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"Outlines and Pictures of Medicinal Plants from Nigeria is a compendium of Nigerian plants known and used by local people for medicinal purposes."--Provided by publisher.

Being a complex disease that affects millions of people world over, cancer research has assumed great significance.

Translational cancer research transforms scientific discoveries in the laboratory or population studies into clinical application to reduce incidence of cancer , morbidity and mortality. It is becoming increasingly evident that cancer is a preventable disease. The IVth International Symposium on Translational Cancer Research held in Udaipur, India in December 2011, discussed various aspects of the biological processes in cancer cells

and approaches to cancer prevention. A few contributions from this meeting are presented in this book, providing an in depth analysis of data on cancer prevention and therapeutics. These contributions are either critical reviews or research reports. The topics discussed include evidence-based nutritional recommendations for cancer patients and survivors, risk factors such as stress, enrichment of tumour

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**stem cells by anticancer
drug treatment
contributing to tumour
recurrence and the
mechanism of anticancer
effects of various natural
products.**

**Chemosensitizing effect
of curcumin, anti-cancer
effect of products from
neem, action of
sulforaphane and
cytotoxic effect of a
number of novel
synthetic coordination
complexes of trace
metals have been
discussed. Novel
molecular targets of**

**angiogenesis and
molecular basis of the
gender bias to thyroid
cancer have also been
discussed . This book
provides useful
information on
translational cancer
research to clinicians and
biomedical scientists.
Ficus deltoidea var.
Angustifolia, a member of
the family Moraceae and
better known as 'mas
cotek' among local
community of Malaysia, is
used in traditional
medicine as a remedy for
pain and other ailments.**

In this study, the antinociceptive effect of the 150 mg/kg ethylacetate (EAF) and 150 mg/kg hexane (HF) fractions of an ethanolic leaf extract of Ficus deltoidea var.

Angustifolia was investigated in mice and rats using three models of nociception via the acetic acid-induced abdominal writhing test, hot plate test and formalin-induced paw licking test. The mechanism of action of the extract was

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**elucidated through
administration of
naloxone. The statistical
analysis will be
performed by ANOVA;
follow by Dunnett's
multiple comparison test.
The results are express
as the mean \pm S.E.M. to
show variation in groups.
Differences are consider
significant when P**

**Medicinal Plants:
Biodiversity, Sustainable
Utilization and
Conservation
Perspectives in Cancer
Prevention-Translational
Cancer Research**

**Anti-inflammatory Effects
of the Ethanolic Extract of
Acanthopanax Trifoliatum
(L) Merr Leaves in Acute
and Chronic Animal
Models of Inflammation
Potentiation of the Anti-
dandruff Effects of an
Ethanolic Extract of
Ketepeng (cassia Alata L)
Leaves by Salicylic Acid
Assessment of the
antioxidant and
cholesterol-lowering
activity of artocarpus
ovatus blanco (Moraceae)
leaf extract**

Artocarpus ovatus Blanco is an
endemic plant species belonging to

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the family Moraceae. Artocarpus species have known medicinal value because they are rich in biological compounds such as flavonoids. This study evaluated the cholesterol-lowering activity of the *A. ovatus* ethanollic leaf extract (AOEE) in Sprague Dawley rats and its acute oral toxicity. The plant extract and its solvent fractions (test samples) were screened for the presence of secondary metabolites using qualitative tests and thin layer chromatography. The in vitro antioxidant activity of the test samples was determined using 2,2-diphenyl-1-picrylhydrazyl (DPPH), hydrogen peroxide and nitric oxide radical scavenging

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assays. The ethanolic leaf extract of *A. ovatus* was obtained through percolation using 95% ethanol as the extracting solvent and concentrated under reduced pressure. It was partitioned with hexane, dichloromethane (DCM) and n-butanol. The resulting fractions were also concentrated in vacuo.

