3.3- Research Publications and Awards

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

DVV Query

- **Cover page ,Content page and first page of the selected publication**
- **Web-link of books**

DVV Clarifications

- **Cover page ,Content page and first page of the selected publications are provided**
- **Web-link of books are provided**

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

Shri. Balasaheb Mane Shikshan Prasarak Mandal, Ambap's
ASHOKRAO MANE COLLEGE OF PHARMACY
Approved by PCI & AICTE New Delhi, DTE-Government of Maharashtra,
Affiliated to Shivaji University, Kolhapur
Peth Vadgaon Tal. Hatkanangale, Dist. Kolhapur (MH) PIN 416 112
Web: www.amcoph.org | **Phone:** 0230-2471360/61 | **E mail:** copbpharm@gmail.com

Sr. No.	Name of the Teacher	Title of the paper	Name of the Conference	National/ International	Affiliation institute
AY 2021-22					
1	Dr.S.B.Sutar	"Preparation and Evaluation of Nanoparticles from Natural PlantExtract"	Short invited talk at the First International Online Conference on Blends,Composites, BioComposites andNanocomposites	International	AMCP, Peth-Vadgaon
2	Mrs. P. S. Sankpal	Formulation and evaluation of herbal nanoparticle for bioavailability enhancement	Emerging Challenges and Advances in Neurosciences Amity university Uttar PradeshLucknow campus	National	AMCP, Peth-Vadgaon
3	Mrs. P. S. Sankpal	Synthesis of herbal nanoparticles and their applicationsin the treatment of colorectal cancer	3rdInternationalMultidisciplinary ConferenceonEmergingTrendsin Humanities,Commerce,Management,ScienceandTechnology(IMCET-2021)	International	AMCP, Peth-Vadgaon
4	Dr.S.B.Sutar	Kinetic Study of Melatonin By Validated Stability IndicatingHPTLC METHOD	International Conference on Emerging Trends in Drug Discovery and Development (ICETD3-2022)	International Presentation	AMCP, Peth-Vadgaon
5	Ms. S. S. Suryawanshi	Formulation and Evaluationof Ointment containing aqueous extract of *Quisqualis indica* Linn Leaves"	Cytogenetics, in vitro Culture and Phytochemistry of Plants and Microbes for Sustainable Use	Oral Presentation	AMCP, Peth-Vadgaon
6	Dr.S.B.Sutar	Structure Elucidation of DegradationProducts of Drospirenone by using Stability Indicating HPTLC Method" during Indo-Caribbean Virtual International Symposium	APP Indo-Caribbean Virtual International Symposium	International Oration	AMCP, Peth-Vadgaon

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7	Ms. Aishwarya Prakash Bhosale	Artifical Intelligence	ANationalLevelE-PosterCompetitionforPharmaFacultyorganizedbyAshokraoManeGroupofPharmacyCollegesincollaborationwith AssociationofPharmaceuticalTeachersofIndia(APTI).	E-Poster	AMCP, Peth-Vadgaon
8	Ms. S. S. Suryawanshi	New Education Policy	ANationalLevelE-PosterCompetitionforPharmaFacultyorganizedbyAshokraoManeGroupofPharmacyCollegesincollaborationwithAssociationofPharmaceuticalTeachersofIndia(APTI).	National Poster Presentation	AMCP, Peth-Vadgaon
9	Ms. S. S. Suryawanshi	Role of Tinispora cordifolia in boosting immune system	PRIP INNOVATE- 5 "Individual and Institutional Measures to Enhance the Effective use of Plants as Nutraceuticals	National Poster Presentation	AMCP, Peth-Vadgaon
10	Dr.S.B.Sutar	Forced degradation studies of drospirenone and in silico toxicology predictions for its new designated impurities	Global Conference on Pharmaceutics and Novel Drug Delivery Systems"Magnus Group Conferences and Organizing Committee	Invited Talk at International Conference	AMCP, Peth-Vadgaon
11	Mrs. Poonam Nilesh Chougule	Extraction,Isolation,Regioselective conversion followed bycharacterization of Escin:Principlevenoactive compound from Horse Chest Nut Seeds	NCMR 2022, PRIST University, Tamilnadu	Presentation	AMCP, Peth-Vadgaon
12	Ms. S. S. Suryawanshi	Formulation of Transdermal Patch of Diclofenac Sodium	InternationalConference(Online) on"Biomolecules to Biome"	International Conference (Online)	AMCP, Peth-Vadgaon
13	Ms.P.P.Patil	Antioxidant potential of polyherbal formulation –Invivo study	International Conference on Biomolecules to Biome held on August 24-25,2022	International	AMCP, Peth-Vadgaon
14	Dr.S.B.Sutar	Forced Degradation Behavior of Melatonin: Isolation and Characterization of	3rd International Conference on Social Science, Management, And Technology In Covid Era organized by Indian Academicians and Researchers	International	AMCP, Peth-Vadgaon

