cells themselves, the assessment of the cell's response to chemicals, or as a tool to produce cellular-derived protein products. This book is a collection of fundamental and specific applied procedures in cell and tissue culture which form the basis of the new medical techniques of tissue engineering and gene therapy. It combines both detailed laboratory procedures and informative overviews. * Provides step-by-step protocols with troubleshooting tips and notes on time considerations. * Main procedures are supplemented by alternative procedures, background information and references. *

Experimental examples indicate expected results.

Phytochemical Techniques N. Raaman 2006 Phytochemicals are the individual chemicals from which the plants are made and plants are the key sources of raw material for both pharmaceutical and aromatic industries. The improved methods for higher yield of active compounds will be the major incentive in these industries. To help those who are involved in the isolation of compounds from plants, some of the essential phytochemical techniques are included in this book. The theoretical principles of various instruments, handling of samples and interpretation of spectra are given in detail. Adequate chemical formulas are included to support and explain various structures of compounds and techniques. The book will prove useful to students, researchers, professionals in the field of Plant Physiology and Pathology, Pharmaceutical and Chemical Engineering, Biotechnology, Medicinal and Aromatic Plants and Horticulture.

Phytochemical Methods Jeffrey B. Harborne 2012-12-06 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 working mainly with animal tissues. Thus, no simple guide to modern methods 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.

Pathophysiology Carol Porth 2009 This is the Eighth Edition of the comprehensive and well-respected text and reference of pathophysiology. As a nurse-physiologist, Carol Porth uniquely emphasizes "concepts" of altered health states, as opposed to factual descriptions of diseases and disorders. By taking this physiologic approach, the author ensures a comprehension of the whole of body function and both the physical and psychological aspects of altered health. This edition has a completely revamped art program and new displays that showcase pathophysiological processes through detailed visual representation. Other highlights include a greater international focus, expanded content on evidence-based practice and completely revised, updated chapters on genetics, disorders of white blood cells and lymphoid tissues, and innate and acquired immunity.

Drug Analysis by Chromatography and Microscopy Egon Stahl 1973

Basic Statistics and Pharmaceutical Statistical Applications, Third Edition James E. De Muth 2014-04-28 Building on its best-selling predecessors, Basic Statistics and Pharmaceutical Statistical Applications, Third Edition covers statistical topics most relevant to those in the pharmaceutical industry and pharmacy practice. It focuses on the fundamentals required to understand descriptive and inferential statistics for problem solving. Incorporating new material in virtually every chapter, this third edition

now provides information on software applications to assist with evaluating data. New to the Third Edition Use of Excel® and Minitab® for performing statistical analysis Discussions of nonprobability sampling procedures, determining if data is normally distributed, evaluation of covariances, and testing for precision equivalence Expanded sections on regression analysis, chi square tests, tests for trends with ordinal data, and tests related to survival statistics Additional nonparametric procedures, including the one-sided sign test, Wilcoxon signed-ranks test, and Mood's median test With the help of flow charts and tables, the author dispels some of the anxiety associated with using basic statistical tests in the pharmacy profession and helps readers correctly interpret their results using statistical software. Through the text's worked-out examples, readers better understand how the mathematics works, the logic behind many of the equations, and the tests' outcomes.

Herbs, Botanicals and Teas B. Dave Oomah 2000-06-07 Herbs, Botanicals and Teas presents the latest scientific and technical information on the chemical, pharmacological, epidemiological and clinical aspects of major herbal and tea products. Written by leading researchers contributing to the field, this is the first reference to provide in-depth coverage of garlic, ginseng, Echinacea, ginger, fenugreek Principles of Instrumental Analysis Douglas A. Skoog 2017-01-27 PRINCIPLES OF INSTRUMENTAL ANALYSIS is the standard for courses on the principles and applications of modern analytical instruments. In the 7th edition, authors Skoog, Holler, and Crouch infuse their popular text with updated techniques and several new Instrumental Analysis in Action case studies. Updated material enhances the book's proven approach, which places an emphasis on the fundamental principles of operation for each type of instrument, its optimal area of application, its sensitivity, its precision, and its limitations. The text also introduces students to elementary analog and digital electronics, computers, and the treatment of analytical data. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

SPONS Prof. Dr. Ir. Abdul Haris, M. Si. 2021-07-23 Spons adalah hewan multiseluler primitif yang tidak memiliki organ dan jaringan yang sesungguhnya. Permukaan tubuhnya dipenuhi oleh ostium/ostia, yaitu pori mikroskopik tempat masuknya air yang membawa makanan masuk ke dalam tubuhnya, dan memiliki oskulum/oskula, yaitu lubang tempat keluarnya air yang membawa sisa-sisa metabolisme dan produk seksual yang dihasilkan. Hewan ini hidup bersifat bentik sesil yang hidup pada perairan dangkal sampai perairan dalam, perairan tropis sampai perairan subtropis, bahkan dijumpai juga di perairan kutub. Secara sistematika, spons termasuk ke dalam filum Porifera yang terdiri dari empat kelas (Demospongiae, Calcarea, Hexactinellida, dan Homoscleromorpha) belasan ordo, ratusan famili dan genera, serta ribuan spesies. Saat ini spons menjadi sangat populer di kalangan banyak orang setelah diketahui memiliki banyak kandungan senyawa aktif, yang memiliki sifat-sifat sebagai antikanker, antivirus, antibakteri, antifungi, dan sifat-sifat bioaktif lainnya. Sebagai antivirus, beberapa senyawa aktif dari spons memiliki potensi sebagai kandidat obat untuk menyembuhkan penyakit HIV-AIDS dan infeksi virus lainnya, seperti infeksi virus Herpes simplex. Sebagai antikanker, beberapa senyawa aktifnya juga memiliki potensi sebagai kandidat obat atau obat untuk menyembuhkan penyakit kanker leukemia, dan penyakit kanker lainnya. Selain itu, beberapa jenis spons tergolong spons mandi (bath sponge) dan spons ornamental penghias akuarium laut, yang dapat dikembangkan

budi dayanya untuk keperluan ekspor dan untuk menghasilkan devisa bagi negara.

Alkaloids - Secrets of Life: Tadeusz Aniszewski 2007-03-22 Alkaloids, represent a group of interesting and complex chemical compounds, produced by the secondary metabolism of living organisms in different biotopes. They are relatively common chemicals in all kingdoms of living organisms in all environments. Two hundred years of scientific research has still not fully explained the connections between alkaloids and life. Alkaloids-Chemistry, Biological Significance, Applications and Ecological Role provides knowledge on structural typology, biosynthesis and metabolism in relation to recent research work on alkaloids. Considering an organic chemistry approach to alkaloids using biological and ecological explanation. Within the book several questions that persist in this field of research are approached as are some unresearched areas. The book provides beneficial text for an academic and professional audience and serves as a source of knowledge for anyone who is interested in the fascinating subject of alkaloids. Each chapter features an abstract. Appendices are included, as are a listing of alkaloids, plants containing alkaloids and some basic protocols of alkaloid analysis. * Presents the ecological role of alkaloids in nature and ecosystems * Interdisciplinary and reader friendly approach * Up-to-date knowledge

Handbook of Laboratory Distillation E. Krell 1982-02-01 Handbook of Laboratory Distillation