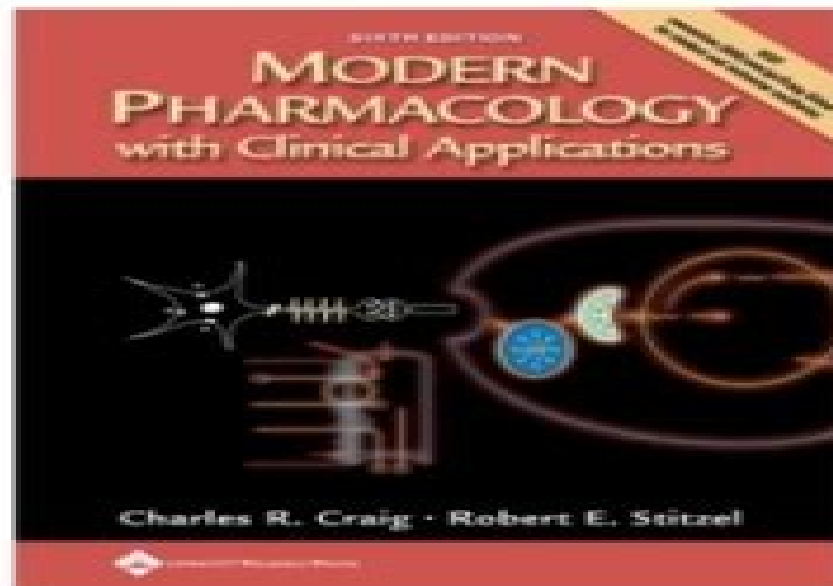


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Основы фармакологии / Essentials of Pharmacology Валерий Козловский, Владимир Вдовиченко, Ольга Борисенко, Виктор Гончарук, 2022-10-18 2019

Biologically Active Small Molecules Debarshi Kar Mahapatra, Sanjay Kumar Bharti, 2023-01-12 Biologically Active Small Molecules Modern Applications and Therapeutic Perspectives focuses on small molecules as active pharmacological agents their pharmacotherapeutically active properties new approaches in drug discovery using small molecules and biopharmaceutic approaches for low molecular weight ligands Molecules of low mass play a pivotal role in pharmacology because they exhibit multifarious pharmacological effects Small molecules have become universally popular due to their simple chemistry easy separation techniques versatile acceptance for computational studies large number of places for the substitution of active chemical moieties by well established synthetic routes with less effort better quality attributes and ability to demonstrate numerous biological activities This book provides a multidisciplinary approach that delivers the most updated knowledge and advances of some newly developed therapeutically active low molecular weight compounds It includes chapters that present up to date and concise content on the classification structures chemical syntheses medicinal chemistry pharmacology biochemical pathways mechanism of actions side effects and adverse effects of small molecule drug discovery The book covers a broad area by highlighting the advances of inter and multidisciplinary fields of medicine chemical sciences and pharmaceuticals The flowcharts figures illustrations and diagrams provide important information and will be of great interest for readers

Tyler's Herbs of Choice Dennis V.C. Awang, 2009-05-04 Does Echinacea fight the common cold Does St John s Wort SJW really counteract depression What about chondroitin for joint health Today s healthcare professionals are increasingly confronted with questions from patients who want to use herbal supplements to treat various conditions A critical and scientific assessment of medicinal plant rese *The Hot Detox Plan* Julie Daniluk, RHN, 2022-06-21 Spark Your Digestion Safely Cleanse Your Body and Speed Healing The Hot Detox Plan unifies soothing cooking techniques scientific rigor and Eastern food wisdom to create a revolutionary breakthrough in how you can fire up your digestive power and cleanse and heal your body You ll discover how warming your food and drink can dramatically increase the digestibility of a meal and the absorption of vital nutrients chopping or blending foods such as broccoli can make them more detoxifying cooking and dressing your vegetables with oil makes their phytonutrients more bioavailable using culinary herbs in your cooking can kill yeast and negative bacteria that may be the cause of bloating and indigestion warming

spices like turmeric cleanse the liver and has been shown to reduce pain as effectively as over the counter medications warming up your body's core will boost low immunity alleviate IBS and chronic pain balance hormones and help spur weight loss The Hot Detox Plan is the sanest and smartest way to cleanse with easy to follow 3, 10 and 21 day plans proven techniques for crushing cravings and over 125 delicious and easy to prepare recipes you'll want to enjoy every day Foye's *Principles of Medicinal Chemistry* Thomas L. Lemke, David A. Williams, 2012-01-24 Acclaimed by students and instructors alike Foye's *Principles of Medicinal Chemistry* is now in its Seventh Edition featuring updated chapters plus new material that meets the needs of today's medicinal chemistry courses This latest edition offers an unparalleled presentation of drug discovery and pharmacodynamic agents integrating principles of medicinal chemistry with pharmacology pharmacokinetics and clinical pharmacy All the chapters have been written by an international team of respected researchers and academicians Careful editing ensures thoroughness a consistent style and format and easy navigation throughout the text

