

Medicinal Chemistry By Ilango

Advanced Inorganic Chemistry - Volume II is a concise book on basic concepts of inorganic chemistry. Beginning with Coordination Chemistry, it presents a systematic treatment of all Transition and Inner-Transition chemical elements and their compounds according to the periodic table. Special topics such as Pollution and its adverse effects, chromatography, use of metal ions in biological systems, to name a few, are discussed to provide additional relevant information to the students. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

?The Handbook of Financial Econometrics and Statistics provides, in four volumes and over 100 chapters, a comprehensive overview of the primary methodologies in econometrics and statistics as applied to financial research. Including overviews of key concepts by the editors and in-depth contributions from leading scholars around the world, the Handbook is the definitive resource for both classic and cutting-edge theories, policies, and analytical techniques in the field. Volume 1 (Parts I and II) covers all of the essential theoretical and empirical approaches. Volumes 2, 3, and 4 feature contributed entries that showcase the application of financial econometrics and statistics to such topics

as asset pricing, investment and portfolio research, option pricing, mutual funds, and financial accounting research. Throughout, the Handbook offers illustrative case examples and applications, worked equations, and extensive references, and includes both subject and author indices.?

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.

Extensive experimentation and high failure rates are a well-recognised downside to the drug discovery process, with the resultant high levels of inefficiency and waste producing a negative environmental impact. Sustainable and Green Approaches in Medicinal Chemistry reveals how medicinal and green chemistry can work together to directly address this issue. After providing essential context

to the growth of green chemistry in relation to drug discovery in Part 1, the book goes on to identify a broad range of practical methods and synthesis techniques in Part 2. Part 3 reveals how medicinal chemistry techniques can be used to improve efficiency, mitigate failure and increase the environmental benignity of the entire drug discovery process, whilst Parts 4 and 5 discuss natural products and microwave-induced chemistry. Finally, the role of computers in drug discovery is explored in Part 6.

Active botanical ingredients are a prime requirement for herbal formulations and discovering a drug is all about integration of science disciplines. In recent decades there has been a growing interest in treating wounds and diseases using traditional remedies based on local herbs, combined with chemical advances. Although this has led to the development of new bioactive ingredients from plants, there has been little success in terms of clinical trials and post-marketing studies to comply with FDA guidelines. Plants have been used as a source of medicine throughout history and continue to serve as the basis for many pharmaceuticals used today. However, despite the modern pharmaceutical industry being founded on botanical medicine, synthetic approaches to drug discovery have now become standard. Science-driven translational discovery and botanical development has created a new reality, leading to enormous

changes in strategies, technologies and the disciplines involved, which have been embraced by the pharmaceutical and biotech industries. This book gathers scientific expertise and traditional knowledge to promote the discovery and development of new formulations and drugs based on active ingredients and to provide guidance on taking these to clinical trials. It discusses major topics, such as how the phytochemical composition of many plants has changed over time due to factors like cultivation, which can have both positive and negative effects on the levels of bioactive compounds. It also explores the importance of plants as a valuable source of therapeutic compounds as a result of their vast biosynthetic capacity, and classifies them according to their intended use, safety and regulatory status. Further, the book offers insights into the regulatory aspects of botanical products, which is an important issue when considering standardization and quality assessment, and also examines the commercial aspects of plant-derived medications and their proven role in the treatment of chronic diseases such as heart disease, high blood pressure, pain, asthma, and other associated conditions. Given its scope, this book is a valuable tool for botanists, natural product chemists, pharmacologists and microbiologists involved in the study of phytochemicals for drug discovery.