Phytochemical screening detected the presence of secondary metabolites such as anthraquinones, flavonoids, phenolics and terpenes in the ethanolic extract and DCM fraction. The AOEE and its solvent fractions were negative for alkaloids and saponins. In the in vitro antioxidant assays, the ethanolic extract demonstrated a significant

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DPPH (IC₅₀ = 0.078 mg/mL) and nitric oxide (IC₅₀ = 0.098 mg/mL) radical scavenging activities as well as hydrogen peroxide (IC₅₀ = 0.045 mg/mL) scavenging effect. The ethanolic leaf extract of *A. ovatus* was subjected to acute oral toxicity test based on the guidelines of OECD 425 main test and was found to be safe and non-toxic up to 2000 mg/kg body weight of female Sprague Dawley rats. AOEE treated rats at doses of 200, 400 and 600 mg/kg showed time dependent reduction of serum levels of total cholesterol, triglycerides and low density lipoproteins after 14 days of oral administration (p

Diabetes is a global pandemic where

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many remedies have been recommended as means of combating the prevalence of this disease. However, dietary control appears to be more effective than others. This book focuses on interventions concerning glycemic control, the oxidative stress-based occurrence of the disease and its prevention, as well as novel remedies. While many books have been published recently on this aspect, the book aims to serve as an update to the scientific community, as well as to those who have been adversely affected by the disease. There are many unexplored territories when it comes to diabetes, and it is hoped that this publication

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will open up new avenues of successfully curbing its occurrence.

Betel leaf is tested to have antioxidant, antimicrobial and bactericidal properties. The antimutagenic and antimicrobial activity of the ethanolic extract of Piper betel leaves was determined based on its intrinsic antioxidant potential. This research deals with antimutagenic and bactericidal effect of betel vine extract. many reports are available on antimicrobial effect of this plants, but very few works are available which showed its antimutagenic proterty and DNA protection/repair ability. The methodology described in this work were very in simplified

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form and contained details information, which will help the readers to follow this work on other important plants.

Hepatoprotective Plants

A Guide to Modern Techniques of
Plant Analysis

Medicinal Plants and Natural
Product Research

Herbal Medicine in Depression

Effects of Ethanol on Products of
Photosynthetic Fixation of C¹⁴O₂ in
Leaves of Oat and Pea

This book gives many examples of medicinal plants. It also describes the medicinal effects of these plants, and describes the mechanisms of action of many medicinal plant

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extracts. This book will be informative to many people in the world who currently want to include more plant-based foods and "herbs" in their diets. It will also educate those people who want to take plant materials as infusions/effusions or as smoothies to obtain micronutrients.

This book is focused on clarifying the anticancer effects (i.e., apoptotic, antiproliferative, antimetastatic, antiangiogenic) and mechanisms of most of the medicinal plants found in the world against solid and/or hematological cancers.

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While there are many books available on methods of organic and biochemical analysis, the majority are either primarily concerned with the application of a particular technique (e.g. paper chromatography) or have been written for an audience of chemists or for biochemists working mainly with animal tissues. Thus, no simple guide to modern methods of plant analysis exists and the purpose of the present volume is to fill this gap. It is primarily intended for students in the plant sciences, who have a botanical or a general biological background. It should also be of value to

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students in biochemistry, pharmacognosy, food science and 'natural products' organic chemistry. Most books on chromatography, while admirably covering the needs of research workers, tend to overwhelm the student with long lists of solvent systems and spray reagents that can be applied to each class of organic constituent. The intention here is to simplify the situation by listing only a few specially recommended techniques that have wide currency in phytochemical laboratories. Sufficient details are provided to allow the student to use the techniques for themselves

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and most sections contain some introductory practical experiments which can be used in classwork.

Phytochemical Methods

Use in Prevention and

Treatment of Diseases

*New insights into Ancient
Challenges*

Traditional Medicine to

Innovative Drug Delivery

Mechanism of Wound Healing

and Gastro Protective

Effects of Ethanol Leaf

Extract of Jasminum Sambac

and Hemigraphis Colorata on

HCL/ethanol-induced Gastric

Injury in Experimental

Animals

This book is designed to

provide pharmacologists and

researchers of natural

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products a comprehensive review of 200 medicinal plants, their vernacular names in various languages and their medicinal uses around the world, and in some cases, a historical perspective. Chemical constituents of each plant with the putative active constituent, and available up to date pharmacological studies (until 2017 on PubMed) with each medical activity explored and its relationship with traditional uses, are described for each plant. Any variations in chemical constituents and their effects on pharmacological studies outcome have been

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highlighted. All clinical trials conducted, with sufficient details, have been included. Nationalities and racial identities of participants of clinical trials are identified to impress upon the social, cultural and dietary influences on the clinical outcomes. Toxicity studies and potential interactions with prescribed drugs, and full spectrum of references are included.