PHARMACEUTICS- I Dr. Basu Venkateswara Reddy, Dr. L. Matsyagiri, Dr. Adeep Kujur, Dr. Sweety Lanjhiyana, Dr. S.K. Lanjhiyana, With pharmacy being such a vast and active field the word PHARMACEUTICS I is quite relevant As a starting point this course introduces students to the basic concepts and practices that direct the creation manufacture and evaluation of pharmaceutical dosage forms In these pages you will take a guided tour through the fascinating world of pharmaceuticals learning about its beginnings development and significant impact on the pharmacy profession You'll discover the extensive background of pharmacy in India its ties to industry government and higher education and the vital roles that pharmacopoeias like as IP, BP, USP and Extra Pharmacopoeia played Explore more and you'll discover the fascinating realm of dosage forms You will gain knowledge of their many classifications and definitions prescription writing technique and the need of accuracy while handling prescriptions Through the study of posology you will get a grasp of the factors influencing dose determination including calculations specific to pediatric dosages As the course progresses you will get an understanding of the intricacies of weights and measures percentage solutions alligation proof spirit and isotonic solutions enabling you to venture into the domain of pharmaceutical computations You'll get more insight into the significance of pharmaceutical computations in guaranteeing accurate and effective dosage formulation Following that you will be totally immersed in the world of various dosage forms throughout the course You will examine monophasic liquids suspensions and emulsions their classifications preparation techniques definitions advantages and disadvantages you will also examine the challenges of compatibility and stability Additionally you will explore the many types methods of production and evaluation criteria related to the fascinating subject of suppositories The voyage ends with an exploration of semisolid dosage forms including ointments pastes creams and gels You will gain knowledge of the procedures and elements that influence how well drugs are absorbed through the skin You will also get familiar with the formulation techniques and evaluation approaches applied to different dosage forms **Interferons and Their Applications** P.E. Came, W.A. Carter, 2012-12-06 Today the

basic mood of researchers and clinical investigators both at the center and on the periphery of interferon studies is optimistic regarding the future of interferons as therapeutic substances. Many also feel these polypeptides will prove invaluable probes in unraveling certain fundamental biochemical processes which control the life cycle and developmental pattern of many human cells. In contrast only a year or two ago this optimism had given way to an attitude almost of disenchantment as public and scientific expectations were raised steeply then rapidly waned as it turns out prematurely. Both the multiple actions of interferons, a virtual cascade of biochemical reactions may be induced as documented herein and the high visibility of interferon research provided by the millions of dollars invested both by national health agencies and by multinational pharmaceutical companies contributed to an upsurge in public attention to drug development probably unprecedented in this century. Virtually every oncologist it would seem was plagued by requests for the experimental agent although they already had therapies of more proven value. As recently as 1980 even though interferon had achieved success against certain cancers and certain viral diseases the variability in clinical results was seemingly ever present and little evidence emerged to suggest interferons could cure advanced diseases. Why then the resurgence of an optimistic mood? There are almost always many elements which contribute to happiness and this is certainly true of the broad frontier of interferon and its place in biochemical research and treatment.

Traditional Processing Methods in Ethnopharmacology: Enhancing Therapeutic Effects and Unveiling Mechanisms of Action Lingyun Zhong, José Carlos Tavares Carvalho, Bey Hing Goh, 2025-03-10

Ethnopharmacology investigates traditional medicines derived from diverse plants, animals and minerals used by cultures worldwide. Traditional processing methods may play a vital role in optimizing therapeutic effects, reducing toxicity and improving overall properties of medicinal resources. However, the contrary may also be the case if, for example, toxic metabolites are extracted at a higher concentration. These time-honored techniques have been employed for centuries in traditional medicine to create effective and safe remedies. Specialized processing techniques can even alter drug action sites or enhance the functional capabilities of medicinal substances. As interest in TCM and other traditional medicines continues to grow, researchers are striving to comprehend the scientific principles behind these processing methods and refine them for contemporary applications. At the same time, with our increasing understanding of medicinal plants, chemical profiles, therapeutic benefits and potential safety risks, including interactions with other medications and direct toxicity, there is a need to improve extraction techniques. Optimized techniques may also reduce the environmental impact of such processing methods, e.g., through reduced periods of decocting.

