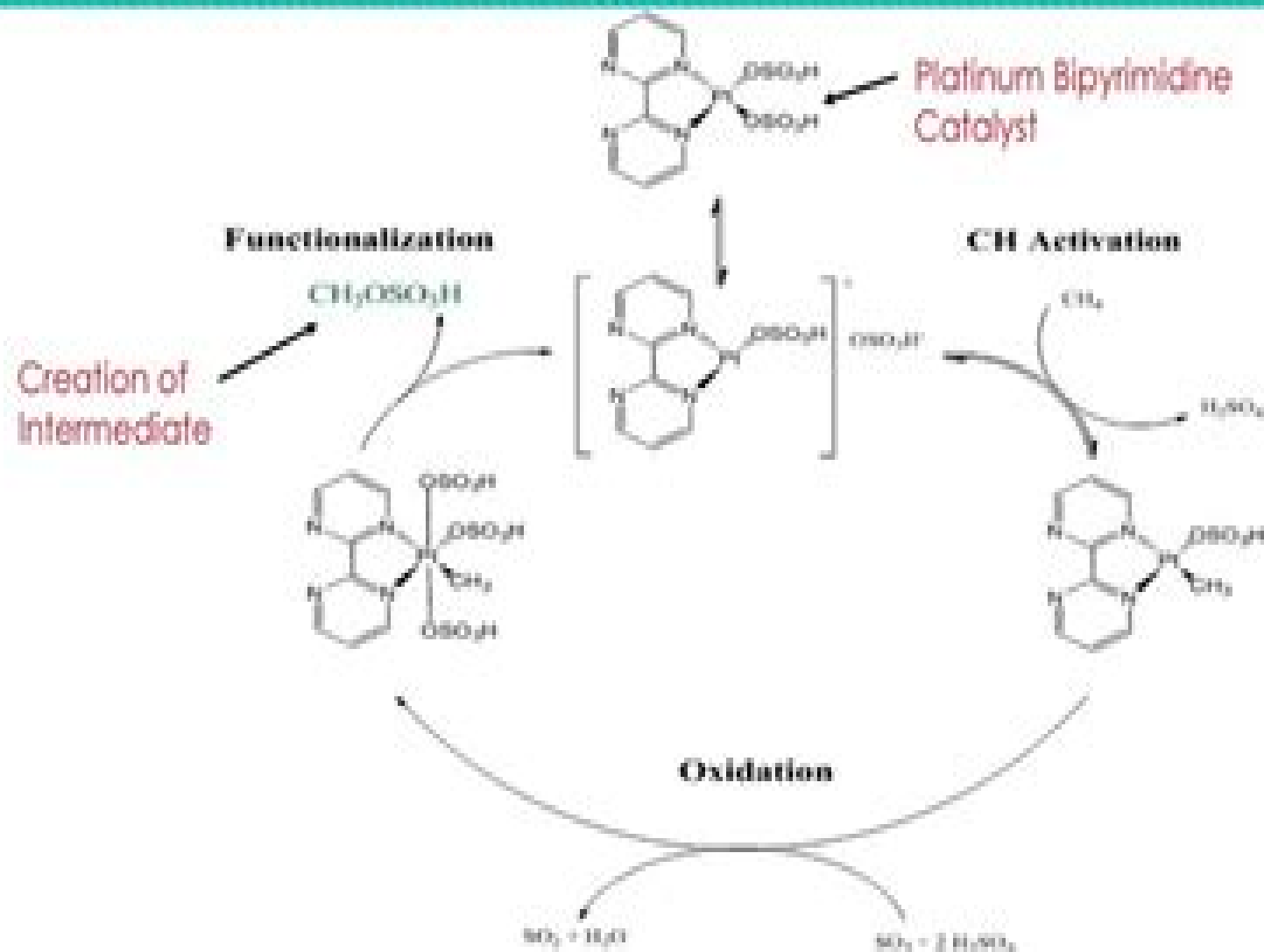


Reaction Pathway



Pathway To Platinum

**Michelle A. Rudek, Cindy H.
Chau, William D. Figg, Howard L.
McLeod**

Pathway To Platinum:

