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BENZOTHIAZOLE - A MAGIC

CHEMICAL SYNTHESIS OF BILE ACIDS AND THEIR PHYSICO-**CHEMICAL PROPERTIES** 

AN OVERVIEW ON COVID-19 OUTBREAK: EPIDEMIC TO PANDEMIC

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#### Volume 13 (2022) - Issue 10, October

#### **REVIEW ARTICLES**

#### 1. VARIOUS HERBAL PLANTS ARE USED AS ANTICANCER AGENTS

Cancer is the world's second-largest cause of death. Although substantial progress has been made in treating and controlling cancer progression, there are still significant flaws and space for improvement. During chemotherapy, several unfavourable side effects might arise. Natural-derived substances are attracting scientific and academic attention since they are thought to have fewer hazardous sid...

Sangayi \* and R Senthamara

3807-3823

Department of Pharmaceutics. Perivar College of Pharmaceutical Sciences. Tiruchirappalli, Tamil Nadu, India.

DOI: 10.13040/IIPSR.0975-8232.13(10).3807-23

Abstract

HTML Full Text PDF

#### 2. A SYSTEMATIC REVIEW OF AN INVASIVE PLANT SPECIES: VERBESINA ENCELIOIDES (CAV.) BENTH. & HOOK, F. EX A. GRAY

An introduced, non-native, exotic, or alien species are those that grow in areas outside of their natural habitats. They get introduced deliberately or accidentally into new areas by anthropogenic activities or naturally through water, wind, etc. In non-native areas, these species invade rapidly due to the non-availability of natural enemies (prey) in a new habitat. Therefore, these fast-spreading...

Kuliinder Kaur \*. M. C. Sidhu and A. S. Ahluwalia

2024 2022

Department of Botany, Government College Hoshiarpur, Puniab, India.

OI: 10.13040/IIPSR.0975-8232.13(10).3824-32



#### 3. A WAY OF COMBATING ANTIMICROBIAL RESISTANCE THROUGH QUORUM SENSING

Quorum sensing is a peculiar mechanism of microbial communication through the induction of various signalling autoinducer molecules having several gene expression regulatory activities of different virulence factors that control microbial. This enables a systematic path of inhibiting microbial growth and its infection production efficacy by indirectly regulating the Quorum sensing activity of the ...

Shabnam Thakur \*, Rupali Sharma and Rakesh Yadav

3833-3840

Amity Institute of Pharmacy, Amity University Haryana, Manesar, Gurgaon, Haryana, India

DOI: 10.13040/IJPSR.0975-8232.13(10).3833-40



#### 4. EFFECT OF PARATHYROID HORMONE LEVELS ON PERIODONTAL STATUS IN PREGNANT WOMEN: A REVIEW

Periodontitis is a multifactorial disease. It has several associations with hormonal fluctuations; the body undergoes several physiological hormonal mechanisms. In several physiological conditions, hormonal fluctuations have been observed. One such condition is pregnancy. Several hormones are at play during pregnancy; one such hormone is PTH. Parathyroid hormone is essential to increase the matern...

Aditi Chaturvedi, Vidushi Sheokand \*, Amit Bhardwaj, Anurag Bhatnagar, Alisha Chugh, Megha Tomar and

3841-384

Kevin Raj

Department of Periodontology, SGT Dental College and Research Centre, Gurugram, Harvana, India

. DOI: 10.13040/IIPSR 0975-8232 13(10) 3841-44



#### 5. A REVIEW ON PREPARATION & METHODS OF CURCUMIN NANOPARTICLES AND ITS APPLICATION

Curcumin is a highly potent, nontoxic, bioactive agent found in turmeric and has been known for centuries as a household remedy to many ailments. The main active ingredient of turmeric is curcumin, a polyphenol that helps prevent and control neurological, respiratory, cardiovascular, metabolic, inflammatory and autoimmune diseases and some cancers. The major drawbacks of curcumin are low absorptio...

ijaya Lakshmi Jampala \*, Swarupa Arvapalli (

3845-3856

oginpally B. R. Pharmacy College, Moinabad, Hyderabad, Telangana, India

DOI: 10.13040/IIPSR.0975-8232.13(10).3845-56



**RESEARCH ARTICLES** 

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#### 12. ANTIAPOPTOTIC MECHANISM FOR THE IMPLEMENTATION OF THE HEPATOPROTECTIVE EFFECT OF PYRIMIDINE DERIVATIVES

The present study aimed to study the effect of the drug Xymedon and its conjugate with L-ascorbic acid exhibiting hepatoprotective activity on the apoptosis of rat liver cells against the background of the influence of hepatotoxic agent tetrachloromethane. Though the general effects of Xymedon and its conjugates with various biogenic acids have been studied, the molecular markers affected by the c...

v. A. Parfenov J. A. B. Vyshtakalyuk \* J. V. Galvametdinova, V. E. Semenov and V. V. Zobov

3922-3931

stitute of Fundamental Medicine and Biology of Kazan Federal University, 5 Tovarisheskaya Str., Kazan,

Russia.

I: 10.13040/IIPSR.0975-8232.13(10).39231



# 13. EFFECT OF AQUEOUS EXTRACT OF CRYPTOLEPIS SANGUINOLENTA ADMINISTRATION ON THE METABOLISM OF CHLOROQUINE VIA CYTOCHROME P450 ISOZYMES

Concurrent administration of herbal medicines and conventional drugs is a common practice globally, especially as the patronage of medicinal plants increases across the world. This study aimed to determine the effect of Cryptolepis sanguinolenta administration on the metabolism of chloroquine by evaluating specific Cytochrome P450 isozymes. Reconstituted freeze dried Cryptolepis sanguinolenta was ...

M M Sakviamah

303273030

Phytochemistry Department, Centre for Plant Medicine Research (CPMR), P.O. Box 73, Mampong-Akuapem,

E/R Ghana

DOI: 10.13040/IIPSR.0975-8232.13(10).3932-39



#### 14. INVESTIGATING AND SEQUENCING OF THIOL-SPECIFIC ANTIOXIDANT GENE IN A SYRIAN STRAIN OF LEISHMANIA TROPICA

Cutaneous leishmania is a common medical problem in Syria, which has become yet more widespread in most of the Syrian governorates after the current war. An effective vaccine is needed to prevent a large scale spread of leishmaniasis in the country. In this regard, protein vaccination has shown promising prospects of creating this much-needed vaccine. Thiol Specific Antioxident (TSA) plays a funda...

Hassan Al-Khouri \* and Shaden Haddad

3940-394

Pepartment of Biochemestry and Microbiology, Damascus University, Damascus Syria.

DOI: 10.13040/IJPSR.0975-8232.13(10).3940-43



# 15. NEUROTHERAPEUTIC EFFECT OF BERGENIN ON CUPRIZONE-INDUCED DEMYELINATION BY REGULATING NEUROLOGICAL FUNCTIONS ASSOCIATED WITH MOTOR ACTIVITY, OXIDATIVE STRESS, AND HISTOLOGICAL ALTERATIONS IN THE CORPUS CALLOSUM OF C57BL/6 MICE

Multiple sclerosis (MS) is a chronic demyelinating disease of the central nervous system characterized by Neuroinflammation, oligodendrocyte loss, and axonal pathology. Bergenin, a chief phytochemical constituent of Bergenia species, has been shown to exert anti-inflammatory and antioxidant effects. The cuprizone (CPZ) model is an established mouse model of MS and causes demyelination and induces ...

ikila Murugan and Sumathi Thangarajan  $^\circ$ 

3944-3952

repartment of Medical Biochemistry, Dr. A. L. M Post Graduate Institute of Basic Medical Sciences, University of

Madras, Taramani, Chennai, Tamil Nadu, India

OI: 10.13040/IJPSR.0975-8232.13(10).3944-52



## 16. A TRAILBLAZING ENDEAVOUR TO EXPLORE THE ROLE OF TULASI PUSHPA AS SANDHANA DRAVYA (FERMENTING AGENT) IN SANDHANA KALPANA

Sandhāna kalpanā (Fermentation process) is a unique procedure implemented in Ayurveda for the preparation of fermented alcoholic and acidic medicinal formulations. Sandhāna dravyās (fermenting agents) act as fermentation initiators in them. The commonly used Sandhāna dravyās are Dhātakipuṣpā (flowers of Woodfordia fruticosa), madhūkapuṣpā (flowers of Madhuka indica) and yeast. Almost...