Modern Dental Materia Medica, Pharmacology and Therapeutics, Including the Practical Application of Drugs and Remedies in the Treatment of Disease John Peter Buckley, 1917 Systems Biology and Its Application in TCM Formulas Research Weidong Zhang, 2018-02-16

Systems Biology and Its Application in TCM Formulas Research presents a theoretical research system formed for Traditional Chinese Medicine (TCM) formulas along with information on the study of Shexiang Baixin Pill (SBP), a TCM formula that has shown significant clinical efficacy in

the treatment of cardiovascular diseases The content combines theory and practice and includes guidance for both theoretical concepts and operable technical routes This is a valuable source not only for biomedical researchers involved in Systems Biology studies but also for students and scientists interested in learning more about Traditional Chinese Medicine and its applications in contemporary medicine Explains in detail the Shexiang Baixin Pill SBP a TCM formula efficiently applied in the treatment of cardiovascular diseases Presents TCM formulas from perspectives of systems biology basic chemical material groups modern pharmacology and network biology Offers an overview on biology modern chemistry and information technology as applied in Systems Biology research

APOPTOSIS INDUCTION/SUPPRESSION: A FEASIBLE APPROACH FOR NATURAL PRODUCTS TO TREATMENT OF DISEASES, 2nd Edition Hong Zhang,Hailing Xin,Wei Peng,Khalid Rahman,2025-01-23 This Research Topic is part of a series See also Apoptosis Induction Suppression A Feasible Approach for Natural Products to Treatment of Diseases Volume II Apoptosis is generally recognized as a form of programmed cell death which is beneficial for normal cell development organ growth and tissue homeostasis in multicellular organisms In normal conditions millions of cells would indeed die and proliferate every day in the human body However an imbalance between cell death and proliferation can lead to some serious diseases Two different case scenarios can be distinguished 1 uncontrolled cell proliferation and insufficient cell apoptosis would lead to various cancer types and autoimmune diseases e g rheumatoid arthritis lupus erythematosus etc 2 excessive apoptosis in normal cells e g neural cells or cardiomyocytes would result in neurodegenerative diseases Alzheimer s disease Parkinson s disease and Huntington s disease and ischemia injuries myocardial infarction stroke etc respectively Natural products from plants animals microorganisms and minerals are potentially important resources in the context of drug discovery for various diseases Importantly increasing scientific evidence has suggested that apoptosis induction or suppression might be one of the predominant molecular mechanisms whereby natural products could be used to treat diseases especially cancer rheumatoid arthritis Alzheimer s disease Parkinson s disease stroke etc However not much is known about the detailed molecular mechanisms underlying apoptosis induction or suppression including signaling pathways novel and key pharmacological targets as well as the action of specific active substances extracted from plants etc In addition lots of active natural products based on apoptosis regulation have already received drug regulatory approvals e g taxol camptothecin and sinomenine and been used as clinical drugs to treat diseases furthermore there are many other natural products in the stages of the clinical investigations However the related advance and update of the current drug development correlated to apoptosis induction or suppression systematic reviews or meta analysis of these clinical drugs or candidate drugs in clinical research stage are insufficient This Research Topic will provide an academic platform to discuss how natural products can be used to treat several types of diseases via apoptosis induction suppression We invite authors to contribute original research and review articles testing the action of natural bioactive products on various diseases through apoptosis regulation including induction

and suppression We aim to particularly focus on the recent advances in the curative properties of natural products on cancers tumors autoimmune diseases neurodegenerative diseases and cardiac diseases through apoptosis regulation and new natural bioactive agents for controlling diseases via regulating apoptosis Potential topics will include but won t be limited to the following 1 Advance in curative properties of natural products on diseases via apoptosis regulation 2 Advance and update of the current drug development correlated to apoptosis induction or suppression 3 Novel natural products with curative activities via apoptosis induction in particular for cancers tumors rheumatoid arthritis and lupus erythematosus 4 Novel natural products with curative activities via apoptosis suppression in particular for neurodegenerative diseases Alzheimer s disease Parkinson s disease and Huntington s disease and ischemia injury myocardial infarction stroke 5 Novel signal molecules for the apoptosis related signal pathway 6 Systematic reviews or meta analysis of the approved natural drugs or candidate natural drugs in clinical research stage with induction or suppression of apoptosis

