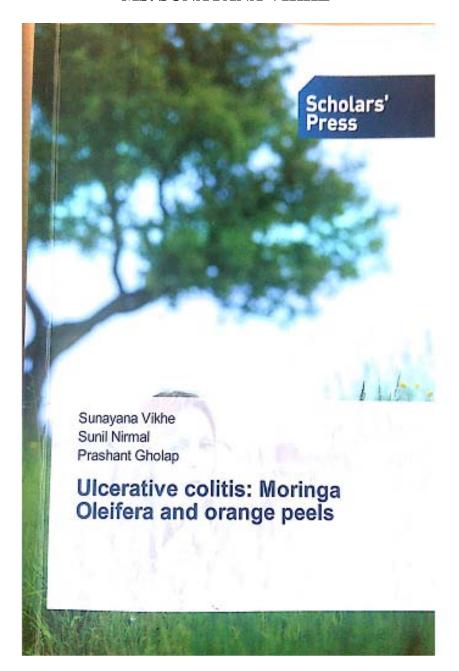


DETAILS OF PUBLISHED BOOKS AND CONFERENCE PROCEEDINGS

MS. SUNAYANA VIKHE





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"POTENTIAL OF MIXTURE OF MORINGA OLEIFERA AND ORANGE PEEL IN THE TREATMENT OF ULCERATIVE COLITIS"

SUNAYANA VIKHE SUNIL NIRMAL PRASHANT GHOLAP

Ulcerative colitis: Moringa Oleifera and orange peels

"Herbs for Ucer: Safe and Effective" Potential of Moringa oleifera and Orange peels extract in the treatment of Ucerative colitis. Ucerative colitis (UC) is a subcategory of inflammatory bowel disease. The term inflammatory bowel disease refers to a large group of disorders that affect the gastrointestinal system. Inflammation is a process that occurs when the body's immune system begins to fight off foreign invaders, such as viruses, bacteria, and fungi. The immune system is a network of organs, tissues, cells, and chemicals designed to kill invading organisms. Some of the chemicals produced by the immune system irritate the body's own tissues. They cause heat, redness, swelling, and loss of function. These changes are all characteristic of inflamed tissue inflammatory bowel disease (IBD) conventionally is divided into two major subtypes: ulcerative colitis and Crohn's disease. Present book gives the use of Moringa oleifera and Orange peels extract in the treatment of Ulcerative colitis.

Prof. SUNAYANA RAHUL VIKHE; M. Pharm. (Pharmacognosy) Assistant Professor, Department of Pharmacognosy, Pravara Rural College Of Pharmacy A/P- Loni, Tal- Rahata, Dist-Ahmednagar, Pin-413736, Maharashtra.



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DR. R J BHOR



It gives me immense pleasure to offer our students the first edition of my book on Organic Reaction and Poly Cyclic Chemistry for E.Y. B.Pharm and S.Y. B.Pharma per SPPU syllabus. It is also used for bachelor of sciences i.e. B.Sc students. The Salient Features of this book is given below;

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- Deep knowledge for various types of organic reaction with their mechanism
- Nomenclature of various Poly cyclic compounds

8 Nomenciature of various Poly cyclic compounts.
Mr. Robit Jaysing Bioc carroed his B.Plarm in 2000 and M.Plarm (Plarmscottical Chemistry) in 2011, from MGV's College of Plarmacy Punchasat, Dist; Natik, He passed bachelor and Mater degree from Chieventy of Punc. Malarandura, Dist; Natik, He passed bachelor and Mater degree from Chieventy of Punc. Malarandura, India, Mr. Robit Jaysing Boo has toking admission for Plot Porente Chieventy in 2013. Am M.Plarm Project topic in 'Na Aryl/Allys' a plony (Descriptor). A Plarmacy Noble. Plany University. A Plar Degree topic in 'Synthesis and Inscribent Archity of Aryl/Allys' a plony (Descriptor). A Plarmacy Noble. Plany Chievensy, A. Plar Degree topic in 'Synthesis and Inscribent Archity of Herbert Popical Plant Professor. He has many International Research Publication and a Review publication in Peer and Perfect Plant P

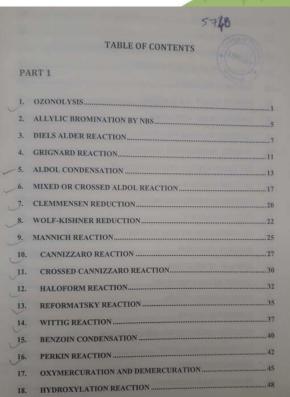






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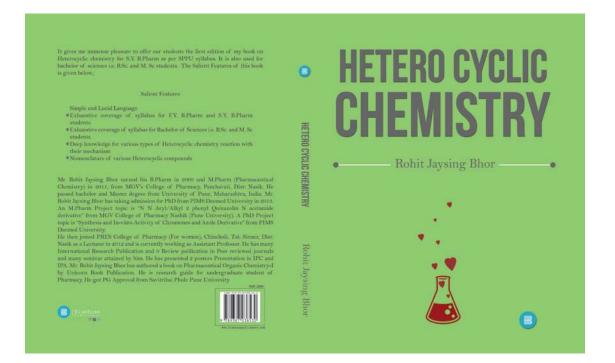








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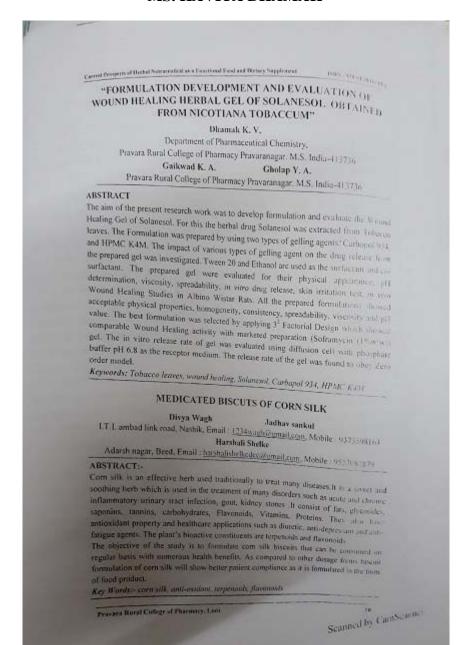


DR. R J BHOR

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MS. KAVITA DHAMAK







DR. N S DIGHE

Correst Prospects of Herbal Nutracentical as a Functional Fund and Bietary Supplement

ISBN:978-93-88441-65-0

ANALYTICAL METHOD DEVELOPMENT AND VALIDATION FOR NALLY IT.

NALLY IT. PAMOATE IN BULK DOSAGE FROM BY RP-HPLC.

Mrs. K. V. Dhamak

Department of Pharmaceutical Chemistry, Pravara Rural College of Pharmacy,

Pravaranagar, M.S. India

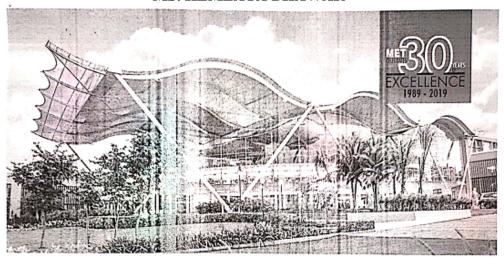
ABSTRACT:

The Present manuscript describes a new simple, specific, precise and accurate reverse phase high performance liquid chromatography method for the RP-HPLC for quantitation studies for praziquantel and pyrantel pamoate in bulk dosage form. The quantitation studies were carried out by using C18 (250 x4.6 mm) colum with mobile phase containing methanol: water in thre ratio of 80:20 buffer ph was maintained at 4.5 adjusted with 0.01m orthophosphoric acid, which is pumped at a flow rate of 0.8ml/min. The nv detection was monitored at 217nm. The peaks obtained were sharp with retention times of praziquantel and pyrantel parnoate were 5.0 min and 6.59 min respectively. The Calibration Curves were linear (R2=0.999) over the concentration from 5-10 µgml for praziquantel and pyrantel parnoate respectively. The percentage recoveries of praziquantel and pyrantel pamoate were found to be in the range of 98,06 and 99,98 percent respect Type equation here tively. The proposed method was validated and successfully applied to the quantitation studies of praziquantel and pyrantel pamoate in combined bulk dosage forms. The Calibration Curves were linear (R2=0.999) over the concentration from 5-10 ugml for praziquantel and pyrantel pamoate respectively. The percentage recoveries of praziquantel and pyrantel pamoate were found to be in the range of 98.06 and 99.98

Keywords: Praziquantel, Pyrantel pamoate, Quantitation Studies, RP-HPLC



MS. HEMLATA BHAWAR



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PC 03

RP-HPLC METHOD FOR SIMULTANEOUS ESTIMATION OF SACUBITRIL AND VALSARTAN IN BULK AND PHARMACEUTICAL DOSAGE FORM

Bhawar S. Hemlata* and Jadhav M. Arti'

Department of Pharmaceutical Chemistry, Pravara Rural College of Pharmacy,
Pravaranagar, Loni, Ahmednagar, 413738

Email-dimpals@rediffmail.com | Contact-9011785372

Abstract:

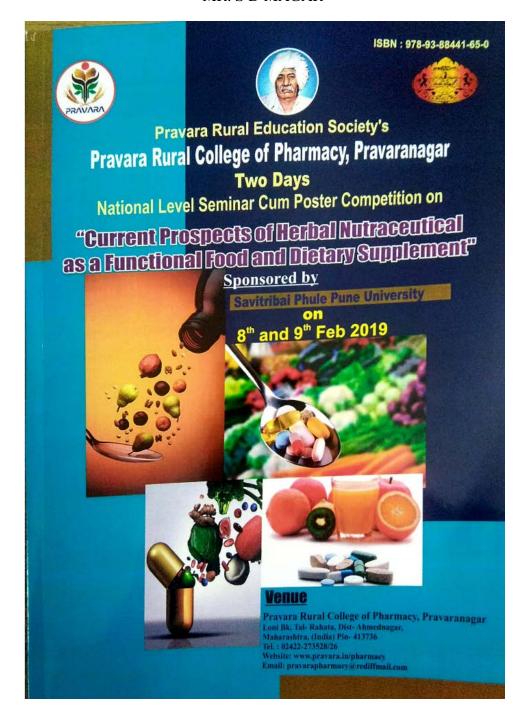
A simple, precise and reproducible Reverse Phase High Performance Liquid Chromatography method was developed and validated for simultaneous estimation of Sacubitril and Valsartan in tablet dosage form. Chromatographic separation was achieved by Grace C18 (250 mm x 4.6 ID, Particle size- 5 micron) column and methanol: water (90:10v/v) as mobile phase, at a flow rate of 1 ml/min (millilitre per minute) using UV detection at 244nm. Forced degradation experiments were carried out by exposing Sacubitril and Valsartan standard and sample for thermal, photolytic, oxidative and acid-base hydrolytic stress conditions. The retention time for Sacubitril and Valsartan were obtained as 6.984min and 5.311 min. respectively. The method has been validated for linearity, accuracy, precision, LOD, and LOQ. Linearity of Sacubitril and Valsartan were found to be 12-60µg/ml.(R2=0.9987) and 13-65µg/ml.

(R2=0.9979) respectively. The accuracy of present method was evaluated at 50%, 100%. 150%. Recovery was found to be in a range from 99.13%-101.25% for sacubitril and 98.92%-101.80% for valsartan. Intermediate precision studies were carried out and the RSD values were less than 2%. Lower values of LOD (0.096µg/ml) and LOQ (0.293µg/ml) for sacubitril and LOD (0.280µg/ml) and LOQ (0.849µg/ml) for valsartan indicated good sensitivity of the method. In this study, the optimization of mobile phase, flow rate, injection volume and wavelength were achieved. This demonstrate that the developed method is simple, precise. accurate and robust for simultaneous estimation. of Sacubitril and Valsartan in tablet dosage form. Themethod was acceptable for degradation studies of heat, sunlight, acid, base, peroxide which meet the acceptance criteria for forced degradation studies.

KEYWORDS: Socubitril, Valsartan, RP-HPLC, Validation



MR. S D MAGAR







Current Prospects of Herbal Nutraceutical as a Functional Food and Dietary Supplement

ISBN: 978-93-88441-65-0

TO FIND THE CONTENT OF COLD DRINKS AVAILABLE IN THE MARKET

Sagar D. Magar

Nachiket S. Dighe

Amol S. Dighe

Ganesh S. Waghule

Gangadhar V. Pawar

Pravara Rural College of Pharmacy, Pravaranagar.

ABSTRACT

Cold drinks of different brands are composed of alcohol, carbohydrates, carbon dioxide phosphate ions etc. These soft drinks give feeling of warmth, lightness and have a tangy taste which is liked by everyone. Carbon dioxide is responsible for the formation of froth on shaking the bottle. The carbon dioxide gas is dissolved in water to form carbonic acid which is also responsible for the tangy taste. Carbohydrates are the naturally occurring organic compounds and are major source of energy to our body. General formula of carbohydrates is $C_X(H_2O)_Y$.

Glucose is a monosaccharide with formula C₆H₁₂O₆ .It occurs in Free State in the ripen grapes in bones and also in many sweet fruits. It is also present in human blood to the extent of about 0.1%. Sucrose is one of the most useful disaccharides in our daily life.

It is widely distributed in nature in juices, seeds and also in flowers of many plants. The main source of sucrose is sugar cane juice which contain 15-20 % sucrose and sugar beet which has about 10-17 %sucrose. The molecular formula of sucrose is C12H22O11. It is produced by a mixture of glucose and free dose. It is non-reducing in nature whereas glucose is reducing. Cold drinks are a bit acidic in nature and their acidity can be measured by finding their pH value. The pH values also depend upon the acidic contents such as citric acid and phosphoric acid.

Key Words: cold drinks, carbohydrates, monosaccharide, disaccharides.

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Prayara Rural College of Pharmacy, Loni



Carried Prospects of Herbad Natraconstical as a Functional Food and Detary Supplement

158N | 978-93-88401-68-9

NUTRITIONAL EVALUATION OF SOME COMMONLY AVAILABLE LOCAL HERBS IN AHMEDNAGAR ZONE OF MAHARASHTRA

Chetan Kedari

N. S. Dighe

Hemlata Bhawar

Sagar Magar

Department of Pharmaceutical Chemistry

Pravara Rural College of Pharmacy, Loni, Tal. Rabata, Dist. Ahmednagar

ABSTRACT

Present study was done to investigate the various chemical parameters of the Asana, Ashwagandha, Bamboo, Ber, Gliricidia, Jackfruit, Kanchan, Shevari, Shivan and Subabbul leaves. The study will provide referential information for the identification of the marriive substances of different berbs. These herbs are useful in and as lumbago, hemiplegia, and removal of urinary concretions, liniment with gigelly oil in rheumatism, dysentery and diarrhea, diabetes and for several physiological disorders in animals as well in humans. The chemical analysis of the given herbs was done for the proximate principles wir. Dry matter, Crude protein, Crude fibre, Ether extract, Nitrogen free extract, Total ash and Acid insoluble ash (AOAC, 1995). Results showed that Dry matter, Crude peotein, Crude fibre, Ether extract, Nitrogen free extract, Total ash and Acid insoluble ash for Asarra (24.38, 12.14, 75.62, 3.98, 41.33, 8.54 and 2.43), Ashwagandha (64.76, 2.14, 2.17, 7.46, 81.54, 6.70 and 1.56), Bamboo (39.42, 12.94, 2.06, 18.34, 48.03, 13.49 and 4.59), Ber (40.18, 10.87, 3.16, 18.44, 57.21, 10.32 and 3.86), Gliricidia (32.48, 20.84, 4.16, 16.54, 44.24, 13.90 and 4.96), Jackfruit (29.75, 13.08, 2.69, 17.54, 56.82, 9.87 and 2.64). Kanchan (39.66, 14.18, 3.40, 17.66, 45.91, 12.72 and 4.18), Shevari (28.96, 18.57, 3.06, 28.91, 43.12, 6.34 and 2.54), Shivan (49.67, 14.19, 2.82, 24.32, 44.90, 3.57 and 1.38) and Subabbal (40.62, 22.72, 3.14, 49.39, 14.93 and 5.88), respectively The present investigation conclude that the herbs serves supplement for the nutritional requirement of the animals.