Aansu Susan Varghese \*, N. K. Sangeetha Nandakumar, Abhayakumar Mishra, Arun Mohanan, P. K. Vineeth

Department of Rasashastra and Bhaishajya Kalpana (Medicinal Chemistry and Pharmacy), Amrita School oi

Ayurveda, Amritapuri, Amrita Vishwa Vidyapeetham, Kerala, India.

Ol: 10.13040/IJPSR.0975-8232.13(10).3953-59



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4. AN OVERVIEW OF THERAPEUTIC POTENTIAL OF THYMOQUINONE 2662 1141 3 Herbal medication has attracted much attention in recent years and is being used as an alternative to chemical medicines. Some evidence supports the positive effects of medicinal plants in the prevention and treatment of different types of diseases. Thymoquinone (TQ) is the most abundant component of Nigella sativa seeds, and most of the properties of Nigella sativa are attributed primarily to TQ.... 5. A REVIEW OF PHARMACOLOGICAL ACTIVITY OF MARINE ALGAE IN INDIAN COAST 2858 1285 6 Indian coastline stretches about 5700 km covering 9 states on the mainland and about 7500 km including islands and union territories. Seaweeds, a renewable natural resource, found growing in large quantities along the Indian coast. Seaweeds are currently worldwide interest in finding new and safe promising organisms for health. It is one of the important essential producers of biomass in the marin... 6. GREEN SYNTHESIS: A NOVEL APPROACH FOR NANOPARTICLES SYNTHESIS 2619 972 0 There are different types of conventional approaches are used for the synthesis of nanoparticles like physical and chemical techniques. But above approaches used for nanoparticles synthesis is not ecofriendly due to the production of toxic compounds during nanoparticles formation. Therefore, interest in the green synthesis of nanoparticles has been increased. The green synthesis of nanoparticles ... 7- POLYELECTROLYTE COMPLEXATION AND IONOTROPIC GELLATION: THE POTENTIAL NOVEL APPROACH TO 1954 674 2 DESIGN HYDROGEL PARTICULATE FOR SUSTAINED, MODULATED DRUG DELIVERY SYSTEM: A REVIEW The interest in using natural and chemically modified polysaccharides as a part of drug development has increased in the past two decades. For potential carriers in controlled, modulated drug delivery, great interest has also been focused on biopolymer-based hydrogels. Due to their advantages like biocompatibility, biodegradability, and low cost, biopolymers have been widely used in the developmen... 8. NEBULIZED DRUG DELIVERY: AN OVERVIEW 5770 970 0 Inhaled Pharmacological therapy is key to treatments for patients with asthma and COPD. People who suffered from COPD died every year in low- and middle-income countries. The primary reason for COPD is

tobacco smoking or second-hand smoke. Another risk factor is air pollution, dust, and fumes. Current

guidelines endorsed inhaled pharmacology therapy as the favorable route of administration for tre... 9. COSTUS IGNEUS - A THERAPEUTIC ANTI-DIABETIC HERB WITH ACTIVE PHYTOCONSTITUTENTS 13438 1811 5 Objective: Diabetes mellitus is an interminable metabolic disorder that has highly affected human health and quality of life. Conventional agents are being applied to control this disorder along with lifestyle management. But they are not totally effective and nobody has ever been diagnosed with full recovery of diabetes. Medicinal plants have been used for greater extent for control of diabetes m... 10. PHARMACOLOGICAL SIGNIFICANCE OF MEDICINAL HERB ECLIPTA ALBA L. – A REVIEW 6313 1179 13 Though conventional medicines are slow in action, they represent safety in contrast to the synthetics that are regarded as somewhat unsafe to human and environment. The uses of many traditional herbs in the treatment of many diseases, which are usually free from side effects, are economical and also easily accessible to humans. Plants have formed the basis of sophisticated traditional medicine sys... 11. IMMEDIATE RELEASE TABLETS: A REVIEW 27994 3880 14 The scenario of pharmaceutical drug delivery are expeditiously challenging, but conventional pharmaceutical dosage forms are still dominating. Immediate release dosage forms are those wherein ≥85% of labeled amount dissolves within 30 min. Superdisintegrants are used to improve the efficacy of solid dosage forms. The basic approach used in the formulation of the tablet is the use of superdisinte... 12. POTENTIAL HERBS AGAINST DIABETES MELLITUS – AN UPDATE 2162 953 4 Diabetes or Madhumeha as per Ayurveda is a disease in which there is improper functioning of insulin and as a result, the sugar level in the blood increases. Diabetes may cause heart problem, kidney failure, blurred vision if not treated timely with proper medication. Medicinal plants have been used since ancient times for the treatment and management of diabetic mellitus (DM) in traditional medi... 13. FLAVONOIDS AS COMPLEMENTARY AND ALTERNATIVE TREATMENT OPTIONS FOR DIABETES MELLITUS 1626 691 0 Diabetes is a metabolic disorder, which is characterized by insulin deficiency, insulin resistance, and aberrant metabolism in glucose, protein, and lipid. The primary causes of diabetes are Genetic and

5405

4505

1786

1108

839

662

4

1

environmental factors. Diabetes is a chronic progressive disease that leads to both microvascular and macrovascular complications. This disease affects around 5% of the world population now. But, r...

S. Jain \* and G. Joshi

Ambe Durga Education Society's Dadasaheb Balpande College of Pharma

(DBCOP), Near Swami Samarth Mandir, Besa, Nagpur, Maharashtra, India.

DOI: 10.13040/IJPSR.0975-8232,10(8).3627-34

Abstract HTML Full Text PDF Citation

#### 14. A SURVEY ON ANTICANCER PROPERTIES OF INDIAN MEDICINAL PLANTS - A BROAD SPECTRUM ANALYSIS

Several plants across the world possess specific therapeutic and diagnostic properties. The identification of the properties among them is the most difficult task. Several researchers have used several methodologies to express the therapeutic properties in the plants. The interest of scientists among the anticancer studies has been increasing widely as cancer has become one of the deadliest diseas...

K. Saranya, V. Manivasagan, R. Kanakadurga, V. P. M. Babu \* and N. G. R.

Babu

Department of Biotechnology, Adhiyamaan College of Engineering

(Autonomous), Hosur, Tamil Nadu, India.

DOI: 10.13040/IJPSR.0975-8232.10(8).3635-40



#### 15. RELEVANCE OF GREEN CHEMISTRY 12 PRINCIPLES IN ORGANIC SYNTHESIS

Green chemistry or sustainable chemistry focuses on designing products and processes that minimize the generation or use of hazardous substances. Green chemistry, though not a new area, has recently gained much importance because of increasing environmental concerns. Industries now focus on adopting processes which are mainly non- hazardous, easier to undertake, lesser energy and time consuming, ...

v. Kulshrestha and J. Pandey \*

Department of Chemistry, Amity University Uttar Pradesh, Lucknow

Campus, Lucknow, Uttar Pradesh, India.

DOI: 10.13040/IJPSR.0975-8232.10(8).3641-47



#### 16. EXPERIMENTAL MODELS TO STUDY TUMOUR ANGIOGENESIS - IN-VITRO, EX-VIVO AND IN-VIVO APPROACH

Angiogenesis is the formation of new blood vessels from preexisting vasculature. It is a key process in some physiological conditions such as wound healing, growth and reproduction. Any disturbance in mechanisms of angiogenesis plays a key role in the pathogenesis of some diseases through the over-proliferation of blood vessels such as cancers, psoriasis, arthritis, retinopathies, obesity, asthma,...