This book presents a unique collection of up-to-date applications of graphene for

water science. Because water is an invaluable resource and the intelligent use and maintenance of water supplies is one of the most important and crucial challenges that stand before mankind, new technologies are constantly being sought to lower the cost and footprint of processes that make use of water resources as potable water as well as water for agriculture and industry, which are always in desperate demand. Much research is focused on graphene for different water treatment uses. Graphene, whose discovery won the 2010 Nobel Prize in physics, has been a shining star in the material science in the past few years. Owing to its interesting electrical, optical, mechanical and chemical properties, graphene has found potential applications in a wide range of areas, including water purification technology. A new type of graphene-based filter could be the key to managing the global water crisis. According to the World Economic Forum's Global Risks Report, lack of access to safe, clean water is the biggest risk to society over the coming decade. Yet some of these risks could be mitigated by the development of this filter, which is so strong and stable that it can be used for extended periods in the harshest corrosive environments, and with less maintenance than other filters on the market. The graphene-based filter could be used to filter chemicals, viruses, or bacteria from a range of liquids. It could be used to purify water, dairy products or wine, or in the production of

pharmaceuticals. This book provides practical information to all those who are involved in this field.

Medicinal Chemistry: An Introduction, Second Edition provides a comprehensive, balanced introduction to this evolving and multidisciplinary area of research. Building on the success of the First Edition, this edition has been completely revised and updated to include the latest developments in the field. Written in an accessible style, Medicinal Chemistry: An Introduction, Second Edition carefully explains fundamental principles, assuming little in the way of prior knowledge. The book focuses on the chemical principles used for drug discovery and design covering physiology and biology where relevant. It opens with a broad overview of the subject with subsequent chapters examining topics in greater depth. From the reviews of the First Edition: "It contains a wealth of information in a compact form" ANGEWANDTE CHEMIE, INTERNATIONAL EDITION "Medicinal Chemistry is certainly a text I would chose to teach from for undergraduates. It fills a unique niche in the market place." PHYSICAL SCIENCES AND EDUCATIONAL REVIEWS

This introductory textbook is designed for undergraduate courses in Hydraulics and Pneumatics/Fluid Power/Oil Hydraulics taught in Mechanical, Industrial and Mechatronics branches of Engineering disciplines. Besides focusing on the

fundamentals, the book is a basic, practical guide that reflects field practices in design, operation and maintenance of fluid power systems—making it a useful reference for practising engineers specializing in the area of fluid power technology. With the trends in industrial production, fluid power components have also undergone modifications in designs. To keep up with these changes, additional information and materials on proportional solenoids have been included in the second edition. It also updates drawings/circuits in the pneumatic section. Besides, the second edition includes a CD-ROM that acquaints the readers with the engineering specifications of several pumps and valves being manufactured by industry. KEY FEATURES :

- Gives step-by-step methods of designing hydraulic and pneumatic circuits.
- Provides simple and logical explanation of programmable logic controllers used in hydraulic and pneumatic circuits.
- Explains applications of hydraulic circuits in machine tool industry.
- Elaborates on practical problems in a chapter on troubleshooting.
- Chapter-end review questions help students understand the fundamental principles and practical techniques for obtaining solutions.

Extensive experimentation and high failure rates are a well-recognised downside to the drug discovery process, with the resultant high levels of inefficiency and waste producing a negative environmental impact. Sustainable and Green

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Approaches in Medicinal Chemistry reveals how medicinal and green chemistry can work together to directly address this issue. After providing essential context to the growth of green chemistry in relation to drug discovery in Part 1, the book goes on to identify a broad range of practical methods and synthesis techniques in Part 2. Part 3 reveals how medicinal chemistry techniques can be used to improve efficiency, mitigate failure and increase the environmental benignity of the entire drug discovery process, whilst Parts 4 and 5 discuss natural products and microwave-induced chemistry. Finally, the role of computers in drug discovery is explored in Part 6. Identifies novel and cost effective green medicinal chemistry approaches for improved efficiency and sustainability Reflects on techniques for a broad range of compounds and materials Highlights sustainable and green chemistry pathways for molecular synthesis

Biomedical Chemistry provides readers with an understanding of how fundamental chemical concepts are used to combat some diseases. The authors explain the interdisciplinary relationship of chemistry with biology, physics, pharmacy and medicine. The results of chemical research can be applied to understand chemical processes in cells and in the body, and new methods for drug transportation. Also, basic chemical ideas and determination of disease etiology are approached by developing techniques to ensure optimum interaction

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between drugs and human cells. This Book is an excellent resource for students and researchers in health-related fields with frontier topics in medicinal and pharmaceutical chemistry, organic chemistry and biochemistry.