Machine Learning and Mathematical Models for Single-Cell Data Analysis Le Ou-Yang,Xiaofei Zhang,Jiajun Zhang,Jin Chen,Min Wu,2022-11-29 **Editorial: Current Aspects in Chemopreventive Strategies** Hardeep Singh Tuli,Mukerrem Betul Yerer Aycan,Katrin Sak,2021-02-09 **Advances in Epithelial Ovarian Cancer: Model Systems, Microenvironmental Influences, Therapy, and Origins** Viive Maarika Howell,Ben Davidson,TIAN-Li WANG,Christina Annunziata,2016-02-03 This eBook provides a compendium of the current state of the art in research tools for and understanding of the critical research areas in epithelial ovarian cancer EOC with a strong emphasis on HG SOC Research areas covered include therapy response and development microenvironmental influences and the etiology and progression of EOC Ten articles detail established and novel in vivo and in vitro model systems These include primary and immortalized cell culture in 2D and 3D as well as genetically engineered transgenic spontaneous syngeneic classical xenograft and patient derived xenograft mouse models The generation of genetically engineered mouse models of HG SOC has been a major dilemma as models with the oncogenic aberrations common in the human malignancy do not accurately recapitulate HG SOC Conversely commonly used HG SOC cell lines have been found to not harbor the expected genetic changes These issues as well as the rapid acceptance of patient derived xenograft models are reviewed Five articles discuss different aspects of the tumor microenvironment including its role in therapy resistance disease progression and metastasis Mutation of BRCA1 2 continues to be the best defined risk factor for HG SOC Three articles discuss BRCA loss in the context of disease development targeted therapies and changes in preventative measures proposed for mutation carriers in light of the recent advances in knowledge regarding the origins of this malignancy An image of HG SOC with reduced BRCA1 expression is featured on the cover image by VM Howell A major clinical issue for patients with HG SOC is the development of therapy resistance Five articles focus on therapy resistance and different ways to overcome resistance Overall this eBook is an outstanding resource to aid researchers design their programs of research and determine the most appropriate and up to date EOC model systems to address their research questions **Emerging Therapeutic Targets in Ovarian Cancer** Stan Kaye,Robert Brown,Hani Gabra,Martin Gore,2010-11-23 **Halogenated Heterocycles** Jernej Iskra,2012-02-07 G Sandford Perfluoroheteroaromatic Chemistry Multifunctional Systems from Perfluorinated Heterocycles by Nucleophilic Aromatic Substitution Processes A A Gakh Monofluorinated Heterocycles R Dembinski Y Li D Gundapuneni A Decker Synthesis of beta Halofurans Y Shermolovich S Pazenok Synthesis of halogenated 5 and 6 membered sulfur and Sulfur Nitrogen Containing Heterocycles S Minakata Y Takeda J Hayakawa Heterocyclic Reagents Containing Nitrogen Halogen Bond Recent Applications Michael Schnrch Recent Progress on the Halogen Dance Reaction on Heterocycles T Kosjek E Heath Halogenated Heterocycles as Pharmaceuticals E Heath T Kosjek Sources Occurrence and Fate of Halogenated Heterocyclic Pharmaceuticals in the Environment J Iskra Green Methods in Halogenation of Heterocycles **Encyclopedia**

of Electrochemical Power Sources Jürgen Garche, Chris K. Dyer, Patrick T. Moseley, Zempachi Ogumi, David A. J. Rand, Bruno Scrosati, 2013-05-20 The Encyclopedia of Electrochemical Power Sources is a truly interdisciplinary reference for those working with batteries fuel cells electrolyzers supercapacitors and photo electrochemical cells With a focus on the environmental and economic impact of electrochemical power sources this five volume work consolidates coverage of the field and serves as an entry point to the literature for professionals and students alike Covers the main types of power sources including their operating principles systems materials and applications Serves as a primary source of information for electrochemists materials scientists energy technologists and engineers Incorporates nearly 350 articles with timely coverage of such topics as environmental and sustainability considerations

Lung Cancer: David J. Stewart, 2010-03-10 Defining the Lung Cancer Problem 1 Lung cancer is the leading cause of cancer death in the world It kills almost as many Americans as cancers of the breast prostate colon rectum pancreas and 2 kidney combined and accounts for 28.6% of all US cancer deaths With an increase in the 5 year relative survival rate from 13% to only 16% in the more than 230 years from 1974 to the present it will take us another 840 years to eradicate lung cancer deaths if we do not improve the current rate of progress As discussed in this text lung cancer prevention has received substantial attention The decrease in smoking in recent decades has helped but smoking is not the only problem Lung cancer in people who have never smoked is currently the 5th leading cause of cancer death in the United States Several factors contribute to the lethality of lung cancer including the rapidity of tumor growth advanced stage at diagnosis due to nonspecificity of early symptoms and the uncertain efficacy of screening early development of metastases and resistance to therapy Several chapters in this book discuss new molecular targets that may be potentially exploitable in the future as well as discussing our track record to date in exploiting them

