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PUBLICATIONS

1. Vaishali Kilor, Nidhi Sapkal, Anwar Daud, Shruti Humne, Tushar Gupta. Development of stable nanosuspension loaded oral films of glimepiride with improved bioavailability. **International Journal of Applied Pharmaceutics**. 2017, 9(2), 28-33.



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Original Article

DEVELOPMENT OF STABLE NANOSUSPENSION LOADED ORAL FILMS OF GLIMEPIRIDE WITH IMPROVED BIOAVAILABILITY

VAISHALI KILOR*1, NIDHI SAPKAL1, ANWAR DAUD2, SHRUTI HUMNE1, TUSHAR GUPTA1

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ABSTRACT

Objective: In the present work attempt has been made to stabilize optimized nanosuspensions of glimepiride by solidification using a novel Oral Thin Film (OTF) formulation.

Methods: Nanosuspensions were characterized for particle size, zeta potential as well as *in vitro* dissolution profile. As nanosuspensions are prone to destabilization by Ostwald's ripening or agglomeration/aggregation, OTF formulation as a novel approach for stabilization through solidification of optimized nanosuspension was attempted. OTF formulation method is a simple, easy and scalable method for the preparation of solid oral dosage form. Prepared formulations were evaluated for physicochemical parameters like folding endurance, disintegration time, tensile strength, *in vitro* drug release, *in vivo* bioavailability and stability.

Results: The mean particle size of the nanoparticles in OTF was found to be 57.2 nm. It was observed from the results of *in vivo* bioavailability studies that high plasma drug concentrations(Cmax) were achieved for nanosuspension loaded OTF (NSOTF) i.e. 4900 ng/ml as compared to marketed oral formulation (Cmax-2900 ng/ml). Results of the stability studies indicated that nanosize of the particles was retained even after 3 mo of the study.

Conclusion: Therefore it can be concluded that OTF formulation has a potential for stabilization of nanosuspensions.

Keywords: Nanosuspension, Glimepiride, Stabilization, Solidification, In vivo studies

2. S. R. Yende, U. N. Harle, S. K. Arora, V. B. Pande. Phytochemical screening and anticonvulsant activity of *Sargassum ilicifolium* (brown algae) in mice. **Journal of Phytopharmacology** 2018, 7(1), 25-28.

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Vipinchandra B. Pande

Phytochemical screening and anticonvulsant activity of Sargassum ilicifolium (brown algae) in mice

Subhash R. Yende*, Uday N. Harle, Sumit K. Arora, Vipinchandra B. Pande

ABSTRACT

Sargassum ilicifolium (SI) is a tropical and subtropical marine macroalgae (brown algae) found in coastal area of India. Thais study investigated the anticonvulsant activity of SI in maximal electroshock (MES) induced convulsion and pentylenetetrazole (PTZ) induced convulsion in mice. The result of present study indicated that chloroform extract (600 mg/kg) and ethanol extract (400 mg/kg and 600 mg/kg) of SI significantly decreased the duration of tonic hind limb extension in MES model, as well as it significantly increased the latency to onset of convulsions in PTZ model. These results were comparatively similar with the effect of phenytoin (25 mg/kg) and phenobarbitone (20 mg/kg). This activity may be due to the presence of alkaloids, terpenoids, flavonoids, steroids and saponin in chloroform and ethanol extract of Sargassum ilicifolium. However, further research will be necessary to investigate the exact mechanism underlying this anticonvulsant activity.

Keywords: Anticonvulsant activity; Sargassum ilicifolium; Brown algae; MES induced convulsion; PTZ induced convulsion.

3. A. N. Mungle, A. M. Ittadwar. *Lawsonia inermis* L.: Phytochemical and Pharmacological activities. A Review. **International Journal of Researches in Biosciences, Agriculture & Technology** 2018, 1(6), 119-152.