í. A. Janani, T. K. Praveen and A. Wadhwani \*

separament of marmaceadeal biotechnology, 355 Academy of Figure 1

Education & Research - JSS College of Pharmacy, Ooty, Tamil Nadu, India

DOI: 10.13040/IJPSR.0975-8232.10(8).3648-59



#### RESEARCH ARTICLES

Title

Views PDF Cited

17. CHEMICAL COMPOSITION AND ANTIBACTERIAL ACTIVITY OF MEDICINALLY USEFUL ESSENTIAL OIL FROM 2966 1022 4

THE INFLORESCENCE OF EUPHORBIA HELIOSCOPIA L. GROWN IN EGYPT

The genus Euphorbia has about 2000 members making it one of the largest ones among the flowering plants. Euphorbia helioscopia L. As the chemical composition of the essential oil from Euphorbia helioscopia developed in Egypt has not yet been explored, along these lines the present to extricate the essential oil and investigate the oil chemical composition and antimicrobial activity. Essential oil ...

A. M. Beltagy

Department of Pharmacognosy, Faculty of Pharmacy, Damanhour

University, Damanhour, Egypt.

DOI: 10.13040/IJPSR.0975-8232.10(8).3660-67			
Abstrac HTML Full Text PDF Citation			
8. LESS TOXIC NANOPARTICLES OF PLATINUM BASED ANTI-CANCER DRUG	1963	942	0
Objectives: The objective of this research was dose reduction and toxicity reduction. Dose reduction: various anti-cancer drugs are very costly, and their high dose increases cost. If bioavailability is enhanced, the dose shall be reduced thereby; the cost will also decrease. Dose reduction will also reduce toxicity, and the preparation will become more tolerable. Method: In this study, the nanopa			
Abstrac HTML Full Text PDF Titation			
<sup>9.</sup> THE INFLUENCE OF ETHANOL EXTRACTS OF RAMBUTAN LEAVES (NEPHELIUM LAPPACEUM L.) AGAINST OBESITY AND INSULIN RESISTANCE IN RATS	2674	974	1
Ethanol extracts of rambutan leaves have been investigated for their anti-diabetes properties using the glucose tolerance method as well as insulin deficiency through alloxan induction. This study aimed to further evaluate these properties in obese and insulin resistant animals. The rat models were feeding with foods high in carbohydrates, fats, and propylthiouracil. The animal models were divided			
Abstract HTML Full Text 2DF Citation			
Abstract HTML Full Tex PDF Citation			
PHYTOCHEMICAL SCREENING AND ANTINOCICEPTIVE ACTIVITY OF MIMOSA DIPLOTRICHA LEAVES  Though possessing a lot of ethnopharmacological use, Mimosa diplotricha did not explore thoroughly for its bioactivity & the phytoconstituents responsible for its bioactivity. The purpose of the current work was to conduct phytochemical screening and antinociceptive activity of methanolic extract and its different	2419	927	2.
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various pharmaceutical compounds. However, the taxonomy of the genus Rubus has been in a state of flux,

Abstract HTML Full Text PDF Citation			
· IMMUNOMODULATING, ANTI-BACTERIAL AND ANTI-CANCER POTENTIAL OF ZA'ATAR (THYMUS VULGARIS)	2535	758	2
AND ITS COMBINATION WITH ESSENTIAL OIL (OLIVE AND BALSAM OIL)			
Introduction: Thymus vulgaris (za'atar) is one of the most famous and traditional spices of Arab countries.  Extracts of Thymus vulgaris (zatar) found to be useful as traditional medicine. The current studies are			
aiming to further explore the phytoconstituents of Thymus vulgaris and its biological activity. Methodology:			
The present study investigated the phytochemical constituent of za'atar and			
Abstrac HTML Full Tex PDF Citation			
· IN-VITRO TRANSPORT EVALUATION OF GARCINIA MANGOSTANA L. PERICARP EXTRACT LOADED CREAM	1461	566	3
AND GEL	1401	200	3
Garcinia mangostana L. pericarp (GMP) has been known as a traditional medicine in Asian countries. The			
bioactive from GMP has been recognized to be related to complex phenolic compounds linked with free			
radical scavenging activity. This research aimed to study the effects of topical formulation types (gel, oil in water cream and water in oil cream) of GMP extract on the in-vitro release and in-vit			
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DESIGN, SYNTHESIS AND COMPARATIVE PHARMACOLOGICAL ASSESSMENT OF NOVEL FLUOROQUINOLONE DERIVATIVES	1148	612	<u>0</u>
· DESIGN, SYNTHESIS AND COMPARATIVE PHARMACOLOGICAL ASSESSMENT OF NOVEL FLUOROQUINOLONE	1148	612	<u>0</u>
DESIGN, SYNTHESIS AND COMPARATIVE PHARMACOLOGICAL ASSESSMENT OF NOVEL FLUOROQUINOLONE DERIVATIVES  One of the proposed groupings of the fluoroquinolones describes the excellent broad-spectrum activity forms an invaluable part of the present anti-infective armory of the clinicians. The fluoroquinolones are	1148	612	<u>0</u>
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M. S. Mogili and V. Muvva *  Department of Botany and Microbiology, Acharya Nagarjuna University,  Guntur, Andhra Pradesh, India.
Abstrac HTML Full Text PDF Citation
5. COMPATIBILITY STUDIES BETWEEN PACLITAXEL AND EXCIPIENTS IN THE PREFORMULATION PHASE OF 1694 721 0
NANOCRYSTAL FORMULATION
Paclitaxel is one of the best anti-cancer drugs and recently known as the best anti-cancer products of
natural origin. The purpose of the present work was to study the physicochemical properties and
compatibility of paclitaxel with the selected surfactants employed in nanocrystal formulations. The melting
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## 36. SURFACE MODIFICATION AND NON-COVALENT FUNCTIONALIZATION OF SINGLE-WALLED CARBON 1674 742 2 NANOTUBES AND THEIR CHARACTERIZATION Single-walled carbon nanotubes (SWNTs) though emerged as a promising material for delivery of biomolecules into various cells, due to their high cytotoxicity, they are limited in use in many biological systems and also in humans. The present research explores the preparation of functionalized SWNTs of low cytotoxicity and biocompatibility by altering the size and surface functionalization. Noncova... 37. ANTIBACTERIAL ACTIVITY OF NIGELLA SATIVA EXTRACTS AGAINST EXTENDED SPECTRUM B-LACTAMASE 3678 507 0 PRODUCING ESCHERICHIA COLI ISOLATES The most striking feature of natural products in connection to their long-lasting importance in drug discovery is their structural diversity that is still largely untapped. Most natural products are not only sterically more complex than synthetic compounds but also differ in regards to the statistical distribution of functionalities. The chemical diversity and unique biological activities of a wid... 38. DERIVATIVE SPECTROPHOTOMETRIC METHOD FOR SIMULTANEOUS ESTIMATION OF VINBLASTINE SULFATE 583 0 AND MOXIFLOXACIN HYDROCHLORIDE Objective: To develop a simple, accurate and precise method for the simultaneous estimation of Moxifloxacin hydrochloride (MOX) and Vinblastine sulfate (VIN). Methods: The normal spectrum of VIN and MOX were converted to its second derivative spectrum and the amplitude minima of VIN and MOX were measured at 214 nm and 297 nm, respectively. MOX and VIN solution were simultaneously determined in 0.1... 39. ANTIOXIDANT POTENTIAL, TOTAL PHENOLIC AND FLAVONOID CONTENT OF ROOTS OF SEVEN ASPARAGUS 1425 532 3 SPECIES FROM NORTH-WEST INDIA The aim of current study was to compare the total phenolic content (TPC), total flavonoid content (TFC) and antioxidant activity of roots of seven Asparagus species from North-West India. Total phenolic content measured by Folin-Ciocalteu method ranged from 3.85 $\pm$ 0.25 (A. racemosus) to 7.74 $\pm$ 0.03 (A. falcatus), $3.42 \pm 0.14$ (A. racemosus) to $7.22 \pm 0.12$ (A. falcatus) and $1.12 \pm 0.13$ (A. offi... 40. INFLUENCE OF PIOGLITAZONE ON IMMUNOMODULATORY ACTIVITY OF AZATHIOPRINE IN RODENT 1141 450 0 **MODELS** The present study was designed to investigate the antioxidant and immunomodulatory activity of

than ...