The four pillars of best practice in ethnopharmacology With these guidelines we define in detail what constitutes best practice for manuscripts submitted to Frontiers in Pharmacology Section Ethnopharmacology They provide a basis for the peer review and build on the general requirements of Frontiers in Pharmacology

1 Pharmacology a The manuscript MS must report a substantive body of ethnopharmacological research to be considered as an independent addition to the literature In general we expect that such studies are based on local traditional uses of plants or other natural substances which need to be spelled out clearly b For pharmacological studies the model used must be one which is either generally accepted in the field as valid or a credible alternative whose general development and application in the reported instance has been justified Specifically antioxidant activity must be based on a pharmacologically relevant in vivo or cell based model Simple in silico and pharmacologically irrelevant assays for antioxidant activity e g the DPPH assay FRAP Ferric Reducing Ability of Plasma ABTS 2 2 azinobis 3 ethylbenzothiazoline 6 sulfonic acid are not acceptable as a main tool for assessing an extract or a compound for activity c Similarly simple screening for anti microbial effects of crude extracts is no longer state of the art Authors must follow the widely accepted standards for microbiological testing cf Cos et al 2006 Anti infective potential of natural products How to develop a stronger in vitro proof of concept Journal of Ethnopharmacology 106 290 302 and subsequent methods papers Such research is only meaningful if it contributes to our mechanistic understanding of anti microbial effects its specificity or identifies novel leads d The dose ranges must be therapeutically relevant While it will be impossible to define an exact cut off the literature in the field is now replete with studies which test extracts at implausibly high doses Single dose studies will only be of relevance in exceptional circumstances e g in case of specific complex pharmacological models And of course positive and negative controls must be included e In order to establish therapeutic benefits selectivity data are essential How specific is the effect Many compounds have non selective in vitro effects and research on common compounds must be justified in terms of the potential therapeutic benefits While such research may be relevant and have potential applications

authors will need to assess the specificity of a single compound or an extract rich in a well studied compound like rutin curcumin or quercitin and provide evidence for the relevance and novelty of the approach f Docking studies must be justified with affinity experiments or other well established experimental methods to support a proposed mechanism of action Algorithmic docking studies will not be accepted these indicate if a compound will fit into a binding site but do not indicate the binding affinity or the ability to induce a conformational change 2 Composition a Botanical The identification of the study material must be described well All species are fully validated using Kew MPNS portal or The Plant List initiative or Plants of the World Online Of course full botanical documentation is essential i e a voucher specimen deposited in a recognised herbarium A scan of the voucher s is welcome as supplementary material and encourage authors to include the coordinates of the location where the material had been collected b Chemical The composition of the study material must be described in sufficient detail Chromatograms with a characterisation of the dominating compound s are preferable If preparations are used which are available commercially quality parameters provided in pharmacopoeia must be provided The material under study must be characterised using the methods of the relevant monograph If pure compounds are used sufficient information on the level of purity must be included Especially in in vitro models the authors must be confident that the compounds are stable under the conditions used for example they do not degrade due to high concentrations of DMSO A critical aspect that should be considered is how these assays and extraction protocols are linked to local and traditional uses In this way variables such as the solubility of the compound in the traditional preparation and in the analytical extraction protocol should be taken into consideration All chemical line structures must be drawn using a internationally accepted structure drawing programme must be consistent and if possible and relevant the stereochemistry needs to be given c Multiherbal preparations Very often multiherbal preparations are used Full information on their composition in terms of the botanical drugs species included and information on the rationale for studying this preparation needs to be included It is essential that in these cases sufficient details are provided on the botanical 2a and chemical 2b characterisation 3 Basic requirements and research ethics Frontiers has very well developed guidelines relating to ethical aspects of a MS Specifically for Frontiers in Pharmacology Ethnopharmacology the following key requirements are essential a The objectives of the research reported must be spelled out clearly and in detail All MS must critically assess the scientific basis of the work and provide meaningful conclusions which are based on a clear hypothesis research question as defined in the introduction Ethnopharmacological research must assess whether a compound or plant extract has a certain effect and it cannot be about confirming an extract s or compound s effects or efficacy b Research must add new and scientifically substantive knowledge to our understanding of the pharmacology and use of medicinal plants A key basis for this is a review of literature relevant to the pharmacological activity already reported on the species including possibly related taxa or compounds This must be up to date and clearly demonstrate the substantive addition to the literature the MS submitted represents Simply using advanced measurements

