



ज्ञानरंग यरोधरी

VISHAL JUNNAR SEVA MANDAL'S
VISHAL INSTITUTE OF PHARMACEUTICAL
EDUCATION & RESEARCH

Dr. S. L. Jadhav
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P.C.I. Inst. Code : PCI-2620 | D.T.E. Inst. Code : 6361 | University I.D. No. : CPHP012670

3.3.2.

Total Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year

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3.3.2. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years.

Year	2021-22	2020-21	2019-20	2018-19	2017-18	Total
Number	01	09	02	06	08	26


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Academic Year 2021-22

Total of Books/Chapters/ papers in proceedings=01

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Academic Year 2020-21

Total of Books/Chapters/ papers in proceedings=09


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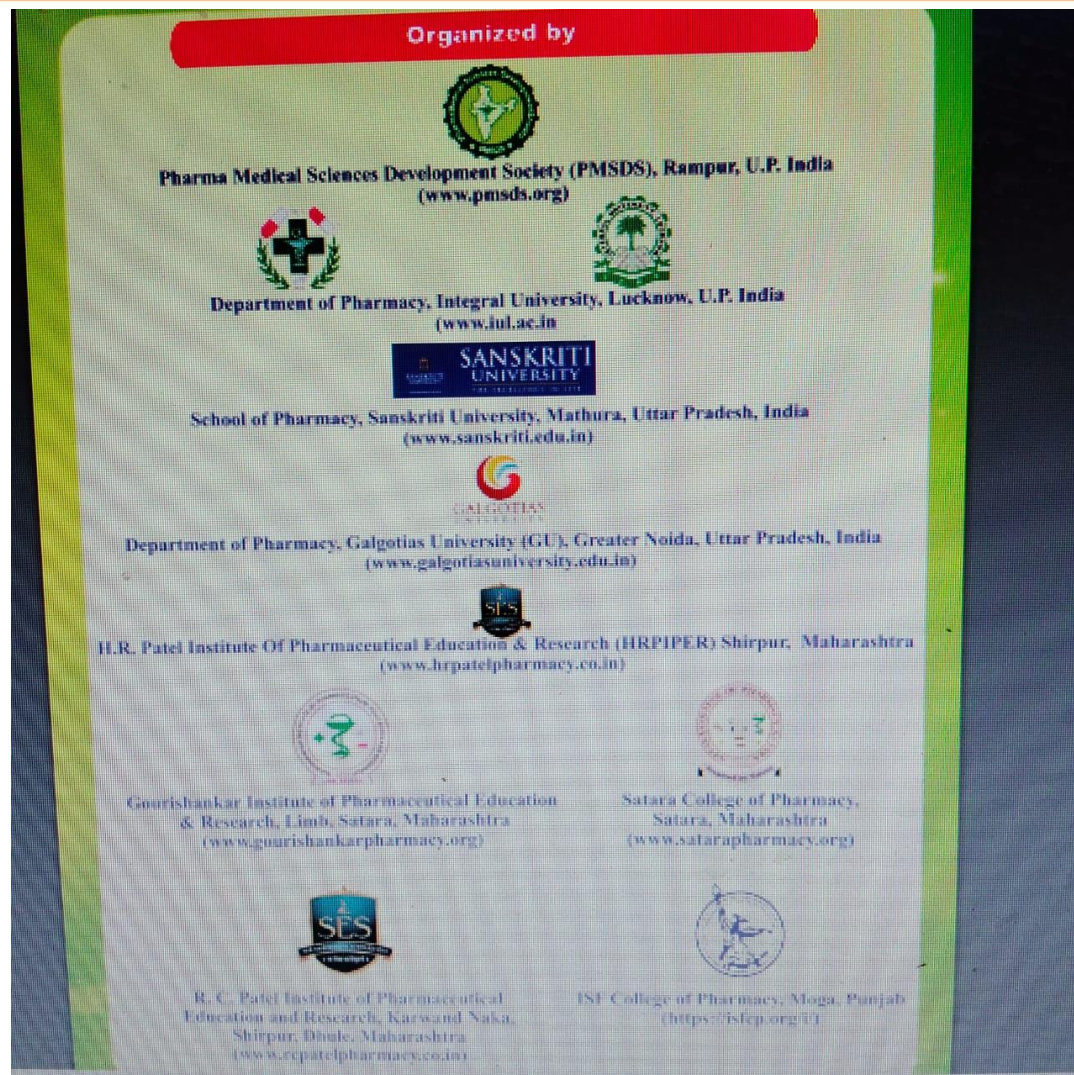


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1. Formulation and Evaluation of Sustain Release Mucoadhesive Oral Dosage Form Contain Clarithromycin: Dr.Dhobale S. M



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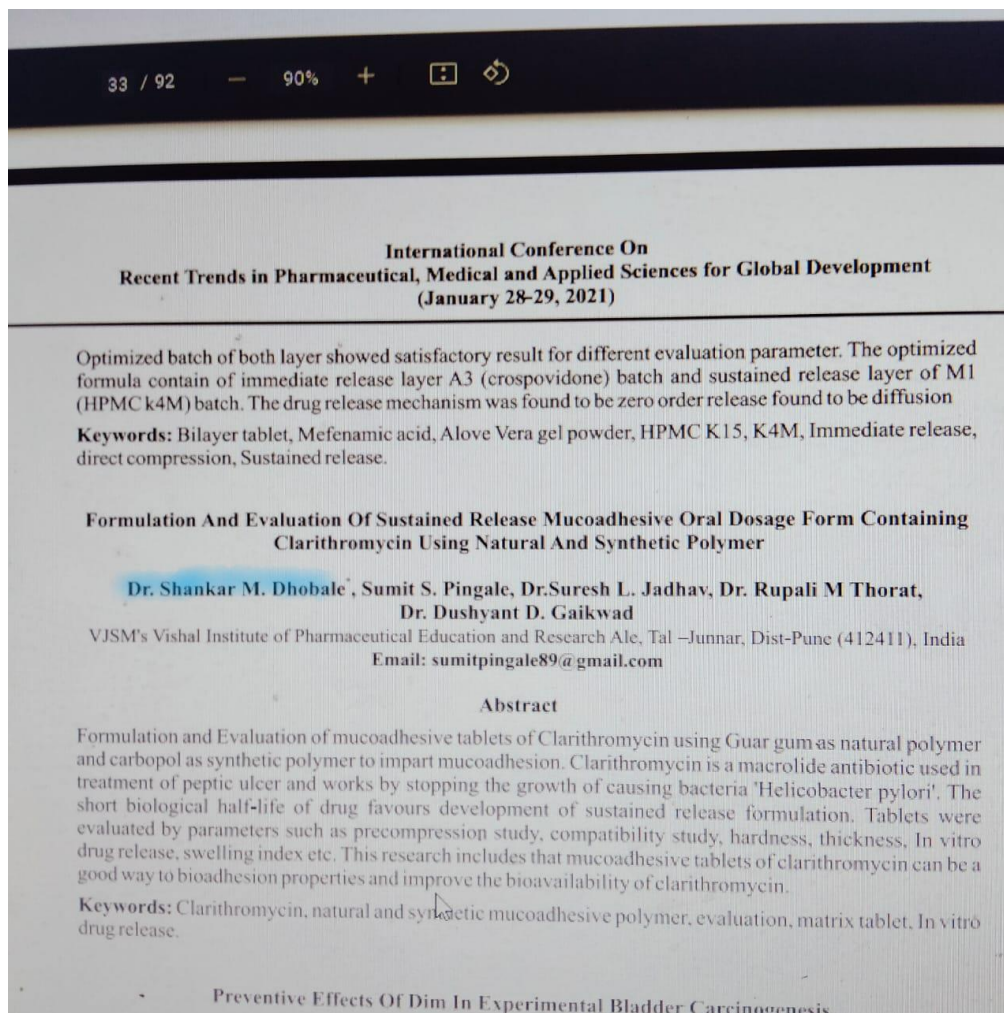