Essentials of Organic Chemistry is an accessible introduction to the subject for students of Pharmacy, Medicinal Chemistry and Biological Chemistry. Designed to provide a thorough grounding in fundamental chemical principles, the book focuses on key elements of organic chemistry and carefully chosen material is illustrated with the extensive use of pharmaceutical and biochemical examples. In order to establish links and similarities the book places prominence on principles and deductive reasoning with cross-referencing. This informal text also places the main emphasis on understanding and predicting reactivity rather than synthetic methodology as well as utilising a mechanism based layout and featuring annotated schemes to reduce the need for textual explanations. * tailored specifically to the needs of students of Pharmacy Medical Chemistry and Biological Chemistry * numerous pharmaceutical and biochemical examples * mechanism based layout * focus on principles and deductive reasoning This will be an invaluable reference for students of Pharmacy Medicinal and Biological Chemistry.

The Qualified Success And General Appeal Of Medicinal Chemistry Is Not Only

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Confined To The Indian Subcontinent, But It Has Also Won An Overwhelming Popularity In Other Parts Of The World. Specific Care Has Been Taken To Maintain And Sustain The Fundamental Philosophy Of The Textbook Embracing Rigidly The Original Pattern And Style Of Presentation With A Particular Expatiated Treatment Of Synthesis Of Potential Medicinal Compounds For The Ultimate Benefits Of The Teachers And The Taught Alike. The Present Thoroughly Revised And Skilfully Expanded Fourth Edition Essentially Contains Three New And Important Chapters, Namely : Molecular Modeling And Drug Design (Chapter 3), Adrenocortical Steroids (Chapter 24), And Antimycobacterial Agents (Chapter 26) So As To Make The Textbook More Useful To Its Readers. With The Advent Of Thirty Chapters The Present Updated Form Of Medicinal Chemistry Will Prove To Be An Asset For M. Pharm./B. Pharm. Degree Students, M. Sc. Pharmaceutical Chemistry, M.Sc. Applied Chemistry And M. Sc. Industrial Chemistry Throughout The Indian Universities. Medicinal Chemistry Appears As A Newly Designed And Artistically Presented In A Two-Colour Scheme So As To Facilitate A Distinctly More Effective Use Of The Book. This Highly Readable, Lucid, Handy, And Exceptionally Knowledgeable Textbook Will Definitely Win A Better, Bigger, And Confident Place For Itself Amongst Its Valued Readers.

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This book comprehensively discusses the basic principles and working mechanism of all kind of batteries towards clean energy storage devices. In addition, it focuses on the synthesis of various electrode materials with 1D architecture via electrospinning technique. This book will give a clear idea about recent synthetic strategy towards nanofibers and nanocomposites for alkali-ion storage applications. The reader could understand the formation mechanism of nanofibers and their potential application in the future energy storage system. The primary objective of this 4-volume book series is to educate PharmD students on the subject of medicinal chemistry. The book set serves as a reference guide to pharmacists on aspects of chemical basis of drug action. This first volume of the series is comprised of 8 chapters focusing on basic background information about medicinal chemistry. It takes a succinct and conceptual approach to introducing important fundamental concepts required for a clear understanding of various facets of pharmacotherapeutic agents, drug metabolism and important biosynthetic pathways that are relevant to drug action. Notable topics covered in this first volume include the scope and importance of medicinal chemistry in pharmacy education, a comprehensive discussion of the organic functional groups present in drugs, and information about four major types of biomolecules (proteins, carbohydrates, lipids, nucleic acids) and key

heterocyclic ring systems. The concepts of acid-base chemistry and salt formation, and their applications to the drug action and design follow thereafter. These include concepts of solubility and lipid-water partition coefficient (LWPC), isosterism, stereochemical properties, mechanisms of drug action, drug receptor interactions critical for pharmacological responses of drugs, and much more. Students and teachers will be able to integrate the knowledge presented in the book and apply medicinal chemistry concepts to understand the pharmacodynamics and pharmacokinetics of therapeutic agents in the body. With a high diversity of vegetation in Iran, over 8000 plant species are in existence. More than 2300 species of these plants have medicinal, edible and industrial properties, and more than 1700 species of them are endemic. Natural Products and Botanical Medicines of Iran provides an overview on important endemic plants and their usages. All results have been tabulated and key detailed information of each species is presented with background data. Features: Provides an understanding of indigenous plant-derived natural medicines of the most important medicinal plants in the region Includes discussions and critical views on the potentials and challenges for further development of the selected plants in a modern setting Details the important plants and sets out the chapters based on either taxonomy or medical use