Keywords: Herbs, Proximate composition, crude protein, fibre, and marrient content,

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MS. HEMLATA BHAWAR



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SIMULTANEOUS ESTIMATION AND VALIDATION OF MECLIZINE HYDROCLORIDE AND CAFFINE IN BULK AND TABLET DOSAGE FORM BY PRHPLC

Hemlata S. Bhawar* & Siddhart D. Nirhali

Email: dimpals@rediffmail.com

Department of Pharmaceutical Chemistry, Pravara Rural College of Pharmacy, Pravaranagar, Loni, Ahmednagar

ABSTRACT:

A simple, accurate, precise and reproducible Reverse Phase High Performance Liquid Chromatography method was developed and validated for simultaneous estimation of meelizine hydrocloride and eastine in tablet dosage form. Chromatographic separation was achieved by Grace C18 (250 mm x 4.6 ID, Particle size- 5 micron) column and methanol: water (80:20v/v) at pH3 adjusted with ortho phospharic acid as mobile phase, at a flow rate of 1 ml/min (millilitre per minute) using UV detection at 228 nm. The retention time for meclizine hydrocloride and caffine were obtained as 4.128 min and 5.107 min. respectively. The method has been validted for linearity, accuracy, precision, LOD, and LOQ. Linearity of meclizine hydrocloride and caffine were found to be 5 - $25\mu g/ml$, and 4 -20 μg/ml.(R2=0.9991 and 0.9992) respectively. The accuracy of present method was evaluated at 50%, 100%, 150%. Recovery was found to be in a range from 99.95%-101.25% for meclizine hydrocloride and 99.50%-101.80% for caffine .Mean recovery was found 99.36% and 99.71% for meclizine hydrocloride and caffine. Intermediate precision and repeatability studies were carried out and the RSD values were less than 2%, % RSD for repeatability was 0.27% and 0.33%, for intermediate precision 0.24% and 0. 30% and for robustness, 0.54% and 0.51% by change in pH. Lower values of obtained for LOD (0.18) and LOQ (0.06) for meelizine hydrocloride and LOD (0.24) and LOQ (0.18) for caffine respectively. This indicated good sensitivity of the method. In this study, the optimization of mobile phase, flow rate, injection volume and wavelength were achieved. This demonstrates that the developed method is simple, precise, accurate and robust for simultaneous estimation of for meelizine hydrocloride and caffine in tablet dosage form.

Keywords: Meclizine Hydrocloride, Caffine, RP-HPLC, Validation

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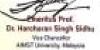
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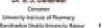
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participated in "2nd International Conference on Fostering Interdisciplinary Research in Health Sciences" Jointy organized by Confinest India and AIMST University, Sungai Petan, Kedah Mataysia on 14"-15", September 2019. HeiShe has given Peeter/ Oral Presentation on the took. G. - Phar and Cara. "An incident final in the Confine and Cara and C











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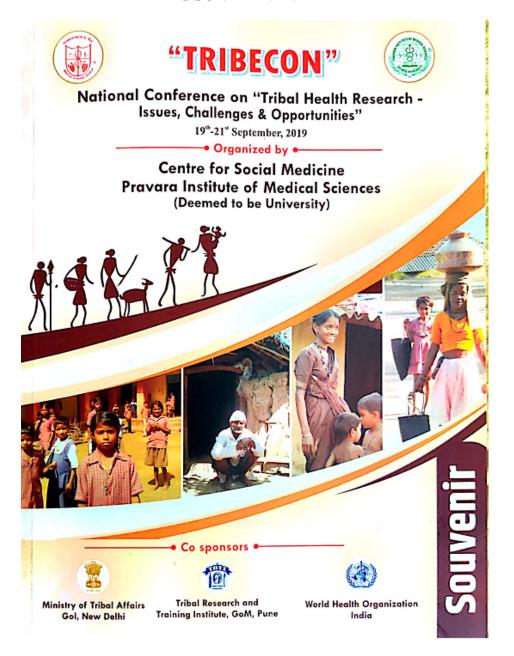




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National Conference on "Tribal Health Research - Issues, Challenges & Opportunities"

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INDIAN TRIBAL HERBS FOR DIABETES

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ABSTRACT

Introduction: This article focuses on Indian Tribal Herbal drugs and plants used in the treatment of diabetes. Diabetes is an important human ailment afflicting many from various walks of life in different countries. Diabetes is also considered the most common endocrine disorder. In modern medicine no satisfactory effective therapy is still available to cure diabetes. There is increasing demand by patients to use natural products with antidiabetic activity due to side effects associated with the use of insulin and oral hypoglycemic agents.

Method: A list of medicinal plants with proven antidiabetic and related beneficial effects and of herbal drugs used in treatment of diabetes is compiled. These include, Annona squamosal, Boerhaviadiffusa, Caesalpiniabonducella, Emblica officinalis, Feronia elephantum, Striga orobanchioides, Gymnemasylvestre, Swertiachirayita, Withaniasomnifera and Vincarosea. One of the etiologic factors implicated in the development of diabetes and its complications is the damage induced by free radicals and hence an antidiabetic compound with antioxidant properties would be more beneficial. Therefore information on antioxidant effects of these medicinal plants is also included.

Result: Plant species used by the tribes are mentioned in table 1 with their botanical name, common name and uses.

Asterisk mark indicates plant species recorded for the first time. These species were deeply studied for their further use and literature was carried out on the same plants.

Discussion: To prove efficacy of any crude drug, it is very essential to standardize the dosage or administration and also authenticate the sourcing plant species of the drug.

Conclusion: The flora of Maharashtra is very rich and provides very good source of many medicinal plants used as traditional medicine.

Keywords: Medicinal plant, India, antidiabetic, antioxidant, diabetes

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National Conference on "Tribal Health Research - Issues, Challenges & Opportunities"



GASTRO RETENTIVE FLOATING TABLET OF AZADIRACHTA INDICA (MELIACEAE) FOR THE TREATMENT OF GASTRIC ULCER

SunayanaVikhe¹, Sunil Nirmal¹
Pravara Rural College of Pharmacy, Pravaranagar, India
E-mail: sunainavikhe@gmail.com

Objective: Plant extract is having good anti-ulcer potential. The present study attempts to develop, optimize and standardize floating tablet of *A. indica* extract for the treatment of gastric ulcer.

Methods: The methods used were Stability Studies, Mathematical Modeling and Release Kinetics, Fingerprint Analysis, Anti-Ulcer Activity in rats, Calculation of Gastric Acidity and X- Ray Studies in Healthy Rabbit. Initially Azadirachtaindica leaf extract was finalized by characterization through Ultra Violet spectroscopy, Fourier Transfer—Infra Red spectroscopy and Differential scanning calorimetry. Polymers Psyllium husk and HPMC K100M were selected to retard the release of other agents that is release retarding polymers, gas forming agent was sodium bicarbonate.

Results: Formulation A5 indicated consistent floating characteristics and sustained release up to 18 hrs. Model fitting showed formulation A5 follows Korsmeyerpeppas model. According to the results of Histopathology, efficiency of floating tablet formulation in gastric ulcer regression can be concluded. Thus, results of the study stated that the A5 formulation possesses antigastric ulcer activity as compared to other formulation. Formulation A5 showed mean gastric retention period of more than 8 hours after in-vivo X-ray imaging in rabbit. Results of stability studies showed formulations are

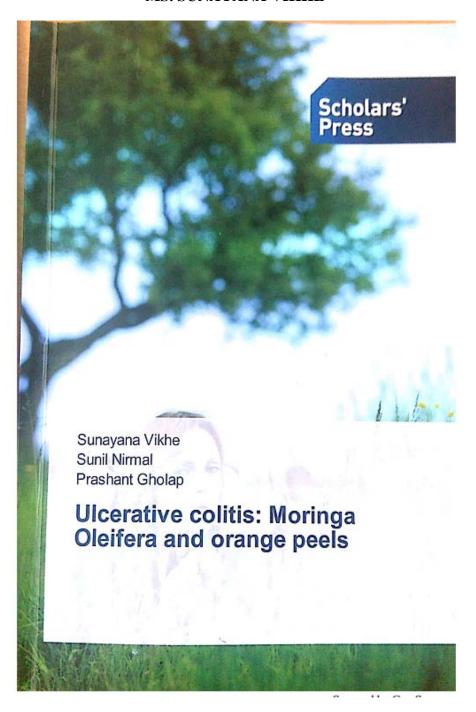
Discussion & Conclusions: The floating tablet prepared from *A. indica* is having good anti-ulcer activity and good floating property.

O-TNF18

CYCLEMATIC OPTIMIZATION OF JANUS EMULSION LOADED WITH FENUGREEK



MS. SUNAYANA VIKHE





"POTENTIAL OF MIXTURE OF MORINGA OLEIFERA AND ORANGE PEEL IN THE TREATMENT OF ULCERATIVE COLITIS"

SUNAYANA VIKHE SUNIL NIRMAL PRASHANT GHOLAP

Ulcerative colitis: Moringa Oleifera and orange peels

"Herbs for Ulcer: Safe and Effective" Potential of Moringa oleifera and Orange peels extract in the treatment of Ulcerative colitis. Ulcerative colitis (UC) is a subcategory of inflammatory bowel disease. The term inflammatory bowel disease refers to a large group of disorders that affect the gastrointestinal system. Inflammation is a process that occurs when the body's immune system begins to fight off foreign invaders, such as viruses, bacteria, and fungi. The immune system is a network of organs, tissues, cells, and chemicals designed to kill invading organisms. Some of the chemicals produced by the immune system irritate the body's own tissues. They cause heat, redness, swelling, and loss of function. These changes are all characteristic of inflamed tissue inflammatory bowel disease (IBD) conventionally is divided into two major subtypes: ulcerative colitis and Crohn's disease. Present book gives the use of Moringa oleifera and Orange peels extract in the treatment of Ulcerative colitis.

Prof. SUNAYANA RAHUL VIKHE; M. Pharm. (Pharmacognosy) Assistant Professor, Department of Pharmacognosy, Pravara Rural College Of Pharmacy A/P- Loni, Tal- Rahata, Dist-Ahmednagar, Pin-413736, Maharashtra.



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MR. AMOL DIGHE





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PC 11

SYNTHESIS AND ANALYSIS OF SOME SUBSTITUTED NEW PYRAZOLINE DERIVATIVES OF BIOLOGICAL INTEREST" Research

Amol S Dighe¹, Dr. Asim K. Sen², Manoj S. Barhate², Valmik S. Ahire³ Department of Pharmaceutical Chemistry, Prayara Rural College of Pharmacy, Pravaranagar, Loni, 413736. Maharashtra, India E-mail: amoldighe143@gmail.com, Mobile no. - 09921642747

ABSTRACT

The synthesis, structure and biological activity of Pyrazoline derivatives have long been the focus of research interests in theof Medicinal Chemistry. A number of Pyrazoline derivatives are reported to possess fascinating biological activities like Antimicrobial, and Anti-tubercular etc. In the present proposal, substituted Benzaldehyde was made to react with various Aromatic substituted ketones to yield different Chalcones. Chalcones so prepared were further allowed to react with Hydrazine Hydrate in the presence of Ethanol and Glacial acetic acid to get Pyrazoline derivatives, further Mannich reaction was carried out to give Mannich base (A1 - A16) all synthesized compound were characterized by IR, H-1-NMR and CHN Analysis.

All the compounds were evaluated for bactericide at the concentration of two hundred μcg/ml. by victimisationcup-plate agar diffusion methodology. The activity was allotted on completely different micro-organisms (E.coli, S.aureu,) measured in terms of zone of inhibition and compared the standard drug Ciprofloxacin. The Antitubercular screening was allotted by Middle brook 7H9 agar medium against H37Rv Strain. Middle brook 7H9 agar medium victimization antibiotic as a regular. The Pyrazoline have shown considerable activity at high concentrations. These compounds with the acceptable molecular modification could prove as a drug of selection within the treatment of microbic communicable disease in future. KEYWORDS: Pyrazoline, Anti-tubercular and

Antimicrobial activity

PC 12

SYNTHESIS AND EVALUATION OF CYCLIC PEPTIDE AGAINST **HUMAN TUMOR CELL LINES**

Nirmala V. Shinde *, Avinash S. Dhake 1, Sachin K. Bhosale2 and Kishan P. Haval3 ^{1,2} Department of Pharmaceutical Chemistry, S.M.B.T. College of Pharmacy, Nandi Hills, Dhamangaon, Tah: Igatpuri, Dist: Nashik (MH) India. 422 403 Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Subcampus Osmanabad. (MH) India.

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Synthesis of a natural cyclic pentapeptide cyclo (Gly-Pro-Phe-Val-Phe-) was carried out with good yield by using solution phase technique. The synthesized compound was confirmed by physicochemical and spectral methods of

The synthesized compound was then evaluated for anticancer activity preliminary by brine shrimp assay and then against a panel of 60

human tumor cell lines. The compound was found to be active by brine shrimp assay with LC₅₀ < 90 and had shown good activity against specific cell lines of renal cancer, ovarian cancer, Non-small cell lung cancer and Leukemia. Structural modifications of the molecule may lead to development of potent anticancer analog. Key words: solution phase technique, brine shrimp assay, human tumor cell lines.



DR. S B DIGHE



Certificate



DR. RAVINDRA JADHAV



are candidates for the treatment of microbes.

conditions in this series 5-methylpyrazine-2-carboxylic acid was used as starting material to synthesize designed conditions attrictures were established on the basis of IR and HNMR data. Compounds 3band 3f have showed excellent extention and antifungal activity against against Penicibium citrinum. Aspergillusinger Staphylococcus aureusand substituted and antifungal activity against Staphylococcus aureusand the compounds established high-anti-bacterial activity in sandard that the pyrazing participant aureus aureus.

than standard trial, the pyrazincontaining oxadiazole derivatives are potential compounds for use in the designing of an additional compounds for use in the designing of the conditions of the designing of the conditions of the c

O-PEH15

PROTECTIVE ROLE OF LACTUCA SATIVA LINN. AND ITS FRACTIONS IN SCOPOLAMINE-INDUCED AMNESIA IN MICE Sunayna Choudhary, Jagpreet Kaur and Jai Malik

University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh-160014, India. E-mail: sanachoudhary1988@gmail.com, jmalik_pu@hotmail.com

Objective: Alzheimer's disease (AD) is a progressive neurodegenerative disorder characterized by a gradual decline in continuous. Diet and life style habits plays an important role in controlling/delaying such neurodegenerative disorders. Amplie research has proposed that consumption of 'Mediterranean diet' significantly reduces or delays the risk disordering AD. Lactuca sativa Linn. (Asteraceae), commonly known as 'lettuce, is an important part of Mediterranean fire find bonally, the plant has been used to improve memory in old people, and its alcoholic extract has also exhibited response effects in in vitro studies. In the present study, the plant and its various fractions has been evaluated for a stracy against scopolarine-induced memory-impairment in mice and also uphold its traditional use as a memory expect.