Analgesic Effects of the Ethanolic Extract from Anacardium Occidentale L. Leaves Effect of Ethanolic Leaf Extract of Moringa Oleifera on Aluminum-Induced Anemia in White Albino Rats

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*Jordan Journal of
Biological Sciences .- 2012,
Vol. 5, No. 4Anti-
inflammatory Effects of the
Ethanolic Extract of
Acanthopanax Trifoliatum (L)
Merr Leaves in Acute and
Chronic Animal Models of
Inflammation*

*The problem of fertility
control is a matter of great
interest in developing
countries to control the
rapidly increasing
population. In contrast to
females, there are limited
approaches to control male
fertility. However, in
recent years, regulation of
male fertility by using
plant extracts has attracted
much interest of researchers*

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because an antifertility agent of plant origin is cost effective and has low toxicity. The present book reviews various approaches that have been worked out to control male fertility, and their drawbacks. Further, it reports the effects of chronic administration of 50% ethanolic leaf extract of *F. bengalensis* on spermatogenesis and fertility in albino mouse. This book might be helpful to students and researchers to enrich their knowledge about contraceptive plants. By Azahar Bin Mohd Danial
Herbal Approach to Male Fertility Control
Therapeutic Effects of HPLC-

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*isolated Subfractions from
Ethanolic Moringa Oleifera
Leaf Extracts on Cancer and
Inflammatory Diseases
Effect of Leaf Extract of
Ficus Bengalensis (Linn.) on
Spermatogenesis and
Fertility in Albino Mouse
Analgesic Effects of the
Ethanolic Extract from
Anacardium Occidentale L.
Leaves*

*Hibiscus rosa sinensis has previously shown
that it possesses anti-pyretic properties and
also anti-inflammatory properties.*

*However, there are only limited studies on
Hibiscus rosa sinensis had been conducted
as there are many therapeutic effects have
not been scientifically proven. Therefore,
this study is designed to determine the anti-
inflammatory activity of both the red and
white variants of Hibiscus rosa sinensis*

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flower and leaf extract. Two experimental models of anti-inflammation were conducted, the histamine- and bradykinin-induced paw edema test. Treatment with red and white variants of Hibiscus rosa sinensis flower and leaf ethanol extracts (100 mg/kg) exhibited significant (P

In vitro determination of the influence of salicylic acid on the anti-dandruff activity of an ethanolic extract of ketepeng leaves (Cassia alata L., Caesalpiniaceae) was carried out according to the diffusion method using metal cylinders as reservoir. It was shown that this combination performed a synergistic effect against Staphylococcus aureus and Staphylococcus epidermidis at the minimum inhibition concentration of 0.75% salicylic acid and of 25% extract. A positive result could also be observed against fungi isolated from dandruff, as Mycosporum gypseum and Homodendron pedrosoi. [Authors' abstract].

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This book introduces readers to nearly 600 common weeds. In addition to essential information, each chapter includes photos for a specific type of weed to show its morphology in different growth periods, such as seedling, root, flower, fruit, and mature plant. The book also discusses control measures, including agricultural, chemical, physical, biological, and comprehensive methods. The Volume 3 mainly focuses on 252 Species of Dicotyledonous and Monocotyledonous Weeds along with 2 Species of Liverworts and Mosses. With the development of society and economics, weeds have become a recurring problem. In particular, the exotic, invasive, and quarantine weeds have spread dramatically and rapidly. On the other hand, many people, even those who are engaged in weed control, do not (or cannot) distinguish between weeds. Thus there is significant demand for illustrations

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of weed morphologies, as well as information on their control measures. This book offers a valuable, practical guide for all those working in the fields of crop cultivation, plant protection and quarantine management.