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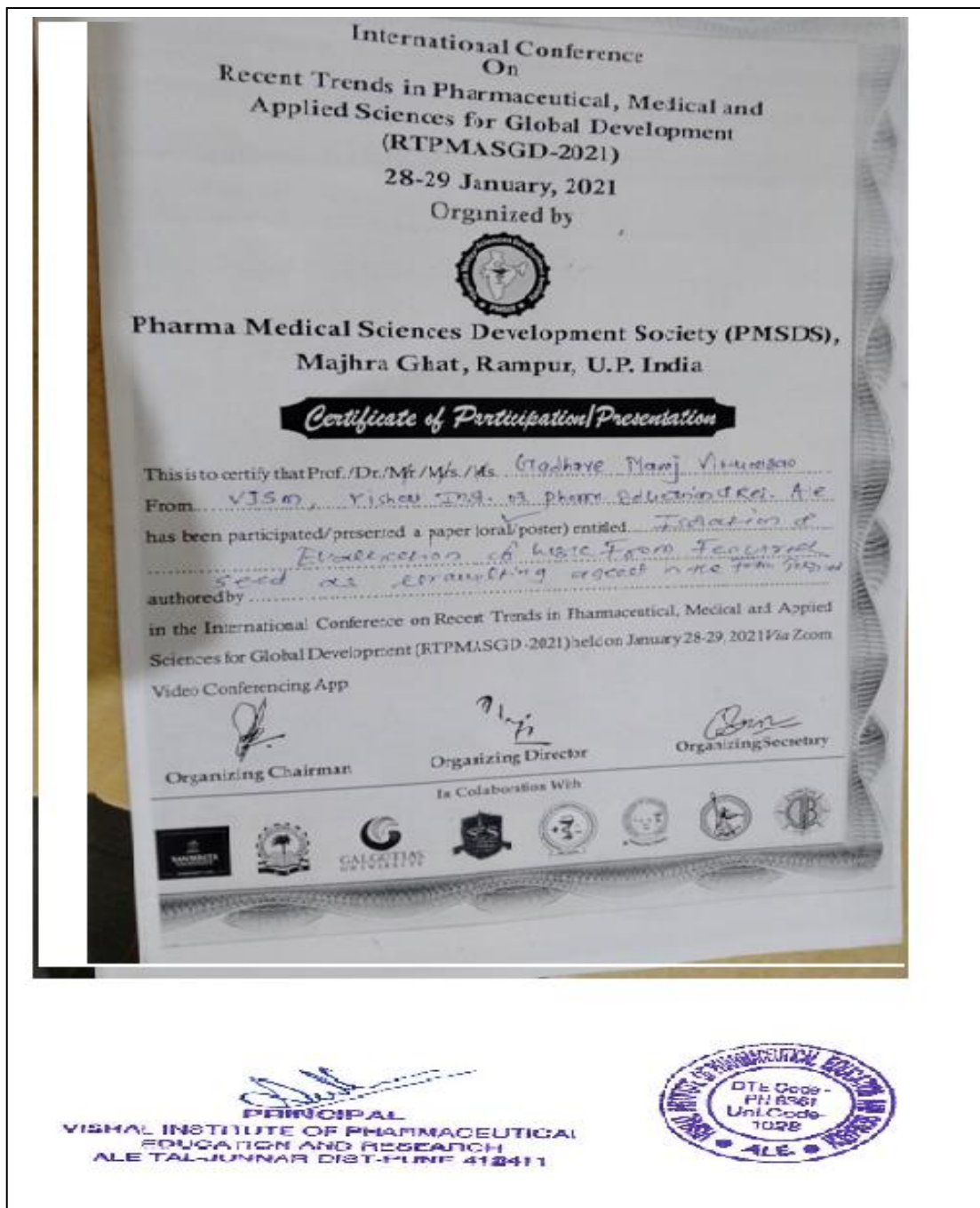
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2. Isolation And Evaluation of Husk from Fenugreek Seed as Granulating Agents In The Formulation Tablet: Dr.Gadhav M. V.



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3 Formulation And Evaluation of Herbal oil of Muraya : Dr.Dhobale G.S.



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4.Synthesis ,characterization & pharmacological screening of some pyridine & quinazoline derivative : KADAM S.S.



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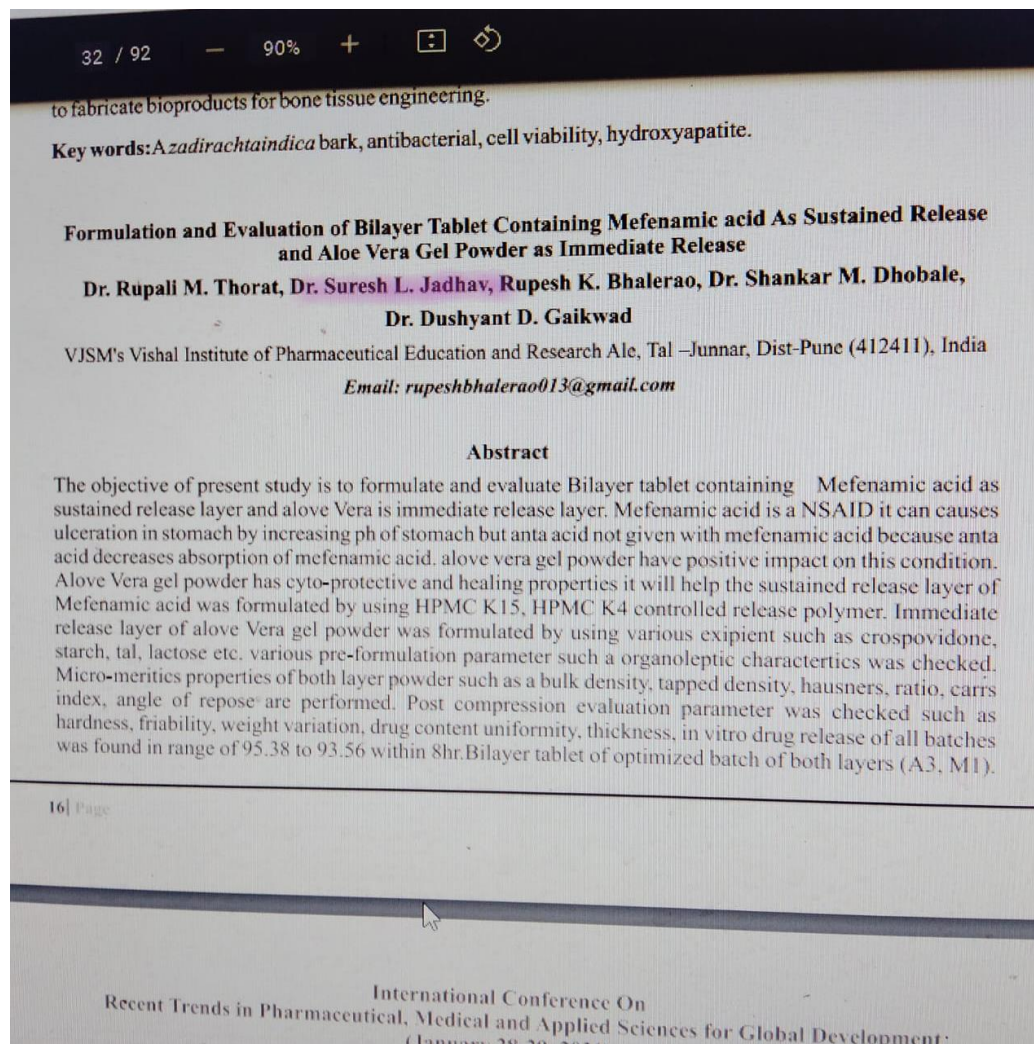
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5. Formulation And Evaluation Of Bilayer Tablet Containing Mefenamic Acid As Sustained Release And Aloe Vera Gel Powder As Immediate Release :Dr. Jadhav S.L.