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LAWSONIA INERMIS L.: PHYTOCHEMICAL AND PHARMACOLOGICAL ACTIVITIES. A REVIEW

Authors: Mungle A N,. Ittadwar A M

Page Nos: 119-152

Description:

Lawsonia inermis Linn is a welknown plant for centuries and is widely used medicinally and cosmetologicaly, all over the world. Since ancient culture, this plant is known for its dyeing pigment, Lawsone and hence found its application in cosmetic and textile industries as a dyeing agent. Henna is being applied to dye/colour palms, soles or feet, hairs, finger nails and other body parts. Nowadays, Henna body art is most commonly seen in the form of tattoos. Apart from this, this plant is reported to contain several phytoconstituents and has therapeutic uses. Hence, this article aims to review the most recent information about both therapeutic applications of Henna and its active constituents.

4. S. V. Pimpalshende and V. V. Kale. Waste Water Treatment: Design and Develop Waste Water Disposal Method for Pharmaceutics Laboratory. **IOSR Journal of Pharmacy and Biological Sciences** 2018, 13(3), 57-64.

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Waste Water Treatment: Design and Develop Waste Water Disposal Method for Pharmaceutics Laboratory

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Gurunanak College of Pharmacy, Nagpur Maharashtra 440026) Corresponding Auther: Snehal V. Pimpalshende

Abstract: Waste water is any water that has been adversely affected in quality by anthropogenic influence. Many pharmaceutical industries is responsible to generates toxic effluent. The waste water generated from these industries possess solids, biodegradable and nonbiodegradable organic compounds. Pharmaceutical compounds typically produced in batch process leading to the presence of a wide variety of products in waste water which are generated in different operations. Various sources of pharmaceutical industries are different sectors of Active pharmaceutical ingredients (API), bulk drugs, and formulation department. Pharmaceutical residues and/or metabolites are usually detected in the environment at trace levels but even that low concentration levels but can induce toxic effects. Pharmaceutical waste water if disposed with insufficient treatment may leads to great damage to the environment and ground resources. Need of waste water treatment is to remove organic and inorganic matter this would otherwise cause pollution, to remove pathogenic diseasecausing organism, in order to protect the environment and human health. The treatment of waste water is divided into three parts physical, biological and chemical. Waste water treatment process may reduce suspended solids, biodegradable organics, and pathogenic bacteria. Sand filtration, followed by chemical treatment is a proven procedure to treat the the pharmaceutical waste water for disposal as well as reuse. Method develop to treat the collected laboratory waste water. Various materials were used to treat this collected pharmaceutics laboratory waste water. With the help of various parameters pharmaceutical waste water were evaluated, parameters use for the evaluation of pharmaceutical waste water are Biochemical oxygen demand (BOD), Chemical oxygen demand (COD), Total dissolved solids (TDS), Total suspended solids (TSS), colour, Turbidity, Microbial analysis.

Keywords- Waste water, Biochemical oxygen demand, Total dissolved solids.

Date of Submission: 25-04-2018 Date of acceptance: 14-05-2018

PRESENTATIONS

1. V. A. Kilor presented paper on Drug printed Oral Thin Films: Future trend in drug delivery Technology at "2nd International Conference and Exhibition on Pharmaceutical Development and Technology" held during May 11-12, 2018 in Osaka, Japan.

2nd International Conference and Exhibition on

PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY May 11-12, 2018 Osaka, Japan

Drug printed oral thin films: Future trend in drug delivery technology

Vaishali Kilor^{1,2}, Priya Dule¹, Nidhi Sapkal² and Anwar Daud¹ ¹Guru Nanak College of Pharmacy, India ²Zim Labs Ltd. India