Azathioprine-Pioglitazone combination therapy to check whether it has added on benefit over

monotherapy with Azathioprine or Pioglitazone in rodent models. The test drugs in combination showed better inhibition of free radicals in both H2O2 radical scavenging assay and nitric oxide scavenging assay

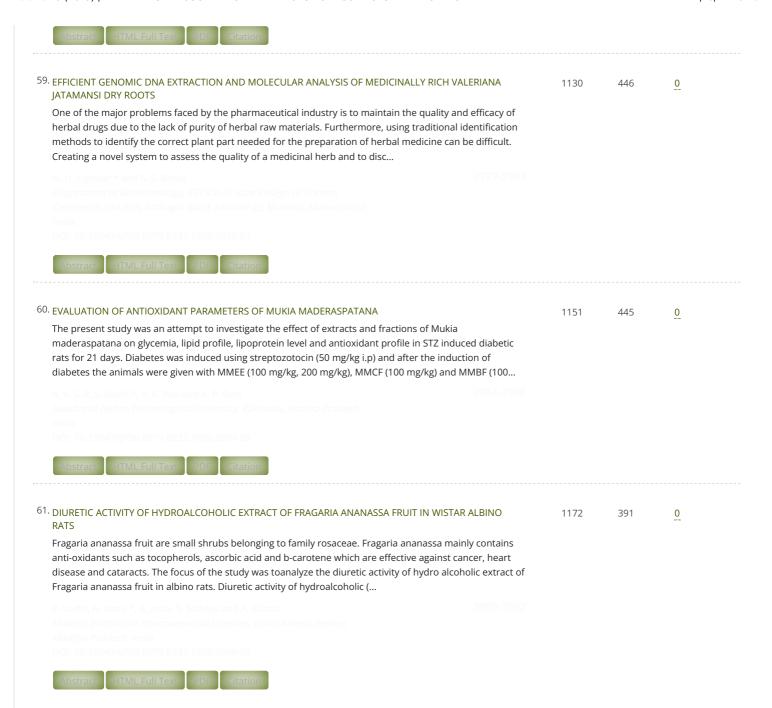
Abstract HTML Full Text PDF Citation			
1. SYNTHESIS AND SCREENING N-(2, 4'-DIOXO-1, 2-DIHYDRO-3'H-SPIRO [INDOLE-3, 2'-[1,3]THIAZOLIDIN]-3'-	2849	489	0
YL)-2-HYDROXYBENZAMIDES FOR ANTI-BACTERIAL ACTIVITY			••
A novel synthesis of N-(2, 4'-dioxo-1, 2-dihydro-3'H-spiro [indole-3, 2'-[1, 3] thiazolidin]-3'-yl)-2 -			
hydroxybenzamide derivatives were synthesized by cyclization of isatin hydrazones with thioglycolic acid.			
The synthesized compounds were characterized by spectral data (IR, 1H-NMR, Mass) and evaluated for			
antibacterial activity against various strains of bacteria at the concentrations of 200 µg/			
Abstract HTML Full Text PDF Citation			
2. IN-VITRO ANTIDIABETIC ACTIVITY OF 2-(3,4-DIHYDROXYPHENYL)-3,5,7-TRIHYDROXY-4H-CHROMEN-4-ONE	1555	732	0
ISOLATED FROM THE METHANOLIC EXTRACT OF ANDROGRAPHIS ECHIOIDES LEAVES			
In the present study the 2-(3,4-dihydroxyphenyl)-3,5,7-trihydroxy-4H-chromen-4-one isolated from the			
methanolic extract of leaves of Andrographis echioides was studied for alpha-amylase and alpha-			
glucosidase inhibition using an in-vitro model. The isolation was done using column chromatography using			
gradient elution with different mobile phase. Structural elucidation was carried out on the basis			
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<u></u>			
3. QUALITY CONTROL, CHEMICAL COMPOSITION AND ANTIOXIDANT ACTIVITY OF SOME MARKETED	3018	771	3
PEPPERMINT OIL SAMPLES			
This work aimed to evaluate the quality of some commercial peppermint oil products available in the			
Egyptian market. Also, analysis of peppermint oil extracted from Mentha piperita L. leaves marketed in			
Egypt. Thus, quality control of both herb extracted and purchased oil products. Essential oils were analyzed	d		
using GC/MS, and the main ingredients of each peppermint oil sample were quantified. The			
Abstract HTML Full Text PDF Citation			
AUSURCE MINICIPAL ADVINITION NO.			
FORMULATION AND IN-VITRO EVALUATION OF MUCOADHESION AND FLOATING MICROSPHERES OF	4540	6.40	0
ETODOLAC USING IONIC GELATION METHOD	1540	648	0
The purpose of this study is to formulation and evaluation of floating and mucoadhesion microspheres of			
etodolac using ionic gelation method. The floating and mucoadhesion microspheres were studied for			
micromeritic properties were found to be within limits. The percentage yield of floating microsphere			
formulation F1 to F6 and mucoadhesive microspheres M1 to M3 were in the range of 77.14 $\pm$ 0.64 to			
Abstrac HTML Full Tex 2DE Sitation			
Abstract HTML Full Text PDF Sitation			

### 45. PHYSICOCHEMICAL CHARACTERIZATION OF 99mTECHNITIUM - LUTEOLIN AS RADIOPHARMACEUTICAL 1599 469 0 PREPARATION FOR ANTIOXIDANT COMPOUND The objective of this study was to formulate luteolin with radioisotope Technetium-99m (99mTc) to be 99mTc-Luteolin as an antioxidant compound. After optimization, this radiopharmaceutical preparation should be examined for its physicochemical characteristics, such as radiochemical purity, stability, lipophilicity, protein plasma binding, electronic charge, and stability test. The formulation was ... 46. FORMULATION AND EVALUATION OF MOXIFLOXACIN MICROSPHERES IMPLANT FOR INTRA-PERIODONTAL 1492 588 0 **POCKETS** Periodontal disease is one of the most prevalent oral diseases is caused by the gram-negative bacterial infection of periodontal pocket identified by inflammation of subgingival plaque and degeneration of alveolar bones, teeth, dental cementum, and periodontal ligaments. 80% of American adult and more than 50% of the Indian community suffers from this chronic inflammatory infection depicting the s... 47. PROTECTIVE ROLE OF HONEY AND ROYAL JELLY ON CISPLATIN INDUCED OXIDATIVE STRESS IN LIVER OF 1370 515 2 Background: Cisplatin is active cytotoxic agents in the treatment of cancer and has many adverse side effects, including hepatotoxicity. Honey and royal jelly are natural products and having antioxidants properties. Aim of the study: To investigate the protective role of combined administration of honey and royal jelly against cisplatin-induced changes in biomarkers of oxidative stress in rat live... 48. FLAVONOIDS OF BOERHAVIA DIFFUSA - GC-MS ANALYSIS AND INHIBITORY ACTIVITY AGAINST PATHOGENIC 1739 700 2 **MICROBES** Boerhavia diffusa is a species of flowering plant in the four o'clock family, Boerhavia belongs to family Nyctaginaceae the plant holds the tremendous potential of medicinal value and has been traditionally used in various ailments like syphilis, leukoderma, blood disorders to name a few. The present study focuses on the GC-MS analysis of extracts of all the plant parts of B. diffusa which reveal... 49. EFFECT OF CO-ADMINISTRATION OF QUERCETIN ON GOAT INTESTINAL PERMEABILITY OF BERBERINE 1677 543 0 **CHLORIDE** The purpose of the present study was to explore the effect of co-administration of bioenhancer quercetin on membrane permeability of poorly permeable berberine chloride, on goat intestinal membrane model. The effect of co-administration of quercetin was investigated at 2, 6, and 10 mg concentrations. The study revealed a beneficial effect of low concentration of quercetin on % cumulative drug rele...