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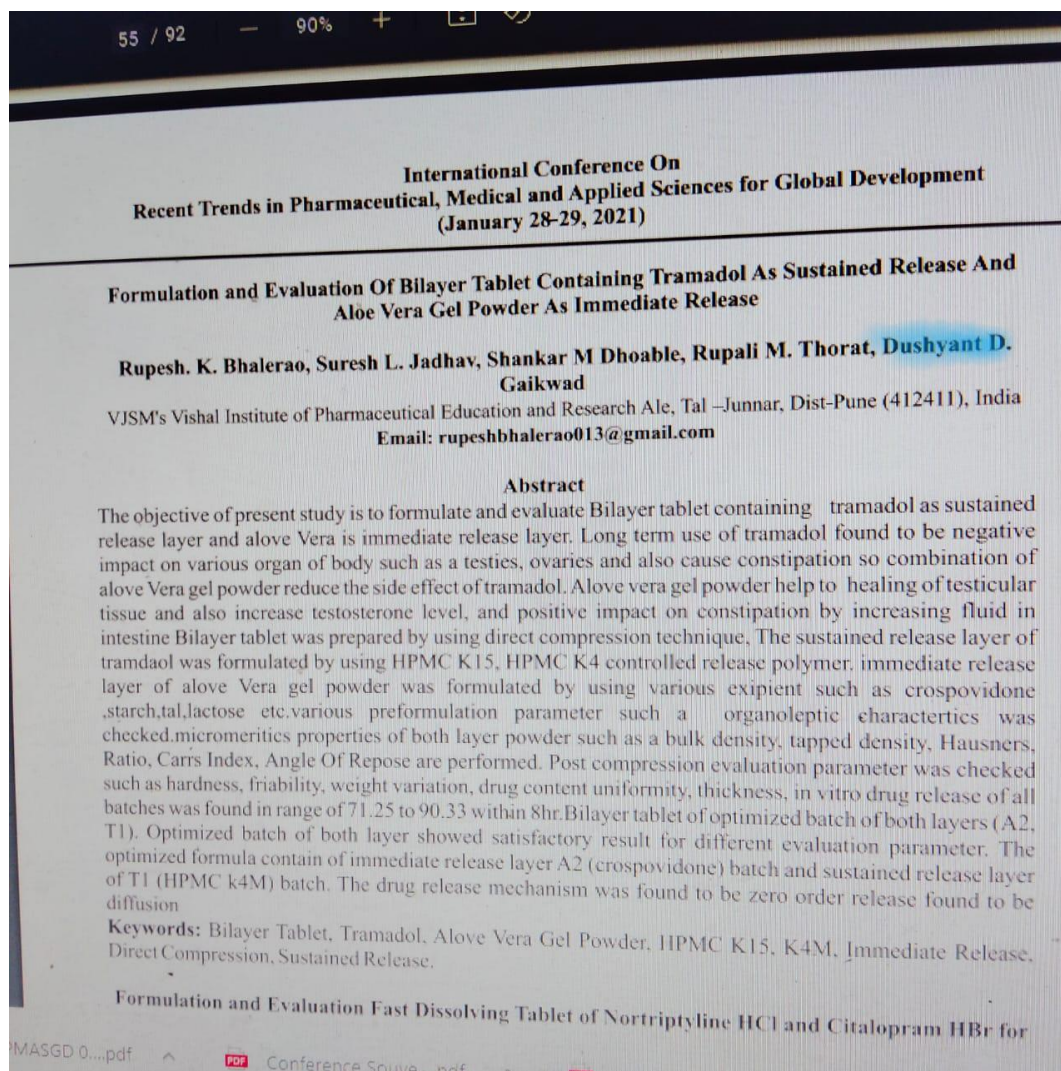
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6. Formulation and evaluation of bilayer tablet containing tramadol as sustained release and aloe vera gel powder as immediate release: Dr. Gaikwad D.D.




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7. Development and validation of Q-Absorbance ratio spectrophotometric method simultaneous estimation of simvastatin & labetalol HCL in combined dosage form : Kadam S.S.

ratio were performed. The batch which found to be the optimized batch releases the drug 1 hour with hardness of about 3.2 kg/cm². The formulation containing sodium starch glycolate 10 mg and cross-povidone (10mg) by Higuchi model. The formulation shows the rapid disintegration within 76 sec. The thickness of optimized batch was 3 mm, weight variation was 199.9±1.68 mg, friability 0.69 %, drug content about 97.21%, wetting time about 20±0.9 sec and water absorption ratio about 113±0.9.

The stability studies of fast dissolving tablet was carried out as per ICH guidelines.

Keywords: fast dissolving tablet nortriptyline hcl, citalopram hbr, direct compression, sodium starch glycolate, cross-povidone.

Development And Validation Of Q- Absorbance Ratio Spectrophotometric Method Simultaneous Estimation Of Simvastatin And Labetalol Hcl In Combined Dosage Form

Mr. Saurabh. A. Dhumane, Mr. Sachin.S.Kadam, Dr.Dushyant D. Gaikwad , Mr.Vikas. D. Kedar, Dr. Gayatri S. Dhobale

VJSM Vishal Institute of Pharmaceutical Education and Research Ale, Pune, Maharashtra (412411), India.

Email: kadam.sachin448@gmail.com

Abstract

A simple, precise, accurate and economical methods without any extraction step. The solvent used was 0.25N sodium hydroxide. Two wavelengths 246.00nm (λ_{max} of Labetalol HCl) and 243.48nm (Isoabsorptive point) were selected for estimation of Labetalol HCl and Simvastatin for Q-absorbance ratio method. The concentrations of a drugs were determined by using ratio of Q absorbances at isoabsorptive points and at the λ_{max} of Labetalol HCl methods was successfully applied to pharmaceuticals dosage forms.

Keyword: Labetalol HCl, Simvastatin, 0.25N sodium hydroxide.

Formulation And Evaluation Of Sustained Release Mucoadhesive Tablet Of Methyldopa

Sumit S. Pingale, Dr. Shankar M. Dhobale, Dr. Suresh L. Jadhav, Dr. Rupali M. Thorat
VJSM's Vishal Institute of Pharmaceutical Education and Research Ale, Tal -Junnar, Dist-Pune (412411), India
Email: sumitpingale89@gmail.com

Abstract

An aim of the present study was formulation and evaluation of sustained release mucoadhesive tablets of methyldopa using mucoadhesive polymers to impart mucoadhesion. Methyldopa is a drug used in hypertension and also used in heart failure. Methyldopa is also used for hypertension in pregnancy. But this

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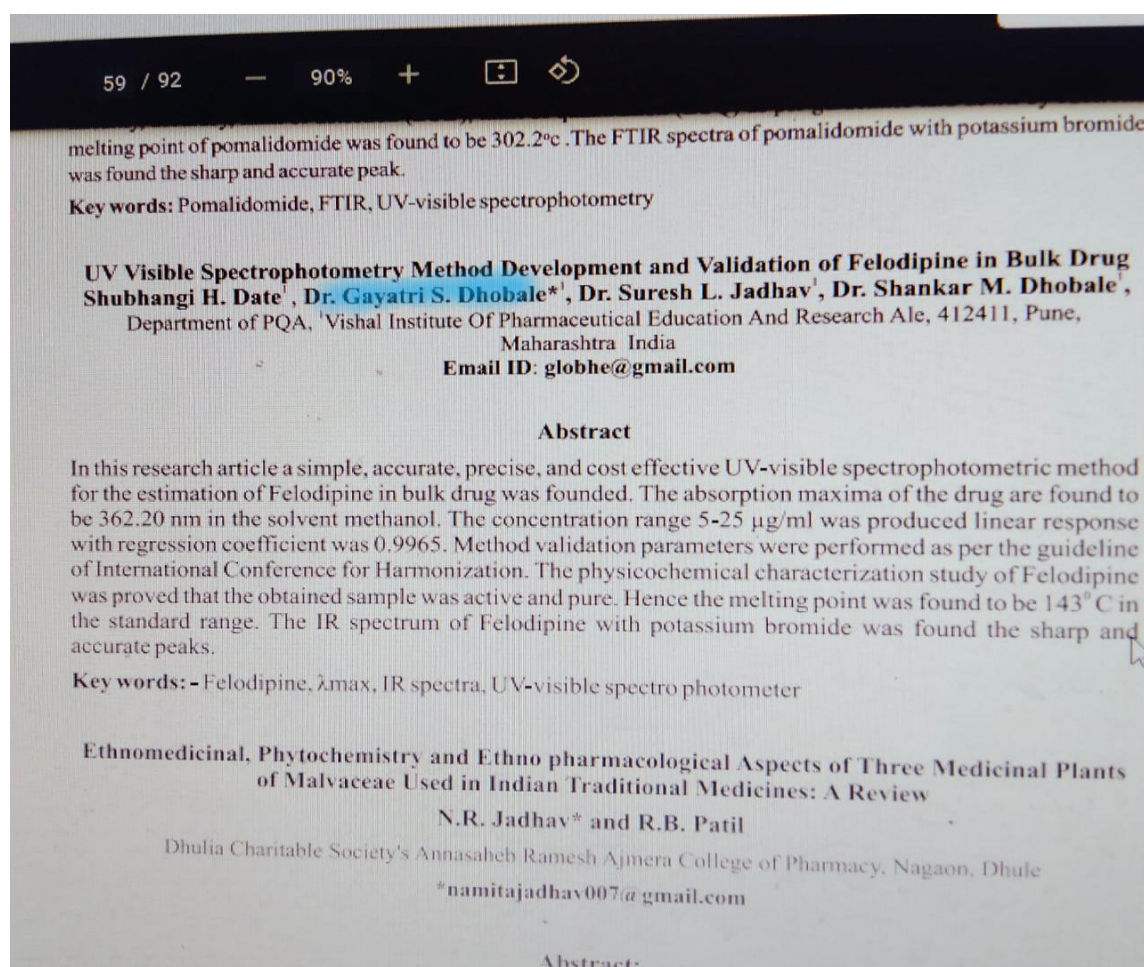
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8. UV Visible spectrophotometry method development and validation of felodipine in bulk drug

:Dhobale G.S.