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		Degradation Products	Association in association with Institute for Scientific Research and Development (ISRD),		
AY 2020-21					
15	Dr.S.B.Sutar	Design, Development and Optimization of Afatinib Solid Lipid NanoparticlesUsing Hot Homogenization Followed by Solvent Emulsification Method	Gdansk University of technology,Poland.MGMUniversity,Kerala	International Online Conference	AMCP, Peth-Vadgaon
16	Dr.S.A.Bandgar	Multiple Emulsions for the Co-delivery of Simvastatin and Alendronate Sodium: Improvement in Pharmacokinetic Profile and Oral Therapeutic Efficacy.	First International Online Conference on Blends, Composites, Bio-composites and Nanocomposites (ICNC-2020)	International	AMCP, Peth-Vadgaon
17	Mrs. P. S. Sankpal	ColonAvailableBioactiveCompoundsExhibitAnticancerEffect onIn-vitroModelsofColorectalCancer"	Geetanjali College of pharmacy, Telangana	State level	AMCP, Peth-Vadgaon
18	Dr.S.B.Sutar	Simultaneous determination of melatonin impurities by an HPLC method coupled with diode array detection	RAKCOPS-ICDD 2021 e-Conference	International Online Conference	AMCP, Peth-Vadgaon
AY 2019-20					
19	Dr.S.B.Sutar	Structure Elucidation of Oxidative Stress Degradation Product of Drospirenone	CRC Pharma LLC, New Jersy USA.	International	AMCP, Peth-Vadgaon
20	Dr.S.B.Sutar	DegradationKinetic studyof Melatoninin Alkalineand AcidicMedium byValidatedStabilityIndicatingHPTLCMethod	Indo-African Conference at Nootan College of Pharmacy, Narsinhgaon, Kavathemahankal, Sangli, Maharashtra	International	AMCP, Peth-Vadgaon
21	Kartikeyan M.	Anti-proliferative and apoptosisn induction	71 Indian Pharmaceutical Congress,held at Sri	National	AMCP,

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		potentials of cynanchumcallialatuno n MCF cancer cell lines and in vivo models	Ramchandra Institute of higher education and research,ChennaiTamilnadu 20th-22nd Dec.2019		Peth-Vadgaon
22	Deepa MK	Targeted herbal nano particles for the treatment of colorectalcancer	71 Indian Pharmaceutical Congress,held at SriRamchandra Institute of higher education and research,Chennai Tamilnadu 20th- 22nd Dec.2019	National	AMCP, Peth-Vadgaon
23	Ms.N.D.Desai	Irritancy screening of various formulations by using hens egg test choroiallantoic	Avishkar2019-20 Shivaji University, Kolhapur	State	AMCP, Peth-Vadgaon
24	Dr.S.A.Bandgar	Mixed Micelles preparation for Co-delivery of Simvastatin and Alendronate Sodium: In-Vitro Anticancer activity.	2019-2020 Organized by Department of Technology, Shivaji University, Kolhapur	University Level	AMCP, Peth-Vadgaon
25	Dr.S.B.Sutar	StabilityIndicatingStud ies And Characterization of Degradation Product of Drospirenon	2019-2020 Organized by Department of Technology, Shivaji University, Kolhapur	University Level	AMCP, Peth-Vadgaon
26	Dr.S.A.Bandgar	Mixed Micelles preparation for Co-delivery of Simvastatin and Alendronate Sodium: In-Vitro Anticancer activity.	Avishkar Research Convention University of Mumbai	State Level	AMCP, Peth-Vadgaon
27	Dr.S.B.Sutar	Forced degradation and stability studies of Drugs	Lead college, Bharati Vidyapeeth College of Pharmacy, Kolhapur.	University Level	AMCP, Peth-Vadgaon
AY 2018-19					
28	Mr.V.M. Patil	In –Vitro Antiurolitiatic activity of plant extract of eleusine indica	Indian PharmaceuticalCongress at Delhi	National	AMCP, Peth-Vadgaon
29	Mr.RajanikantB. Ghotane	Method Development and Validation of RP-HPLC Method For Estimation of Drotaverine Hydrochloride and	Indian Pharmaceutical Congress at Delhi	National	AMCP, Peth-Vadgaon