Thin films are relatively a recent addition in the pharmaceutical dosage forms. These can be used to administer drugs via various routes like oral, buccal, sublingual, transdermal, vaginal, rectal etc. When given by oral route these are meant for rapid disintegration and release of the drug in the oral cavity for quick therapeutic effect without use of water for swallowing. These are gaining popularity amongst the patient population of all ages, specially pediatric and geriatric patients. Though overcoming drawbacks of many oral solid dosage forms thin film technology faces certain limitations for drugs prone to hydrolytic and thermal degradation. Many drugs when loaded onto thin films using the conventional casting method results in films with poor mechanical properties. Manufacturing thin films by printing actives onto placebo substrates can overcome these limitations increasing the production yield and quality. The technology has the ability to process actives which are otherwise restricted to be formulated as thin film formulations. In the present investigation drop on demand printing technology was used for the printing of OTF of model drug cholecalciferol which is prone to degradation in solvent casted films. Drug loaded printing ink was developed with optimized properties and printing was carried out on the placebo substrate. Stability studies of solvent casted vitamin D3 films as well as printed vitamin D3 films were carried out to observe significant improvement in the stability of printed films as compared to solvent casted films which showed up to 50% degradation.

2. N. P. Sapkal presented paper on Technology development of Bi/multilayer thin films at "2nd International Conference and Exhibition on Pharmaceutical Development and Technology" held during May 11-12, 2018 in Osaka, Japan.

2nd International Conference and Exhibition on

PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY May 11-12, 2018 Osaka, Japan

Technology development of Bi/multilayer thin films

Nidhi P Sapkal¹, Anwar S Daud² and Minal N Bonde²
¹Guru Nanak College of Pharmacy, India
²Zim Laboratories Ltd, India

Thin films are ideal dosage form for pediatric, geriatric, dysphagic, mentally challenged and bed ridden patients. These films are thin, flat, elegant, rectangular shaped dosage forms that can be delivered by either oral sublingual or buccal route. In the market, most of the available products are single layered and belong to category of orally dissolving films. A few belong to sublingual and buccal category. The present technology yields monolayer films containing single or multiple actives but is not capable of delivering fixed dose combinations that are incompatible with each other. The present investigation describes technology development of thin films consisting of more than one layer. The final product looks like a single thin layer with different colors/shades/textures on both the sides. The method is capable of producing films with two, three or more layers depending upon the need of the product. These films are inseparable from each other during storage, handling and use and importantly, do not interact physically or chemically at the same time. The technology can also be used to deliver actives with different release profiles in thin film form or to deliver single active with different release profiles. This technology can be applied to many buccal or oral care products which require maintaining unidirectional flow of active into a particular direction. Thus, this is an important way to add more attributes to thin film technology.

- 3. K. S. Moharir presented oral paper on Studies on potential use of spray dried co-processed excipients in formulation, at 2nd edition of Novel Formulations Strategies, held on 12-13 April 2018 at Hotel Ramada, Mumbai.
- 4. Amandeep Kaur Dhillion presented oral paper on Gel formulation of flavonoid rich fraction of aerial parts of *Hemidesmus indicus* at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.

CHALLENGES FOR GLOBAL COMPETITIVENESS OF AYUSH AND NATURAL PRODUCTS AND IASTAM ORATION AND AWARD FUNCTION - 2018

O-TNF20

GEL FORMULATION OF FLAVONOID RICH FRACTION OF AERIAL PARTS OF HEMIDESMUS INDICUS LINN FOR ITS

ANTIMICROBIAL ACTIVITY

Amandeep Kaur Dhillon, Suhas Padmane, Sarika Ghatode.
GURUNANAK COLLEGE OF PHARMACY, NARI ROAD NAGPUR, MAHARASHTRA 440026

The present study describes evaluation of flavonoid rich fraction of aerial parts of plant Hemidesmus indicus Linn for its antimicrobial activity in gel formulation. Preliminary phytochemical screening were performed on the hydro alcoholic extract of H. indicus showed the presence of flavonoids along with tannins, glycosides and carbohydrates. TLC study indicates the presence of flavonoids when compared with quercetin and rutin as reference standards. Antibacterial assays were performed on different bacteria like P. vulgaris, C. albicans, P. awamori, and M. Furfur. Gel formulation was prepared and its evaluation was carried out for various parameters. White rabbits were used to carry out the skin irritation study for gel formulation. The antimicrobial activity of extract was found against various species among which M. furfur had shown the highest zone of inhibition.

5. Ashwini Nagpure presented poster on Evaluation of fixed oil from the seed of *Celastrus paniculatus* at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.