50. DESIGN AND IN-VITRO EVALUATION OF ANTI-AMOEBIC TABLETS ON COLON DRUG DELIVERY SYSTEM 1625 585 0 The present study aims to formulate colon targeted drug delivery of Metronidazole compression coated tablets by using different ratios of chitosan and pectin. Carbopol 934P coating is given for compression coated tablets which makes them able to release the drug at the pH of the colonic fluid. Core tablets of Metronidazole (400 mg) were prepared by using swellable and pH dependent polymers like ch... 51. A VALIDATED ANALYTICAL METHOD FOR QUANTIFICATION OF CRISABOROLE IN MATRICES BY UPLC-ESI-3251 795 0 MS/MS The validated analytical method was applied for the estimation of Crisaborole in aqueous and human plasma with Crisaborole-D4 as an internal standard by using UPLC-ESI-MS/MS. The chromatographic separation was achieved with 10mM ammonium acetate buffer solution (pH- 4.5): Methanol, (10:90) (% v/v) using the Xterra C18, 100  $\times$  4.6, 5 $\mu$ . The total analysis time was 2 min, and the flow rate was set t... 52. EXPLORING THE POTENTIAL EFFECTS OF AMARANTHUS TRICOLOR LEAVES IN DYSLIPIDEMIA AND 1227 502 0 DYSLIPIDEMIA INDUCED COMPLICATIONS IN RATS The present research work was considered to achieve preliminary phytochemical screening, acute oral toxicity, antioxidant activity, and to evaluate the antihyperlipidemic property of the aqueous and ethanolic extracts of leaves of Amaranthus tricolor. Antioxidant activities of the aqueous and ethanolic extracts of leaves of Amaranthus tricolor were investigated by Free Radical Scavenging Activity ... 53. EVALUATION OF ANTI-ULCER ACTIVITY OF ETHANOLIC EXTRACT OF OECOPHYLLA SMARADINA IN ALBINO 1182 455 0 **RATS** Objective: Oecophylla smaradina (Formicidae) is an ant evaluated for its variety of medicinal uses. The objective of this study to evaluate the anti-ulcer activity using albino rats. Methods: The albino rats of either sex were divided into four groups. Ethanolic extract of Oecophylla smaradina (EEOS) was tested in the dose of 200 and 400 mg/kg p.o. respectively against by pylorus ligation induced ... 54. PHYTOCHEMICAL SCREENING, ANTIOXIDANT AND ANTIDIABETIC EVALUATION OF LEAF EXTRACTS FROM 2576 701 0 DIOSPYROS BLANCOI A. DC. The objective of the study was to determine the phytochemicals present in the leaf extracts of Diospyros

blancoi A. DC and to evaluate its antioxidant and antidiabetic activities. Qualitative phytochemical tests

were used to detect the presence of bioactive compounds present in leaf extracts of D. blancoi. Antioxidant activity was measured through diphenyl-1-picrylhydrazyl assay, and antidiabetic ... 55. PRELIMINARY PHYTOCHEMICAL INVESTIGATIONS AND ANTIEPILEPTIC ACTIVITY OF TREMA ORIENTALIS 1449 692 3 (LINN.) EXTRACTS Objective: The antiepileptic potential of the petroleum ether (PETO) and methanolic extracts (METO) of the whole plant (roots, leaves, stem, and bark) of Trema orientalis (family: Ulmaceae) was evaluated using different experimental models of epilepsy in rats and mice. Materials and Methods: The anti-epileptic activity of the PETO and METO was evaluated using Picrotoxin, Isoniazid, and NMDA induce... 56. A NOVEL RP- HPLC METHOD FOR THE QUANTIFICATION OF CABOZANTINIB IN ACTIVE PHARMACEUTICAL 2007 731 3 INGREDIENTS AND PHARMACEUTICAL DOSAGE FORMS A simple, specific, accurate reversed-phase high performance liquid chromatographic method was developed for the quantification of Cabozantinib. Although extensive studies on Cabozantinib have been developed for determining Cabozantinib in human place and urine by LC-MS, studies on the pharmaceutically active ingredient and formulation are scarce. The effective separation was achieved through BDS ... 57. IN-VIVO PLATELET ANTI-AGGREGATION ACTIVITY OF CRUDE FUCOIDAN OF SARGASSUM POLYCYSTUM 1437 572 0 Platelet or thrombosis is one of the most important factors in blood clots formation. However, activation of platelet aggregation plays a significant role in homeostasis process, but in excess, it causes different cardiovascular diseases such as myocardial infarction, atherothrombosis disease, and coronary artery disease. To reduce the occurrence of these diseases, anti-platelet agents can be used...  $^{58}\!.$  Molecular detection of  $\beta\text{-Lactamase}$  gene [SHV] in Klebsiella Pneumoniae 3799 476 Klebsiella pneumoniae is a significant pathogen for nosocomial infections and quickly becomes the most prevalent beta-lactamases produced that are resistant to several antimicrobials. To comprehend deeper the condition of multidrug resistance [MDR]. Objectives: Our research was directed at identifying Klebsiella pneumoniae isolates containing shv  $\beta$ -lactamase gene and the relationship between them...



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# INTERNATIONAL JOURNAL PHARMACEUTICAL SCIENCES AND RESEARCH



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# THE INFLUENCE OF ETHANOL EXTRACTS OF RAMBUTAN LEAVES (NEPHELIUM LAPPACEUM L.) AGAINST OBESITY AND INSULIN RESISTANCE IN RATS

Elis Susilawati \*, Ika K. Sukmawati, Noranisa, Nur Sri Hayati and Widhya Aligita

Department of Pharmacology, Bandung School of Pharmacy, Bandung, West Java 40614, Indonesia.

#### **Keywords:**

Obesity, Insulin resistance, Nephelium lappaceum L.

#### Correspondence to Author: Elis Susilawati

Department of Pharmacology, Bandung School of Pharmacy, Bandung, West Java 40614, Indonesia.

E-mail: elis.susilawati@stfb.ac.id

ABSTRACT: Ethanol extracts of rambutan leaves have been investigated for their anti-diabetes properties using the glucose tolerance method as well as insulin deficiency through alloxan induction. This study aimed to further evaluate these properties in obese and insulin resistant animals. The rat models were feeding with foods high in carbohydrates, fats, and propylthiouracil. The animal models were divided into seven groups: normal group, the positive control group, rambutan leaf extract at doses of 17.5, 35, and 70 mg/kg b.w., and the orlistat and metformin groups. The parameters evaluated during therapy were body weight, food index, feces index, and blood glucose levels. The rambutan leaf ethanol extract at a dose of 17.5 mg/kg b.w. resulted in a decrease in body weight by 2.44% compared to the initial body weight and could also decrease appetite with the amount of food intake equal to 10.71 g compared with the positive test group at 12.49 g. The rats administered 35 mg/kg b.w. rambutan leaf ethanol extract excreted 6.29g of feces and exhibited a decreased organ and fat index in the liver, spleen, and perirenal fat. In the anti-diabetic test, the blood glucose level was increased 123 mg/dL, but diabetes mellitus and insulin resistance had not yet occurred following administration of 17.5 mg/kg bw rambutan leaf ethanol extract, although the blood glucose level was lower compared with the positive test group (93 mg/dL). In conclusion, the rambutan leaf ethanol extract was shown to decrease body weight and blood glucose levels in rats.

**INTRODUCTION:** The incidence of overweight and obesity is increasing rapidly in different parts of the world. Obesity has become an epidemic by contributing to 35% of pain and 15–20% of deaths in developed countries. Death is not always directly caused by obesity, but obesity can cause serious health problems that can result in a metabolic disorder; cardiovascular, kidney, and prothrombin issues; as well as an inflammatory response <sup>1</sup>.