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Globally, the number of elderly individuals is growing at an unprecedented rate. Currently, eleven percent of the worldwide population is 65 years and older. This number will more than double to twenty-two percent (2 billion) by 2050. As the older population continues its inexorable growth, so does the number of older adults with mental health disorders, such as Alzheimers disease, depression, anxiety and schizophrenia. For example, the number of individuals affected by dementia worldwide is expected to double every twenty years to over 81 million by 2040. Depressive episodes in later life are also prevalent, and depression is the leading cause of disability in older adults worldwide. These mental disorders lead to increased morbidity and mortality in older adults, and often they can exact a negative toll on their family members. To respond to the ageing world, this book sets out to help researchers, policy makers, service providers, and students develop their knowledge of the issues associated with ageing and mental health throughout the world. Written by twenty-one gerontological experts from Africa, Asia, Europe, North and South America, and Oceania, this book provides an understanding of issues related to ageing and mental health from global perspectives.

Dr Alagarsamy's Textbook of Medicinal Chemistry is a much-awaited masterpiece in its arena. Targeted mainly to B. Pharm. students, this book will

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also be useful for M. Pharm. as well as M. Sc. organic chemistry and pharmaceutical chemistry students. It aims at eliminating the inadequacies in teaching and learning of medicinal chemistry by providing enormous information on all the topics in medicinal chemistry of synthetic drugs. Salient Features Contains clear classification, synthetic schemes, mode of action, metabolism, assay, pharmacological uses with the dose and structure–activity relationship (SAR) of the following classes of drugs: Drugs acting on inflammation Drugs acting on respiratory system Drugs acting on digestive system Drugs acting on blood and blood-forming organs Drugs acting on endocrine system Contains a complete section on chemotherapy and the various classes of chemotherapeutic agents. Also includes recent topics like anti-HIV agents Contains brief introduction about the physiological and pathophysiological conditions of diseases and their treatment under each topic Provides well-illustrated synthetic schemes and alternative synthetic routes for majority of drugs that help in quick and enhanced understanding of the subject Covers the syllabi of majority of Indian universities

Essential Pharmacotherapy Data at Your Fingertips! A Doody's Core Title
ESSENTIAL PURCHASE! 4 STAR DOODY'S REVIEW "The book addresses all aspects of 84 disease states and disorders, from presentation and pathology to

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treatment and monitoring. Each chapter focuses on individual groups of medication considered for treatment and gives a concise overview of them in easy to see bulleted points. The qualities that I find especially useful are that charts and algorithms are easily identifiable and tables are shaded light gray for quick reference . . . Although this handbook contains an enormous amount of information, it conveniently fits into a lab coat pocket. It is an extremely useful reference." -- Doody's Pharmacotherapy Handbook delivers the essential information you need to quickly and confidently make drug therapy decisions for eighty-four diseases and disorders. Featuring a convenient alphabetized presentation, the book utilizes text, tables, figures, and treatment algorithms to make important drug data readily accessible and easily understandable.

Features: Consistent chapter organization that includes: Disease state definition, Concise review of relevant pathophysiology, Clinical presentation, Diagnosis, Desired outcome, Treatment, Monitoring Six valuable appendices, including a new one on the management of pharmacotherapy in the elderly NEW chapters on adrenal gland disorders and influenza The ideal companion to Pharmacology: A Pathophysiologic Approach, 7e by Joseph DiPiro et al.