Methods: The standardized alcoholic extract of L. sativa (LSAE) at 50, 100 and 200 mg/kg, p.o. and its fractions (petroleum end, ethyl acetate, n-butanol and aqueous) at different doses were evaluated against scopolamine

Newton ISAE (200 mg/kg) and its n-butanol fraction (15 mg/kg) exhibited maximum reversal of scopolamine induced behavioral and blochemical alterations.

Discussion & Conclusions: These findings validate the traditional daims of memory enhancing activity of L. sativa, and also suggest that the activity is mediated via its antioxidant and acetylcholinesterase inhibitory action.

O-PEH16

EVALAUATION OF ANTIASTHMATIC POTENCY OF FERONIA ELEPHANTUM BARK LINN

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Descrive The asthma is disease of respiratory tract, average 180000 deaths occur annually according to survey of W.H.O. The science of present study is to evaluate antiasthmatic potential of Feronia elephantumbark.

Methods: The bark of Feronia elephantum was collected and identified from college of agriculture biotechnology loni.

The dred powder of Feronia elephantumbark was subjected to extraction by using petroleum ether. Ethyl acetate, rehanol and ethanol as a solvent in soxhiet apparatus. The chemical test was performed for various extract to detect any and secondary metaobolites. The extracts were screened for antiasthmatic activity by Milk induced Leukocytosis.

Milk Induced Eosinophilia in Mice, and Effect of Histamine on Isolated guinea pig ileum models.

The antiasthmatic activity was evaluated by various models in mice, the mice is pretreated with milk by consistent the antiasthmatic activity was evaluated by various models in mice, the mice is pretreated with milk by consistent the Leukocytosis and eosinophil count is measured, the results shows that there is increase in count. Extract the Leukocytosis and eosinophil count is measured, the results shows decrease in count. In solated shows given after 24 Hr. by i.p.route. After extract treatment there was decrease in count. In solated by the country was given after 24 Hr. by i.p.route. After extract treatment there was decrease in count. In solated by the country was given after 24 Hr. by i.p.route. After extract of the guinea pig illeum induced by the country was given after 24 Hr. by i.p.route. After extract of the guinea pig illeum induced by the country was a compared to other extracts of F. elephantum bank.

Petroleum ether extract shows significant activity as Petroleum ether extract shows significant activity as armed to evaluate antiasthmatic potential of bank of Fielephontum Petroleum ether extract and standard drug

of Elephantumhas shows significant activity as compare to other extract and standard drug cachesian. Activity of Feronia elephantum bark was performed by various models. The petroleum ether cachesian Activity of Feronia elephantum bark was performed by various models. The petroleum ether cachesian Activity of Feronia elephantum bark may be due to the presence of rich contents flavonoids and phenolic cachesian activity as compared to other extracts. All these findings reveal the antiasthmatic activity of the presence of rich contents flavonoids and phenolic cachesian activity as compared to other extracts.

Iniya.





Green Chemistry- Role in Environmental Protection

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FORMULATION OF HERBAL ANALGESIC AND ANTI-INFLAMMATORY OINTMENT FROM FICUS GLOMERATA LEAVES

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Abstract

Ficus glomerata plant belonging to family moraceae. The leaves was collected from chinchpur and authenticated by botanical survey of India (pune) . The hight of plant is 10 to 16 meters, the plant report various phytoconstituents glycosides, glucanol acetate, B-amyrin, B-sitosterol.

Analgesic and anti-inflammatory activities of petroleum ether and alcoholic estract of ficus glomerata leaves at dose of 50 mg/kg;100mg/kg body weight will evaluate against standard drug -pentrazocin lactate a dose of 10mg/kg body weight dult swiss albino mice of either sex of six numbers in each group ,was undertaken for study and evaluate by Eddys hot plate method and tail immersion test for analgesic activity. Albino rats of wistar strain of either sex of six number in each group ,will undertaken for study and evaluate by using carrageenan Rat Paw

Key words: Ficus glomerata, , B-amyrin, petroleum ether, anti-inflammatory activity

Principal



DEVELOPMENT AND EVALUATION OF "GOMUTRA" FORMULATION

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Abstract

Cow the domestic animal. Which is developed as god and its said that 33corer god. To be existing in cow.

The cow urine has been used form ancient time for curing ailments of human beings. It is importance and essential part of Panchgavya Chikitsa. Different Ayurvedic literature have mentioned its importance and uses for treatment of kushtha, kandu, Udarrog, colic, Abdominal tumour, Enlargement of the abdomen and Hutulence, for therapies such as decoction purgation, enema etc.

Many researches have also be done, which shows its use for treatment of skin diseases, Stomach diseases, Kidney diseases, Heart diseases, Stones, Diabetes, Liver problem, Jaundice, Athletes feet, cyst, Hemorrhoid etc. and show its Immunostimulant, Bioenhencer, Anticonvulsant, Anti cancerous Wound healing, Antioxidant and Antimicrobial properties. It is also useful in agriculture for preparation of termicompost and biopesticides. This review article will also collect the data from different Ayurvedic and modern literature. The article will also collect the data from all researches done on cow urine. Cow urine is excellent bioenhencer and recently cow trine distillate has been granted U.S patents. Public awareness is required to promote the importance and wide application of urine to importance their health and lifestyle.



ENT STATES THE

Green Chemistry-Role in Europeanmental Protection MARTENIA ANNUA LEAVES EXTRACT: PHARMACOGNOSTIC PHYTOCHEMICAL AND PHARMACOLOGICAL STUDY. POSSIBLE ROLE IN INFLAMMATION AND ANALGENIA

Vikite S.K., Nemal S.C., Jafhav J.S., Bansode SK, Wagh Vaishnavi, Thorac Vikita.

Department of Pharmacognosy, Prayara Rural College of Pharmacy, Loui, M.S. India Abstract

Plant Marquia annua Linn. (Marquiacene) is known as Tiger claw. Devils claw is English and Bicha in Bindi and Vincha in Marathi. Earlier claims show that the plants used in epilepsy, inflammation, tuberculosis, antiepilepsic, antisepsic, analysesic, puge for some throat, the least passe for wounds. The leaves has been claimed to contain sarold, carbohydran, tamins, flavonoid, glycrside, proteins, suponin etc. The plan extracts using preliminary use. Methanolic extract of the leaves showed the presence of alkaloids, tamins, glycosides, stemids, proteins, carbohydrates, and flavoroid. The present study was carried out analysis's activity using her plane method and her was: mil-immersion tests in mice and anti-inflammatory activity using by Carrageous induced paw edema method in russ. The Petroleum ether extracts, chierestrom extracts and methanolic extracts (50, 100 and 200 mg/kg, p.e.) showed an analgesic and antiinflammatory effect, which was significantly higher than that in the county mice ANOVA using Dunnette's multiple comparison tests

The observed pharmacological activities provide the scientific basis to \sup^{N^2} traditional claims as well as explore some new and promising leads.

Keywords: Marynic arms, estrer, Pharmacymey, Physioleonica, Pharmacylle Analysis Anti-inflammator, mice ANOVA

Principal



INNOVATION 2017

REGIONAL RESEARCH CONFERENCE FOR COLLEGE TEACHERS FACULTY OF SCIENCE AND TECHNOLOGY; DISCIPLINE: PHARMACEUTICAL SCIENCES

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D9

Formulation & Development of Herbal Tablet From Ficusbengalensis for Assessment of Antidiabetic Activity

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PRES's, Pravara Rural College of Pharmacy, Pravaranagar, Ahmednagar.

Abstract

The Ficus bengalensis is plant from family moracae. The plant is about 30m in height. The plant reports various phyto constituents like furocoumarin, flavonoids, and esters. According to Ayurveda, the plant is astringent to bowels and useful in treatment of biliousness, ulcers, vomiting, vaginal complains, fever, inflammations and leprosy. According to Unani system of medicine, the latex is aphrodisiac, tonic and useful in piles, nose-diseases and gonorrhea. The aerial root is use in syphilis, biliousness, dysentery and inflammation of liver. It is used in treatment of tooth ache, tooth picks, diabetes.

The leaves of ficus bengalensis collected from Loni, the plant is authenticated from M.P.K.V.Rhauri. The specimen is deposited in department, the leaves are shed dried and subjected for powder preparation. The powder is extracted with petroleum ether and methanol as solvent by using soxhlet apparatus. The leaves of ficus bengalensis was study for morphological and microscopical parameters. The extract obtain from petroleum ether and methanol was used fordetection of various primary and secondary metabolites. The extract shows presence of steroids, saponins, glycosides and tannins.



Current Prospects of Herbal Nutracontical as a Functional Food and Dictory Supplement

ISBN: 978-93-88441-65-9

A PHARMACOGNOSTIC STUDY ON ECLIPTA ALBA

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Tal: Rahata Dist: Ahmednagar 413736.

ABSTRACT

Eclipta alba commonly known as 'Bhringraj'. Family Asteraceae. Eclipta alba is a tree species found in Maharashtra, native to india and Sri, Lanka. Root well developed, cylindrical, greyish. Eclipta alba is an Annual plant growing to 0.6m by 0.6m. The Roots was studied for morphological as well as microscopical characteristics. The roots was also evaluated for different physical constant like ash value, moisture content and foreign matter. The transverse section of Eclipta alba roots was taken and these sections were stain with phloroglucinol and HCL, Sudan red III, Acetic acid, Dil. lodine solution. The microscopical study reports shows the presence of xylem, phloem, medullary rays, starch grains and calcium oxalate crystals. These histological characteristics present in the plant shows that the plant contains primary and secondary metabolites which having role in

Keyword :- Eclipta alba, microscopy, ash value, moisture contem and foreign matter, different diseases.

HERBAL NUTRACEUTICALS IN TREATMENT, PREVENTION OF CVS DISEASES

Principal



Current Prospects of Herbal Nutraccutical as a Functional Food and Dietary Supplement

ISBN: 978-93-884(1-6)4

A PHARMACOGNOSTIC STUDY ON MITRAGYNA PARVIFOLIA (ROXB.) KORTH

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Jadhav R. S.

Vikhe, D. N.

Department of Pharmacognosy
Pravara Rural College of Pharmacy,

Pravaranagar Tal: Rahata Dist: Ahmednagar 413736.

ABSTRACT

Mitragyna parvifolia commonly known as Kaim, Kalam, Kaddam. Family Rubiaces. Mitragynaparvifolia is a tree species found in Maharashtra, native to india and Sri. Lank. The plant reaches height 50 feet with a branch spread over 15 feet. The stem bark was studied for morphological as well as microscopical characteristics. The bark was also evaluated for different physical constant like ash value, moisture content and feeting matter. The transverse section of Mitragynaparvifolia stem bark was taken and their sections were stain with phloroglucinol and HCL, Sudan red III, Acetic acid, Dil. lodies solution. The microscopical study reports shows the presence of xylem, phlorid medullary rays, starch grains and calcium oxalate crystals. These histological metabolites which having role in different diseases.



IDENTIFICATION OF IMPORTANT SECONDARY METABOLITES FROM BAUHINIA RACEMOSA LINN

Mr. Akash B. Kanade Dr. Jadhav R. S. Mr. Dukre, T. P. Pravara Rural college of Pharmacy, Pravaranagar, Tal-Rahata, Dist-Ahmednagar Department of Pharmacognosy.

The Present study reports important secondary metabolites present in *Bauhinia Racemus Linn*. The *Bauhinia Racemosa Linn* belong to the family Luguminosae, it is popular, known as 'Aapta' in Marathi, Kanchnal in Hindi other common name include mountain abony and kachnar (India & Pakistan) The leaves are known to cure skin disease, thus troubles tumours chronic, dysentery, headache, malaria. The powdered Leaves we subjected for extraction by using petroleum ether chloroform, ethanol. These extract were evaluated for detection of various secondary metabolites, like Glycosides, Tannis. Terpenoides, Alkaloids. The preliminary phytochemical screening were done using various chemical test. The study show presences of Alkaloids, Tannins. These secondary metabolites having role in chronic disease as well as they act as source of nutrient. *Keywords-Bauhinia racemosa linn, Petroleum ether, Ethanol etc.*

Pravara Rural College of Pharmacy, Loni

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Current Prospects of Herbol Nutracontical as a Functional Food and Dietary Supplement

ISBN : 978-93-88441-65-0

FORMULATION AND DEVELOPMENT OF POLYHERBAL GRANULES AND ITS NUTRITIONAL CHARACTERIZATION

Miss Prachi Dighe Dr. R. S. Jadhav

Prof. T. D. Dukre

Dr. P. R. Rao

ABSTRACT:

The aim of the present study was to formulate and evaluate the pharmaceutical quality of polyherbal granules. Polyherbal formulation was prepared using hydroalcoholic extracts of Curcuma longa, Tinospora cordifolia, Withania somnifera to obtain the best formulation; in order to increase the acceptability and adoptability of herbal medicine. The objective of this research work was the conversion of extracted powder into stable, palatable and patient acceptable granules to swallow conviently by using granulation method, using suitabnle binding agents. The granules formulations will be optimised on the basis of acceptable flow properties of granules. The properties of developed herbal granule will be compared with corresponding marketed product. Developed granules will be tested for organoleptic evaluation.



Current Prospects of Barbal Nutraccutical as a Functional Food and Dictary Supplement

158N:9784934414846

A STUDY ON PHYTOCHEMICAL STUDY OF AZADIRACTA INDICA BARK

Miss. Gite Dipika U.

Jadhay Rayindra S.

Vikhe Sunayana R.

Department of Pharmacognosy Prayara Rural College of Pharmacy, Prayaranagar, Tal - Rahata, Dist - Ahmednagar, Maharashtra

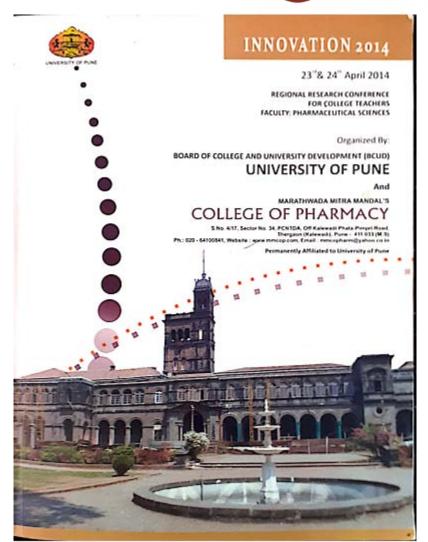
ABSTRACT

Acadiracta indica A. Juss (Meliareae) commonly known as Neem, is found throughout India and is known to have many wonderous properties from ancient times. These A. indica shows different medicinal properties like antiuloerogenic, hypoglycemic, insecticidal, spermicidal actions. The stem bark was studied for morphological as well as microscopical characteristics. The stem bark was evaluated for different physical constant like ash value, moisture content and foreign matter. The transeverse section of Acadiracta balica stem bark was taken and these section were stain with Phloroglucinol and HCL, sudan red III, dil.iodine solution. The microscopical study report shows the presence of histological characteristics present in the plant shows that the plant contain primary and secondary metabolites which having role in different diseases.