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According to the World Health Organization (2011), obesity is characterized as excessive or abnormal fat build-up that can impair health. Complex related etiology, *i.e.*, genetic factors, metabolism, living habits, eating habits, activities, and socio-cultural and economic factors, occur in people with obesity <sup>2</sup>.

Diabetes mellitus is one complication that can arise as a result of obesity. Diabetes mellitus is a chronic disease that occurs when the pancreas is no longer able to produce insulin, or when the body cannot use the insulin that is produced. Insulin is a hormone produced by the pancreas that functions to allow glucose from the foods we eat to pass through the bloodstream into cells in the body to produce energy.

All carbohydrates are broken down into glucose in the blood, and insulin helps glucose enter cells<sup>3</sup>. The prevalence of obesity in the adult population worldwide in 2005 reached 400 million people 4, and in 2011, the American Heart Association indicated that 12 million (16.3%) children in America aged 2-19 years are considered obese. In 2013, according to the Riset Kesehatan Dasar <sup>5</sup>, the prevalence of obese male and female adults rose 19.7% and 32.9%, respectively. The global prevalence rate of diabetes mellitus in 2012 according to the International Diabetes Federation was considered to be 8.4% of the world's population. The high prevalence of degenerative diseases that include obesity and diabetes then was undertaken therapy or treatment that can help heal and maintenance of degenerative disease itself, both pharmacological and non-pharmacological. Recommended non-pharmacological therapy includes reducing calorie intake, increasing exercise, and weight loss of 5-10% of initial weight, while pharmacological therapy can be achieved with medicines such as orlistat and metformin <sup>6</sup>.

The use of medicines such as phentermine, lorcaserin in combination with topiramate, phentermine, and diethylpropion, which commonly used for anti-obesity pharmacological therapy, has been limited due to significant side effects. Side effects of the drug lorcaserin include headaches, constipation, dizziness, fatigue, and dry mouth. The mechanism of action of these drugs is to control appetite through the effects of serotonin, which causes a sense of satiety so the intake of nutrients is limited <sup>7</sup>. The risk of severe hypoglycemia in oral therapies, as well as insulin injection in the treatment of diabetes mellitus, is high. Due to the side effects of currently available drugs, research into plants to obtain traditional medicine has been undertaken as an alternative for obesity. One herb that has shown anti-obesity properties is the leaf rambutan (Nephelium lappaceum L.).

One previous study reported that the inhibition of IGF-1 in obese rats can reduce body weight <sup>8</sup>. Rambutan has also been tested to determine the influence of skin extract concentration on lipid and rambutan accumulation in the livers of obese mice <sup>9</sup> and rambutan extract has been proven to reduce

levels of glucose in the blood <sup>10</sup>. Diabetes is considered an obesity-related disease because one of the causes of obesity is the metabolic disruption of carbohydrates or glucose in the blood. Based on the highest prevalence of degenerative diseases as well as the lack of alternative treatments for these diseases, we will develop of ethanol extracts of leaves of rambutan for degenerative diseases. This study aimed to determine the effect of ethanol extracts of rambutan leaves (*Nephelium lappaceum* L.) on blood glucose levels in rats.

#### **MATERIALS AND METHODS:**

**Identification of Rambutan** (*Nephelium lappaceum*) **Leaves:** The leaves of rambutan (*Nephelium lappaceum* L.) were obtained from Kalijati-Subang, Indonesia and determination of plants was conducted in the Herbarium Plant Taxonomy Laboratory, Department of Biological FMIPA, University of Padjadjaran, Jatinangor, Indonesia. The plant authentication number is no. 069/HB/02/2017.

# **Preparation of Ethanol Extract of** *N. lappaceum*: A total of 2 kg of dried simplicia was macerated with 10 L of 96% ethanol for $3 \times 24$ h at room temperature. The macerate obtained was 5 L and concentrated using a rotary evaporator.

**Animals:** White Wistar rats aged 2-3 months and weighing 150-250 g (University of Padjajaran) were used in this study. Before animals were tested, firstly, animals were adapted to new cage environments including feeding. Animal experiments were conducted according to the Commission of the Ethics of Health Research Faculty of Medicine, the University of Padjajaran Bandung (No. 399/UN 6. C. 10/PN/2017).

Anti-Obesity Activity Test: *In-vivo* testing of rats was performed following induction with foods high in carbohydrates, fats, and propylthiouracil (PTU), with 29 days of treatment and observation <sup>11</sup>. The test animals were divided into six groups, with five rats per group. The groups were as follows: normal (negative control), the positive control comparison group, orlistat (10.8 mg/kg b.w.), and rambutan leaf extract at 17.5, 35, and 70 mg/kg b.w. Induction and therapy were performed simultaneously. The parameters observed during therapy were weight, food index, and feces index. At the end of the

experimental period, the animals were sacrificed, and organs (liver, kidneys, spleen, and testicles) and fats (retroperitoneal fat, perirenal fat, and epididymal fat) were weighed.

Anti-Diabetic Activity Test: An insulin resistance hanger model was induced in 30 rats divided into six groups: negative control, positive control, comparison group using metformin (45 mg/kg b.w.), and rambutan leaf extract at 17.5, 35, and 70 mg/kg b.w. All groups, except for the negative control group, were fed foods high carbohydrates, and Orlistat, PTU. fats, gastrointestinal lipase inhibitor, was used to a weight gain standard measurement of body weight, metformin was used to measure blood sugar levels, and the body weights and organ index of the rats were recorded daily.

**Determination of Blood Glucose Levels:** A total of 10 μl of serum was added to 1000 μl hexokinase reagent (glucose) and incubated at 37 °C for 5 min. Then, UV absorption was measured at 340 nm using a UV spectrophotometer (Microlab 300®)

Insulin Tolerance Test Constant Measurements (KTTI): On day 29 of the experimental period, insulin tolerance tests were performed. Testing was performed by administering insulin by intraperitoneal injection at 0.05 U/kg b.w. and was performed as many as five times every 15 min throughout 1 h. Measurement of blood glucose levels was conducted using Easy Touch®.

**Statistical Analysis:** All results obtained were analyzed for statistical significance using one-way

analysis of variance (ANOVA). Data were expressed as mean  $\pm$  standard error of the mean for triplicate determinations or a sample size of n = 4. P<0.05 was considered significant.

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**RESULTS:** In this study, we tested obesity and insulin resistance by administering rambutan leaf ethanol extract (N. lappaceum L.) to obese mice induced with foods high in carbohydrates and fats. The obesity test parameters observed during therapy included measurement of weight, food, and feces indices, which were obtained by comparing the weights of food and feces daily with the weights at the end period of the induction. At the end of the experimental period, animals were sacrificed, and the organs (liver, kidney, spleen, and testicles) and fat (perirenal fat, retroperitoneal fat, and epididymal fat) were measured. In terms of insulin resistance parameters, blood glucose levels were measured on day 0 and 29. Measurement of the constant insulin tolerance test (KTTI) was performed at the end of the experimental period. KTTI indicates insulin sensitivity, with a low K value indicating low sensitivity and vice versa 12.

Analysis of Animal Body Weight During Phase Testing: All groups (except for the negative control group, which was given normal feed) were induced with high levels of carbohydrates, fats, and PTU for 29 days. Administration of the induction foods high in carbohydrates, fat, and PTU in combination with extracts of leaves of rambutan was conducted on several animal groups to determine the effect of the rambutan extract on body weight. Data obtained using ANOVA analysis are shown in Table 1.