Provides a concise introduction to the chemistry of therapeutically active compounds, written in a readable and accessible style. The title begins by

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reviewing the structures and nomenclature of the more common classes of naturally occurring compounds found in biological organisms. An overview of medicinal chemistry is followed by chapters covering the discovery and design of drugs, pharmacokinetics and drug metabolism, The book concludes with a chapter on organic synthesis, followed by a brief look at drug development from the research stage through to marketing the final product. The text assumes little in the way of prior biological knowledge. relevant biology is included through biological topics, examples and the Appendices. Incorporates summary sections, examples, applications and problems Each chapter contains an additional summary section and solutions to the questions are provided at the end of the text Invaluable for undergraduates studying within the chemical, pharmaceutical and life sciences.

The first contribution summarizes current trends in research on medicinal plants in Mexico with emphasis on work carried out at the authors' laboratories. The most relevant phytochemical and pharmacological profiles of a selected group of plants used widely for treating major national health problems are described. The second contribution provides a detailed survey of the so far reported literature data on the capacities of selected oxyprenylated phenylpropanoids and polyketides to trigger receptors, enzymes, and other types of cellular factors for

which they exhibit a high degree of affinity and therefore evoke specific responses. And the third contribution discusses aspects of endophytic actinobacterial biology and chemistry, including biosynthesis and total synthesis of secondary metabolites produced in culture. It also presents perspectives for the future of microbial biodiscovery, with emphasis on the secondary metabolism of endophytic actinobacteria.

This popular textbook for pharmacy students provides all the information they need to know about medicinal chemistry. The third edition features new layout and design in an attractive two-colour presentation. It contains clear classifications, synthetic schemes, modes of action, metabolism, assay, pharmacological uses with the dose and structure activity relationship (SAR) of the drugs for the various body systems. - Contains a complete section on drug design, describing the new drug development. - Includes an introduction to the physiological and pathophysiological conditions of diseases and their treatment. - Provides well-illustrated synthetic schemes and alternative synthetic routes for the majority of drugs. - Additional physico-chemical parameters have been explained.

Based on topics presented at the Annual Japanese (Quantitative) Structure-Activity Relationship Symposium and the Biennial China-Japan Drug Design and Development

conference, the topics in this volume cover almost every procedure and subdiscipline in the SAR discipline. They are categorized in three sections. Section one includes topics illustrating newer methodologies relating to ligand-receptor, molecular graphics and receptor modelling as well as the three-dimensional (Q)SAR examples with the active analogue approach and the comparative molecular field analysis. In section 2 the hydrophobicity parameters, $\log P$ (1-octanol/water) for compound series of medicinal-chemical interest are analysed physico-organic chemically. Section 3 contains the examples based on the traditional Hansch QSAR approach. A variety of methodologies and procedures are presented in this single volume, along with their methodological philosophies.

Over the recent years, medicinal chemistry has become responsible for explaining interactions of chemical molecules processes such that many scientists in the life sciences from agronomy to medicine are engaged in medicinal research. This book contains an overview focusing on the research area of enzyme inhibitors, molecular aspects of drug metabolism, organic synthesis, prodrug synthesis, in silico studies and chemical compounds used in relevant approaches. The book deals with basic issues and some of the recent developments in medicinal chemistry and drug design.

Particular emphasis is devoted to both theoretical and experimental aspect of modern drug design. The primary target audience for the book includes students, researchers, biologists, chemists, chemical engineers and professionals who are interested in

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associated areas. The textbook is written by international scientists with expertise in chemistry, protein biochemistry, enzymology, molecular biology and genetics many of which are active in biochemical and biomedical research. We hope that the textbook will enhance the knowledge of scientists in the complexities of some medicinal approaches; it will stimulate both professionals and students to dedicate part of their future research in understanding relevant mechanisms and applications of medicinal chemistry and drug design.