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		Omeprazole From its Tablet Formulation			
30	Dr.S.A. Bandgar	Design, Development and Characterization of Solid Lipid Nanoparticles of Prazosin by Hot Homogenization method	Indian Pharmaceutical Congressat Delhi	National	AMCP, Peth-Vadgaon
31	Ms.P.J.Gaikwad	RP HPLC Method for degradation study of Lornoxicam	Avishkar 2018 Shivaji University	State	AMCP, Peth-Vadgaon
32	Dr.S.B.Sutar	"Phytochemical Investigation of Eleusine Species Anthelmintic And Antioxidant Activities	2018-19(Central) Research Scholar Category, Agriculture Shivaji University,Kolhapur	University	AMCP, Peth-Vadgaon
33	Dr.S.B.Sutar	"Spectrophotometric And Rp-HPLC Method Development and Validation for Estimation Of Melatonin"	International Seminar on Trends in Pharmacy Practice 4th 5th Jan 2018 organized by Dr. D. Y. Patil Pharmaceutical Sciences and Research	Internation al Seminar	AMCP, Peth-Vadgaon
34	Ms.P.P.Patil	"Development Of UV-Spectrophotometric Method for The Anti-Cancer Drugs in Pure and Dosage Form"	International Seminar on Trends in Pharmacy Practice 4th 5th Jan 2018 organized by Dr.D.Y.PatilPharmaceutical Sciences and Research	Internation al Seminar	AMCP, Peth-Vadgaon
35	Dr.S.B.Sutar	"Phytochemical Investigation of Eleusine Species For Anthelmintic And Antioxidant Activities	Inter-University Research Convention Avishkar 2018 at Gondwana University, Gadchiroli	University	AMCP, Peth-Vadgaon
AY 2017-18					
36	Dr.S.A.Bangar	Antiurolithiatic effect of Canna IndicaL	Avishkar2017-18(Central) Agriculture Shivaji University,Kolhapur	University	AMCP, Peth-Vadgaon