Antimutagenic and Bactericidal Effect of Betel Vine Ethanol Extract

Anti Inflammatory Activity of Hibiscus Rosa Sinensis Flower and Leaf Ethanol Extracts

Handbook of Research on Herbal Liver Protection

Medicinal Plants

Acute Toxicity of Ethanolic Leaf Extract of Myrianthus Arboreus on the Liver Enzymes of Wistar Rats

The potential
anticoagulant activity
of the crude ethanolic
extract of Ficus

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pseudopalma Blanco
(Moraceae) was
investigated in vivo.

The crude ethanolic
extract of F.

pseudopalma (EEFP) was
obtained by exhaustive
percolation and
concentrated in vacuo.

The crude extract and
its fractions (petroleum
ether, chloroform, ethyl
acetate, n-butanol and
water) were screened for
the presence of
secondary metabolites
using thin layer
chromatography.

Phytochemical screening

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identified the presence of secondary metabolites such as flavonoids, phenols, tannins, alkaloids, coumarins, anthraquinones, anthrones, indoles, triterpenes and sterols in the ethanolic extract of *F. pseudopalma* and its solvent fractions.

Assessment of *F. pseudopalma* by the slide method revealed a prolonged clotting time using warfarin as positive control.

Determination of prothrombin time

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(PT)/International
Normal Ratio (INR) in
randomized male Sprague-
Dawley rats of five
groups used (1) negative
control (water), (2)
positive control (oral
anticoagulant warfarin
at 16 mg/kg/ day) and
crude EEFP at 500 mg,
1500 mg/kg to 2000 mg/
kg/ BW (Body Weight) per
day. The result showed a
dose dependent
anticoagulant activity
at 2000 mg/kg BW.
Statistical analysis and
interpretation of the
anticoagulant effect of

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F. pseudopalma was done using One-way ANOVA and Student's t-test.

Clotting time in groups 1500 mg/kg EEFP (208.33 ± 22.06 seconds) and 2000 mg/kg EEFP (209.17 ± 22.68 seconds) showed a significant difference at p

Morphological and functional studies revealed a complex system of primary sensory neurons which parallels the autonomic nervous system not only in its extent, but probably also in its

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significance.

Neuropeptides released from activated nociceptive afferent nerves play a pivotal role in inflammatory reactions and pain, significantly modulate cardiac, vascular, respiratory, gastrointestinal and immune functions and influence the protective, restorative and trophic functions of somatic and visceral tissues. Several chapters of the book deal with the

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therapeutic potential of
a new class of putative
pain relieving agents
acting through TRPV1,
the capsaicin/vanilloid
receptor, a specific ion
channel which transmits
pain. * Neurogenic
inflammation in
historical perspective *
Cardiac protection by
nociceptive afferents *
Molecular mechanisms of
nociception * Sensory
mechanisms in migraine
pathophysiology * Vagal
signalling of visceral
inflammation *
Neurogenic mechanisms in

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arthritis * Therapeutic

implications of

vanilloid-type compounds

This important volume

provides a comprehensive

overview of

hepatotoxicity and

medicinal plants used

for protecting the liver

and curing liver

toxicity and liver

diseases. To date, there

has been no extensive

resource on the plants

that are used in this

capacity, both in

traditional medicine and

in modern medicine. This

book, Handbook of

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Research on Herbal Liver
Protection:

Hepatoprotective Plants,
fills that gap. It

presents information on
the medicinal plants

used in traditional

medicine (both codified
and noncodified) and in

ethnomedicine, including
the plant parts used and

methods of use and

dosages. The

phytochemicals extracted
from medicinal plants,

screened and used in
modern medicine for

liver protection and

curing liver problems,

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are given in detail. The volume discusses the medicinal plants screened for hepatoprotection, and the methods of screening are given as well.

Methods of assay for screening the medicinal plants are also presented.