About the Book: An ill - fated romance between boy and girl belonging to different faiths and castes. They separate and meet again in unlikely circumstances. The boy needs to atone for his dishonourable behaviour before embracing redemption and re-claiming love. About the Author: Rengasami Clement Ilango was born on 14 February 1945 in Palayamkottai, Tamilnadu, India . He studied English Language and Literature in Loyola College and Madras Christian College . He was a Visiting Fellow in Oxford University, UK . He holds a PhD in International Trade and Third World Countries . He was a member of the prestigious Indian Administrative Service (IAS) . He is a recipient of the National Citizen's Award from the President of India . His first novel 'Happiness is a Butterfly ' was published in 2007 . He lives in Melbourne, Australia . Email clementilango@hotmail.com, rengasamiilango@gmail.com

This book highlights different natural products that are derived from the plants and microbes that have shown potential as the lead compounds against infectious diseases

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and cancer. Natural products represent an untapped source of strikingly diverse chemotypes with novel mechanisms of action and the potential to serve as anticancer and anti-infective agents. The book discusses a range of biotechnologically valuable bioactive compounds and secondary metabolites that have been derived from plant and microorganisms from various ecological niches. It also reviews the latest developments in the field of genomics, bioinformatics and industrial fermentation for harnessing the microbial products for commercial applications. In turn, the book's closing section reviews important biotechnological applications of various natural products. Combining the expertise of specialists in this field, the book's goal is to promote the further investigation of natural sources for the development of standardized, safe and effective therapies.

This comprehensive Fifth Edition has been fully revised and updated to meet the changing curricula of medicinal chemistry courses. The new emphasis is on pharmaceutical care that focuses on the patient, and on the pharmacist a therapeutic clinical consultant, rather than chemist. Approximately 45 contributors, respected in the field of pharmacy education, augment this exhaustive reference. New to this edition are chapters with standardized formats and features, such as Case Studies, Therapeutic Actions, Drug Interactions, and more. Over 700 illustrations supplement this must-have resource.

Used routinely in drug control laboratories, forensic laboratories, and as a research tool,

thin layer chromatography (TLC) plays an important role in pharmaceutical drug analyses. It requires less complicated or expensive equipment than other techniques, and has the ability to be performed under field conditions. Filling the need for an up-to-date, complete reference, *Thin Layer Chromatography in Drug Analysis* covers the most important methods in pharmaceutical applications of TLC, namely, analysis of bulk drug material and pharmaceutical formulations, degradation studies, analysis of biological samples, optimization of the separation of drug classes, and lipophilicity estimation. The book is divided into two parts. Part I is devoted to general topics related to TLC in the context of drug analysis, including the chemical basis of TLC, sample preparation, the optimization of layers and mobile phases, detection and quantification, analysis of ionic compounds, and separation and analysis of chiral substances. The text addresses the newest advances in TLC instrumentation, two-dimensional TLC, quantification by slit scanning densitometry and image analysis, statistical processing of data, and various detection and identification methods. It also describes the use of TLC for solving a key issue in the drug market—the presence of substandard and counterfeit pharmaceutical products. Part II provides an in-depth overview of a wide range of TLC applications for separation and analysis of particular drug groups. Each chapter contains an introduction about the structures and medicinal actions of the described substances and a literature review of their TLC analysis. A useful resource for chromatographers, pharmacists, analytical chemists, students, and R&D, clinical, and

forensic laboratories, this book can be utilized as a manual, reference, and teaching source.

This book provides detailed information on the various ethnic fermented foods and beverages of India. India is home to a diverse food culture comprising fermented and non-fermented ethnic foods and alcoholic beverages. More than 350 different types of familiar, less-familiar and rare ethnic fermented foods and alcoholic beverages are traditionally prepared by the country's diverse ethnic groups, and include alcoholic, milk, vegetable, bamboo, legume, meat, fish, and cereal based beverages. Most of the Indian ethnic fermented foods are naturally fermented, whereas the majority of the alcoholic beverages have been prepared using dry starter culture and the 'back-sloping' method for the past 6,000 years. A broad range of culturable and unculturable microbiomes and mycobiomes are associated with the fermentation and production of ethnic foods and alcoholic drinks in India. The book begins with detailed chapters on various aspects including food habits, dietary culture, and the history, microbiology and health benefits of fermented Indian food and beverages. Subsequent chapters describe unique and region-specific ethnic fermented foods and beverages from all 28 states and 9 union territories. In turn the classification of various ethnic fermented foods and beverages, their traditional methods of preparation, culinary practices and mode of consumption, socio-economy, ethnic values, microbiology, food safety, nutritional value, and process optimization in some foods are discussed in details with original pictures.