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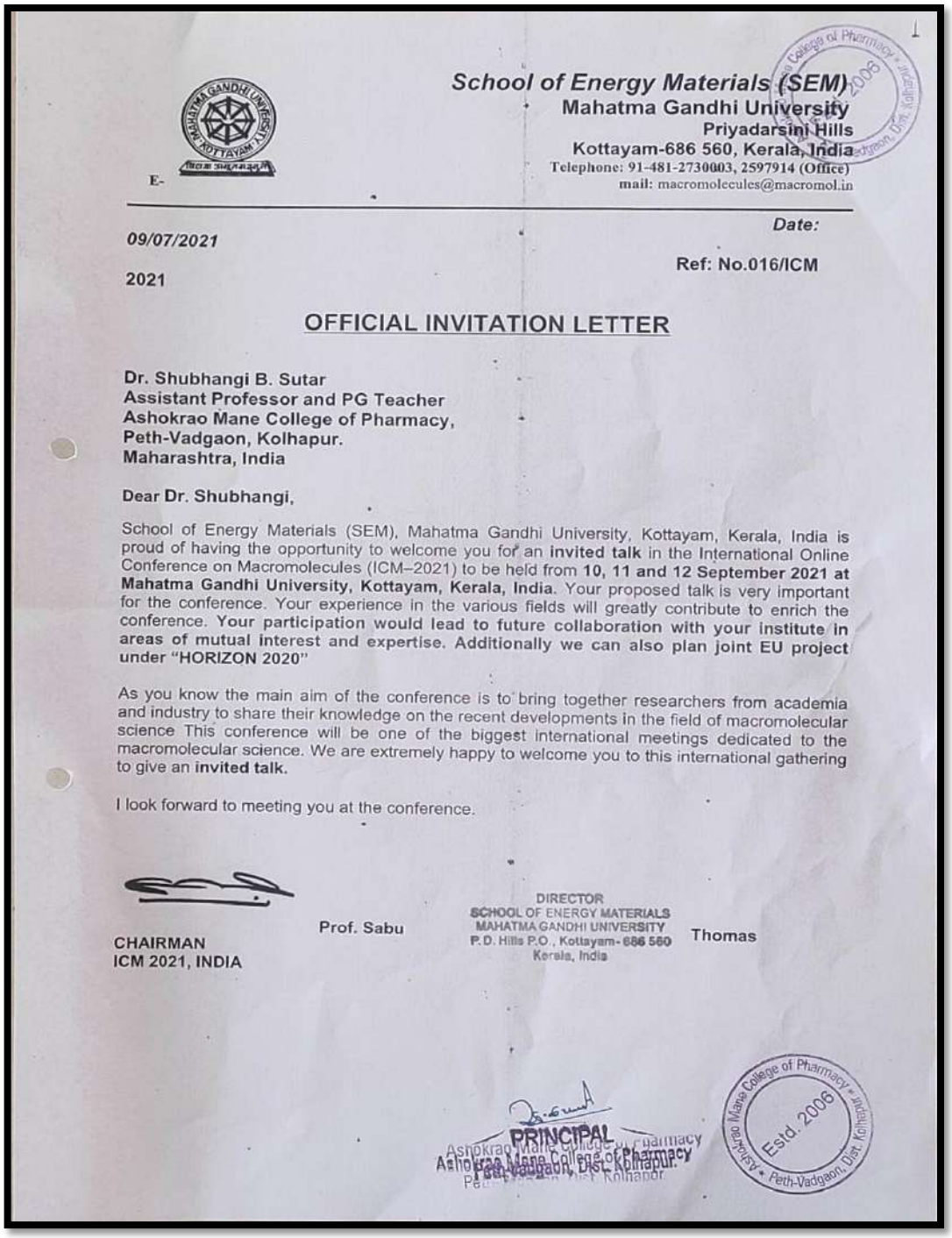
Additional documents of Papers published in national/ international conference proceedings.



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Telephone: 91-481-2730003, 2597914 (Office)
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Date:
09/07/2021

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2021

OFFICIAL INVITATION LETTER

Dr. Shubhangi B. Sutar
Assistant Professor and PG Teacher
Ashokrao Mane College of Pharmacy,
Peth-Vadgaon, Kolhapur.
Maharashtra, India

Dear Dr. Shubhangi,

School of Energy Materials (SEM), Mahatma Gandhi University, Kottayam, Kerala, India is proud of having the opportunity to welcome you for an **invited talk** in the International Online Conference on Macromolecules (ICM–2021) to be held from **10, 11 and 12 September 2021 at Mahatma Gandhi University, Kottayam, Kerala, India**. Your proposed talk is very important for the conference. Your experience in the various fields will greatly contribute to enrich the conference. **Your participation would lead to future collaboration with your institute in areas of mutual interest and expertise. Additionally we can also plan joint EU project under "HORIZON 2020"**

As you know the main aim of the conference is to bring together researchers from academia and industry to share their knowledge on the recent developments in the field of macromolecular science This conference will be one of the biggest international meetings dedicated to the macromolecular science. We are extremely happy to welcome you to this international gathering to give an **invited talk.**

I look forward to meeting you at the conference.