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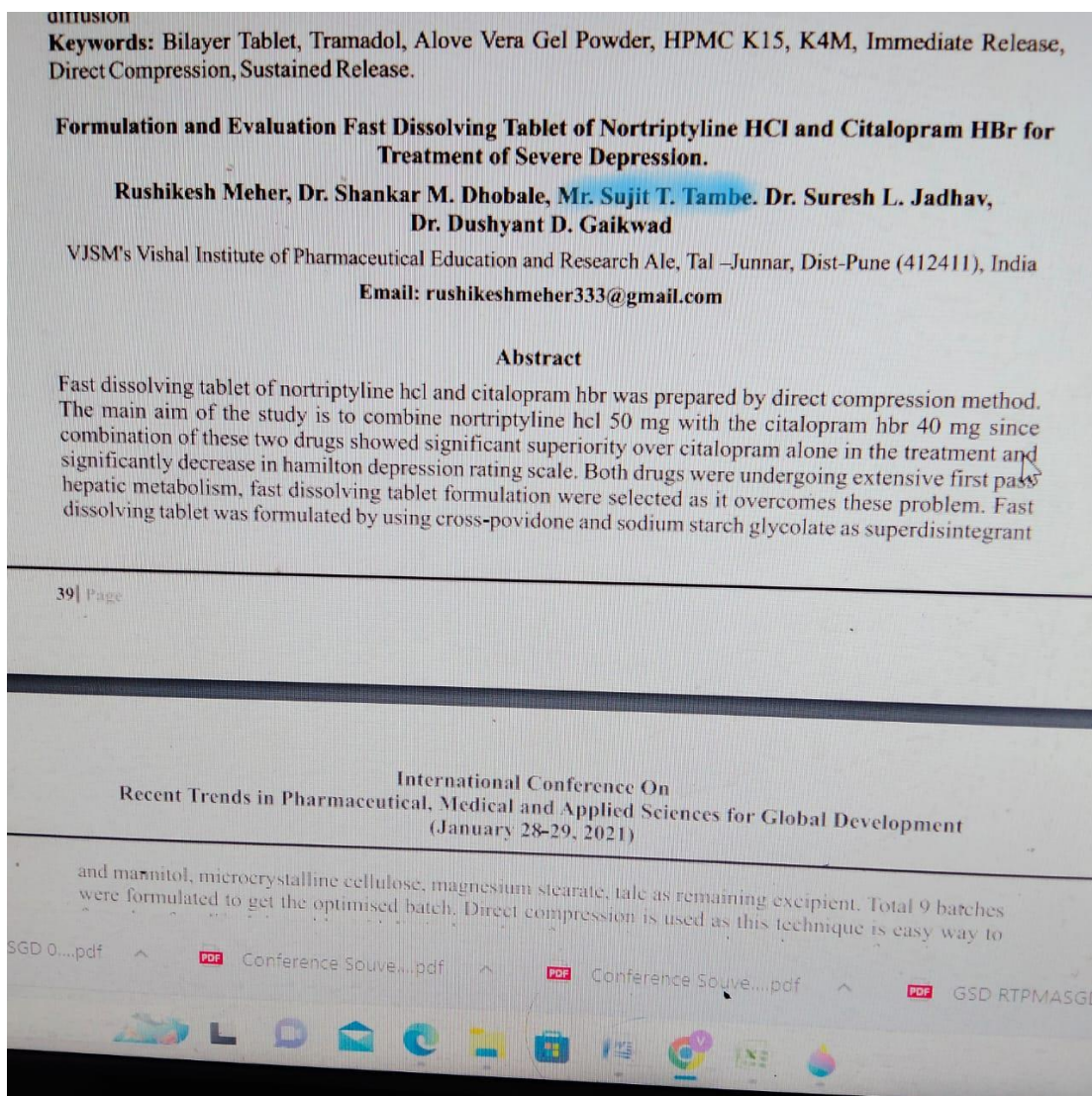
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9. Formulation And Evaluation Fast Dissolving Of Nortriptyline Hcl And Citalopram Hbr For Treatment Of Severe Depression : Tambe S.T.



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Academic Year 2019-20

Total of Books/Chapters/ papers in proceedings=02


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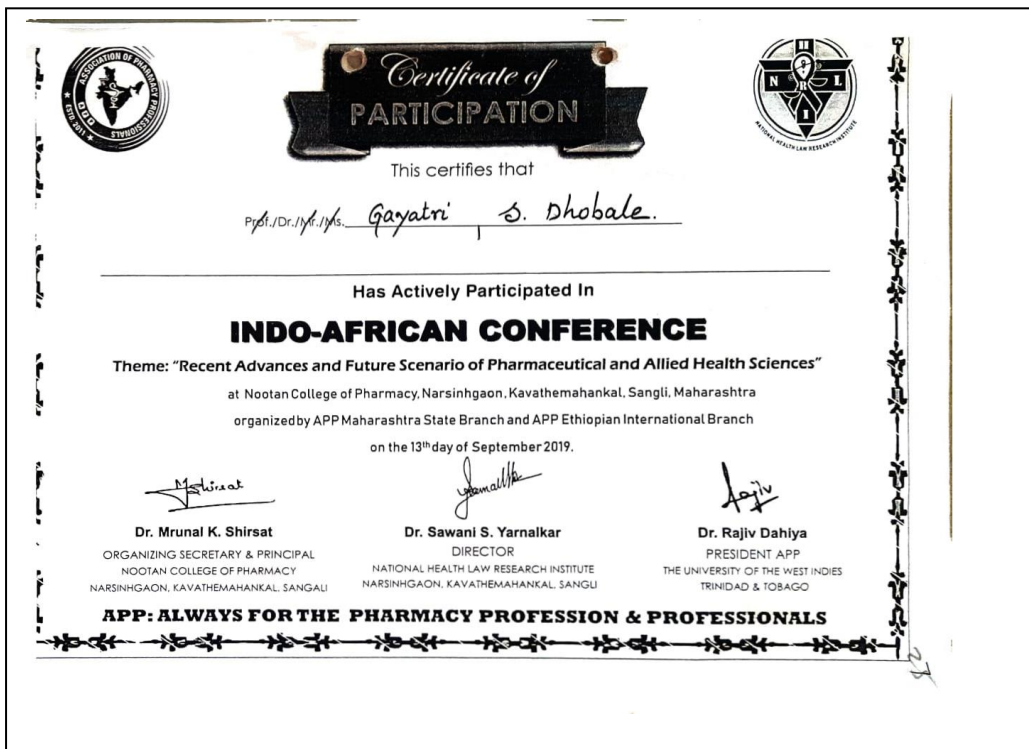
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1. Simultaneous Estimation of Simvastatin and Metformin in Bulk and Solid Dosage Form by UV Spectro photo metric Method:Dr. Dhobale G.A.




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2. Formulation and Evaluation of sustain release Bilayer Tablet of Verapamil and Ramipril Using Hydrophilic Polymer : Dr.Dhobale S. M.



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Academic Year 2018-19

Total of Books/Chapters/ papers in proceedings=06


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1.QbD Approach for Manufacturing and Lamotrisine Immediate Release Tablet : Dr.Gadhav M. V.



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Whereas, in static image analysis (DLS) the size of nanosponges obtained in the nanometer size of 242 nm. The value of zeta potential -24.5 mV indicates the more retention time for nanosponges and long term stability. From the accelerated stability study, it was confirmed that, prepared nanosponge was stable. Anthelmintic activity revealed that the optimised formulation is most effective as compared to the results of the marketed formulation and plain drug. It is thus concluded that controlled drug delivery via the polymer and whey protein based systems has been proposed to be conquest both in present and in future; as having copious prospective advantages for scientific as well as economic reasons.



Scientific Oral Presentation Code: O-PH12

Title: **QUALITY BY DESIGN APPROACH FOR MANUFACTURING OF LAMOTRIGINE IMMEDIATE RELEASE TABLET**

Gadhav M.V., Dhobale S.M., Jadhav S.L., Gunjal Ashwini.

Vishal Institute Of Pharmaceutical Education And Research ,Ale , -Ta. Junnar Dist -Pune

Abstract:

In the present quality assurance research work Lamotrigine Immediate Release tablet 25mg has been undertaken in accordance with Quality By Design guidelines. Quality by design a common understanding of the concept of ICH guideline Q8, Q9 & Q10 is now a day treaded as an essential tool in the process of formulation development. The development of Target Product Profile & Critical Quality Attributes were done after dew consideration of risk assessment before finalization of these attributes. As Lamotrigine is poorly soluble (BCS class-II) it may effect bioavailability, Hence, Solid dispersion approach was taken as risk assessment measure. Product design space & process parameters were finalized on the basis of critical material attributes. Control strategies for continuous monitoring & updating of the process requirements were also highlighted. In the present research work critical process parameters were validated. The critical process parameter impacts on Quality. The Quality By Design principle & tools demonstrated in present research work will be useful in creating & developing control strategies in similar formulation & process development.