Keywords: Acadiracta indica, xylem, medallary rays, starch grains, phloem.

Principal
Pravara Rural College of Pharmac

Pravaranagar, A/p. Loni-413736



Principal



D 12:

Antiasthmatic potency of feronia Elephantum bark

Jadhay Rayindra Sahadu

Department of Pharmacognosy Pravara Rural College of Pharmacy Pravaranagar A/P -Loni, Tal-Rahata, Dist-Ahmednagar (M.S.) 413736

Abstract:

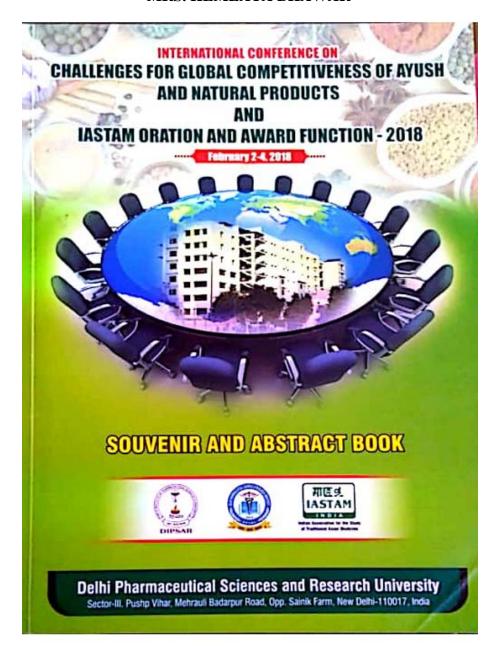
Feronia elephantum corea (rutaceae) have been used in the treatment of asthma traditionally and I therefore undertook this study to scientifically validate its benefit in asthma using various extracts and suitable animal models. Feronia elephantum is also called as feronia limonia, root bark contain chemical constituents bergapten, 6-meters tetrahydroxycoumarin and mannesin. The present work was undertaken to evaluate the traditionally recognized antiashmatic potency of feronia Elephantum bark, antihistaminic principle are known to be useful in the treatment eathlessy and haloperidol induced catalepsy in Swiss albino mice. Ethanol extract (50 mg/kg, i.p.) of the plant due to polar constituents.

Regional Research Conference for College Teachers, Faculty - Pharmaceutical Sciences





MRS. HEMLATA BHAWAR





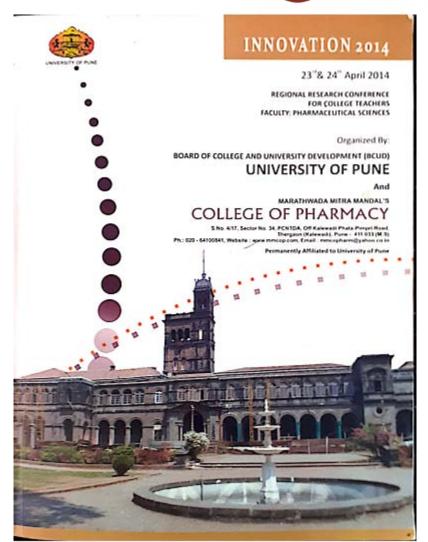
O-PEH9

PHARMACOGNOSTIC, PHYTOCHEMICAL AND PHARMACOLOGICAL EVALUATION OF LEAVES OF ABRUS

Bhawar Sanjay B. Bhawar Hemlata S., Nirmal Sunif A. Prayara Rural College of Pharmacy, Loni, A/P: Loni, Tal: Rahata, Dist: Ahmednagar, Pin code: 413736. Email: sbbhawar@gmail.com, sbbhawar@red.ffmail.com

Objective: The global prevalence of asthma is anticipated to be approximately 4.5 per cent. There are about 334 million patients with asthma affecting all age groups, across the world. The research study involves pharmacognostic, phytochemical and pharmacological evaluation of the leaves of Abrus precatorius for antiasthamatic, anticataleptic,

Method: Leaves of Abrus precatorius Linn, (Fabaceae) were used for studying pharmacognostical, phytochemical and pharmacological evaluation. For pharmacognostic evaluation microscopic evaluation, determination of physical constant such as Ash value, Extractive values in alcohol soluble extract and water, soluble extract were performed as per ip 1996, determination of moisture content were performed as per IP 1996. For preliminary phytochemical studies test for carbohydrate, protein, amino acid, steroids, glycosides, alkaloids, tannins, phenolic compounds and flavonoids were performed. For phytochemical evaluation different extract were prepared using leaves of Abrus precatorius and different solvents like petroleum ether, ethanol and water by using soxhlet extractor. The completion of extraction was confirmed by performing TLC. For pharmacological evaluation of extract male albino mice (Swiss Strain) weighing 22 – 25gm and guines pig weighing 100 - 120gm are used in group of 6 each. Mice were used for study clonidine and haloperidol induced catalepsy, milk (cows) induced leukocytosis, eosinophilia whereas guinea pig used for antiasthamatic activity. Result: Total Ash value was greater, water soluble Ash value was found lower than acid insoluble ash value and the result of extractive values shows higher value of polar compounds. Microscopic evaluation shows zones as periderm, secondar phioem, and calcium oxalate crystal and starch grain. In preliminary phytochemical test leaves extract showed presence of steroids, alkaloids, flavonoids. In TLC extract showed effective separation and presence of steroid nucleus, flavonoi and alkaloids. Ethanol extract was found to be effective in clonidine induced catalepsy at the dose 100mg/kg. There wa no significant inhibition in haloperidol induced catalepsy with Abrus precatorius leaves extracts, also shows decreasin



Principal



R 2

SYNTHESIS AND PHARMACOLOGICAL SCREENING OF SOME SULPHUR AND NITRO #35 CONTAINING HETEROCYCLIC COMPOUNDS,

MRs. Hemlata S. Bhawar, Dr. S.R. Pattan. Department of Pharmaceutical Chemistry. Pravara Rural College of Pharmacy. Pravaranagar A/P. Loni Dist. A.nagar

Abstract

- The present work deals with the method of synthesizing sulphur and nitrogen containing heterocyc substituted thiadiazole and thiazolidinedione and to study. Chemical characterization of the newly: someoneously LR, NMR spectral data and to evaluate these substituted thiadiazole and thiazolidinedic anti-diabetic, anti-tubercular activity. Total nine derivatives of thiadiazole and five derivatives of thiazolidinedic were synthesized and evaluated their anti-diabetic, anti-tubercular activity. Anti-tubercular activity is call Middle Brook 7H9 agar medium against H₂₁Rv strain and in vitro antidiabetic activity was determined by glucosidase enzyme. Some synthesized compounds were shown moderate to promising antityberally
- Key words: thaidiazole,thiazolidinedione

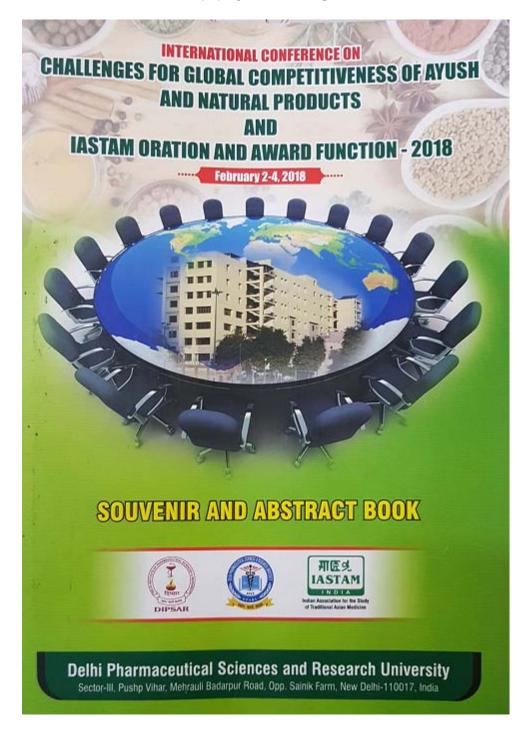
Regional Research Conference for College Teachers, Faculty - Pharmaceutical Sciences

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DR. NACHIKET DIGHE







economisions: considering our results, polyberbal formulation is an antiseptic and antibacterial property that would be a beneficial for humans who suffer from chronic Acne Vulgaris.

O-TNF23

FORMULATION CHARACTERIZATION AND EVALUATION OF HERBAL CINTMENT FOR WOUND HEALING ACTIVITY

Nachiket S Dighe¹, Sunil A Nirmal¹, Mayori Magare

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Objective: Plant extracts are having good application in wound healing. Extracts obtained from plants solanum nigrum and Argemone mexicana are used for wound healing in folk medicine. The present study attempts to develop and standardise yound healing ointment from extracts of S. nigrum and A. mexicana.

Methods: The effectiveness of product was evaluated using excision wound model, dead space wound model, various nzyme estimations, histopathological study in rats, antimicrobial study, finger print analysis and other physical evaluation f ointments.

esults: Results showed that formulation F4 is most effective amongst other formulations and the wound was completely ontracted in 12 days after application of formulation F4 to the wound. Ointment is well stable for a month in accelerated ability studies and HPTLC fingerprint proved incorporation of extracts into finished formulations. Results for extrusion, readability, viscosity and pH are within the limits.

anclusion: It can be concluded that ointment prepared from S. nigrum and A. mexicanais having good wound healing ility and is well stable.

O-TNF24

ANTIQUIDANT AND HEPATOPROTECTIVE ACTIVITY OF UNANI FORMULATION (SAFI) IN WISTAR ALBINO RATS.



MRS SUNAYANA VIKHE



ISBN: 978-93-87645-04 Green Chemistry- Role in Environmental Protection Green Chemistry- Role in Environmental STRACT: PHARMACOGNOSTIC PHYTOCHEMICAL AND PHARMACOLOGICAL STUDY. POSSIBLE ROLE IN INFLAMMATION AND ANALGESIA, PUSSIBLE ROLE, as a second of SS, Wagh Vaishnavi, Thomas SA, Andhav RS, Bansode SS, Wagh Vaishnavi, Thomas SA, Thomas SA, Carlotte SR, Wagh Vaishnavi, Thomas SA, Carlotte SR, Carlotte S Nikita.

Austrace Plant Marguite annue Linn. (Martyniaceae) is known as Tiger claw, Devils class; runs, seartyster arriver Land, (see the Marathi, Earlier claims show that the plant, English and Bichu in Hindi and Vinchu in Marathi, Earlier claims show that the plant, used in epilopsy, inflammation, unterculosis, antiepiloptic, antiseptic, analysis, and for sore threat, the leaf pasts for wounds. The leaves has been claimed to tout for sore threat, the leaf pasts for wounds. steroid, carbohydrate, tunnins, flavonoid, plycoside, proteins, suponin etc. The $\mu_{\rm big}$ extracts using preliminary test. Medianolic extract of the leaves showed the presented alkaloids, tannins, glycosides, steroids, proteins, carbohydrates, and flavonoid lipresent study was carried out analystic activity using hot plate method and het wastail-immersion tests in mice and anti-inflammatory activity using by Corregeous induced paw edema method in rats. The Petroleum ether extracts, chloroform extract and methanolic extracts (59, 100 and 200 mg/kg, p.o.) showed an analgesis and adinflammatory effect, which was significantly higher than that in the control mic-ANOVA using Dunnette's multiple comparison tests

The observed pharmacological activities provide the scientific basis to sugar traditional claims as well as explore some new and promising leads.

Keywords: Martyala assasa, extract, Pharmacognosy, Phytochemistry, Pharmacolog-Analgesic, Anti-inflammatory, mice, ANOVA.

Pravara Rural College of Pharmacy, Loni



Green Chemistry- Role in Environmental Protection ISBN: 978-93-87665-40-8

FORMULATION AND EVALUATION OF POLYHERBAL

ANTIDIABETIC TABLET

Nirmal Sunil A¹, Vikhe Sunayana R², Tambe Rupali V³, Mokate Rajesh D⁴.

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Email:rupalitambe1994@gmail.com

Abstract:

Objectives: The main objective of the work is to formulate and evaluate polyherbal antidiabetic tablet for antidiabetic purpose.

Method: The effect of ethanolic extract of polyherbal preparation containing aerial part of Momordica indica (fruits), Azadirachta indica (leaves) and Curcuma longa (rhizomes) was investigated in normal and streptozotocin induced diabetic rats. Wistar rats were divided into 6 groups (n=6) standard group received the metformin treatment group received the polyherbal extract. Blood glucose level were measure by cutting the tail tip of rat at the interval of 0,5,10,15,20. Formulated tablet was evaluated for dissolution , disintegration , friability , weight of active constituents and hardness. Results: The lowering of blood glucose level were observed after administration of polyherbal formulation. Antidiabetic activity of polyherbal formulation was compaired with the standard drug metformin. Results were analyse statistical significance value p<0.05. Polyherbal formulation is effective for antidiabetic activity. Conclusion: Polyherbal tablet of Momordica indica, Azadirachta indica and Curcuma longa shows significant antidiabetic activity.



Current Prospects of Barbal Nutraccutical as a Functional Food and Dictary Supplement

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A STUDY ON PHYTOCHEMICAL STUDY OF AZADIRACTA INDICA BARK

Miss. Gite Dipika U.

Jadhav Ravindra S.

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Department of Pharmacognosy Pravara Rural College of Pharmacy, Pravaranagar, Tal - Rahata, Dist - Ahmednagar, Maharashtra.

ABSTRACT

Azastiracta indica A. Juss (Meliaceae) commonly known as Neem, is found throughout India and is known to have many wonderous properties from ancient times. These A indica shows different medicinal properties like antiuloerogenic, hypoglycemic. insecticidal, spermicidal actions. The stem bank was studied for morphological as well as microscopical characteristics. The stem bark was evaluated for different physical constant like ash value, moisture content and foreign matter. The transeverse section of Azadirocia budies stem bark was taken and these section were stain with Phloroglacinol and HCla sudan red III, dil.iodine solution. The microscopical study report shows the presence of xylem, phloem, medullary rays, starch grains and calcium oxalate crystals. These histological characteristics present in the plant shows that the plant contain primary and secondary metabolites which having role in different diseases. Keywords: Azadiracto indica, xylem, medullary rays, starch grains, phioem.



MR. S D MAGAR



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SIGNIFICANCE OF STEREOCHEMISTRY ON BIOLOGICAL

ACTIVITY

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Pravara Rural College of pharmacy, Loni, Tal-Rahata, Dist-Ahmednagar. (M.S.)

Abstract

The stereochemistry is gaining prime importance in pharmaceutical practice. As a result of advancement in chemical technologies associated with the synthesis, separation, identification and analysis of single enantiomer present in racemie compound, a single enantiomer for approval to regulatory authorities. Rather to introduce a racemic compound, a single enantiomer always have better selectivity on receptor result in superior therapeutic action with less metabolic load and less side effects. The enzymes or amino acids or binding site have long been recognized to be stereoselective which is considered in chiral drug development. Each enantiomer interacts differently with the receptor, elicits the response differently and potency of enantiomer depends on the eudismic ratio or eudismic index or stereospecific index on the compound. Therefore eudismic ratio is also an important tool in chiral drug designing. The issued related to endismic ratio are presented in this review article and it facilitates us for single enantiomer development.