CHALLENGES FOR GLOBAL COMPETITIVENESS OF AYUSH AND NATURAL PRODUCTS AND IASTAM ORATION AND AWARD FUNCTION - 2018 February 2-4, 2018

P-SVA3

EVALUATION OF FIXED OIL FROM THE SEEDS OF CELASTRUS PANICULATUS

Ashwini Nagpure¹, Dr shekhar Waikar ², Dr sheelpriya Walde³.

Gurunanak College of pharmacy, Nagpur – 440026, India.

Email: ashwininagpure3434@gmail.com

Abstract: The plant *Celastrus paniculatus* Willd, belonging to family *celastraceae* and is commonly known as B.-*Malkangni* (Marathi), *Jyotishmati* (Sanskrit). The plant is an important Ayurvedic drug used in Indian subcontinent. The fixed oil from the seeds are used as bitter laxative, emetics, stimulant, rheumatism, leprosy, gout, various fevers and paralysis. The seeds yield brownish oil which is commonly marketed for the various treatments mentioned above. The survey of literature has reviewed that a very few phytochemical data is available with respect to the evaluation of oil is concerned. In the present investigation, the fixed oil from the seeds was extracted. The oil was evaluated with the help of various physicochemical parameters like solubility, refractive index, specific gravity, acid value, saponification value etc.

6. Yogita Khade presented oral paper on Simultaneous estimation of few polyphenols using HPLC at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.

CHALLENGES FOR GLOBAL COMPETITIVENESS OF AYUSH AND NATURAL PRODUCTS AND IASTAM ORATION AND AWARD FUNCTION - 2018

O-SVA11

SIMULTANEOUS ESTIMATION OF FEW POLYPHENOLS USING HPLC

YOGITA P. KHADE, SUHAS P. PADMANE, PORNIMA G. KODAPE

Gurunanak College of Pharmacy, Kamptee Road, Nari, Nagpur- 440026 (m.s), India.

In the present work, a validated RP-HPLC method has been developed for the estimation of four polyphenols viz rutin, myrecetin, quercetin and galangin. All four flavonoids were well resolved using gradient elution of methanol and 0.1% phosphoric acid as mobile phase and Zorbax SB C18 (250×4.6mm, 5µm) column as stationary phase. Linearity of method was carried out in the concentration range of 10- 100 µg/ml shows linear relationship with R²values of 0.9949, 0.9924, 0.995 and 0.9943 respectively. Precision study indicate maximum % RSD of 4.07. Two marketed formulations, tablet and gel containing some of these flavonoids were used for accuracy and assay. Accuracy of method is ascertained on the basis of maximum recovery of rutin 94.35% and quercetin 94.09%. The method was found to be robust with maximum %RSD 3.72. The present RP-HPLC method for the estimation of polyphenols is accurate, precise, simple and specific.

7. Kalyani Thombre presented poster on Isolation and evaluation of anthelmintic activity of flavonoid rich fraction of rhizomes of *Curcuma longa* at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.

CHALLENGES FOR GLOBAL COMPETITIVENESS OF AYUSH AND NATURAL PRODUCTS AND IASTAM ORATION AND AWARD FUNCTION - 2018

P-HLH2

ISOLATION AND EVALUATION OF ANTHELMINTIC ACTIVITY OF FLAVONOID RICH FRACTION OF RHIZOMES OF CURCUMA LONGA

Kalyani Thombre¹, Dr. Shekhar Waikar ², Satnam singh Khokhar ³, Dr. Sheelpriya Walde⁴.

Gurunanak College of pharmacy, Nagpur – 440026, India.