Progressive Education Society's, Modern College of Pharmacy, Nigdi, Pune

Dates: 4 & 5 January 2019


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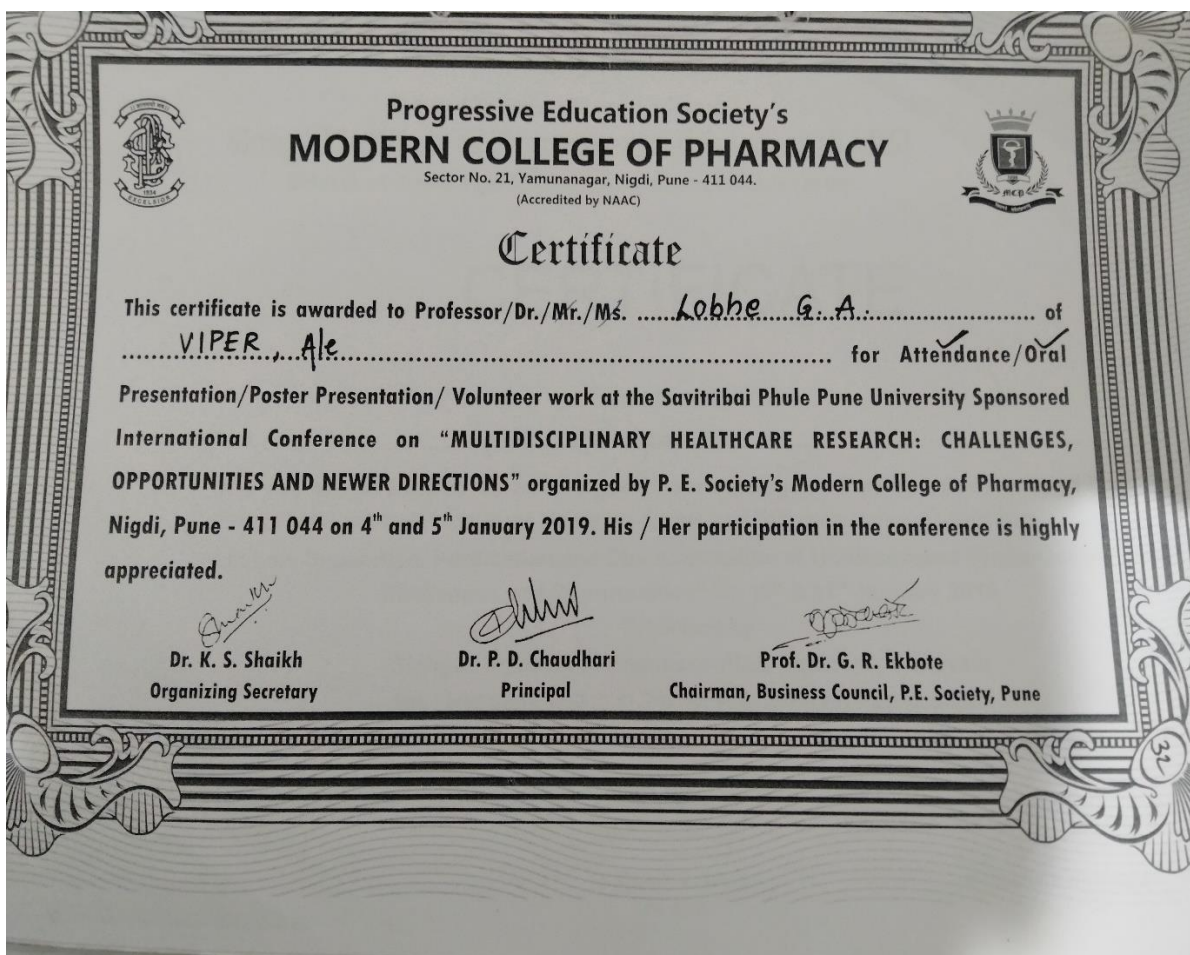
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2. Implementation on of Quality by Design Based Approach for RP HPLC Method Estimation of Saxagliptin Monohydrate : LOBHE G.A. (After marriage name =Dr.Dhobale G. S)



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Scientific Poster Presentation Code: P-PCH20

Title: IMPLEMENTATION OF QUALITY BY DESIGN BASED APPROACH FOR RP-HPLC METHOD ESTIMATION OF SAXAGLIPTIN MONOHYDRATE

Author: Globhe Gayatri A.*, Tambe S. T., Dhobale S. M., Jadhav S. L.
 Department of Pharmaceutical Chemistry, VJSM's Vishal Institute of Pharmaceutical Education & Research, Ale, Pune-412411, (Maharashtra) India.
 E-mail: globhe@gmail.com

Abstract:

The development of a simple, sensitive, specific, a gradient RP-HPLC method and validation for the determination of saxagliptin monohydrate in bulk and pharmaceutical formulation was addressed. RP-HPLC method was developed by implementing QbD methodology (RSM and 3 level factorial design) on analytical column- reversed phase Thermo BDS HYPERSIL C18 150 X 4.6 mm, 5 µm with mobile phase 10mM Potassium dihydrogen Phosphate: Acetonitrile (85:15 v/v). The flow rate used was 1 mL/min and UV detection was carried out at 208 nm. The retention time for Saxagliptin was found 3.38 min. Linearity of the peak area responses Vs Conc. from 10 to 100 µg/ml. R.S.D.: 0.29%. Recovery data were within the range of 99.92 and 100.25%, R.S.D: 0.17%, LOD: 1.06 µg/ml and LOQ: 3.22 µg/ml. Before method optimization, screening studies were carried out on different mobile phases, varying composition and pH. Based on the results obtained from these studies, suitable mobile phase with appropriate composition and pH was selected and utilized for method development using QbD methodology.

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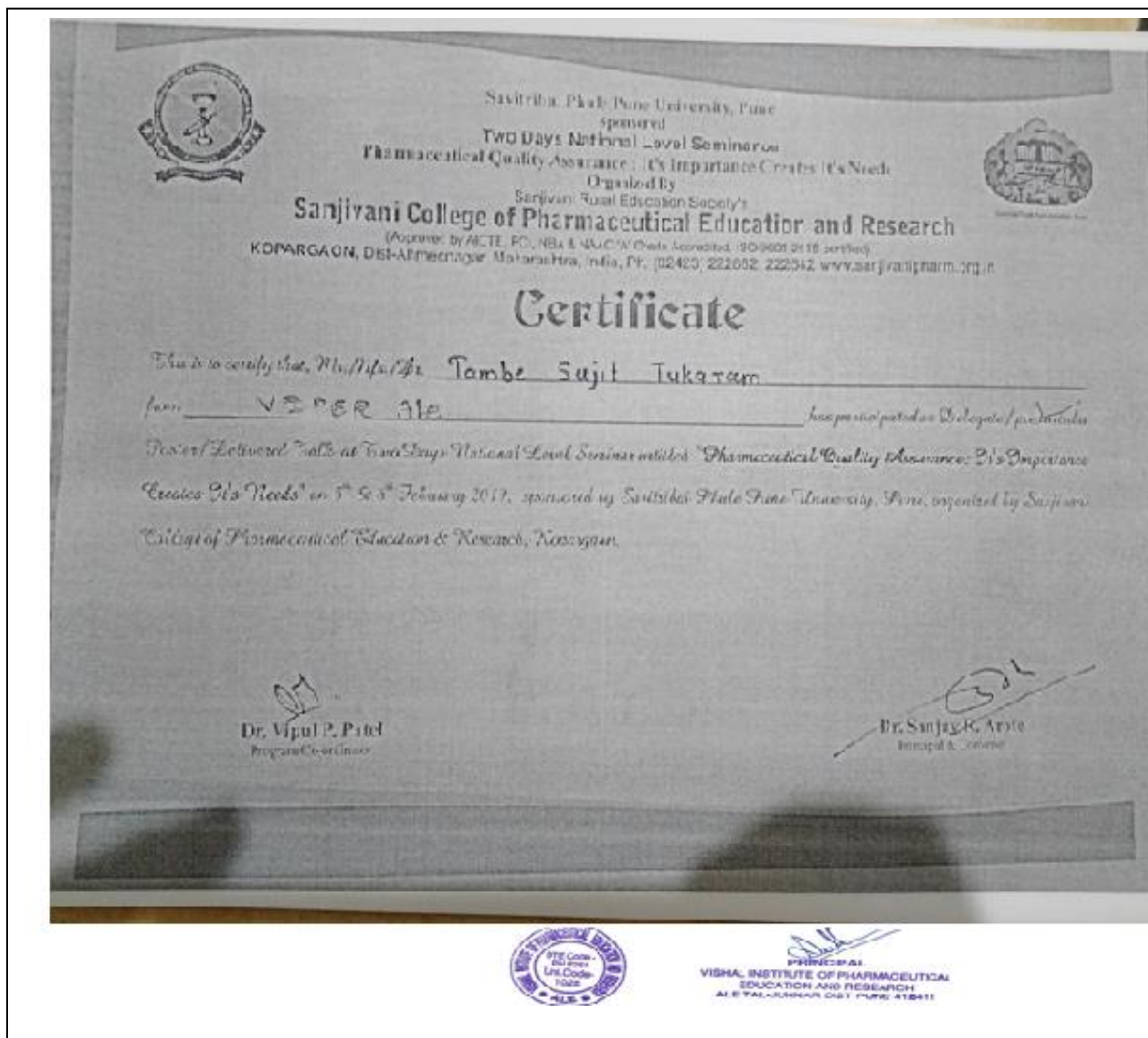
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3. Formulation and Evaluation of The Orally Disintegrating Tablets of Cetirizine Hydrochloride: Mr .Tambe S.T.