Keywords: Enatiomers, Eudismic ratio, Stereoselectivity, chiral drug, eutomer, distomer.

Prayara Rural College of Pharmacy, Loni

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APPLICATION OF NANO CHEMISTRY IN MEDICINE

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Abstract

The use of nanotechnology in medicine offers some exciting possibilities. Some techniques are only imagined, while others are at various stages of testing, or actually being used today. Nanotechnology in medicine involves applications of nanoparticles currently under development, as well as longer range research that involves the use of manufactured nano-robots to make repairs at the cellular level (sometimes referred to as nanomedicine). Whatever you call it, the use of nanotechnology in the field of medicine could revolutionize the way we detect and treat damage to the human body and disease in the future, and many techniques only imagined a few years ago are making remarkable progress towards becoming realities.

Keyword: Nanotechnology, graphene, Nano robot, fullerens.

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TO STUDY IN-VITRO UROLIATHIASIS ACTIVITY OF **DENDROPHTHOE FULCATA**

Magar Sagar D*1, Waghule Ganesh S., Pawar Gangadhar V. Department of Pharmaceutical Chemistry, Pravara Rural College of Pharmacy, Loni, MS, India-413736. | Contact. No.9503047276 E-mail-sagarmagar2010@gmail.com

ABSTRACT

The leaves of plant Dendrophthoe falcata were selected for present study the plant was collected from rural area of Shrirampur. The fresh leaves are dried under sunlight up to 4-5 days. Then powdered with the help of electric grinder and extracted with Alcohol, Pet ether, Water for 24hrs by using Soxhlet apparatus successively with various solvent are removed under reduced pressure. Extract are concentrated to dryness at controlled temp. Dried powder drug are evaluated for amount of drug extracted during

process of extraction and % of extraction of drug in various solvent are also calculated. Then preliminary phytochemical sceerining were performed and microscopic and characters were studied compound, microscopic characters also studied. Dried powdered drug contain only Flavonid.Galic acid,Pentacyclic triterpenoid,saponin glycoside. Microscopic study also performed for fresh leaves using Sudan Red and Phloroglicenol:HCl Keywords: - calcium oxalate, crystallisation,

Dendrophthoe falcate, urolithiasis





MR. DATTAPRASAD VIKHE





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TO STUDY THE ANTICANCER POTENTIAL OF PLANT

DYEROPHYTUM INDICUM LEAVES (PLUMBAGINACEAE)

Dattatraya S.Bhosale, Dattaprasad N. Vikhe*, Tushar P.Dukre, Sunil A. Nirmal

Department of Pharmacognosy,

Pravara Rural College Of Pharmacy, Pravaranagar-413736

ABSTRACT

Recent investigation aims to check the anticancer potential of plant dyerophytum indicum, Plants were authenticated; collected, dried and aqueous extract was prepared by using organic solvents like ethanol. The morphological and microscopical characteristics of leaves were studied. The active constituents were separated by using TLC and Column Chromatography, Aqueous extracts of above mentioned Plant were standardized by using GC-MS. The pharmacological screening were done by using invitro models such as Onion tip root and potato disc assay method, In preliminary phytochemical test the leaves extract showed presence of carbohydrate, alkaloids, flavonoids, tannins and terpenoids. Fraction F1 and F4 was found to be significantly effective in all the models for anticancer activity. Thus, Results of the study stated that the ethanol extract of Leaves of D. indicum O. krze., possesses the anticancer activity. n-hexadecanoic acid is anticancer agent responsible for anticancer activity. Key words: dyerophytum indicum, Tl,C, GC-MS, anticancer activity. n-hexadecanoic



Current Prospects of Herbal Nutracontical as a Functional Food and Dictory Supplement

ISBN: 978-93-88441-65-9

A PHARMACOGNOSTIC STUDY ON ECLIPTA ALBA

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Jadhay R. S.

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ABSTRACT

Eclipta alba commonly known as 'Bhringraj'. Family Asteraceae. Eclipta alba is a tree species found in Maharashtra, native to india and Sri, Lanka. Root well developed, cylindrical, greyish. Eclipta alba is an Annual plant growing to 0.6m by 0.6m. The Roots was studied for morphological as well as microscopical characteristics. The roots was also evaluated for different physical constant like ash value, moisture content and foreign matter. The transverse section of Eclipta alba roots was taken and these sections were stain with phloroglucinol and HCL, Sudan red III, Acetic acid, Dil. lodine solution. The microscopical study reports shows the presence of xylem, phloem, medullary rays, starch grains and calcium oxalate crystals. These histological characteristics present in the plant shows that the plant contains primary and secondary metabolites which having role in

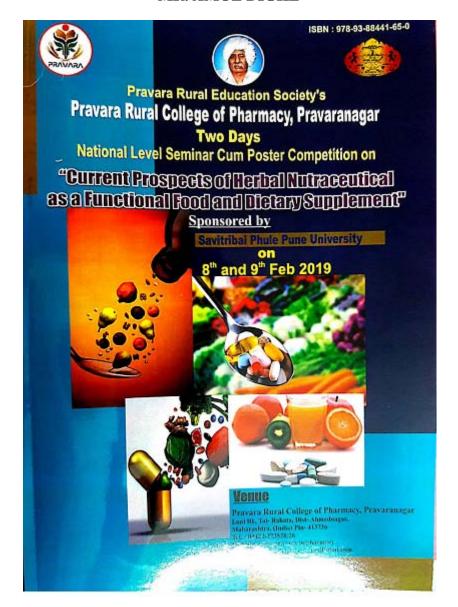
Keyword :- Eclipta alba, microscopy, ash value, moisture contem and foreign matter, different diseases.

HERBAL NUTRACEUTICALS IN TREATMENT, PREVENTION OF CVS DISEASES

Principal



MR. AMOL DIGHE



Current Prospects of Herbat Natraceutical as a Functional Food and Dictary Supplement

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SIMULTANEOUS ESTIMATION OF SIMVASTATIN AND LABETALOL IN BULK AND SOLID DOSAGE FORM

Dr. Shankar M. Dhobale

Mr. Akhil A. Shinde Vishal Institute of Pharmaceutical Education & Research, Ale Tal: Junnar Dist: Pune 412411 Maharashtra India.

ABSTRACT

A simple, accurate, precise, sensitive, and highly selective ultra violet spectrometer A simple, accurate, proceedings of the simultaneous estimation of simulatatin and labetalol in method has been developed for the simultaneous estimation of simulatatin and labetalol in method has been developed in the catimation of simvastatin was carried out at 239 nm while bulk and solid dosage form. The estimation of simvastatin was carried out at 239 nm while bulk and solid description of the developed method was validated for linearity range, precision, recovery studies and interference study for mixture, all these parameter showed the adaptability of the method for the method quality analysis of the drug in bulk and combination formulation.

Key Words: Simvastatin, Labetalol, UV Spectrophotometric, Dosage form.

SYNTHESIS AND ANALYSIS OF SOME SUBSTITUTED NEW PYRAZOLINE DERIVATIVES OF BIOLOGICAL INTEREST

Amol S Dighe Waghchaure Akshada

Prayara Rural College of Phos

Jaggi Simran Pilgar jayshree

Department of Pharmaceutical Chemistry, Pravara Rural College of Pharmacy, Pravaranagar, Loni, Maharashtra, India

The synthesis, structure and biological activity of Pyrazoline derivatives have long been the focus of research interests in the of Medicinal Chemistry. A number of Pyrazoline derivatives are reported to possess fascinating biological activities like Antimicrobial, and Anti-tubercular etc. In the present proposal, substituted Benzaldehyde was made to react with various Aromatic substituted ketones to yield different Chalcones. Chalcones so prepared were further allowed to react with Hydrazine Hydrate in the presence of Ethanol and Glacial acetic acid to get Pyrazoline derivatives, further Mannich reaction was carried out to give Mannich base (A1 - A16) all synthesized compound were characterized by IR, H-1-NMR and CHN Analysis.

All the compounds were evaluated for bactericide at the concentration of two hundred μeg/ml. by victimisation cup-plate agar diffusion methodology. The activity was allotted on completely different micro-organisms (E.coli, S.aureu,) measured in terms of zone of inhibition and compared the standard drug Ciprofloxacin.

The Antitubercular screening was allotted by Middle brook 7H9 agar medium against H37Rv Strain. Middle brook 7H9 agar medium victimization antibiotic as a regular.

The Pyravoline have the strain of the Pyravoline have the strain of the Pyravoline have the strain of The Pyrazoline have shown considerable activity at high concentrations. Taese compounds with the compounds with the acceptable molecular modification could prove as a drug of selection within the treatment of microbic communicable disease in future.

KEYWORDS: Pyrazoline, Anti-tubercular and Antimicrobial activity

ABSTRACT:

A simple and more economic RP-HPLC method was developed and subsequently validated for the simultaneous determination of Metformin and Dapagliflozin in bulk and pharmaceutical dosage form. The chromatographic conditions were standardized using a Cosmosil C18 column with 250mm in length and internal diameter of 4,6mm with size 5µm. The analyte detection was carried out by using a UV detector set at a wavelength of 228 nm. The mobile phase consisted of Methanol : Potassium dihydrogenphosphate buffer (80:20% v/v) and retention time of Metformin and Dapagliflozin was found to be 3.6 min and 5.2 min respectively. The calibration curves of two drugs were linear with correlation coefficients of 0,999 and 0,998 over a concentration range of 100-500µg/ml for Metformin and 1-5µg/ml for Dapagliflozin. This method has been validated and shown to be accurate, precise, specific, sensitive, linear, robust and fast, Metformin and Dapagliflozin were subjected to different degradation stress conditions. The degradation products were well resolved from that of pure standard drugs (Metformin and Dapagliflozin) with significant different retention time values. The current method has been statistically validated according to the ICH guidelines and this method has been subsequently developed and applied successfully to determine the levels of Metformin and Dapagliflozin in a combined formulation and in the routine quality control analysis with good accuracy and

Keywords: Dapagliflozin, Metformin hydrochloride, RP-HPLC.

SYNTHESIS OF SOME SUBSTITUTED QUINAZOLINE MOIETIES FOR EASY DERIVATISATION

Amol S. Dighe Ankita R. Pawar Shital b.Thakare Suvarna L. Sansare Department of Pharmaceutical Chemistry, Pravara Rural College of Pharmacy, Loni, India-413736.

ABSTRACT

Quinazoline is an aza derivative of the quinoline, it is also known as 1,3-diazanaphthalene. It has broad spectrum of activity which are anti-inflammatory, anti-bacterial, anti-microbial, anti-HIV, anti-cancer, and many more due to these biological effects it has drawn more interest in synthesis and derivatization of this moiety as much as possible. As the quinazoline is a promising molecule we have focused on the synthesis of this moiety by various ways.

Key words: Quinazoline, Quinazolinone, Quinazolone.

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CYTOCHROME OXIDASE ENZYME- ITS ROLE IN DRUG METABOLISM- REVIEW

Amol S. Dighe^{a1}, Jayshri S. Aher², Monali B. Tambe²

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ABSTRACT:

Oxidation is probably the most common reaction in xenobiotic metabolism. This reaction is catalyzed by a group of membrane bound monooxygenases found in the smooth endoplasmic reticulum of the liver and other extra hepatic tissues, called the cytochrome P450 monooxygenase enzyme system.CYP450 functions as a multicomponent electron transport system responsible for the oxidative metabolism of variety of endogenous substrate such as the steroids, fatty acids, prostaglandins, and bile acids, exogenous substrates including drugs, carcinogens, insecticides, plant toxins, environmental pollutants, and other foreign chemicals. The Enzyme systems carring out this biotransformation are referred to as mixed-function oxidase or monooxygenase. The versatility of Cytochrome P-450 in carrying out a variety of oxidation reaction on a multiple forms of the Enzyme. The reaction requires both molecular oxygen and the reducing agents NADPH. The Mixed function oxidase system is actually made up of several; components, the most important being the super family of Cytochrome P-450 enzymes. The Presence of this enzyme in many other tissues has drug-Oxidizing capability too.

Keywords- CYP450, P450



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Green Chemistry- Role in Environmental Protection

BUCKYBALLS

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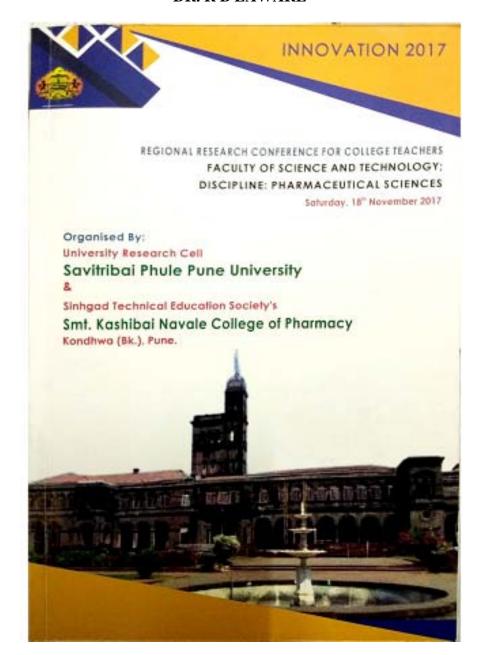
ABSTRACT:

Buckyballs / Fullerenes are molecules composed entirely of carbon that were discovered in 1985 at Rice University. Ever since their experimental discovery in 1985, fullerenes have attracted considerable attention in different fields of sciences. Investigations of chemical, physical and biological properties of fullerenes have yielded promising information. Their unique carbon cage structure coupled with immense scope for derivatization makes fullerenes a potential therapeutic agent. Henceforth various potential therapeutic applications of fullerenes have been reviewed in the present paper. These include antiHIV- protease activity, photodynamic DNA cleavage, free radical scavenger, antimicrobial action and use of fullerenes as diagnostic agents. Their synthesis is also an challenging task, once synthesized they have various applications, thus we would explore buckyballs as much as possible.

Keywords: Bucky balls, synthesis, therapeutic application.



DR. R B LAWARE





A 19 Re-exploring Antimalarial Potential of Curcumia by Forest

Ravindra B. Laware

Pravara Rural College of Pharmacy, Pravaranagar, Ahmodnagar

Abstract

Drug resistant malarial infection is posing serious problem in effective cases of malaria worldwide. Curcumin is found to possess broad range of therepair activities including modest antimalarial activity. Curcumin with atensin derivatives had proved very effective in treating drug resistant maleis infection. But curcumin has problem of poor aqueous solubility, stability ad bioavailability. The ability of curcumin to complex with transition metals is been used to overcome above problems. The present study was aimed to synthesize curcumin-Zn complex and evaluate it for antimalarial activity Curcumin-Zn complex was prepared using curcumin and zinc subtile Characterization of both curcumin and its zinc complex was done by UV, FIB and 1H NMR spectroscopy. The solubility of curcumin and curcumin-licomplex was evaluated using solubility equilibrium method in 0.1 N HO. phosphate buffer pH 6.8 and phosphate buffer pH 7.4. Solubility value for curcumin were 0.69, 1.01 and 2.61 μg/mL, while solubility of curcumin I were 1.82, 5.38 and 8.57 μg/mL respectively in 0.1N HCl, phosphate buffer pl 6.8, phosphate buffer pH 7.4. The solubility of curcumin-Zn complex of found to be increased significantly. The stability of curcumin and curcumin D complex was evaluated in phosphate buffer pH 7.4. The % residual amount remaining after degradation at various time were determined. After 12 hrs. 16 residual amount in the solution was found 97.16 and 47.19 % respectively fit Curcumin was extensively degraded while curcumin-Zn and curcumin. curcumin-Zn complex showed good stability in phosphate buffer pH 7.4.