CHAIRMAN
ICM 2021, INDIA

Prof. Sabu

DIRECTOR
SCHOOL OF ENERGY MATERIALS
MAHATMA GANDHI UNIVERSITY
P.D. Hills P.O., Kottayam-686 560
Kerala, India

Thomas

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Peth-Vadgaon, Dist. Kolhapur.

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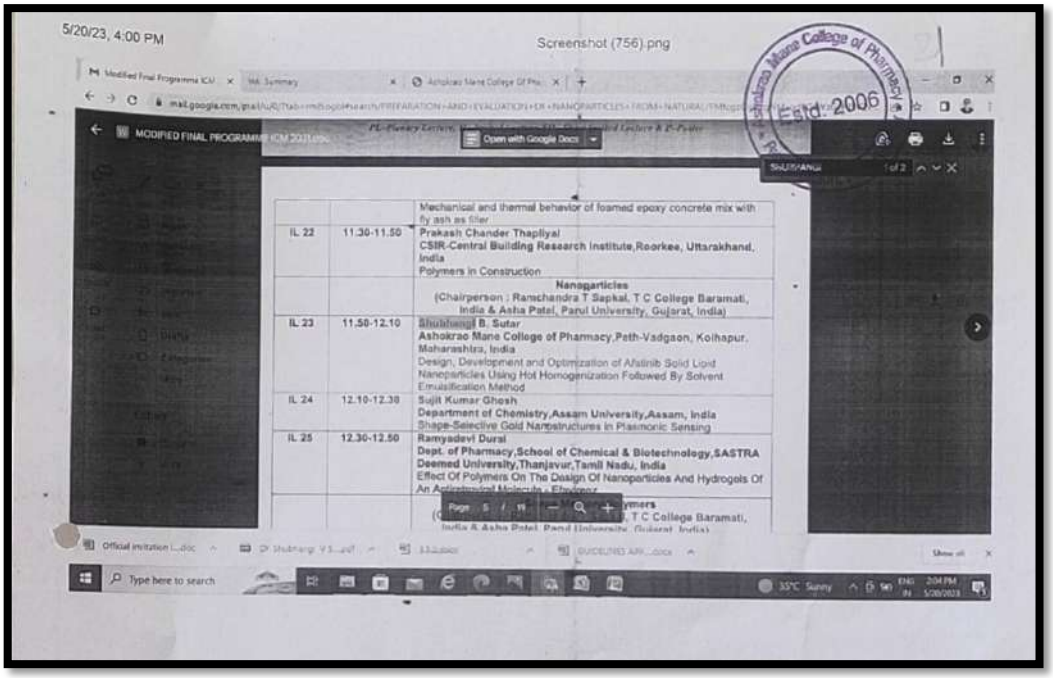