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In closing, the book addresses the medicinal properties of the fermented food products and their health benefits, together with corresponding safety regulations.

The Textbook of Medicinal Chemistry is a much-awaited masterpiece in its arena.

Targeted mainly to B. Pharmacy students, book would also be useful for M. Pharmacy as well as M.Sc. Organic Chemistry/Pharmaceutical Chemistry students. It aims at eliminating the inadequacies in teaching and learning of medicinal chemistry by providing enormous information on all the topics in medicinal chemistry of synthetic drugs. About the Author : - Prof. Dr. V. Alagarsamy, M. Pharm., Ph.D., FIC., D.O.M.H., is Professor and Principal of MNR College of Pharmacy, Gr. Hyderabad, Sangareddy. He has been teaching Medicinal Chemistry and performing research work in Synthetic Medicinal Chemistry on novel heterocyclic bioactive compounds for more than a decade. His research activities are collaborated with various research laboratories/organisations like National Cancer Institute, USA; Rega Institute for Medical Research, Belgium and Southern Research Institute, USA. He is a recipient of Young Scientist award from the Department of Science and Technology, New Delhi. His research publications in journals and presentations in conferences, put together, exceed hundred. His research activities are supported by the funding agencies like CSIR, DST and DSIR. He is a doctoral committee member and recognized Research guide for Ph.D. students in various universities.

This is an valuable introduction to medicinal chemistry for new graduates and PhDs. It

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will also serve to update more experienced scientists on the newer technologies in the field.

Textbook of Medicinal Chemistry Vol II - E-Book Elsevier Health Sciences

An indispensable guide for all synthetic chemists who want to learn about the most relevant reactions and reagents employed to synthesize important heterocycles and drugs! The synthesis of natural products, bioactive compounds, pharmaceuticals, and drugs is of fundamental interest in modern organic chemistry. New reagents and reaction methods towards these molecules are being constantly developed. By understanding the mechanisms involved and scope and limitations of each reaction applied, organic chemists can further improve existing reaction protocols and develop novel efficient synthetic routes towards frequently used drugs, such as Aspirin or Penicillin. Applied Organic Chemistry provides a summary of important (name) reactions and reagents applied in modern organic chemistry and drug synthesis. It covers rearrangement, condensation, olefination, metathesis, aromatic electrophilic substitutions, Pd-catalyzed C-C bond forming reactions, multi-component reactions, as well as oxidations and reductions. Each chapter is clearly structured, providing valuable information on reaction details, step-by-step mechanism, experimental procedures, applications, and (patent) references. By providing mechanistic information and representative experimental procedures, this book is an indispensable guide for researchers and professionals in organic chemistry, natural product synthesis,

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pharmaceutical, and medicinal chemistry, as well as post-graduates preparing themselves for a job in the pharmaceutical industry. Hot Topic: Reviews important classes of organic reactions (incl. name reactions) and reagents in medicinal chemistry. Useful: Provides information on reaction details, common reagents, and functional group transformations used to synthesize natural products, bioactive compounds, drugs, and pharmaceuticals, e.g. Aspirin, Penicillin. Unique: For every reaction the mechanism is explained step by step, and representative experimental procedures are given, unlike most books in this area. User-friendly: Chapters are clearly structured making it easy for the reader to compare different reactions. Applied Organic Chemistry is an indispensable guide for researchers and professionals in organic chemistry, natural product synthesis, pharmaceutical, and medicinal chemistry, as well as post-graduates preparing themselves for a job in the pharmaceutical industry. The second edition of Medicinal Chemistry is based on the core module of pharmacy syllabi of various technical universities, and targets undergraduate B.Pharm students across India. The current edition has been designed by authors based on the opinion of the experts to include the latest developments in the field of medicinal chemistry, detailed synthesis mechanism of the drugs and their mode of action inside the body.

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