Unity in Diversity and the Standardisation of Clinical Pharmacy Services

Neuroprotective Effect of Basil Leaf Extract on Hippocampal Cell Line Exposed to Ethanol

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Effect of Beringin
Leaves (ficus Benjanina
and Ficus Elastica)
Ethanolic Extract
Against the
Proliferation of Liver
Cancer Cell Line (HepG2)
A Comprehensive Review
of Their Traditional
Medical Uses and
Scientific
Justifications

This book is written for researchers,
undergraduate students and
postgraduate students, physicians
and traditional medicine
practitioners who develop research
in the field of neurosciences,
phytochemistry and

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ethnopharmacology or can be useful for their practice. Topics discussed include the description of depression, its biochemical causes, the targets of antidepressant drugs, animal and cell models commonly used in the research of this pathology, medicinal plants and bioactive compounds with antidepressant activity used in traditional medicine, advances in nanotechnology for drug delivery to the brain and finally the future challenges for researchers studying this pathology.

Leishmania major infectious diseases of trouble for the people of the world. So to control the disease and its spread in other areas have done a lot of research, especially research on the synergistic effects

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to treatment plants. Leishmaniasis is one of the major problems in health systems. Due to the side effects of medications used to treat these diseases and people also tend to use herbal medicines. This study aimed to investigate the effect of ethanol extracts of three plants, yarrow, wormwood and walnut leaf extracts on *Leishmania major* and mixed three synergistic effects in vitro. In vitro study was done. Microbiology, Parasitology, Botanical medicines, The epidemiology of infectious diseases in the world and Iran.

The leaves of *Acanthopanax trifoliatum* (L) Merr have been used to treat several diseases such as tuberculosis and lung hemorrhage, and as a tonic to improve general weakness. This study was

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conducted to determine the effect of ethanolic extract of *Acanthopanax trifoliatum*. (L) Merr on both acute and chronic anti-inflammatory activity. The male Sprague-Dawley rats were randomly divided into five groups, with 6 animals per group for both acute and chronic inflammation. For inflammation study: (1) control group (5% ethanol); (2) group treated with 30 mg/kg of extract; (3) group treated with 100 mg/kg of extract; (4) group treated with 300 mg/kg of extract; (5) reference group 30mg/kg of piroxicam for acute inflammation and 10 mg/kg of indomethacin for chronic inflammation. For acute inflammation study, the rats were injected subcutaneously with 0.1 ml of 1% carrageenan onto the plantar

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surface of right hind paw and equal volume of distilled water was injected onto the plantar surface of the left hind paw after 30 minute force fed of ethanollic extra of *Acanthopanax trifolitus* (L) Merr leaves (EAT). The volume of both hind of each rat was measured using a plethysmometer at every half- hourly interval until the period of five hours after the injection of the carrageenan. For chronic inflammation study, the rats were injected intradermally with 0.1ml of Freund's Complete Adjuvant (FCA) onto the right hind paw. The rats were acclimatized for 14 days after the adjuvant injection. The treatment was started on day 14 until day 28. The volume of the paw was measured before induction, before treatment, and after

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treatment using plethysmometer. The percentage of swelling and inhibition for all group in both acute and chronic inflammation was calculated and compared. For acute inflammation, EAT gave significant anti-inflammatory effect at EAT 300 mg/kg and piroxicam 30 mg/kg as compared to control group and the percentage of inhibition for the treated group of 30, 100 and 300 mg/kg were 10.50%, 32.43% and 46.23% respectively. For chronic inflammation, EAT exhibited significant effect also at 300 mg/kg and indomethacin 10 mg/kg as compared to control group and the percentage of inhibition for treatment group of 30, 100, 300 mg/kg were 9.57%, 23.71% and 47.57% respectively. It can be concluded that EAT exhibited a

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dose dependent inhibitory effect towards oedema in both acute and chronic inflammation. These result has shown that EAT leaves have anti-inflammatory properties. Further studies should be done to obtain effective dose (ED50) and may increase the dosage for EAT leaves treatment. Toxicity study (LD50) also should be carried out in order to determine the health safety usage in high dose concentration.