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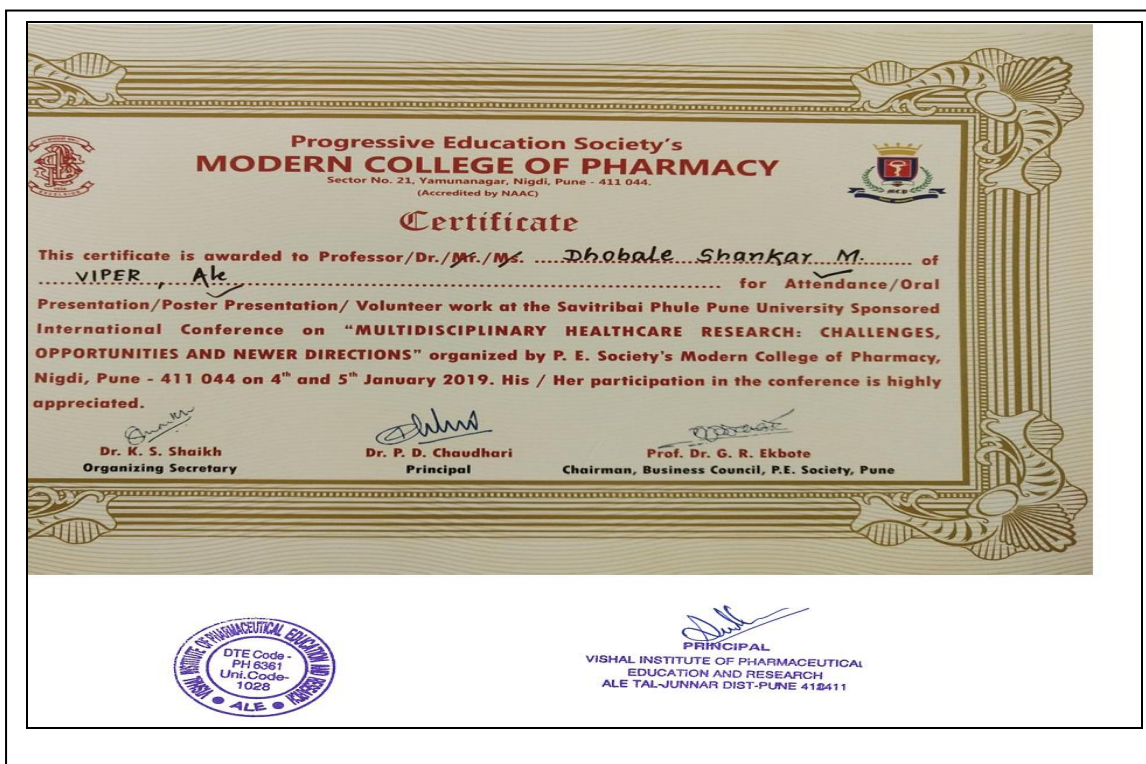
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4. Formulation And Evaluation of Micro Sponge of Lecarnidipine: Dr.Dhobale S. M.



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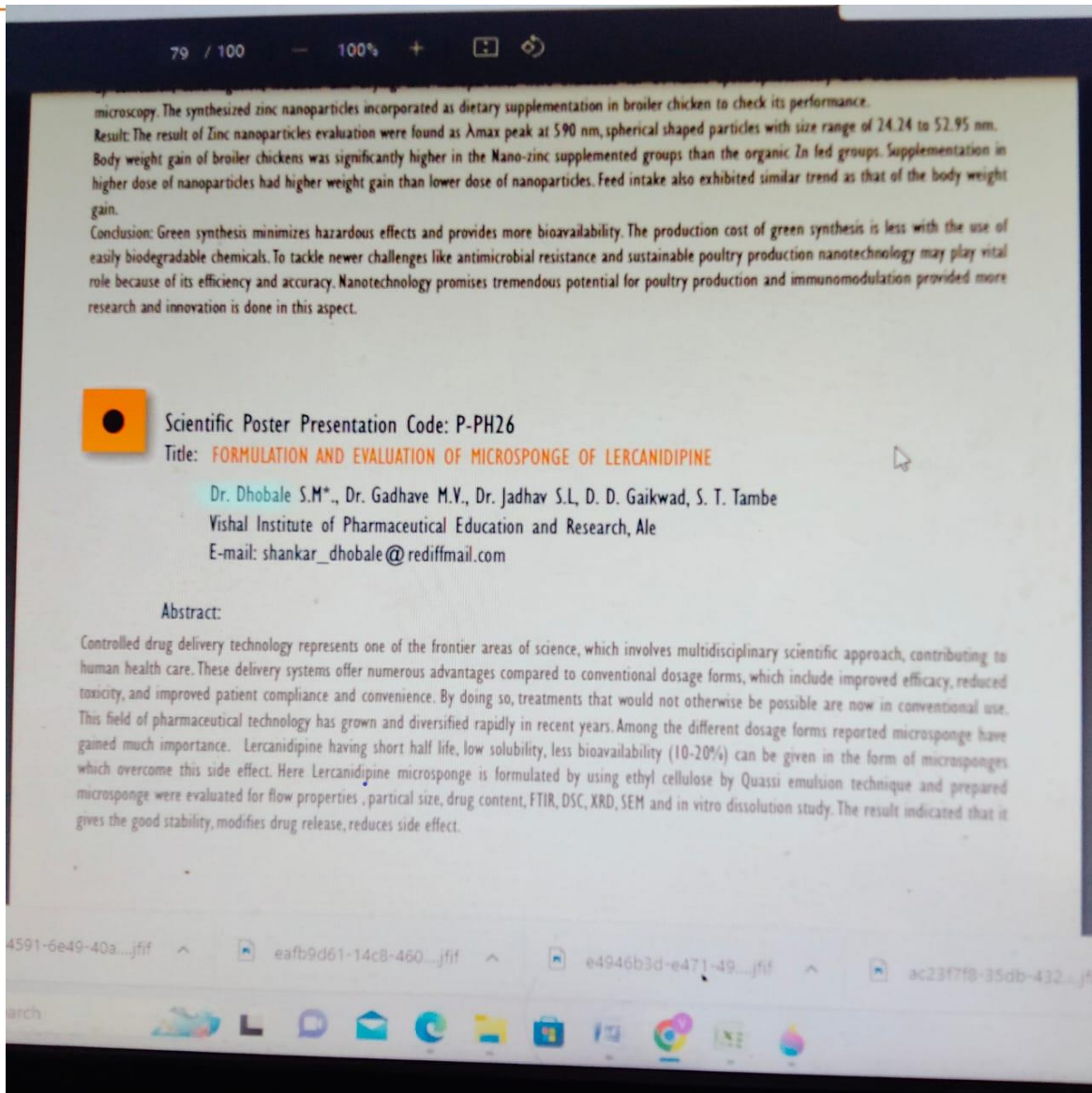


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5 .Design and characterization of bilayer tablet of containing simvastatin as sustain release and labetalol as immediate release : Dr. S.M. DHOBALE

43 / 100 — 100% + [] []

Savitribai Phule Pune University Sponsored International Conference On "Multidisciplinary Healthcare Research: Challenges, Opportunities And Newer Directions"

Scientific Oral Presentation Code: O-PH09
Title: DESIGN AND CHARACTERISATION OF BI-LAYER TABLET OF CONTAINING SIMVASTATIN AS SUSTAIN RELEASE AND LABETALOL AS IMMEDIATE RELEASE

Harshad B. Padekar,* Dr. S.M. Dhobale
 Department of Pharmaceutics, Vishal Institute of Pharmaceutical Education and Research ale,Tal — junnar Dist-pune(412411).
 E-mail: harshadpadekar@gmail.com

Abstract:
 The objective of present investigation is to design and characterisation of sustain release Simvastatin and immediate release of Labetalol bi-layer tablet. The combination therapy of Simvastatin and Labetalol is useful in serious cardiovascular disease such as hypertension, angina pectoris, congestive heart failure which may occur along with increasing cholesterol level in the blood, while this combination remain preferable choice to the patient as compared to single dosage form. The bi-layer tablet is suitable for sequential release of two drug in combination both are compatible but objective of preparation of bi-layer tablet is one layer is sustained and another is immediate release. for the preparation of bi-layer tablet use different super disintegrants like cross carmellose cellulose, micro crystalline cellulose in for immediate release and HPMC and Carbapol as controlled release polymer. The pre-formulation parameter such as solubility, melting point, compatibility study (FTIR) are studied, pre-compression parameter such as angle of repose, bulk density, tapped density, hausner's ratio and compressibility index were studied. The tablet were evaluate by physical and chemical parameter such as weight uniformity, hardness, thickness, diameter, friability, drug content, disintegration time and in-vitro drug release. The dissolution data were subjected to various release kinetic model to recognize the mechanism of drug release.