TABLE 1: COMPARISON OF THE PERCENTAGE OF BODY WEIGHT OF EACH GROUP DURING THE TEST PHASE

Test		Average weig	ht index ± SD	
group	T8	T15	T22	T29
Negative control	$0.80\pm 9.88$	2.40±12.54	5.20±10.42 <sup>#</sup>	4.60±11.12 <sup>#</sup>
Positive control	$1.40\pm3.91$	$10.20\pm3.42$	12.80±2.04 <sup>#^</sup>	21.20±6.68*^
Rambutan leaf ethanol extract, 17.5 mg/kg b.w.	-1.20±3.91	$0.60\pm5.22$	-2.60±0.89*^#	$-2.80\pm3.42^{\#}$
Rambutan leaf ethanol extract, 35 mg/kg b.w.	$1.20\pm4.86$	$5.80\pm3.27$	$7.20\pm4.43$	$7.60\pm3.64^{\#}$
Rambutan leaf ethanol extract, 70 mg/kg b.w.	$3.60\pm2.70$	$2.80\pm2.95$	$-0.20\pm4.38^{\#}$	$7.00\pm9.22^{\#}$
Orlistat, 10.8 mg/kg b.w.	3.80±1.30	$7.80\pm4.20$	5.29±3.11 <sup>#</sup>	0.40±2.40 <sup>#</sup>

<sup>\*</sup> Significantly different than negative control (P<0.05). # Significantly different than positive control (P<0.05). ^ Significantly different than comparison control (P<0.05).

Analysis of the Test Weight of Feces: Analysis of feces weight was performed to determine the antiobesity effect of rambutan leaf extract on the amount of feces. Our results indicate the percentage of feces from each test group **Table 2**, based on this observation, the mechanism of weight loss by rambutan extract was suggested by inhibition of fat absorption in adipose tissue. Index comparison of the amount of feces is the percentage of feces compared to body weight.

Analysis of Organ and Fat Index Test: Further testing of the anti-obesity effects of the rambutan leaf extract with organ index parameters (liver, kidney, spleen, and testicles) and fat (perianal, retroperitoneal, and epididymal fat). Observation of the organ index including the liver, kidneys, spleen, testicles, and fat was performed to see the distribution of fat in the sample after the end of the

therapy period (29 days). The liver, kidneys, spleen, and testicles were weighed and recorded. The organ index is the percentage of the ratio of organ weight to the body weight of the test animal. Data obtained using ANOVA analysis are shown in Tables 3 and 4.

**Analysis of Reduced Blood Sugar Levels During Therapy:** Blood glucose levels obtained in this study are shown in Fig. 1.

TABLE 2: EFFECT OF EXTRACT OF LEAVES OF HERBS AGAINST COMPARATIVE FECES WEIGHT

Test		Average ± SE	Feces index	
group	Т8	T15	T22	T29
Negative control	4.20±1.30°	3.80±1.30°	2.80±1.30°	3.40±1.14 <sup>^</sup>
Positive control	$2.00\pm1.22^{^{\circ}}$	$2.60\pm0.54^{^{\circ}}$	$2.40\pm1.51^{\circ}$	4.20±0.83°
Rambutan leaf ethanol extract, 17.5 mg/kg b.w.	$3.80 \pm 1.30^{\circ}$	$3.40\pm1.5^{\circ}$	$3.60\pm1.67$	$4.60\pm1.51^{\circ}$
Rambutan leaf ethanol extract, 35 mg/kg b.w.	$6.20\pm3.42^{\#}$	6.80±3.11*#	$5.20\pm3.70$	6.20±1.64*#
Rambutan leaf ethanol extract, 70 mg/kg b.w.	5.20±1.78 <sup>#^</sup>	$4.40\pm1.34^{\circ}$	6.20±2.16*#	4.20±0.83°
Orlistat, 10.8 mg/kg b.w.	$8.40\pm2.51^{*#}$	$8.00\pm2.34^{*#}$	5.80±1.92*#	$7.40\pm0.89^{*#}$

<sup>\*</sup> Significantly different than negative control (P<0.05). # Significantly different than Positive control (P<0.05). ^ Significantly different than Comparison control (P<0.05).

TABLE 3: EFFECT OF RAMBUTAN LEAF EXTRACT ON ORGAN INDEX

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Test		Average ± SE	Organ index			
group	Testicle	Kidney	Liver	Spleen		
Negative control	5.95±1.36	1.52±0.19	6.06±1.31 <sup>#^</sup>	$0.70\pm0.30^{\#}$		
Positive control	$8.90\pm1.20$	5.18±7.73	$10.4\pm0.93^*$	$1.40\pm0.39^*$		
Rambutan leaf ethanol extract, 17.5 mg/kg b.w.	$6.27 \pm 2.76$	$1.96\pm0.15$	$9.98{\pm}1.54^*$	$0.75\pm0.39^{\#}$		
Rambutan leaf ethanol extract, 35 mg/kg b.w.	$6.74\pm1.50$	$1.40\pm0.25$	$8.64\pm0.79^{*#}$	$0.84\pm0.29$		
Rambutan leaf ethanol extract, 70 mg/kg b.w.	$5.94\pm0.98$	$1.62\pm0.19$	$9.07{\pm}0.87^*$	$1.28\pm0.29^*$		
Orlistat, 10.8 mg/kg b.w.	$6.52\pm1.45$	$1.54\pm0.18$	$8.82\pm0.82^*$	$0.98\pm0.55$		

<sup>\*</sup> Significantly different than negative control (P<0.05). # Significantly different than positive control (P<0.05). ^ Significantly different than comparison control (P<0.05).

TABLE 4: EFFECT OF RAMBUTAN LEAF EXTRACT ON FAT INDEX

Test		Average ± SD Fat index	
group	Perirenal fat	Retroperitoneal fat	Epididymal fat
Negative control	0.20±0.14 <sup>#</sup>	$0.80\pm0.64$	0.62±0.61
Positive control	$0.80\pm0.31^{*^{\wedge}}$	$0.82 \pm 040$	$0.40\pm0.45$
Rambutan leaf ethanol extract, 17.5 mg/kg b.w.	$0.23\pm0.15^{\#}$	$0.90\pm0.22$	$0.78\pm0.40$
Rambutan leaf ethanol extract, 35 mg/kg b.w.	$0.26\pm0.15^{\#}$	$0.98\pm0.23$	$0.95 \pm 0.51$
Rambutan leaf ethanol extract, 70 mg/kg b.w.	$0.20\pm0.07^{\#}$	1.16±0.64	$0.68\pm0.82$
Orlistat, 10.8 mg/kg b.w.	0.31±0.22 <sup>#</sup>	$1.07 \pm 0.71$	$0.96\pm0.73$

<sup>\*</sup> Significantly different than negative control (P<0.05). # Significantly different than positive control (P<0.05). ^ Significantly different than comparison control (P<0.05).

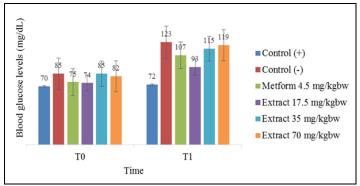


FIG. 1: REDUCED BLOOD SUGAR LEVELS DURING THERAPY

Susilawati et al., IJPSR, 2019; Vol. 10(8): 3672-3678.

**Constant Testing of Insulin Tolerance Test:** This test was conducted in a preventive manner in rats induced with high-fat carbohydrate foods and PTU using different doses of rambutan leaf ethanol extract. Testing of insulin tolerance test constants (KTTI) was performed to determine whether the animal tested exhibited insulin resistance. In this study, insulin sensitivity was determined using the intraperitoneal insulin tolerance method. Blood glucose levels were measured every 15 min for 1 h following intraperitoneal administration of 0.05 U/kg bw insulin. The results of the insulin tolerance test are shown in **Table 5**.

Decreased Body Weight: We also measured overall body weight to determine the influence of body weight on blood glucose levels. Body weight data were statistically analyzed using ANOVA, and the results are shown in **Table 6**.

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TABLE 5: KTTI MEASUREMENTS

Test group	KTII	
Normal group	$0.19\pm0.08^*$	
Induction group	$0.03\pm0.01$	
Metformin, 45 mg/kg b.w.	$0.11\pm0.09^*$	
Rambutan leaf ethanol extract, 17.5 mg/kg b.w.	$0.09\pm0.06$	
Rambutan leaf ethanol extract, 35 mg/kg b.w.	$0.05\pm0.02$	
Rambutan leaf ethanol extract, 70 mg/kg b.w.	$0.06\pm0.05$	

<sup>\*</sup>Significantly different from positive control (P<0.05).