Email: kalyani.thombre@rediffmail.com

The plant curcuma longa Linn, belonging to family Zingiberaceae, is an important Ayurvedic medicine used extensively in ayurveda and in traditional Indian medicine for more than 2000 years. It is used as an anti-inflammatory, anticancer, antioxidant, antiacne, antibacterial, antifungal, antisepectic, expectorant and antidandruff agent. The rhizomes of curcuma longa have been shown to contain rich amount of flavonoids apart from curcumin. In the present investigation, the rhizomes were collected, dried in shed, coarsely powdered and were used for the extraction of total flavonoid rich fraction. The flavonoid rich fraction was evaluated for the presence of preliminary phytochemical test and thin layer chromatography. The in vitro anthelmintic activity of the flavonoid rich fraction was performed by taking Albendazole as a standard. The parasite used was Haemonchus contortus and results were recorded.

8. Shraddha Tajne presented oral paper on Formulation of face pack containing extract of *Rubia cordifolia* at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.

CHALLENGES FOR GLOBAL COMPETITIVENESS OF AYUSH AND NATURAL PRODUCTS AND IASTAM ORATION AND AWARD FUNCTION - 2018

O-TNF12

FORMULATION OF FACE PACK CONTAINING EXTRACT OF RUBIA CORDIFOLIA (MANJISTHA)

<u>Shraddha Tajne</u>¹, Dr Shekhar Waikar², Archana B. Patre³, Dr Sheelpriya Walde Gurunanak college of pharmacy, Nagpur – 440026, India. Email :stajane555@gmail.com

The plant Rubia cordifolia belonging to family Rubiaceae, is an official drug of Indian pharmacopeia 2010 with the common name Manjisthta. It is a well-known Ayurvedic herb popularly known as Indian Madder (English), Manjishta (Marathi),

Majit or Manjit (Hindi), Manjistha (Sanskrit). It is extensively used in the treatment of various skin diseases associated with edema and oozing. It is also used in wounds and ulcers, dressings, to dry them up and make them heal promptly. The root powder when mixed with ghee is beneficial for the treatment of acne. Manjistha is used in a number of skin disorders like erysipelas, eczema, acne, scabies and allergic manifestations. The roots are found to contain various classes of chemical constituents out of which the anthraquinone like rubiadin has been proved to be beneficial treating various skin disorders. In the present investigation, the hydroalcoholic extract of Rubia cordifolia was prepared which was rich in Rubiadin content. A face pack was formulated by taking the Rubiadin rich fraction (Rubia cordifolia extract). The face pack has been evaluated with the help of various evaluation parameters.

RESEARCH GUIDANCE

M. Pharm. Students

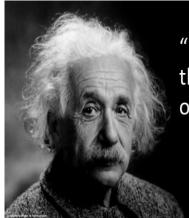
Sr.	Name of student	Topic	Name of guide	
No.				
	M. Pharm. (Pharmaceutics)			
1	Karan Sohandani	Formulation and Development of A Novel Technology For Multilayered Tablets.	Dr. V. V. Kale	
2	Ankush Sen	Optimization and Validation of Spray Dried Gelatine Composite For Rapidly Disintegrating Preparations.	Dr. V. V. Kale	
3	Harshita Jain	Formulation and Development of Multiparticulate Pellets For GERD (Gastroesophageal Reflux Disease)	Dr. V. V. Kale	
4	Kalyani Khune	Nanomaterial From Agricultural Waste: Formulation and Evaluation As Film Former.	Dr. V. V. Kale	
5	Amrapali Bhagat	Development of Formulation For Mouth Ulcer Using Guava Leaves Extract	Dr. V. A. Kilor	
6	Payal Mendhe	Development of Drug Loaded Printing Inks Suitable For 2D Printing of Medicines on Edible Substrate Like Oral Thin Films	Dr. V. A. Kilor	
7	Vidya Bahekar	Studies on Solubility Enhancement of Tadalafil	Dr. V. A. Kilor	