Wound Healing

Effects of the Ethanolic Extract of Mitragyna Speciosa Leaves on Morphine Addiction in Mice and Rats

Bioactive Food as Dietary

Interventions for Diabetes

Effects of Synergistic Blend-Of Three Plant Extracts of Yarrow Wormwoo

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Proceedings of the 17th Asian
Conference on Clinical Pharmacy
(ACCP 2017), July 28-30, 2017,
Yogyakarta, Indonesia

Background: Diabetes mellitus is a metabolic disorder characterized by hyperglycemia with impaired metabolism of carbohydrate, proteins and fat due to defects in insulin secretion and/or insulin action. This may lead to complications such as atherosclerosis, retinopathy, nephropathy, neuropathy and cardiac dysfunction. In developing countries, herbal drugs are traditionally used for the treatment of diabetes mellitus as resources are limited and

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access to modern treatment is a problem. The use of herbal drugs are frequently considered to be less costly, less toxic and also free from side effects, than synthetic ones. Asystasia gangetica (A. gangetica) under the family Acanthaceae, has been employed basically by the traditional healers in the treatment of hypertension in South Africa, rheumatism in India, asthma in Cameroun and diabetes mellitus in Nigeria. Furthermore, it is also used as an anthelmintic in Kenya. However, there is no scientific proves associated with its dose-dependent for its use. Aims: In

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this study, the acute toxicity and dose-dependent hypoglycemic activity of Asystesia gangetica leaf extract were evaluated on albino mice and alloxan induced diabetic rats, respectively.

Methods: Acute toxicity study of the extract was carried out using thirty albino mice randomly assigned into six groups of five mice each, with each group having a particular dose level of the extract. The rats were observed for toxicity signs and mortality within a period of twenty four hours. For the acute hypoglycemic study, fifty rats randomly divided into five groups of ten rats each, were used. The

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first group of rats served as the normal control while groups two to five rats were made diabetic with a single intraperitoneal dose of alloxan monohydrate (160mg/kg). Group two served as the diabetic control, while groups three and four were administered 400 and 800mg/kg of the extract. However, group five was administered a standard hypoglycemic agent (glybenclamide, 3mg/kg). Blood glucose concentrations of the rats were determined every two hours for six hours. These were used to assess the acute hypoglycemic effect of the extract. Results:Results obtained

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for the acute toxicity study indicated no death, even at 5000mg/kg body weight and showed no signs of toxicity in all the groups. However, results obtained from the hypoglycemic study showed significant rise in the plasma glucose level in all the test groups administered with alloxan monohydrate after 4 days as compared to the normal control group (P

The book entitled Medicinal Plants and Natural Product Research describes various aspects of ethnopharmacological uses of medicinal plants; extraction, isolation, and identification of bioactive

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compounds from medicinal plants; various aspects of biological activity such as antioxidant, antimicrobial, anticancer, immunomodulatory activity, etc., as well as characterization of plant secondary metabolites as active substances from medicinal plants.

Bioactive Food as Dietary Interventions for Diabetes, Second Edition is a valuable scientific resource that explores the latest advances in bioactive food research and the potential benefits of bioactive food choice on diabetic conditions. Written by experts from around the world, it

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presents important information that can help improve the health of those at risk for diabetes and diabetes related conditions using food selection as its foundation. This important resource for those involved in the dietary and nutritional care of diabetic patients is also ideal for researchers seeking information on alternative bioactive food-based solutions. Serves as a starting point for in-depth discussions in academic settings that can lead to revised and updated treatment options for diabetes Offers detailed, well-documented reviews outlining the ability of bioactive foods to

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improve and treat diabetes and obesity Includes updated research on the global epidemic of diabetes Presents global perspectives and coverage of regional foods

Identification and Control of Common Weeds: Volume 3 Evaluation of Anti-nociceptive Effect of the Semi-purified Fractions of Ficus Deltoidea Extract

*Anti-ulcerogenic Effects of Cassia Angustifolia Leaves Extract on Ethanol Induced Gastric Damage in Rats
Gewerkschaftsbund*