Scientific Oral Presentation Code: O-PH10
Title: ASSESSMENT OF PERMEABILITY BEHAVIOR OF BENZALKONIUM CHLORIDE ACROSS GOAT INTESTINAL MEMBRANE IN PRESENCE OF NATURAL BIOPOTENTIATOR CURCUMIN

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synthesis. Synthesize novel Quinoline derivatives are carried out using 4,7- dichloroquinoline with 1,3- diaminopropane as starting material by reflux. All the synthesized compounds was confirmed by their physicochemical properties and spectral studies. Molecular docking was carried out by V-Life MDS Software and were performed to evaluate affinity of the proposed compounds towards the SERT enzyme (PDB code: 6AWP), which is actively involved in depression. Novel Quinoline derivatives were assess for antidepressant activity by using Forced swimming test. On the basis of biological activity and in silico studies, synthesized compounds (4b, 4d, 4f and 4i) showed good antidepressant activity due to presence of electron withdrawing groups (chloro and nitro) at -p, -o and -m position of the phenyl ring; while compounds (4a, 4c, 4e, 4g, 4h, 4j, 4k and 4l) shows moderate antidepressant activity comparable to the reference drug fluoxetine. Thus, the conclusion can be made that the Quinoline moiety can exhibit a good antidepressant activity.

The development of a simple, sensitive, specific, a gradient RP-HPLC method and validation for the determination of saxagliptin monohydrate in bulk and pharmaceutical formulation was addressed. RP-HPLC method was developed by implementing QbD methodology (RSM and 3 level factorial design) on analytical column- reversed phase Thermo BDS HYPERSIL C18 150 X 4.6 mm, 5 μ m with mobile phase 10mM Potassium dihydrogen Phosphate: Acetonitrile (85:15 v/v). The flow rate used was 1 mL/min and UV detection was carried out at 208 nm. The retention time for Saxagliptin was found 3.38 min. Linearity of the peak area responses Vs Conc. from 10 to 100 μ g/mL. R.S.D.: 0.29%, Recovery data were within the range of 99.92 and 100.25%, R.S.D.: 0.17%, LOD: 1.06 μ g/mL and LOQ: 3.22 μ g/mL. Before method optimization, screening studies were carried out on different mobile phases, varying composition and pH. Based on the results obtained from these studies, suitable mobile phase with appropriate composition and pH was selected and utilized for method development using QbD methodology.

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7. Synthesis and Evaluation of one two three four tetra hydropyrimidines and thiophene two pyrimidine for anticancer and anti-inflammatory activity : Mr. Hole M. B.



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8. Synthesis and Evaluation of two pyrimidine's derivatives for analgesics activity:

Mr. Hole M. B.



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1. Formulation And Evolution of Luliconazole Emulgel for Topical Drug Delivery: Dhobale S. M.



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Int. Res. J. of Science & Engineering, 2018; Special Issue A3 :85-90
ISSN: 2322-0015

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UGC Approved Journal No. 63628

RESEARCH ARTICLE **OPEN ACCESS**

Formulation and Evaluation of Luliconazole Emulgel for Topical Drug Delivery

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ABSTRACT

The aim of the present study was to develop an emulgel formulation of Luliconazole using carbopol 934 as a gelling agent. The Luliconazole has anti-Fungal activity. It acts by inhibiting lanosterol demethylase, which is major component of fungus cell wall. Emulgel has emerged as a promising drug delivery system for the delivery of hydrophobic drugs. The prepared emulgel were also evaluated for their physical properties, pH, drug content and rheological properties. *Candida albicans* was used as a model fungus to evaluate the antifungal activity of the prepared formulations. Stability studies revealed no significant differences in formulation.

It was concluded that Luliconazole emulgel formulation (F3) prepared by using Carbapol 934 as gelling agent, emulsifying agent in its high level and liquid paraffin in its low level was the choice of formula, since it showed the highest drug release and antifungal activity.

Keywords: Emulgel, Luliconazole, Topical drug delivery.

INTRODUCTION

Topical formulations apply a wide spectrum of preparations both cosmetic and dermatological, to healthy or diseased skin [1]. These formulations range in consistency from solid through semisolid to liquids. When gels and emulsions are used in a combined form, the dosage forms are referred to emulgel. [2, 3] As the name suggests they are the combination of emulsion

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2. Synthesis and Evaluation of 1, 2, 3, 4-Tetrahydropyrimidines Analgesics Activity: Mr.Hole M.B.



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4. Synthesis Characterization and Pharmacological Screening of Some Pyrimidine Derivatives: Mr. Kadam S. S.



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RESEARCH ARTICLE

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Microwave assisted synthesis and biological evaluation of tetrahydropyrimidine derivatives

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ABSTRACT

Twelve [6- (2-methoxy-phenyl)-2-oxo-4-phenyl / substituted phenyl-1, 2,3, 4- tetrahydropyrimidine-5-yl] acetic acid derivatives have been synthesized in a two-step reaction. In the first step benzene or substituted benzene react with succinic anhydride in presence of aluminum trichloride (Friedel Craft reaction) to obtain 4- (substituted phenyl)-4-oxo- butanoic acid. Second step involves synthesis of [6-(2-methoxy-phenyl)-2-oxo-4-phenyl/substituted phenyl-1,2,3,4-tetrahydro pyrimidine -5-yl] acetic acid by reaction between 4-(substituted phenyl)-4-oxo- butanoic acid, urea and substituted aldehydes (Biginelli reaction). Their structures are confirmed by IR, ¹H NMR. T.L.C. of synthesized compounds performed in chloroform: ethanol (3:1) solvent system. The anti-inflammatory activity of all compounds has been recorded on the basis of reference standard Indomethacin. All the compounds showed tendency to cause a fall in oedema and showed anti-inflammatory activity. The anti-inflammatory data shows that use of anisole in first step plays important role in the activity. Anti-inflammatory activity of all compounds was taken by Carrageenan induced rat paw oedema as described by Winter et al. on albino rats.

Keywords: Pyrimidine, Anti-inflammatory activity, aryl aldehyde acid, NEATV.