8	Shubhangi Rangankar	Studies on cocrystallization of poorly water soluble drug for solubility enhancement.	Dr. V. A. Kilor	
9	Azhar Iqbal	Studies On Stability Of Spray Dried Taste Masked API	Dr. V.A Kilor	
10	Deepa Singh	Development of Gel Formulation Containing Salicylic	Dr. A. M.	
		Acid and Herb Used For Skin Disease.	Ittadwar	
11	Ankush Khaparde	Formulation and Development of Fast Disintegrating	Dr. A. M.	
		Tablets of Spray Dried Herbal Extract (Triphala).	Ittadwar	
12	Payal Chauhan	Formulation and Evaluation Of Microparticulate Drug	Mr. A. H.	
		Delivery System of Cymbopogon citratis Oil (Lemon	Deshpande	
		Grass Oil)		
13	Shubham Dhotarakar	Development and Optimization of Topical Formulation	Dr. S. K. Tiloo	
		containing spray dried Aloevera		
14	Shruti Ukey	Formulation and Evaluation of Tablets Using	Dr. S. B. Waikar	
		DrumStick Polysaccharide as an Excipient		
		M. Pharm (Quality Assurance)		
1	Kalyani Thombre	Development and Validation of Stability indicating	Dr. S. R. Walde	
		Assay Method for the Estimation of Sofosbuvir in		
		Pharmaceutical Dosage Form.		
2	Shraddha Tajne	To study the Anthelmintic Activity of Isopelletrine	Dr. S. R. Walde	
		Alkaloid Present in Punica Grantum & Formulate		
	D D 11	Pharmaceutical Preparation.	D 0 D W/ 11	
3	Prerna Pardhi	Preparation and Characterization of Multi Vitamines	Dr. S. R. Walde	
		Microemulsion Based on Pseudo Ternary Phase		
	A classical NI consequence	Diagram.	Dr. S. R. Walde	
4	Ashwini Nagpure	Formulation and Evaluation of Immediate Release Sprinkle Capsule.	Dr. S. R. Walde	
5	Amandeep Kaur	Development and Validation of Analytical Methods for		
J	Dhillon	the Estimation of Amisulpride.	Dr. S. P.	
	Dimion	the Estimation of Amisurprice.	Padmane	
		M. Pharm (Pharmaceutical Chemistry)		
01	Nidhi Jaiswal	Synthesis & evaluation of Ionic Liquids of some drug	Dr. N. P. Sapkal	
0.1	1 (10111 0 012) (1 01	molecules.	21/1// Cupilar	
02	Payal Shahu	Isolation & Evaluation of the Bioactives from psidium	Dr. N. P. Sapkal	
	Ž	guajava leaves for healing of mouth ulcer.	•	
03	Trupti Waghmare	Stability implication of drug excipients interaction.	Dr. N. P. Sapkal	
			-	
B. F	B. Pharm. Students			
Sr.	Name of student	Topic	Name of guide	
No.				
01	Ankita Madrani	Synthesis of 1, 3, 4, -thiadiazole derivatives.	Mr. G. A.	
			Gurunani	
02	Ankita Soni	Application of Pharmacogenomics in Pharmacy: A	Mrs. A. N.	
		review article	Mungle	
03	Ankita Rokde	Evaluation of fixed oil from the fruits of Celastrus	Dr. S. B. Waikar	