Outlines and Pictures of Medicinal Plants from Nigeria

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Bachelor Thesis from the year 2015 in the subject Chemistry - Bio-chemistry, grade: 3.84, , course: Biochemistry, language: English, abstract: The present study was done to evaluate the acute (14 days) toxicity of the ethanolic leaf extract of Myrianthus arboreus on the liver enzymes of wistar rats. In the acute (14 days) toxicity studies, 24 rats were grouped into 1- 8 groups (n=3rats/cage) and administered with 1500, 1000 and 500 mg/kg body weight for 7 days and 14

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days. The rats were sacrificed after 7 days and 14 day of administration and blood samples and liver organ were collected for investigations. The biochemical parameters such as the Alkaline phosphatase (ALP), Alanine transaminase (ALT) and Aspartate aminotransferase (AST) were determined and the liver histology analysed. The mean values of ALP showed significant increase ($P \leq 0.05$), the ALT showed a non-significant increase ($P \geq 0.05$) at groups 2, 3 and 4 and a significant increase

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*($p \leq 0.05$) at groups 6, 7 and 8. The AST showed a non-significant increase ($P \geq 0.05$) at all dosages and times except for group 2. The histological analysis showed microvesicular steatosis at groups 2 and 3 and a ballooning hepatic necrosis at group 7. The phytochemical analysis of *Myrianthus arboreus* shows the presence of alkaloids, flavonoids, tannins, anthraquinones, triterpenoids, carbohydrate, cardenolide and saponins in detectable limits but fixed oils and cyanogenic*

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glycosides were not determined. In this investigation, we can conclude that the ethanolic leaf extract of Myrianthus arboreus was unsafe at all doses considered for a period of 14 days. However, at a dose below 500 mg for 7 days could be considered safe.

Unity in Diversity and the Standardisation of Clinical Pharmacy Services represents the proceedings of the 17th Asian Conference on Clinical Pharmacy (ACCP 2017), held 28—30 July 2017 in Yogyakarta, Indonesia.

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The primary aim of ACCP 2017 was to bring together experts from all fields of clinical pharmacy to facilitate the discussion and exchange of research ideas and results. The conference provided a forum for the dissemination of knowledge and exchange of experiences. As such, it brought together clinical pharmacy scholars, pharmacy practitioners, policy makers and stakeholders from all areas of pharmacy society and all regions of the world to share their research, knowledge,

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experiences, concepts, examples of good practice, and critical analysis with their international peers. This year also marks the celebration of 20 years of ACCP. Central themes of the conference and contributed papers were Clinical Pharmacy, Social and Administrative Pharmacy, Pharmacy Education, Pharmacoeconomics, Pharmacoepidemiology, Complementary and Alternative Medicine (CAM) and a number of related topics in the field of Pharmacy.

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Outstanding scientific advances over the last decades unceasingly reveal real complexity of wound-healing process, astonishing in its staged progression, as life is unfolding itself. This natural course of tissue repair seems to bear thousands of overlapping molecular and macroscopic processes that nowadays only start to unfold to our knowledge. The present volume collecting recent scientific references proposes to readers a two-folded audacious goal. First, an updated design of

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intimate cellular mechanisms is entailed in tissue regeneration that emanates from the first section of the book. Next, a multidisciplinary therapeutic perspective that focuses on macroscopic healing throughout the second part of this work adds clinically integrated observation. Practical diagnostic and treatment information is appended in each chapter that may equally help experienced clinicians or dedicated students and researchers in broadening essential breaking points of

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their work. It is the wish of all multidisciplinary experts who gather prominent author's panel of this volume to incorporate latest medical reports and compel limits of current understanding for better tissue regeneration, limb salvage, and improved quality of life of our patients.

Ng Chin Guan

Acute Toxicity and Hypoglycemic Effect of Ethanolic Extract of Asystesia Gangetica Leaf Handbook of 200 Medicinal Plants

Potential Pharmacological Effects of Ethanolic Extract

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Ethanolic Leaf Extract Of

Gongronema

of Annona Muricata L.

Leaves in Animal Models

Effect of Ethanolic Leaf

Extract of Moringa Oleifera

on Aluminum-Induced

Anemia in White Albino Rats

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Plants have been a source of medicines and have played crucial role for human health. Despite tremendous advances in the field of synthetic drugs and antibiotics, plants continue to play a vital role in modern as well as traditional medicine across the globe. In even today, one-third of the world's population depends on traditional medicine because of its safety features and ability to effectively cure diseases.