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Curcumin-zn -artemether combination therapy for plasmodium berghei infected mice Bhanudas S. Kuchekar I and Ravindra B. Laware*2

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Studies have shown that a new combination therapy with arternismin derivatives and curcumin is unique, with potential advantages over known Artemisinin Combination Therapy (ACT). The problems of poor solubility, stability and bioavailability of curcumin can be overcome by preparing curcumin relationables. In present study curcumin-Zn complex was prepared using zinc sulphate and evaluated for antimalarial activity in combination with artemether. The mice survival and % parasitemia were studied in Plasmodium berghei (P. berghei) infected albino mice treated with curcumin, curcumin-Zn complex and combination of curcumin-Zn with artemether. Oral administration of curcumin-Zn-stemether prolonged the survival of P. berghei infected mice. All themice treated with Curcumin-Zn-stemether prolonged the survival of P. berghei infected mice. All themice treated with no detectable parasitemia. Administration of curcumin-Zn-artemether combination reduced the parasitemia in mice more effectively compared to that in mice treated with a single drug. In vivo antimalarial activity of curcumin-Zn complex was found superior to curcumin. A single dose of 1000 µg of artemether in combination with curcumin-Zn gives complete protection in P. berghei infected mice. Such suppressive action was superior to that of administration of single drug at the same dose.

Keywords: Artemether, curcumin, curcumin-Za, mice survival, % parasitemia

Determination of Bioactive Components of Cynodon dactylon by GC-MS Analysis & It's In Vitro Antimicrobial Activity

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Cynodon dactylon (L.) Pers. (family –Poaceae), is traditionally used for curing different aliments. Hence the present investigation was carried out to determine the possible chemical components from C. dactylon leaves by GC-MS Technique. This analysis revealed that C.dactylon leaves contain 2-Propanol, 1-hydrazino- (24.37%), Glycerin (3.45%), n-Hexadecanoic acid (14.90%), Hexadecanoic acid, ethyl ester (1.83%), 1-Triacontanol (12.88%), 9.12-Octadecatrienoic acid (Z.Z), Phytol (5.52%) and Stigmasterol (6.68%) justifying the use of this plant to treat many aliments in folk and herbal medicine. The in-vitro antibacterial activity of Cynodon dactylon (L.) Pers. extract in ethanol was carried out by using the well diffusion method. The Streptomycin (100µg/ml) was used as Standard Control antibacterial agent. The antibacterial activity was investigated by using different test organisms. The Zone Diameter of Inhibition and the diameter of the well were recorded. Each assay was carried out for each test organisms used in this project work. Staphylococcus aureus, Escherichia coli, Salmonella typhi & Streptococcus pyogens show nearly equal Zone of Inhibition with respect to Streptomycin.

Keywords: Cynodon dactylon, GC-MS Analysis, Antimicrobial Activity, Glycerin, Phytol, Stigmasterol, Streptomycin

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MRS HEMLATA BHAWAR







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ANTHELMINTIC ACTIVITY OF HIBISCUS CANNABINUS SEED EXTRACTS

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pepartment of Pharmacognosy, Pravara Rural College of Pharmacy, Pravaranagar

1BSTARCT

The aim of the present study was to investigate the anthelmintic activity of Hibbsens' combiner seed extract using adult earthworm, Pheritima posthuma. The petroleum ether, ethylecure and methanol extract of the crude drug at concentrations of 10mg/ml, 20mg/ml, 30mg/ml, finglinl were tested which involve determination of paralysis time and death time. Albendazole as used as standard and it was found that the concentrated methanolic extract (with no traces of then) of the Hibbsens commobiling seeds showed a better anthelminthic activity in comparison the standard.

Unwords: Hibireus cannobinus, Pheritima posthuma, Albendazole, methanol extract

^{So_{rel}} Advances in Therapeutic Equivalence Evaluation & Drug Approval Process in India.

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DR. NACHIKET DIGHE



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Design, synthesis and anti-depressant activity of some novel coumarin derivatves

Nachiket S. Dighe*1, Dhananjay L. Tambel, Sunil A. Nirmal 2 1Department of Pharmacoutical Chemistry, Pravara Rural College of Pharmacy, Loni, MH 2Department of Pharmacognosy, Pravara Rural College of Pharmacy, Loni, MH



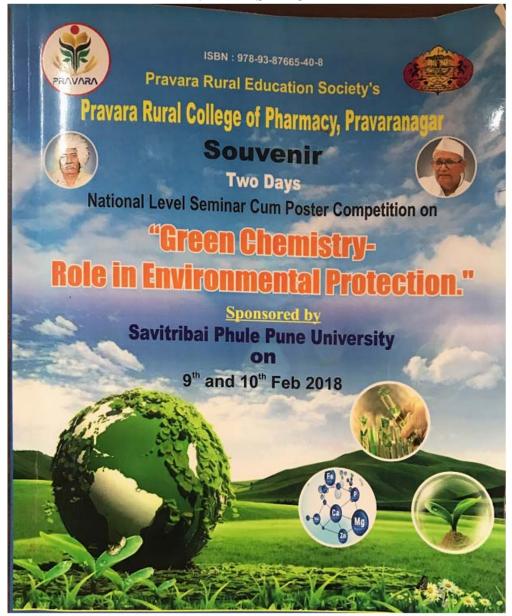
The present research work deals with the synthesis, characterisation and to evaluate the synthesized compound for antidepressant activity of a series of commarin derivatives. Basic commarin is prepared by Perkin reaction, which further reacted with anyl thiourea by cyclization reaction leads to produce 3-(2-(phenylaminothiazol-4-yl)-2H-chromen-2-one. Totally twelve compounds, were synthesized by conventional method and their purity was determined by TLC and they were characterized by IR and NMR spectroscopic methods. Antidepressant activity of all the synthesized compounds was evaluated by despair swim test by using Sprague Dawley Rats. Standard drug Imipramine was used as the control. In the despair swim test, all the synthesized derivatives showed antidepressant activity. Among them three Compounds (A4, A5 and A9) showed significant antidepressant activity comparing with control drug imipramine and some compound shows mild antidepressant activity. These results are useful for the further investigation in the future.

Keywords: Antidepressant activity, Commarin, Despair swims test, Perkin reaction, and Sprague Dawley Rat.

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MR. MAHESH KOLHE





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DEVELOPMENT AND VALIDATION OF STABILITY INDICATING RP-HPLC METHOD FOR SIMULTANEOUS ESTIMATION OF PREGABALIN AND ACECLOFENAC IN BULK AND PHARMACEUTICAL DOSAGE FORM

Mahesh.H.Kolhe*, Archana K.Kolekar, Sudarshan B.Kakad, Arti M. Jadhav Department of Pharmaceutics, Pravara Rural College of Pharmacy, Loni, India 413736.

ABSTRACT

A simple, precise and reproducible Reverse Phase High Performance Liquid Chromatography method was developed and validated for simultaneous estimation of Pregabalin and Acceloferac in tablet dosage form.Chromatographic separation was achieved by Grace C_{18} (250 mm $\,$ x 4.6 ID , Particle size- 5 micron) column and methanol I water (60:40v/v) as mobile phase, at a flow rate of 1 ml/min (millifitre per minute) using UV detection at 216nm. Forced degradation experiments were carried out by exposing Aceclofenac and Pregubalin standard and sample for thermal, photolytic, oxidative and acid-base hydrolytic stress conditions. The retention time for Aceclosenac and Pregabalin were obtained as 6.87min and 8.08min, respectively. The method has been validated for linearity, accuracy, precision, LOD, and LOQ. Linearity of Aceclofenac and Pregabalin were found to be 10-50µg/ml.(R2-0.996) respectively. The accuracy of present method was evaluated at 50%,100%,150%. Recovery was found to be in a range from 99.80%-100.10% for both of the drugs. Intermediate precision studies were carried out and the RSD values were less than 2%.Lower values of LOD (0.19µg/ml) and LOQ (0.59µg/ml) indicated good sensitivity of the method.In this study, the optimization of mobile phase, flow rate, injection volume and wavelength were achieved. This demonstrate that the developed method is simple, precise, accurate and robust for simultaneous estimation of Aceclufenae and pregabalin in tablet dosage form. The method was acceptable for degradation studies of heat, sunlight, acid, base, peroxide which meet the acceptance criteria for forced degradation

Keywords: Aceclofenac, Pregabalin, RP-HPLC, Validation.

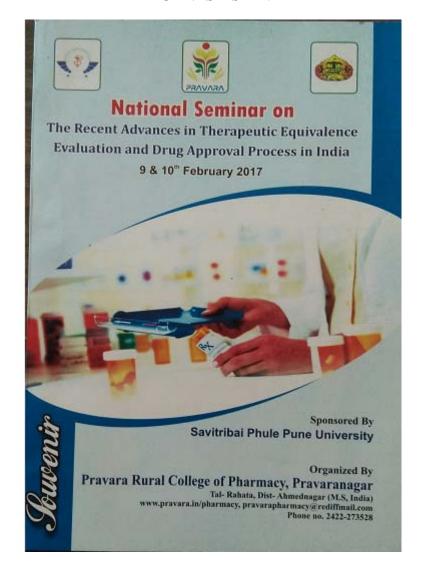
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QUANTITATIVE ESTIMATION AND VALIDATION OF ATENOLOL AND AMLODIPINE BESYLATE BY ABSORBTION RATIO METHOD. SHINDE GANESH, GODGE.R.K, SHEJUL MAHESH

ABSTRACT

The simple, rapid, accurate, precise, cost effective, and reproducible UV spectroscopic petrol have been developed for the simultaneous estimation of aterolol and amindipine besylate stells and combined tablet dosage form. Atended and amissions have absorption maxima at 21 md 218.2 nm respectively. Beer's law obeyed in concentration range of 2-24 µg ml and 2-34 and fire ATN and AMN respectively. The method of Q analysis is based on measurement of peoplivity at 224 nm and at iso-isorptive point 232.2 nm. The recovery studies from tablet are picative of accuracy of method and are found in between 99.87-101.43 % at three different not of standard additions. Precision studies showed satisfactory results. A novel approach to of 0.1N HCL as solvent is proved to be beneficial with respect to cost, stability and avoidance d'organic solvent.

Key Words: Atended, Amiodipine Besylate, UV Spectroscopy , Q analysis .

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METHOD DEVELOPMENT AND VALIDATION OF ASSAY OF ATENOLOL IN TABLET FORMULATION BY UV-VISIBLE SPECTROPHOTOMETRIC

Gunjal.U.N 1, Borkar.Y.P1, Autade.S.K 1, Shinde.G.S 1,

 Pravara Rural College of Pharmacy, Pravaranagar Department of Pharmaceutical Chemistry, Tal-Rahata. District -Ahmedragar (M.S.)

A simple, sensitive, specific, and validated UV method has been developed for the quantitative determination of Atenolol in pure and tablet dosage form. The Arnax was found to be 226 nm for assay. The linearity was found in concentration range of 0-150µg/ml. The correlation coefficient was found 0.999. The regression equation was found as $y = 0.004x \pm 0.007$. The method was validated for linearity, accuracy, precision and System suitability. The LOD and LOQ for estimation of Atended were found as 2.088 &6.329 respectively. Recovery of Atendol was found to be 99.12%. Keywords: Atenolol, UV Spectrophotometry, Validation, Beer "slaw



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Effect of GST in Economic Development of Pharma Sector

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stract

The cascading effect of tax on which prevailed prior to the poduction of VAT was constructed and revised on 1st 12005. It is over a decade past introduction of VAT which is a ti-stage tax system levied at each ge of production and distribution cess. It is now realized that there is strong necessity to amend the ting tax rates and make it omplicated and dynamic for the

India, on the Pharmaceutical industry. The focus has also been set to identify and analyze the "now and later" tax structure and its impact on the business of Indian Pharmaceutical industry.

Key words – Goods and Service Tax (GST), Indian Pharmaceutical Industry, Research, Value Added Tax (VAT), Central and State Government.

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A REVIEW ON BIOLOGICAL POTENTIAL OF ACHYRANTHES ASPERA

Mr. G. S. Shinde Dr. D. H. Nandal Department of Pharmaceutical Chemistry Pravara Rural College of Pharmacy Pravaranagor A/P- Loni Bk, Tal- Rahuta Dist. - Ahmednagar (M.S.) 413736

Adaptathes aspera is an herb in amoranthoceae family, traditionally used in treatment of geveral diseases (inflammation, diabetes, hypertension, wounds, pain, preumonia, dambes, dysentery, asthma, cough, dropsy, ulcors, piles, rheumatism, scabies and other gen diseases, and fever etc).

The medicinal plants are used for treatment of various diseases because of their safety and effectiveness. Though almost all of its parts are used in traditional systems of medicines, seeds, roots and shoots are the most important parts which are used medicinally. The gajor chemical constituents are carbohydrates, protein, glycosides, aftaloids, tarnits, appoints, flavoides, lignin etc. The phytochemical constituents have been isolated from the plant which possesses activities like antiperiodic, diaretic, purgative, laxative, artiasthratic, hepatoprotective, anti-allergic and various other important medicinal properties.

The plant is used in indigenous system of medicine as emenagogue, antischritie, artifertility, lavative, echolic, abentifacient, and anti-helminthic, aphrodisiae, antisiral, anti-plasmodic, and antihypertensive, anticoagulant, disretic and anti-tumor. It is also useful to treat cough, renal dropsy, fistula, scrofula, skin rash, nasal, infection, chronic malaria, impotence, fever, asthma, piles and snake bites. This plant is astringent, digestive, disretic, lexative, purgative and stomachic. The juice of the plant is used in the treatment of boils, diarrhea, dysentery, hemorrhoids, rheumatic poins, loches and skin eruption.