		Paniculatus	
04	Anuja Deulkar	Design & evaluation of lipid base formulation of essential	Mr. A.H
		Oil	Deshpande
05	Asawari Navghare	Formulation and Evaluation of Ondansetron Orally	Mr. A.H.
		Disintegrating Strips	Deshpande
06	Ashwini Khodatkar	Review on emergency Medical Treatment.	Mr. S. R. Yende
07	Bhavika Mukhi	A study on prevalence, risk factors and treatment for	Mr. V.B. Pande
		varicose veins in Nagpur region.	
08	Dimpal Motghare	Review of targeted delivery system for acne cream	Dr. A. M.
		cosmetic formulation	Ittadwar
09	Farheen Bano Abdul	Placebo therapy: Newer emerging treatment regimen.	Dr. S. P.
	Haleem Khan		Padmane
10	Harmandeep Mantri	A Review on ethno medical studies on <i>Leonotics</i>	Dr. S. K. Tilloo
11	TT 1 1' 01 1	nepetifolia family Lamiaceae	M WD DI II
11	Harshali Shende	Adhesive For Pharmaceutical Formulations	Mr. K.B. Bhelkar
12	Hemlata Rarokar	Formulation & Evaluation of cream containing extract of <i>Tephrosia purpurea</i>	Mr. T.M. Rasala
13	Jayshree Shamkule	Beneficial effects of green tea: Review	Dr. S. K. Arora
14	Kalyani Bhandarkar	Formulation & Evaluation of gel containing extract of	Dr. S. B. Waikar
		Curcuma longa Linn.	
15	Kanchan Dhole	To Formulate & Evaluate fenugreek anti dandruff lotion	Mr. K. S.
			Moharir
16	Komal Gupta	Formulation and Evaluation of Herbal Hand Wash	Dr. M.M.
			Bodhankar
17	Lukesha Zade	Formulation and Evaluation of lotion bar	Dr. M.M.
			Bodhankar
18	Mayuri Bambadwar	Pharmacognostic studies on of <i>Chrozophora prostata</i> Dalz	Dr. S. B. Waikar
19	Meghatai Bhavsagar	A literature survey of Pharmacological activities of	Dr. S.K. Tilloo
		Thespesia Populnea family Malvaceae.	
20	Mohini Warjurkar	Review of literature on radiation effect of mobiles on life	Mrs. M.K.
			Bhurchandi
21	Monika Kherade	Involvement Of Nuclear Factor Kappa B In	Dr. S. K. Arora
		Inflammatory Disorders: Review	
22	Mrunali Choudhary	Review on Pathophysiology & treatment of nail psoriasis	Dr. V. A. Killor
23	Nilam Khobragade	Formulation of Gel containing Extract of Rubia Cordifolia (Manjistha)	Dr. S. B. Waikar
24	Nishigandha Pawar	Organic chemical waste management in chemistry	Mr. G. K. Lohiya
		laboratory by effective disposal for better environment & society	
25	Poonam Nagrale	Study on prescribing pattern of recent antidiabetic drugs	Mr. D. P.
			Dharkar
26	Priya Dalwani	Review on alginate Nano particles used as anti-tubercular	Mrs. A. N.
		drug	Mungle

27	Priya Paunikar	A review on cellulose nanocryocrystals & its derivatives	Mr. K. S.
		in pharmaceuticals & medical field.	Moharir
28	Priya Vaswani	Study on common hazards of steroids used in clinical	Mr. D. P.
		therapy	Dharkar
29	Ravleen Kaur Harpal	Electromagnetic waves influence of mobile radiation on	Mrs. M.K.
	Sungh Sandhu	human body & life	Bhurchandi
30	Renuka Chaudhary	Review on anti-cancer agents from plant sources	Dr. S. B. Waikar
31	Rina Bawankule	Formulation & evaluation of floor cleaning solution	Mr. K. S.
			Moharir
32	Shabnam Firdous	Micro-synthesis: Effective tool for organic chemistry	Mr. G. K. Lohiya
	Shakeel Ahmad	practicals.	
33	Shital Agashe	A Survey on Awareness on Obesity in Adolescents	Ms. P. G.
		(GNCP, Nagpur) : An Initiative	Gondane
34	Shivani Helchel	Review on Ebola virus	Mr. S. R. Yende
35	Shrutika	Recent advancements in herbal drugs used in skin	Mr. D. P.
	Chandankhede	disorder	Dharkar
36	Smita Patil	Review article on disorder of septicemia	Mrs. A. N.
			Mungle
37	Sonakshi Singh	A review on screening models for anti-psoriatic activity	Mr. V.B. Pande
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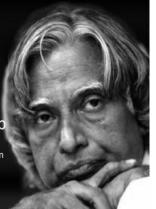
Albert Einstein

Dreams

is not what you see in sleep

is the thing which doesn't let you sleep

- A. P. J. Abdul Kalam





Do not allow the journals of the Academy to die, for they are the sensitive indicators of the quality of Science being done in the country and whether science is taking root in it or not.

SIR CHANDRASEKHARA VENKATA RAMAN

Basic research is what I am doing when I don't know what I am doing.

– Wernher von Braun



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