Bioinorganic Medicinal Chemistry Enzo Alessio, 2011-02-25 This book gives a comprehensive overview about medicinal inorganic chemistry Topics like targeting strategies mechanism of action Pt based antitumor drugs radiopharmaceuticals are covered in detail and offer the reader an in depth overview about this important topic

Overcoming Ovarian Cancer Chemoresistance Goli Samimi, Christina Annunziata, 2020-11-06 Overcoming Ovarian Cancer Chemoresistance presents non overlapping review chapters that discuss the state of the field in overcoming chemoresistance of ovarian cancer and treatment options before and following recurrence considering the genetic makeup of the ovarian cancer patient and her tumor With the uptake of both germline and somatic gene testing clinicians can obtain a more comprehensive understanding of ovarian tumors and this book provides information to link the genetic makeup of a tumor or patient with the best available treatment The book discusses topics such as strategies to fight chemo resistance in ovarian cancer circulating DNA as a monitor of response BRCA mutations ovarian cancer stem cells immunotherapy and vaccines Additionally it brings a list of promising agents at clinical and pre clinical stage that will impact the treatment in the near future This book is a valuable source for cancer researchers oncologists and several members of biomedical field who need to

understand how to battle chemoresistance in ovarian cancer Provides a comprehensive view of both biological and genetic determinants of resistance as well as technical approaches to monitor response Discusses genetic reversions as a unique alteration and a new field of study Includes a chapter on upcoming and promising agents that are in the pre clinical and early clinical space to set the stage for future directions in the field

PEM Fuel Cell Failure Mode Analysis

Haijiang Wang,Hui Li,Xiao-Zi Yuan,2011-08-25 PEM Fuel Cell Failure Mode Analysis presents a systematic analysis of PEM fuel cell durability and failure modes It provides readers with a fundamental understanding of insufficient fuel cell durability identification of failure modes and failure mechanisms of PEM fuel cells fuel cell component degradation testing and mitigation strategies against degradation The first several chapters of the book examine the degradation of various fuel cell components including degradation mechanisms the effects of operating conditions mitigation strategies and testing protocols The book then discusses the effects of different contamination sources on the degradation of fuel cell components and explores the relationship between external environment and the degradation of fuel cell components and systems It also reviews the correlation between operational mode such as start up and shut down and the degradation of fuel cell components and systems The last chapter explains how the design of fuel cell hardware relates to failure modes Written by international scientists active in PEM fuel cell research this volume is enriched with practical information on various failure modes analysis for diagnosing cell performance and identifying failure modes of degradation This in turn helps in the development of mitigation strategies and the increasing commercialization of PEM fuel cells

Advances of Endocrine and Metabolic Cardiovascular Outcomes: From Basic to Clinical Science

Si Jin,Ye Ding,Chengqi Xu,Qiulun Lu,2023-03-02 Renin angiotensin aldosterone system RAAS dependent hypertension diabetes featured by hyperglycemia hyperlipidemia hyperuricemia hyperhomocysteinemia overweight or obesity etc represent the major types of endocrine and metabolic disorders which contribute most to the development of atherosclerosis based cardiovascular diseases In clinical studies these diseases comprise nonfatal myocardial infarction nonfatal cerebral infarction or even cardiovascular death termed 3 major adverse cardiovascular events 3p MACE On one side these endocrine or metabolic dysfunctions are the upstream risk factors of cardiovascular diseases Meanwhile more and more antidiabetic drugs e g glucagon like peptide 1 GLP 1 receptor agonists sodium glucose transporter 2 inhibitors SGLT2i etc are reported to have not only blood glucose lowering effects but also have direct cardiovascular protective effects independent of the glucose lowering effects Regarding the close relationship between endocrine or metabolic disorders and downstream cardiovascular outcomes a call for a new subspeciality in internal medicine cardiometabolic medicine was proposed in Am J Med 2019 Recently many basic or clinical studies focused on endocrine and metabolic cardiovascular outcomes The goal of this Research Topic is to compile recent advances concentrating in this area both in terms of basic and clinical aspects to further value the cardiovascular outcomes in treating endocrine and metabolic diseases