techniques protocols reproducing previous studies of the same plant product will only be accepted in exceptional circumstances e g previously unknown highly active components are discovered c Compliance with all international ethical standards is essential In the context of ethnopharmacology the Convention on Biological Diversity and most recently the Nagoya Protocol are of particular relevance <https://www.cbd.int/abs> d Research in ethnopharmacology is based on local and traditional knowledge often passed on orally over generations Ultimately research in this field must therefore benefit those populations who are or were the original keeper of this knowledge e The use of animals must be justified in the context of novelty see also part 1 It is ethically not acceptable to have yet another in vivo study on an already well studied species demonstrating some common activity e g an anti inflammatory effect studied in the rat paw edema The same is true for species which are chemically very similar and generally are rich in common ingredient to ones already studied pharmacologically Such studies must meet s the standards of rigor we expect in ethnopharmacology as defined in the Frontiers guidelines 4 Other specific requirements a Studies focusing on local and traditional uses of plants ethnopharmacological field studies must be based on substantial original data The relevance of the MS in the context of previous studies in the geographical region must be spelled out clearly and it must contribute to the understanding of the therapeutic uses of plant species and inform experimental or clinical studies This includes an adequate presentation and discussion of the data Also social science centered studies e g ethnobotanical studies or health system research of local and traditional medical systems are welcome This journal subscribes to the ConSEFS standards including any updates b In case of reviews we expect clearly defined scientific aims objectives a comprehensive critical and specific assessment of the relevant information linking local and other medical uses to the biomedical and bioscientific evidence Reviews need to define future research needs and priorities It is essential that the scientific quality of the original articles cited is assessed If pharmacological studies are reviewed particular attention must be paid to assessing the quality of the studies c Food plants are commonly reported to have pharmacological effects Frontiers in Ethnopharmacology focuses on therapeutic benefits of such species and not on the general food nutritional properties

Phase I Oncology Drug Development Timothy A. Yap, Jordi Rodon, David S. Hong, 2020-09-16 This book provides a detailed review of how oncology drug development has changed over the past decade and serves as a comprehensive guide for the practicalities in setting up phase I trials The book covers strategies to accelerate the development of novel antitumor compounds from the laboratory to clinical trials and beyond through the use of innovative mechanism of action pharmacodynamic biomarkers and pharmacokinetic studies The reader will learn about all aspects of modern phase I trial designs including the incorporation of precision medicine strategies and approaches for rational patient allocation to novel anticancer therapies Circulating biomarkers to assess mechanisms of response and resistance are changing the way we are assessing patient selection and are also covered in this book The development of the different classes of antitumor agents are discussed including chemotherapy molecularly targeted agents

immunotherapies and also radiotherapy The authors also discuss the lessons that the oncology field has learnt from the development of hematology oncology drugs and how such strategies can be carried over into therapies for solid tumors There is a dedicated chapter that covers the specialized statistical approaches necessary for phase I trial designs including novel Bayesian strategies for dose escalation This volume is designed to help clinicians better understand phase I clinical trials but would also be of use to translational researchers MDs and PhDs and drug developers from academia and industry interested in cancer drug development It could also be of use to phase I trial study coordinators oncology nurses and advanced practice providers Other health professionals interested in the treatment of cancer will also find this book of great value

Cumulated Index Medicus ,1981 **Polypharmacology** Zhiguo Wang,Baofeng Yang,2022-08-01 There is a growing interest in unmet needs for the development of a new discipline in drug discovery and in university education on polypharmacology However there has not been a book with the comprehensive compilation of basic knowledge and advanced methodology that is needed This book aims to meet the needs making Polypharmacology a new sub discipline of Pharmacology not only being a hot area of pharmacological research and education but also a new paradigm for drug discovery It contains the contents covering the entire scope of Polypharmacology including systemic in depth exposition of basic knowledge novel concepts innovative technologies and translational and clinical applications by showcasing state of the art strategies and step by step instructions of cutting edge methods The contents of this book targets broad readerships including scientists in pharmacology research and drug development and university teachers and graduates in medical school or school of pharmacy **HERBAL PHARMACY: From Traditional Remedies to Modern Applications** MRS. DEEPIKA GUPTA,MR. SHUBHAM BHATT,DR. SHIKHAR VERMA,DR. PRAKASH DEEP,DR. NEELKANTH M.