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This book presents a comprehensive guide to medicinal plants, their utility, diversity and conversation, as well as biotechnology. It is divided into four main sections, covering all aspects of research in medicinal plants: biodiversity and conservation; ethnobotany and ethnomedicine; bioactive compounds from plants and microbes; and biotechnology. All sections cover the latest advances. The book offers a valuable asset for researchers and graduate students of biotechnology, botany, microbiology and the pharmaceutical sciences. It is an equally important resource for doctors (especially those engaged in Ayurveda and allopathy); the pharmaceutical industry (for drug design and synthesis); and the agricultural sciences. *Mitragyna speciosa* Korth. (Rubiaceae) has been used for the treatments of

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pain, fever, cough, diarrhea, opioid-addiction in Thai traditional medicine for a long time and also for enhancing the labor work efficiency and tolerance under the hot sunshine atmosphere. Until now, there is no clear evidence of the rewarding effects of *M. speciosa* in animal models. The present study was aimed to determine the effects of the ethanollic extract of *M. speciosa* leaves (MS) on the locomotor activity, rewarding effect and morphine addiction in rodents. Three models including locomotor activity test, conditioned place preference test (CPP) and precipitated withdrawal with opioid antagonists were utilized in this study. The results showed that morphine (5 mg/kg i.p.) could induce significant CPP while all doses of MS (50, 100, 200 and 400 mg/kg p.o.) neither changed locomotor activity nor produced CPP.

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The morphine-induced CPP was suppressed by all doses of MS. In precipitated withdrawal models of acute and chronic MS treatments, all doses of MS did not show any significant withdrawal symptoms. In contrast, morphine exhibited significant withdrawal symptoms including jumping, straub tail, C-shaped tail, and wet dog shakes. Then the effects of pretreatment and post-treatment of MS on morphine withdrawal were evaluated. The results showed that both pretreatment and post-treatment with all doses of MS significantly attenuated jumping behavior precipitated by naloxone (p

The kidneys are a vital organ present in humans and vertebrate animals.

Various toxic chemicals, present in food and water adversely affect the kidneys. Plants and plant-derived compounds

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have been a major source for the treatment and cure of diseases since ancient times. Even today, almost 25% of the prescription drugs for renal problems are sourced from plants. An Introduction to Nephroprotective Plants gives an overview of nephrotoxicity and medicinal plants used for protecting the kidney and reducing the effect of kidney toxicity and managing renal diseases. This book is an answer to the current gaps in knowledge resources on nephroprotective plants. The reader is introduced to the basic physiology of the renal excretory system and its disorders. The introduction is followed by chapters which give information on medicinal plants used in traditional systems of medicine (both codified and noncodified). Information about plant parts used, method of use and dosage is provided along with references. Key

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Features- Simple structured presentation in six chapters- Includes an introduction to the urinary system and its diseases- Includes information about codified and noncodified medicinal plants used for neuroprotection- Covers phytochemicals extracted from medicinal plants which are screened and used in modern medicine for nephroprotection in detail.- Covers ethnobotanical and polyherbal formulations- References for further reading An Introduction to Nephroprotective Plants serves as a convenient desk reference for all researchers (pharmacologists, medicinal chemists, ethnobotanists) and healthcare professionals (physicians, pharmacists, nurses and medical students) who require complete information on nephroprotective plants.

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Audience: Researchers (pharmacologists, medicinal chemists, ethnobotanists) and healthcare professionals (physicians, pharmacists, nurses and medical students) who require complete information on nephroprotective plants, readers in traditional medicine.

Diabetes Food Plan

An Introduction to Nephroprotective Plants

Neurogenic Inflammation in Health and Disease

Anticoagulant effect of the ethanolic extract from the leaves of ficus pseudopalma blanco (Moraceae)

Anti-allergic Effects of the Ethanol Extract of Syzygium Formosum (Wall.)

Masam Leaves and Its Immunoregulatory Mechanisms