Key words- Achyranthes aspera

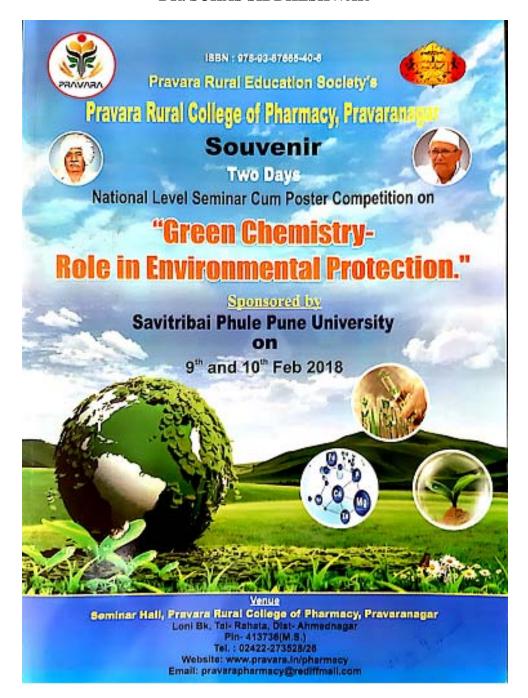
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DR. SUHAS SIDDHESHWAR







Green Chemistry- Role in Environmental Protection ISI

ISBN: 978-93-87665-40-8

CHALLENGES AND OPPORTUNITIES IN GREEN CHEMISTRY

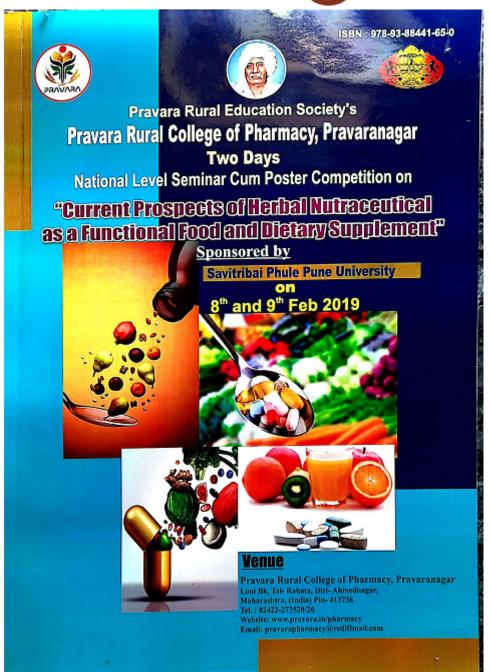
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Abstract

Green chemistry is a philosopy and study of the design of products or substances that will not involve materials harmful to the environment. It is modern science of chemistry that deals with the application of environmentally friendly chemical compounds in the various areas of our life such as industrial uses and many others. This area of chemistry had been developed by the need to avoid chemical hazards that organic and inorganic compounds had on the body of humans and animals. The fundamentally attractive concept of green chemistry is solvent free reactions, solvent free reactions can be accelerated by microwave activation and this combined clean technology approach to "greening" chemical reactions.

Key Words: Green Chemistry, Solvent free reaction, Microwave activation, Environment.

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Current Prospects of Herbal Nutraccutical as a Functional Food and Dietary Supplement

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ANTACID SUSPENSION CONTAINING HERBAL NUTRACEUTICALS (TO MAINTAIN NUTRITIONAL BALANCE)

Mr. Tushar Khandare Dr. Suhas Siddheshwar Mr. Mahesh Shejul Prayara Rural College of Pharmacy, Prayaranagar, Tal-Rahata, Dist-A.nagar

ABSTRACT

Many people in the world suffer from peptic ulcers because of the excess acidity. Although many medications are currently available for the management of gastric ulcers and as an Antacid preparation, prolonged use of Antacid drugs may leads to series of adverse effects such as Vitamin B12 deficiency, constipation and imbalance of nutrition. To overcome this problem of nutritional deficiency as well as to reduce stomach acidity the prepared antacid suspension containing herbal nutrition such as Glycyrrhiza glabra , Pedalium murex L, and vitamin B complex to maintain the nutrition balanced in acidity induced peptic ulcer.

The need of the prepared formulation is to get both effects as to overcome gastric ulcerative problems in effect of balanced nutritional value.

The prepared formulation is evaluated for various la-vitro test and compared with marketed formulation and It was found that the prepared formulation containing Glycyrrhiza glabra, Pedalium murex L is robust and shows a good acid neutralizing capacity with good nutritional balancing.

Key Words: Ulcer, Antacid, Glycyrrhiza glabra, Pedalium murex L, Vitamin B-Complex

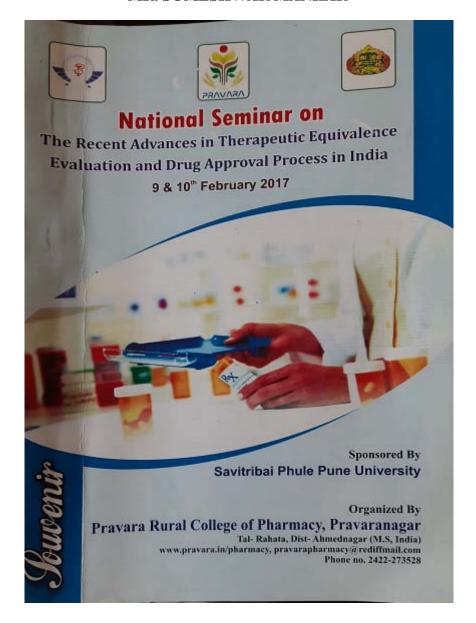
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MR. SOMESHWAR MANKAR



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FORMULATION AND EVALUATION OF ETHYL CELLULOSE MICROSPHERE OF GLIPIZIDE

S.D.Mankar, S.S.Siddheshwar, A.R.Dale

Department of Pharmaceutics, PRES'S Pravara Rural College Of Pharmacy, Pravaranagar, 413736 Tal: Rahata, Dist: A.Nagar, Maharashtra, India

ABSTRACT:

Glipizide is used in treatment of diabetes mellitus. In the present study an attempt was made to develop a new sustained drug delivery for Glipizide microspheres by using polymer Ethyl cellulose to improve patient compliance and safety. The microspheres were prepared by solvent evaporation method and characterized by using scanning electron microscope. Sustained release formulation of Glipizide in the form of microspheres was developed to a satisfactory level in term of drug release, content uniformity and micromerities properties. The compatibility level in term of drug release, content uniformity and micromerities properties. The compatibility studies were done by IR spectroscopy. The comparison of IR spectrum of drug, excipients and product implies that there was no interaction between drug and polymers and they are compatible with each other. The micromeritic data showed that there was not much significant difference in the sum of angle of repose, bulk density and porosity. The in-vitro release profiles of microspheres term of angle of repose, bulk density and porosity. The in-vitro release profiles of microspheres are profiles of microspheres by using polymer Ethyl cellulose was made to improve drug delivery for Glipizide microspheres by using polymer Ethyl cellulose was made to improve patient compliance and safety. It is possible to prepare microspheres containing Glipizide by solvent evaporation method, to prolong activity with increased stability without loosing the therapeutic activity. Stability study was carried out,

KeyWords:- Glipizide, diabetes mellitus, microspheres

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Formulation and Evaluation Of Enteric Coated Pellets of Lansoprazole

Sodium

Aishwarya whadgar, Utkarsha Gunjal, S.D.Mankar

ABSTRACT:

Lansoprazole is a proton pump inhibitor which prevents the stomach from producing said. Proton pump inhibitors are widely used to treat peptic ulcer, gstroesophageal reflux disease realinger-ellison syndrome, also in eradication of H.pyroli infection. Acid labile and maisture resitive lansoprazole difficult to stabilize in various dosage form. The main aim of the work is to prepare enteric coated pellets of lansoprazole sodium by using methacrylic acid copolyment with drug release above pH 5.5, by using extrusion and spheronization method. The intestine largeted delivery of lansoprazole in enteric coated pellets by using pH sensitive Eudraph polymer. To deliver maximum concentration of drug at the site of action by development of faintegrating pellet using super disintegrant and further coating with the aqueous dispersion of active EZE enteric coating polymer. A multiunit pellet system (MUPS) is an approach to develop the pellet formulation capsule dosage form containing MUPS, when administered drug dispersed to the Protected from acid and dissolved in duodenum, each pellets acts as a single subunit. The Characteristic reproducibility, transit time and reduction of localization of drug delivery it having less prone to adherence to the intestinal walls chance of localization of drug delivery it having less prone to adherence to the drug product to the site of drug release.

Key Words: Lansoprazole, H.pyroli infection, spheronization

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FORMULATION AND DEVELOPEMENT OF SUSTAINED RELEASE ANTI-DIABETIC MATRIX TABLET.

Kushal Landge, Shivprasad Khose, Someshwar Mankar Pravara Rural College Of Pharmacy, Loni

ABSTRACT:

In past decade great interest got generated on replacing conventional administration of ings by delivery system. In present work attempts have been made to formulate sustained release matrix tablets of Metformin hydrochloride by using polymer, which is preferably used as an anti-diabetic and in case of type 2 diabetes mellitus. Matrix tablets were prepared using polymer with HPMC-K100 (Dow), in different concentration by dry granulation technique. The product so formulated are designed as sustained action, sustained release, prolonged action, depot, retard action, delayed action, that products in most case are similar in appearance.

Metformin is an antidiabetic (Hypoglymic) agent. As metformin Hydrochloride Has Poor compressibility and high water solubility. It is need to Increase Bioavailability, Clinical implications, reduce risk of hospitalization, deliver drug at a near constant rate for approximately 12 hrs, independent of food intact and gastrointestinal PH.

In this model, drug in the out side layer exposed to the bathing solution is dissolved first and than diffuses out of the matrix. Obviously, for this system to be diffusion controlled, the rate of dissolution of drug particles with in the matrix must be much faster than the diffusion rate of dissolved drug leaving the matrix.

The product so formulated are designed as sustained action, sustained release, prolonged action, depot, retard action, delayed action, that products in most case are similar in appearance.

Keywords: Metformin, sustained release, Increase bioavailability, Matrix tablets.

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Green Chemistry- Role in Environmental Protection ISBN: 978-93-87665-40-8

GREEN CHEMISTRY: AN IMPORTANT TOOL IN PHARMACEUTICALINDUSTRY

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Department of Pharmaceutics, Pravara Rural College of Pharmacy, Pravaranagar.

Abstract

An important tool for advancing green chemistry in pharmoceutical applications is sharing information on its use. The complexity of the molecules that are used as active pharmaceutical ingredients (APIs) and the resulting complexity in the synthesis and purification needed to produce a given API, the pharmaceutical industry as major healthcare player should practically apply green practices. Chemists and medicinal scientists can greatly reduce the risk to human health and the environment by following all the valuable principles of green chemistry by practically applying them in Pharma industry. The simple and direct way to apply practically green chemistry in pharmaceuticals is to utilize eco-friendly, non-hazardous, reproducible and efficient solvents and catolysts in synthesis of drug molecules, drug intermediates and in researches involving synthetic chemistry. Green chemistry is being employed to develop revolutionary drug delivery methods that are more effective and less toxic and could benefit millions of patients. Researchers and phonnaceutical companies need to be encouraged and to start the principles of green chemistry while designing the Processes and choosing reagents Waste minimization in drug discovery by considering Green Technologies in the Pharmaceutical Industry. The special emphasis should given to practical implementation as its need of future.

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"GST: IMPACT AND IMPLICATIONS ON PARMACEUTICAL INDUSTRY"

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Abstract

GST means Goods and Services Tax. It had been introduced by p Chidambaram was a Finance minister from 2008 to 2010. Actually it is an indirect tax on the manufacturing goods .the GST was replaced by VAT (value added tax) .The main aim is to collect systematic tax on listed goods. The Indian pharma industry, estimated turnover at Rs 450 billion, ranks fourth globally in terms of volume and is amongst the largest producer of pharma products in the world along with US, Japan, Europe and China.2 Similar to the manufacturing industry, the pharma industry also enjoys low cost of production due to economies of scale. But the levy of multiple taxes, loss of credit of tax paid, compliance and litigation cost associated

with the present tax set up tend to raise prices which eventually result in causing problems to the pharma industry. With the introduction of GST, the most visible impact appears to be the proposed discontinuance of CST. On the whole, GST is expected to benefit the pharma and healthcare industries. It will create a level playing field for generic drug makers. boost medical tourism and simplify the tax structure. If there is any concern whatsoever, then it relates to the pricing structure (as per latest news). The pharma sector is hoping for a tax respite as it will make affordable healthcare easier to access by all.

Keywords: GST, VAT, Pharma industry CST.

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Current Prospects of Herbat Nutracestical as a Functional Food and Dietary Supplement

SOLUBILITY ENHANCEMENT TECHNIQUES: A REVIEW ON CONVENTIONAL AND NOVEL APPROACHES

S. D. Mankar

Dr. Punit R. Rachh

Research Scholar, Department of Pharmaceutical Sciences, Bhagwant University Department of Pharmaceutical Sciences. Bhogwant University

Email: sdmankar655@gmail.com Mobile: 9960580415

ABSTRACT:

Most of the drugs in the development pipeline are emerging from the high-throughput screening methodology resulting in increased molecular weights and thus consequential bioavailability problems. Improving oral bioavailability of drugs those given as solid dosage forms remains a challenge for the formulation scientists due to solubility problems. The dissolution rate could be the rate-limiting process in the absorption of a drug from a solid dosage form of relatively insoluble drugs. Therefore increase in dissolution of poorly soluble drugs by solid dispersion technique presents a challenge to the formulation scientists. This article reviews historical background of solid dispersion technology, limitations, classification and various preparation techniques with its advantages and disadvantages. This review also discusses the recent advances in the field of solid dispersion technology. Based on the existing results and authors' reflection, this review give rise to reasoning and suggested choices of carrier or matrix and solid dispersion procedure.

Keywords: Solubility enhancement, dissolution enhancement, solid dispersion. characterization.

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FORMULATION, DEVELOPMENT AND EVALUATION OF OLMESARTAN LOADED NANOSTRUCTURED LIPID CARRIERS TO IMPROVE ORAL BIOAVAILABILITY.

S.D.Mankar, S.S.Siddheshwar Prayara Rural College Of Pharmacy, Prayaranagar, 413736.

Abstractic

the oral mote is the route of first choice for drug administration, and allows the marked of systemic effects of a large variety of biologically active compounds green, the majority of new chemical entities (NCEs) display very poor aqueous sability, resulting in low oral bioavailability due to insufficient dissolution throughout ne (GII) pistrointestinal tract (Kesisoglou et al., 2007; Zhang et al., 2010). Especially is needy soluble, highly permeable (BCS Class II) drugs, the rate of oral absorption is discontrolled by the dissolution rate in the GIT (Lobenberg and Amidon, 2000). (inesatan medoxomil (OLM) is chemically 4-(1-hydroxy-1-methylethyl)-2-propyl-1-If (HH et razol-5-yl)[-1.11 -bipbenyl] -4-yl]methyl] -1H-imidazole-5-carboxylic acid 5actist-loss-1,3-dioxol-4-yl) methyl ester (Hedvati and Pilarsky, 2006). It is un agricum II receptor antagonist used in the treatment of hypertension (Dhumal et al., But), OLM blocks the action of angiotensin II by binding with high selectivity to purpological the AT1 receptor and not to the type 2 (AT2) receptor. It binds to the All the plan with a high degree of insuperable and with greater affinity than most other type. (Res) argiotensin receptor blockers (Scott and McCormack, 2008). Thus, OLM is est condidate to formulate NLCs to improve its oral bioavnilability as it has high log p and how aquenus solubility. Thus, it was concluded that, there is a need of squeous solubility. Thus, it was concluded that, the same structured lipid same structured and characterization of OLM loaded nanostructured lipid same structure. Sins is suprove its oral bioavailability. hysonia-Olmesartan, nano-lipid crystals, oral bioavailability-

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DESIGN, DEVELOP, AND CHARACTERIZE SOLID LIPID NANOPARTICLES CONTAINING MONTELUKAST SODIUM.

M.S.Bhosale, S.D.Mankar,

Pravara Rural College Of Pharmacy, Pravaranagar, 413736.