PUJARI,2025-05-31 It is with great pleasure and scholarly commitment that we present this edited volume Herbal Pharmacy From Traditional Remedies to Modern Applications published by EDU Publishers This comprehensive book brings together the collective expertise of academic scholars researchers and practitioners to explore the evolving landscape of herbal pharmacy a field deeply rooted in traditional knowledge and increasingly shaped by modern scientific advances The use of medicinal plants and herbal remedies dates back centuries and continues to play a significant role in global healthcare systems With a renewed focus on holistic health and evidence based natural therapies herbal pharmacy is witnessing a resurgence in academic clinical and industrial settings This book serves as a timely and informative resource for students researchers educators and healthcare professionals seeking a deeper understanding of herbal medicines and their applications Structured into 18 chapters the book covers a broad spectrum of topics essential to the study and practice of herbal pharmacy It begins with foundational knowledge in Introduction to Herbal Pharmacy Phytochemistry and Pharmacognosy providing the scientific basis for understanding plant based therapeutics Subsequent chapters explore formulation science dosage forms and Herbal Pharmacology followed by insights into Ethnobotany traditional systems and

the integration of herbal medicine in managing both common ailments and chronic diseases The text further delves into the growing domains of Herbal Supplements and Nutraceuticals Clinical Applications and Evidence Based Practice emphasizing the importance of scientific validation Issues of Safety Toxicology and Regulatory and Quality Control Aspects are thoroughly discussed to address contemporary challenges in herbal product development Specialized chapters on Herbal Pharmacotherapy in Special Populations Herbal Dermatology Dentistry Veterinary Medicine and Mental Health reflect the wide ranging applicability of herbal medicine in diverse fields The book concludes with a forward looking chapter on Innovations in Herbal Pharmacy highlighting emerging trends technologies and research directions This volume is the result of the collaborative efforts of a dedicated editorial team bringing a unique perspective and wealth of experience in pharmaceutical sciences pharmacognosy and herbal medicine Together we have curated contributions that balance academic rigor with practical relevance We extend our heartfelt thanks to all contributing authors peer reviewers and EDU Publishers for their support in bringing this vision to fruition We hope this book serves as a valuable reference and inspires continued learning research and innovation in the field of herbal pharmacy

Modern Rejuvenation Methods Charles Evans Morris,1926 **Reviews in Ethnopharmacology: 2023** Irina Ielciu,Rajeev K. Singla,Hanganu Daniela,Michel Frederich,2025-04-15 Frontiers in Pharmacology is delighted to present the Reviews in Ethnopharmacology 2023 series of article collections Reviews in Ethnopharmacology will publish high quality scholarly review papers on key topics in Ethnopharmacology It aims to highlight recent advances in the field whilst emphasizing important directions and new possibilities for future inquiries We anticipate the research presented will promote discussion in the Ethnopharmacology community that will translate to best practice applications in clinical public health and policy settings The Reviews in Ethnopharmacology 2023 collection welcomes full length mini or systematic review papers New articles will be added to this collection as they are published This collection welcomes manuscripts that focus on the following themes 1 Translational potential of traditional medicinal plants in cancer prevention 2 Ethnopharmacology of mental health disorders insights from traditional healing practices and scientific validation 3 Ethnobotanical approaches for combating antimicrobial resistance 4 Traditional medicine in the digital age opportunities and challenges 5 Herbal medicine and chronic disease management a global perspective 6 Ethnopharmacology and sustainable development balancing conservation and community health 7 Ethnopharmacology of traditional Chinese medicine bridging ancient wisdom and modern science 8 Medicinal plants used in Ayurveda exploring traditional knowledge and contemporary applications All the manuscripts submitted to the collection will need to fully comply with the Four Pillars of Best Practice in Ethnopharmacology you can freely download the full version here Importantly we expect an overview on the composition of the preparations used in the pharmacological experiments or a clinical study reviewed Therefore we also expect that the MS follow the standards established in the ConPhyMP statement Front Pharmacol 13 953205 **Goldfrank's Toxicologic Emergencies** Lewis R. Goldfrank,2002 The number 1 reference

in the field for the last quarter of a century Goldfrank's Toxicologic Emergencies Eighth Edition has been completely updated to equip emergency physicians with today's most authoritative guide to clinical toxicology The book presents unsurpassed coverage of all aspects of toxicologic emergencies from pharmacology and clinical presentation to treatment guidelines and case studies Using a unique case study approach Goldfrank's fully examines general principles and techniques the biochemical and molecular basis of toxicology and how toxins affect vital signs organs and systems throughout the body From publisher's description

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Modern Pharmacology With Clinical Appl Introduction

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