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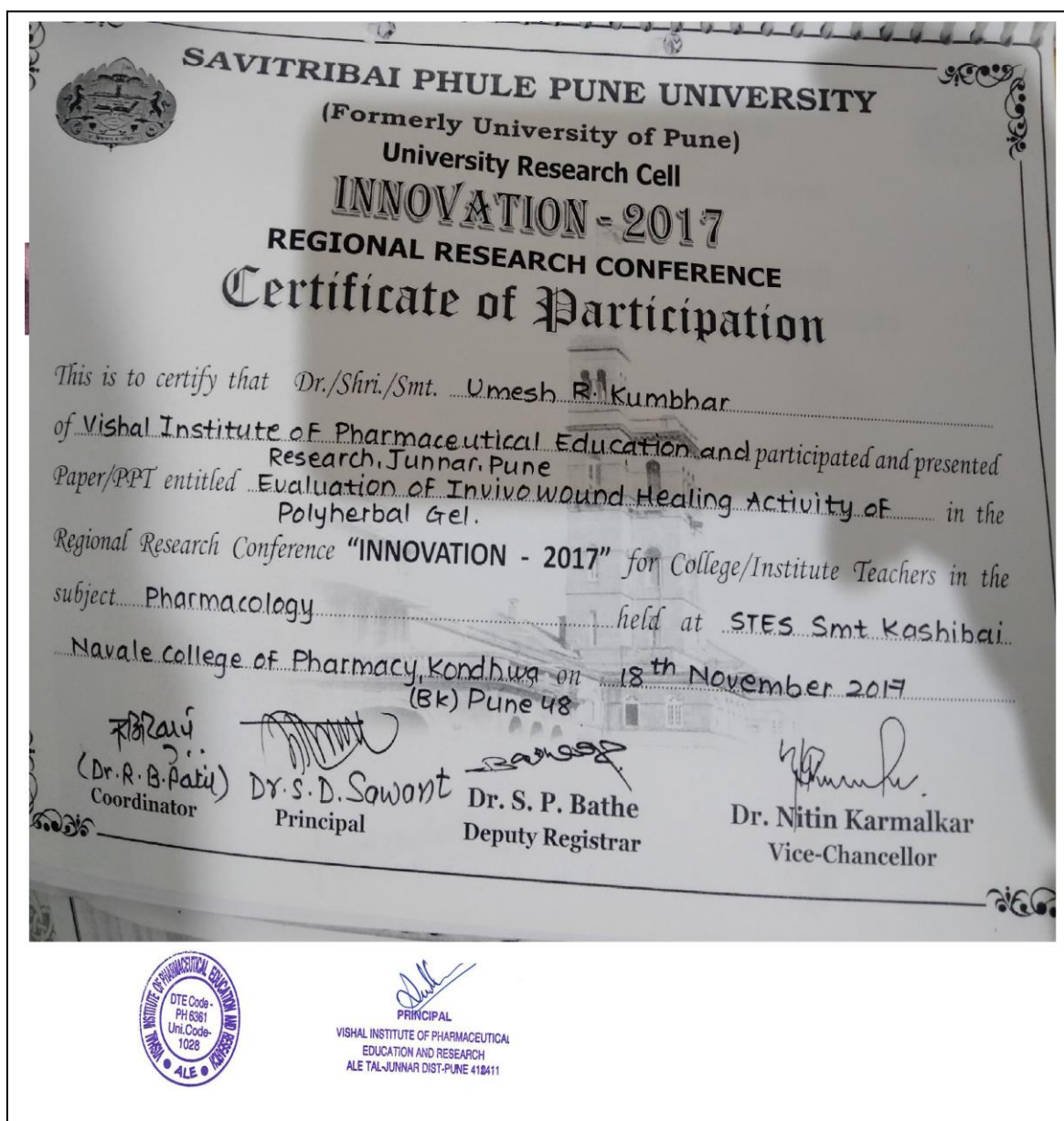
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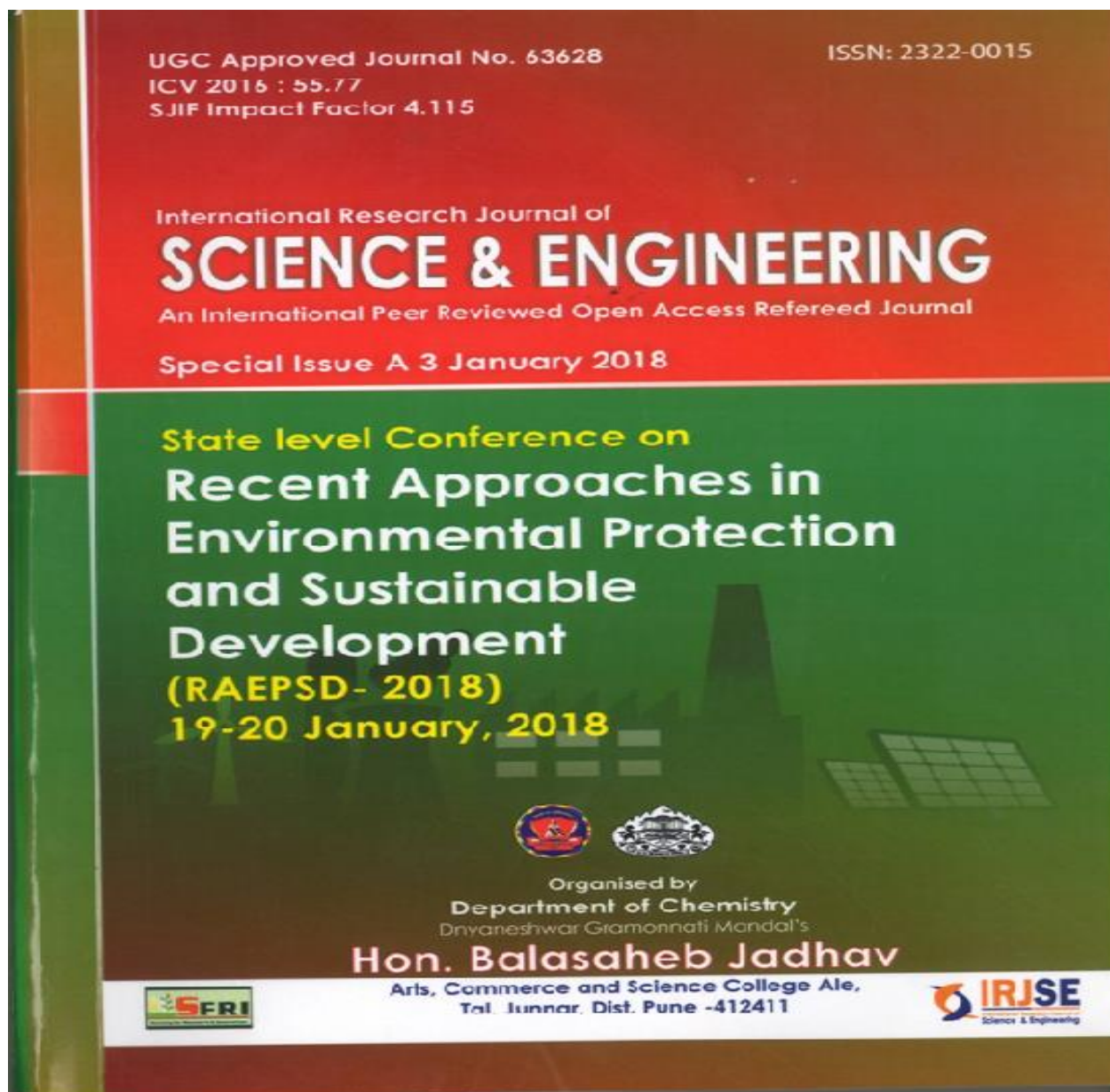


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7. Synthesis And Evaluation of Some Tetra Hydro Pyrimidine Derivatives as AntiTumor Agents: Mr. Hole M. B.



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RESEARCH ARTICLE

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Synthesis and evaluation of some 1,2,3,4-tetra-hydro pyrimidine derivatives as antitumor agents.

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ABSTRACT

Sixteen [3, 6 (4- substituted aryl)-1-(1,2 hydrazino-2-oxo-ethyl)-2-oxo-1, 2, 3, 4-tetrahydropyrimidine-5-yl] propionic acid derivatives have been synthesized in a four-step reaction. In the first step benzene or substituted benzene react with glutaric anhydride in presence of aluminum trichloride (Friedel Craft reaction) to obtain 5-(substituted phenyl)-5-oxo pentanoic acid. Second step involves synthesis of [4, 6 (4-substituted aryl)-2-oxo-1, 2, 3, 4- tetra-hydro-pyrimine-5 yl propionic acid by reaction between 5-(substituted phenyl)-5-oxo pentanoic acid, urea and substituted aldehydes (Biginelli reaction). Third step involves reaction of [4, 6 (4-substituted aryl)-2-oxo-1, 2, 3, 4- tetra-hydropyrimine-5 yl propionic acid was dissolved in a solution prepared by reacting Na (0.1mol) with 200ml of absolute ethanol and then solution is refluxed with ethyl chloroacetate to produce. 3-[4-chloro-6-(4-chlorophenyl)-1-(2-ethoxy-2-oxoethyl)-2-oxo-1,2-dihydropyrimidin-5-yl] propanoic acid. In forth step Compound (3) was treated with hydrazine hydrate to form [3, 6 (4- substituted aryl)-1-(1,2hydrazino-2-oxoethyl)- 2oxo- 1,2,3, 4tetrahydro pyrimidine -5-yl] propionic acid derivatives. Their structures are confirmed by IR, ¹H NMR. TLC of synthesized compounds performed in chloroform: ethanol (3:1) solvent system. All compounds were screened for their antitumor activity by trypan blue assay at (1 µg /mL, 10 µg/mL, 100 µg /mL, 1000 µg /mL). And their results were compared with standard drug Cyclophosphamide.

Key words: Pyrimidine, Antitumor activity, aryl alkanolic acid.

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Formulation and Evaluation of Diclofenac Sodium Gel by Using Carbopol

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ABSTRACT

High Molecular weight water soluble homo polymer of Carbopol are reported to possess very high viscosity in low concentration, transparency, film forming properties and are useful in formation of gel. The objective of this research is to prepare and evaluate 2% polymer containing transdermal gel of Diclofenac sodium. The gel was prepared and evaluated for pH, Spreadability, Consistency, Homogeneity, Drug Content, Skin Irritation test and In vitro Diffusion Study. The percentage drug release was 97.66%. It can be concluded that preparation of diclofenac sodium by using 2% carbopol 934P Grade were prepared and evaluated.

Keywords – Water soluble polymer, Diclofenac Sodium, Carbopol 934 P, Topical drug delivery.

INTRODUCTION

Topical gel Preparation is intended for skin application and to certain mucosal surfaces for local action of percutaneous penetration of medicament or for their emollient and protective action [1]. Gel are typically formed from a liquid phase that has been thickened with other components. The continuous liquid phase allows free diffusion of molecules through the polymers and hence release should be equivalent to that from the simple solution [2]. NSAID's are non-steroidal drugs having excellent anti-inflammatory and analgesic activity but NSAID produces GIT ulceration, liver and kidney



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