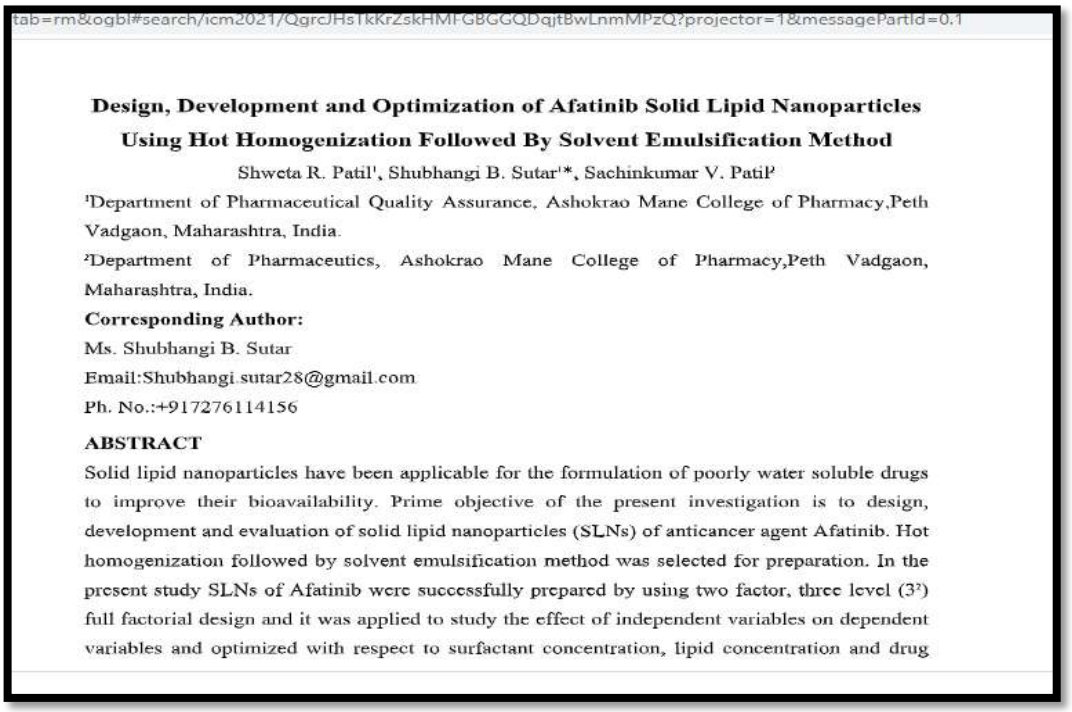

tab=rm&ogbl#search/icm2021/QgrcJHsTkKrZskHMFGBGGQDqjtBwLnmMPzQ?projector=1&messagePartId=0.1

Design, Development and Optimization of Afatinib Solid Lipid Nanoparticles Using Hot Homogenization Followed By Solvent Emulsification Method

Shweta R. Patil[1], Shubhangi B. Sutar[1]*, Sachinkumar V. Patil[2]

[1]Department of Pharmaceutical Quality Assurance, Ashokrao Mane College of Pharmacy,Peth Vadgaon, Maharashtra, India.

[2]Department of Pharmaceutics, Ashokrao Mane College of Pharmacy,Peth Vadgaon, Maharashtra, India.

Corresponding Author:

Ms. Shubhangi B. Sutar

Email:Shubhangi.sutar28@gmail.com

Ph. No.:+917276114156

ABSTRACT

Solid lipid nanoparticles have been applicable for the formulation of poorly water soluble drugs to improve their bioavailability. Prime objective of the present investigation is to design, development and evaluation of solid lipid nanoparticles (SLNs) of anticancer agent Afatinib. Hot homogenization followed by solvent emulsification method was selected for preparation. In the present study SLNs of Afatinib were successfully prepared by using two factor, three level (3^2) full factorial design and it was applied to study the effect of independent variables on dependent variables and optimized with respect to surfactant concentration, lipid concentration and drug