Emerging Molecular Signaling Pathways and Therapeutic Targets in the

Genitourinary Immune Microenvironment Zhangqun Ye,Yin Sun,Guohua Zeng,Zhibing Zhang,Jianxing Li,Dongwen Wang,2023-12-29 It is well known that the immune microenvironment is critical to the progression of genitourinary malignancies and benign diseases A variety of cellular and molecular properties of the immune microenvironment may influence disease outcome by altering the balance of suppressive versus inflammatory or cytotoxic responses Emerging evidence suggests that immunoediting is a key factor of phenotypic change immunological alterations caused by physical activity or drug treatments could promote antitumor or anti inflammatory activity Conversely microenvironment deficits or dysregulation can instigate or worsen pathological progression thereby contributing to urinary disease development and progression Thus understanding how immune microenvironments react and maintain appropriate antitumor or anti inflammatory responses is important for identifying actionable therapies to improve genitourinary health Recent technological developments particularly in the areas of genetic modification and redox indicators provide hopeful new treatments not only in urinary cancer kidney cancer bladder cancer relatively rare adrenocortical cancer and penile cancer but also in begin diseases like kidney stones and kidney injuries The purpose of this topic is to provide up to date reviews and original articles that highlight research on immunological mediators of tumor progression and inflammatory related genitourinary diseases which we hope will not only integrate our current understanding but crystallize nascent questions that will help move the field forward This research topic aims to inspire novel insights into the immunity mechanisms novel therapeutic targets and effective combinational strategies of urinary immunotherapies *Handbook of Anticancer Pharmacokinetics and Pharmacodynamics* Michelle A. Rudek,Cindy H. Chau,William D. Figg,Howard L. McLeod,2014-01-10 There are many steps on the road from discovery of an anticancer drug to securing its final approval by the Food and Drug Administration In this thoroughly updated and expanded second edition of the Handbook of Anticancer Pharmacokinetics and Pharmacodynamics leading investigators synthesize an invaluable overview of the experimental and clinical processes of anticancer drug development creating a single indispensable reference that covers all the steps from the identification of cancer specific molecular targets to screening techniques and the development and validation of bioanalytical methods to clinical trial design and all phases of clinical trials The authors have included new material on phase 0 trials in oncology organ dysfunction trials drug formulations and their impact on anticancer drug PK PD including strategies to improve drug delivery pharmacogenomics and cancer therapy high throughput platforms in drug metabolism and transport pharmacogenetics imaging in drug development and nanotechnology in cancer Authoritative and up to date Handbook of Anticancer Pharmacokinetics and Pharmacodynamics 2nd Edition provides in one comprehensive and highly practical volume a detailed step by step guide to the successful design and approval of anticancer drugs Road map to anticancer drug development from discovery to NDA submission Discussion of molecular targets and preclinical screening Development and validation of bioanalytical methods Chapters on clinical trial design and phase 0 I II III clinical trials Pharmacokinetics

pharmacodynamics pharmacogenomics and pharmacogenetics of anticancer agents Review of the drug development process from both laboratory and clinical perspectives New technological advances in imaging high throughput platforms and nanotechnology in anticancer drug development

Dietary phytochemicals: Identification, bioactivities, and delivery strategy Er Sheng Gong, Wei Liu, Natalia S. Podio, Lijun You, Lin Zhou, 2023-07-27 **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

Principles and Practice of Gynecologic Oncology

Richard R. Barakat, Maurie Markman, Marcus Randall, 2009 Providing comprehensive coverage of the biology of gynecologic cancer the therapeutic modalities available and the diagnosis and treatment of site specific malignancies this edition has 30 percent new contributing authors and new material A companion Web site offers a fully searchable text

Journal of the National Cancer Institute, 2012

Combinatorial Approaches for Cancer Treatment: from Basic to Translational Research Daniela Spano, Aniello Cerrato, George Mattheolabakis, 2022-03-03

Fundamentals of Medium/Heavy Duty Diesel Engines Gus Wright, 2021-09-30 Preview a Sample Chapter Now Chapter 12 Diesel Fuel Properties and

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