Abstract:-

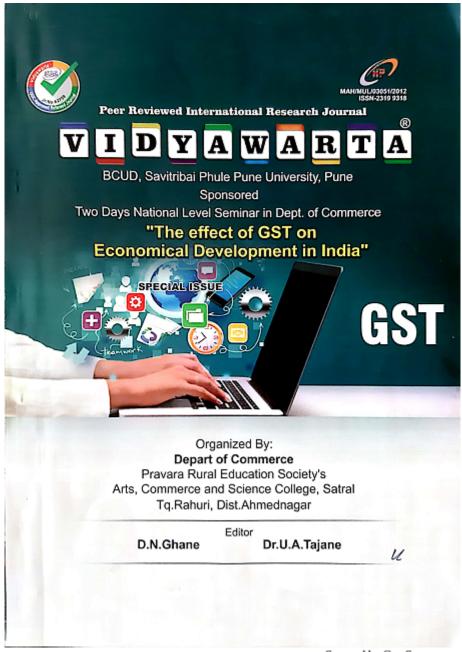
A high potential for drug delivery has been attributed to particulate drug carriers, especially small particles such as micro particles and colloidal system in nanometer range. Controlled and targeted delivery is one the most enviable requirements from a carrier, which involves the multidisciplinary site-specific or targeted approach (Bocca et al., 1998). Targeted delivery to the diseased lesions is one of the most important aspects of drug delivery system. To convey the accurate desired dose of the drug and diagnostic agent to the lesions, suitable carriers are required. Nanoparticles have important potential applications for the administration of therapeutic and diagnostic agents (Karanth et al., 2008). Nanoparticulate drug delivery system may offer plenty of advantages over conventional dosage forms which include improved, reduced toxicity, enhanced biodistribution and improved patient compliance. Pharmaceutical Nanoparticles are subnano sizes structures, which contain drug or bioactive substances within them and are constituted of several tens or hundreds of atoms or molecules and morphologies (amorphous, crystalline, spherical, needles).

Thus, finally it was planned to design, develop, and characterize solid lipid nanoparticles containing montelukast sodium to solve both the problems such as solubility and extensive first pass metabolism of MKS and thereby enhance bioavailability.

Keywords:- Nanoparticles, montelukast, oral bioavilability.



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"Goods and Services Tax (GST) in Indian Pharmaceutical and Its impact on industry"

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Abstract

GST is expected to be a game-changing reform for the Indian economy in the medium to long term since it will flourish a common Indian market and reduce the cascading effect of the tax on the cost of goods and services. If implemented, GST will result in a complete overhaul of the Indian indirect tax system with wide-ranging implications including tax structure, tax incidence, tax computation, tax payment, compliances, and credit utilization and reporting. It is also expected that supply chain and other operational planning opportunities and efficiencies may be available, depending on a company's facts. However, in the short-term/transitional phase, all Industry, including the pharmaceutical industry, are likely to face a number of

challenges, including possibly negative financial impacts, the need to assess existing supply chain structures, the need for reconfiguration of IT systems and more. It is, therefore, critical that companies become well known for the proposed GST legislation, begin assessing the impacts that GST is likely to have on their business operations and begin to develop/implement a plan to manage this mega-change by the expected implementation date. The implementation of GST would have a constructive effect on Healthcare industries particularly Pharma. It will help the industries by sorting out the taxation structure since 8 different types of taxes are enforced on pharmaceutical industries today. The merger of all the taxes into one uniform tax will ease the way of doing business. GST would also improve the transportation and supply chain of pharmaceutical product.

Keywords : GST legislation, Healthcare industries , pharmaceutical industries uniform tax.

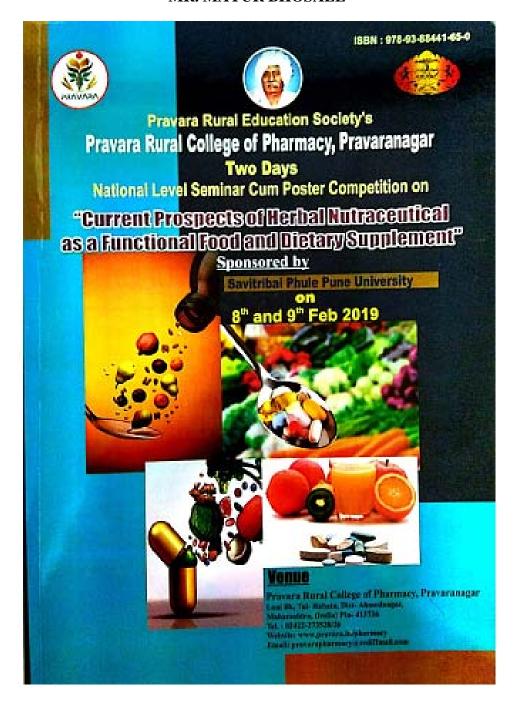
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MR. MAYUR BHOSALE







Current Prospects of Herbal Nottnerwindow a Functional Food and Sistery Supplement

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COMPARATIVE AND BIOLOGICAL IMPORTANCE OF SUBTITUTED TETRAHYDROPRIMIDINE DERIVITIVES IN THE NEW ERA

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Dr. N. S. Dighe

ABSTRACT:-

Microwave induced organic reaction enhancement is a simple, clean, first, efficient & economical method for the synthesis of organic molecules and has emerged as a tool towards green chemistry. This technique can reduce the time of chemical reaction from hours to minutes. Conventional methods and ultra sonic method of synthetic reactions need longer heating time, elaborate and tedious apparatus set up which result in higher cost and environmental pollution. The concept of research involved in this is directed towards the development of novel heterocyclic compounds for their Anti-cancer activity, Antimicrobial activity and Anti-inflammatory activity. The recent advances in the synthesis and biological activities have led to many investigations of Tetrahdropyrimidinederivatives.Tetrahdropyrimiding is considered as a main pharmacophore for the synthesis of various physiological significance and pharmacological utilized molecules. Tetrahdropyrimidine are a large class of biologically active compounds that exhibits broad spectrum of biological activities such as Anti-HIV, Anticancer, Antifungal, Antibacterial, Sedative, Anticonvulsant, Anti-inflammatory, antihypertensive, Local anesthetic activity and much more. Being considered as advantaged scaffold, the comparative synthesis is made with different substituent. Kerwords: Antibacterial, Anticancer, Anti-inflammatory , Tetrahydropyrimidiae,

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DESIGN, DEVELOP, AND CHARACTERIZE SOLID LIPID NANOPARTICLES CONTAINING MONTELUKAST SODIUM.

M.S.Bhosale, S.D.Mankar,

Pravara Rural College Of Pharmacy, Pravaranagar, 413736.

Abstract:-

A high potential for drug delivery has been attributed to particulate drug carriers, especially small particles such as micro particles and colloidal system in nanometer range. Controlled and targeted delivery is one the most enviable requirements from a carrier, which involves the multidisciplinary site-specific or targeted approach (Bocca et al., 1998). Targeted delivery to the diseased lesions is one of the most important aspects of drug delivery system. To convey the accurate desired dose of the drug and diagnostic agent to the lesions, suitable carriers are required. Nanoparticles have important potential applications for the administration of therapeutic and diagnostic agents (Karanth et al., 2008). Nanoparticulate drug delivery system may offer plenty of advantages over conventional dosage forms which include improved, reduced toxicity, enhanced biodistribution and improved patient compliance. Pharmaceutical Nanoparticles are subnano sizes structures, which contain drug or bioactive substances within them and are constituted of several tens or hundreds of atoms or molecules and morphologies (amorphous, crystalline, spherical, needles).

Thus, finally it was planned to design, develop, and characterize solid lipid nanoparticles containing montelukast sodium to solve both the problems such as solubility and extensive first pass metabolism of MKS and thereby enhance bioavailability.

Keywords:- Nanoparticles, montelukast, oral bioavilability.



DR. PRIYA RAO

Current Prospects of Herbol Nutraccutical as a Functional Food and Dietary Supplement

ISBN: 978-93-88441-65-9

FORMULATION AND DEVELOPMENT OF POLYHERBAL GRANULES AND ITS NUTRITIONAL CHARACTERIZATION

Miss Prachi Dighe Dr. R. S. Jadhav Pro

Prof. T. D. Dukre

Dr. P. R. Rao

ABSTRACT:

The aim of the present study was to formulate and evaluate the pharmaceutical quality of polyherbal granules. Polyherbal formulation was prepared using hydroalcoholic extracts of Curcuma longa, Tinospora cordifolia, Withania somnifera to obtain the best formulation; in order to increase the acceptability and adoptability of herbal medicine. The objective of this research work was the conversion of extracted powder into stable, palatable and patient acceptable granules to swallow conviently by using granulation method, using suitabnle binding agents. The granules formulations will be optimised on the basis of acceptable flow properties of granules. The properties of developed herbal granule will be compared with corresponding marketed product. Developed granules will be tested for organoleptic evaluation.

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MR. TUSHAR DUKRE

IDENTIFICATION OF IMPORTANT SECONDARY METABOLITES FROM BAUHINIA RACEMOSA LINN

Mr. Akash B. Kanade Dr. Jadhav R. S. Mr. Dukre, T. P. Pravara Rural college of Pharmacy, Pravaranagar, Tal-Rahata, Dist-Ahmednagar Department of Pharmacognosy.

The Present study reports important secondary metabolites present in Bauhinia Racenna Linn. The Bauhinia Racenosa Linn belong to the family Luguminosae, it is populate known as 'Aapta' in Marathi, Kanchnal in Hindi other common name include mountain abony and kachnar (India & Pakistan) The leaves are known to cure skin disease, those troubles tumours chronic, dysentery, headache, malaria. The powdered Leaves we subjected for extraction by using petroleum ether chloroform, ethanol. These extract was evaluated for detection of various secondary metabolites, like Glycosides, Tamira Terpenoides, Alkaloids. The preliminary phytochemical screening were done using various chemical test. The study show presences of Alkaloids, Tannins. These secondary metabolites having role in chronic disease as well as they act as source of nutrient. Keywords-Bauhinia racenosa linn, Petroleum ether, Ethanol etc.

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Current Prospects of Herbol Nutracentical as a Functional Food and Dietary Supplement

158N : 978-93-88441-65-9

FORMULATION AND DEVELOPMENT OF POLYHERBAL GRANULES AND ITS NUTRITIONAL CHARACTERIZATION

Miss Prachi Dighe Dr. R. S. Jadhav Prof. T. D. Dukre Dr. P. R. Rao

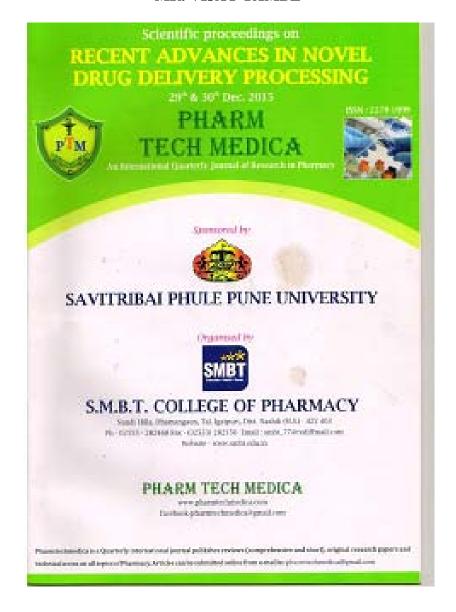
ABSTRACT:

The aim of the present study was to formulate and evaluate the pharmaceutical quality of polyherbal granules. Polyherbal formulation was prepared using hydroalcoholic extracts of Curcuma longa, Tinospora cordifolia, Withania somnifera to obtain the best formulation; in order to increase the acceptability and adoptability of herbal medicine. The objective of this research work was the conversion of extracted powder into stable, palatable and patient acceptable granules to swallow conviently by using granulation method, using suitabnle binding agents. The granules formulations will be optimised on the basis of acceptable flow properties of granules. The properties of developed herbal granule will be compared with corresponding marketed product. Developed granules will be tested for organoleptic evaluation.

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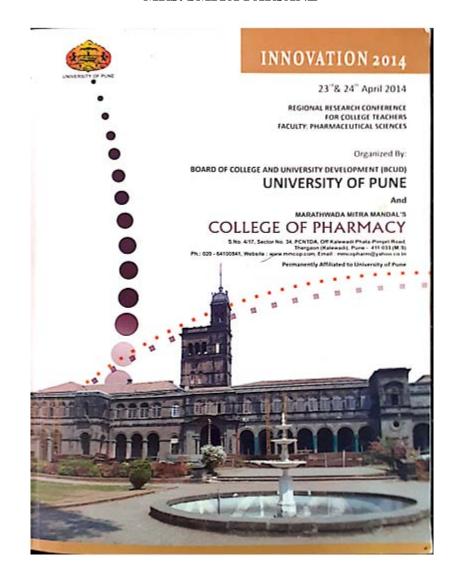
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N OVATION 2014 "



YNTHESIS & EVALUATION OF NITROGEN CONTAINING HETEROCYCLIC COMPOUND LUDING BENZIMIDAZOLE DERIVATIVES FOR THEIR ANTHELMINTIC, ANTITUBERCULAR AND ANTIMICROBIAL ACTIVITIES

Parjane S.K.; Dengale S.S.; Asane G.S. Pravara Rural College of Pharmacy, Pravaranagar-Loni -413736 Dist. Ahmedragar

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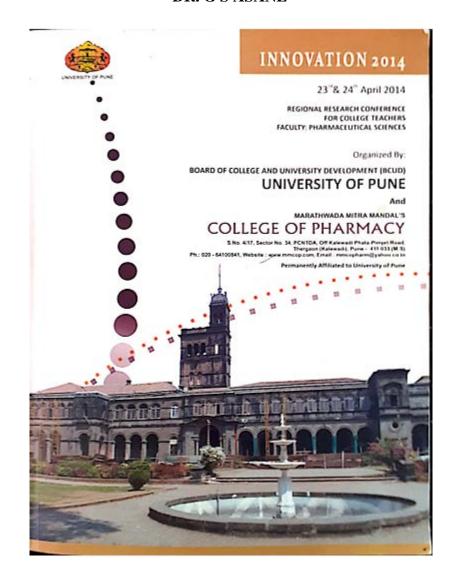
The present research work is aimed to synthesize some novel substituted benzimidazoles derivatives. The synthesized of present research work is aimed to synthesize some novel substituted benzimidazoles derivatives. The synthesized of these compounds and physiochemical properties like Melting point and Rf value was broaded The structures of these compounds will be confirmed by FT-IR, 'H-NMR, mass spectrometry & CHN analysis. The synthesized compounds will be evaluated for anthelmintic activity. The compounds will also evaluate for attribute cular activity by middle brook again method using H37RV strain. All the synthesized compounds will be tested for anthelmintic activity by eup-plate again diffusion method.

 $k_{\rm cyn_{ards}:Benzimidazole;}$ antimicrobial; antitubercular; anthelmintic

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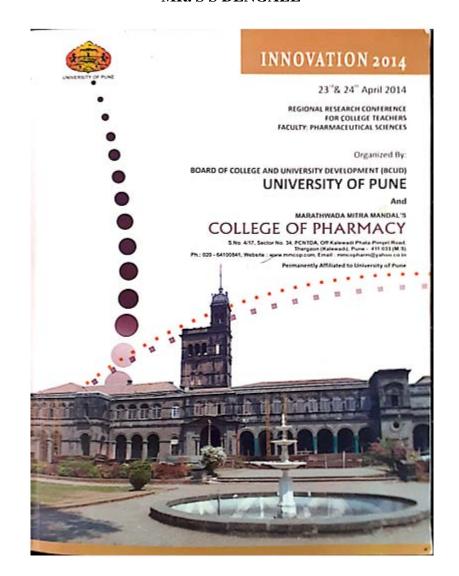
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