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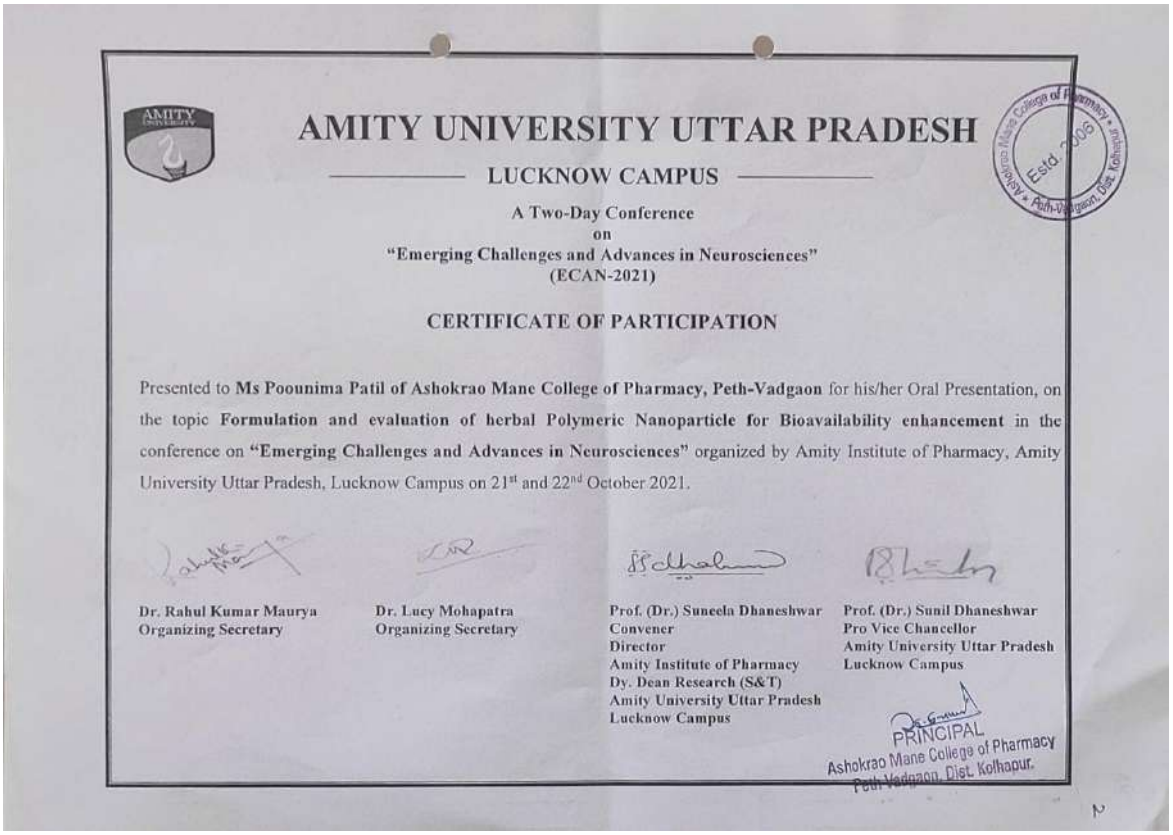

AMITY UNIVERSITY UTTAR PRADESH

LUCKNOW CAMPUS

A Two-Day Conference
on
"Emerging Challenges and Advances in Neurosciences"
(ECAN-2021)

CERTIFICATE OF PARTICIPATION

Presented to **Ms Poounima Patil of Ashokrao Mane College of Pharmacy, Peth-Vadgaon** for his/her Oral Presentation, on the topic **Formulation and evaluation of herbal Polymeric Nanoparticle for Bioavailability enhancement** in the conference on **"Emerging Challenges and Advances in Neurosciences"** organized by Amity Institute of Pharmacy, Amity University Uttar Pradesh, Lucknow Campus on 21st and 22nd October 2021.

Dr. Rahul Kumar Maurya Organizing Secretary	Dr. Lucy Mohapatra Organizing Secretary	Prof. (Dr.) Suneela Dhaneshwar Convener Director Amity Institute of Pharmacy Dy. Dean Research (S&T) Amity University Uttar Pradesh Lucknow Campus	Prof. (Dr.) Sunil Dhaneshwar Pro Vice Chancellor Amity University Uttar Pradesh Lucknow Campus

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Estd. 2005

FORMULATION AND EVALUATION OF POLYHERBAL NANOPARTICLES FOR BIOAVALIABILITY ENHANCEMENT

ABSTRACT

The anticancer activity and pharmacokinetic properties of encapsulated polyherbal nanoparticles (Gallic acid and quercetin nanoparticle) and polyherbal extract (Amla and pomegranate fruit peels) in normal and DMH-induced colorectal cancer in rats were examined in this work. In normal and DMH-induced rats, a pharmacokinetic study demonstrated that polyherbal nanoparticles had a typical sustained release profile with a 4-fold increase in bioavailability when compared to polyherbal extract. Based on serum–concentration profiles of polyherbal nanoparticles and polyherbal extract following oral administration, the pharmacokinetic parameters for polyherbal nanoparticles and polyherbal extract were established using a single compartmental approach. This research suggests that encapsulating Gallic acid and quercetin in polymeric nanoparticles improves their oral bioavailability and anti-colon cancer efficacy. Polymeric nanoparticles could be a novel therapeutic possibility for carcinogenesis prevention.

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Rayat Shikshan Sanstha's
BALWANT COLLEGE, VITA
(Affiliated to Shivaji University, Kolhapur)
Reaccredited by NAAC with 'A' grade, CGPA-3.11
DST-FIST., RUSA Funded College, ISO 9001-2015 certified.