TABLE 6: AVERAGE BODY WEIGHT (g)

Test	Average ± SD body weight index				
group	T0	Т8	T15	T22	T29
Normal group	$181.80 \pm 18.80$	180.00±15.24	182.40±19.29	185.80±17.32	188.40±26.29
Inductio group	181.80±9.49	$182.00\pm13.28$	190.80±12.63	205.00±19.30	212.80±19.48
Metformin, 45 mg/kg b.w.	186.00±5.47	$184.80\pm5.54$	$180.40\pm5.68$	181.00±6.44	180.00±6.55*
Rambutan leaf ethanol extract, 17.5 mg/kg b.w.	196.60±37.17	191.80±34.47	196.20±39.09	193.20±42.25	$188.60\pm27.98$
Rambutan leaf ethanol extract, 35 mg/kg b.w.	174.17±15.44	178.33±16.24	178.33±16.24	187.50±18.64	$186.83\pm20.77$
Rambutan leaf ethanol extract, 70 mg/kg b.w.	197.25±18.78	196.25±19.61	188.57±20.37	196.25±19.61	198.75±21.54

<sup>\*</sup>Significantly different from positive control (P<0.05).

#### **DISCUSSION:**

**Analysis of Animal Body Weight During Phase** Testing: Body weight was measured Fig. 1 at the start of week 0, when animals (150-250 g) had not been induced. In the first week, body weight decreased, which was expected because the animals are adapting to the foods high in carbohydrates and fats. In week II, body weight increased in all groups, whereas in weeks III and IV, all groups except the positive control experienced weight loss. The positive control group experienced an increase in body weight of 21.45% of the initial weight, indicating the animals were obese, confirming successful induction.

ANOVA analysis with P<0.05 indicated that significant differences occurred at Time of 22 days and Time of 29 days. Multiple comparisons posthoc Bonferroni analysis with P<0.05 revealed significant differences in the positive control at T22 and T29 compared with the negative control. Significant differences compared with the positive control were demonstrated by the negative control, rambutan leaf ethanol extract at 17.5, 35, and 70 mg/kg b.w. as well as comparators at T22 and T29. A significant difference was demonstrated by the positive control and rambutan leaf ethanol extract at 17.5 mg/kg b.w. at T22 and T29. This suggests

that the rambutan leaf extract reduced overall body weight. Based on Duncan's homogenous subset analysis, the effective dose that can decrease the body weight of the test animals at day 29 is 17.5 mg/kg b.w because it is closest to the comparison.

Analysis of the Test Weight of Feces: From Table 2, it can be seen that the comparison group exhibited a meaningful difference compared with the positive and negative controls. The test dose of 17.5 mg/kg b.w. of 70 mg/kg b.w. also exhibited differences compared meaningful with comparison, suggesting that at a test dose of 17.5 mg/kg b.w. and 70 mg/kg b.w. Index feces not in influence. With the test dose of 35 mg/kg b.w., there are meaningful differences compared with the positive and negative controls. Administration of orlistat at 10.8 mg/kg b.w. resulted in a large increase in feces compared with the normal and control groups.

ANOVA analysis with P<0.05 revealed a significant difference at T8, T15, T22, and T29. Based on post-hoc Bonferroni multiple comparisons analysis, a substantial difference with the negative controls was demonstrated by comparators at T8, T22, and T29; ethanol extract of 35 mg/kg b.w. of rambutan leaves at T15 and T29;

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and rambutan leaf ethanol extract at 70 mg/kg b.w. at T22. Duncan's homogenous subset analysis showed that the effective dose showed by the ethanol extract of rambutan leaf group treated with 35 mg/kg b.w., it can increase the amount of fat expelled in the feces. This indicates that the rambutan leaf extract can affect the expenditure of fat released with feces but cannot significantly decrease the body weight of the test animal.

**Analysis of Organ and Fat Index Test:** ANOVA analysis with P<0.05 revealed a significant difference in the liver, spleen, and perirenal fat. Bonferroni Based post-hoc multiple on comparisons analysis, the significant difference of the liver compared with the negative control was shown by the positive control; ethanol extract of rambutan leaves at 17.5, 35, and 70 mg/kg b.w.; and the comparison. A significant difference in the liver compared with the positive control was indicated by the negative control, extract ethanol leaf rambutan at 17.5 mg/kg b.w., and the comparison. The negative control only indicated the difference in mean liver weight with the comparison.

In the spleen, significant differences with the positive control were demonstrated by the negative control and rambutan leaf ethanol extract at 17.5 mg/kg b.w. There was no significant difference in the spleen compared with the comparison group. In perirenal fat, a substantial difference with the negative control demonstrated by the positive control. The negative control demonstrated a significant difference with the positive control; ethanol extract of rambutan leaves at 17.5, 35, and 70 mg/kg b.w.; and the comparison. The difference was significant with the correlation shown by the positive control. With Duncan's homogenous subset analysis, effective dose for liver, spleen, and perirenal fat shown by rambutan leaf extract at 35 mg/kg b.w., which influence the distribution of fat in the liver. spleen, and perirenal fat, which means a dose of 35 mg/kg b.w. can effectively decrease the weight of the liver, spleen, and perirenal fat.

Analysis of Reduced Blood Sugar Levels During Therapy: Fig. 1 shows that during the 29 days of testing following induction with foods high in carbohydrates, fats, and PTU, all test groups had elevated blood glucose levels except the negative control group. The increase in blood glucose levels in the positive control group indicated that the research was successful. In the comparison group of metformin at a dose of 45 mg/kg bw, the ethanol extract groups of rambutan leave at 17.5, 35, and 70 mg/kg b.w. exhibited decreased blood glucose levels compared with the positive control group. A decrease in blood glucose levels in the comparison group with metformin therapy may be due to the presence of a metformin mechanism that can increase the insulin sensitivity of pancreatic  $\beta$ -cells <sup>13</sup>. The blood glucose data were statistically analyzed using ANOVA to determine significant differences between test groups.

Statistical analysis after 29 days showed a significant difference compared with the positive control with P<0.05 in the negative control group; metformin comparison group at 45 mg/kg b.w.; and the rambutan ethanol extract group at 17.5 mg/kg b.w. This indicates that both the metformin comparative arm and the rambutan ethanol extract test group decreased blood glucose levels, although these levels did not return to normal. In a previous study, rambutan leaf was shown to decrease blood glucose levels using an animal model of insulin deficiency with an alloxan inducer performed for 14 days <sup>10</sup>.

Constant Testing of Insulin Tolerance Test: Table 5 indicates the state of insulin resistance that can be seen from the speed of insulin in lowering blood glucose levels. The rate at which insulin lowers blood glucose levels indicates the sensitivity of the tissue to insulin <sup>14</sup>. In the positive control group, decreased tissue sensitivity to insulin resulted in a reduced rate insulin-dependent lowering of blood glucose levels. This was marked by a significant difference in the negative control and metformin comparison group of 45 mg/kg bw to the positive control group with P<0.05, which indicated an improvement in tissue sensitivity to insulin. In the ethanol extract test group of rambutan leaves at 17.5, 35, and 70 mg/kg b.w. was not found insulin resistance.

**Decreased Body Weights: Table 6** shows that in all test groups of ethanol extracts of rambutan leaves there was no significant difference compared with the positive control group, but at the Group's

benchmark dose of 45 mg metformin/kg bw, there is a significant difference towards the positive control group (P<0.05). It has been shown that metformin can also be used for sufferers of type 2 diabetes mellitus experiencing excess body weight (obesity).

**CONCLUSION:** Ethanol extracts of rambutan leaves (*N. lappaceum* L.) improve diabetes by reducing insulin resistance and decreasing glucose concentration. Additional studies will be important for the further analysis of this phenomenon.

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**CONFLICT OF INTEREST:** The authors declare that there is no conflict of interest.

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