CERTIFICATE

This is to certify that Mrs Poournima Shamrao Patil of Ashokrao Mane College of Pharmacy Peth vadgaon has participated in two days 3rd International Multidisciplinary Conference on Emerging Trends in Humanities, Commerce, Management, Science and Technology (IMCET-2021) organized by the Balwant College, Vita Dist. Sangli (MS) on 23rd –24th December 2021.

He / She has participated and presented a research paper entitled SYNTHESIS OF HERBAL NANOMATERIALS AND THEIR APPLICATION IN THE TREATMENT OF COLORECTAL CANCER

Prof. Dr. C. R. Bobade, Organizing Secretory
Dr. A. S. Sartape, Co-ordinator
Dr. V. B. Patil, Convener
Prin. Dr. R. S. More, Chairman

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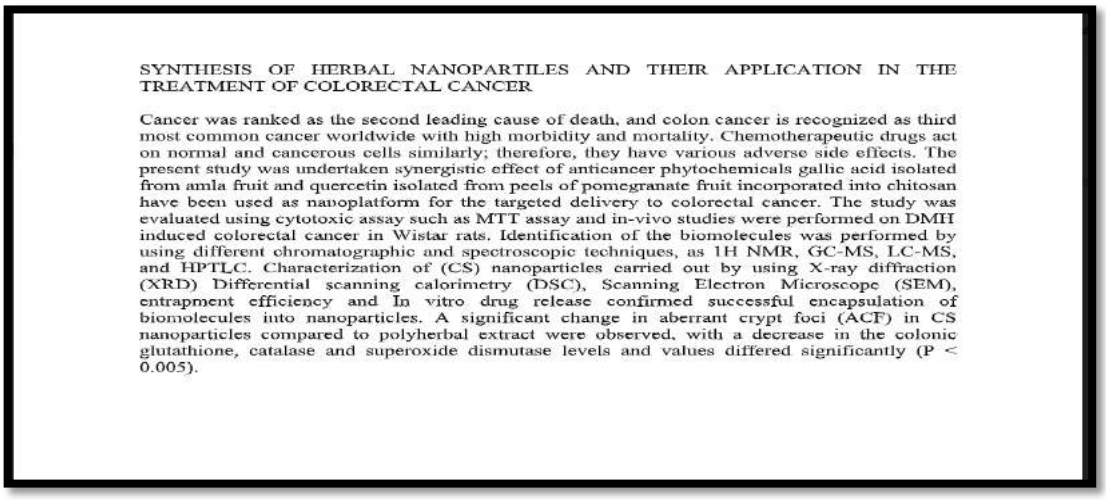

SYNTHESIS OF HERBAL NANOPARTILES AND THEIR APPLICATION IN THE TREATMENT OF COLORECTAL CANCER

Cancer was ranked as the second leading cause of death, and colon cancer is recognized as third most common cancer worldwide with high morbidity and mortality. Chemotherapeutic drugs act on normal and cancerous cells similarly; therefore, they have various adverse side effects. The present study was undertaken synergistic effect of anticancer phytochemicals gallic acid isolated from amla fruit and quercetin isolated from peels of pomegranate fruit incorporated into chitosan have been used as nanoplatform for the targeted delivery to colorectal cancer. The study was evaluated using cytotoxic assay such as MTT assay and in-vivo studies were performed on DMH induced colorectal cancer in Wistar rats. Identification of the biomolecules was performed by using different chromatographic and spectroscopic techniques, as 1H NMR, GC-MS, LC-MS, and HPTLC. Characterization of (CS) nanoparticles carried out by using X-ray diffraction (XRD) Differential scanning calorimetry (DSC), Scanning Electron Microscope (SEM), entrapment efficiency and In vitro drug release confirmed successful encapsulation of biomolecules into nanoparticles. A significant change in aberrant crypt foci (ACF) in CS nanoparticles compared to polyherbal extract were observed, with a decrease in the colonic glutathione, catalase and superoxide dismutase levels and values differed significantly ($P < 0.005$).

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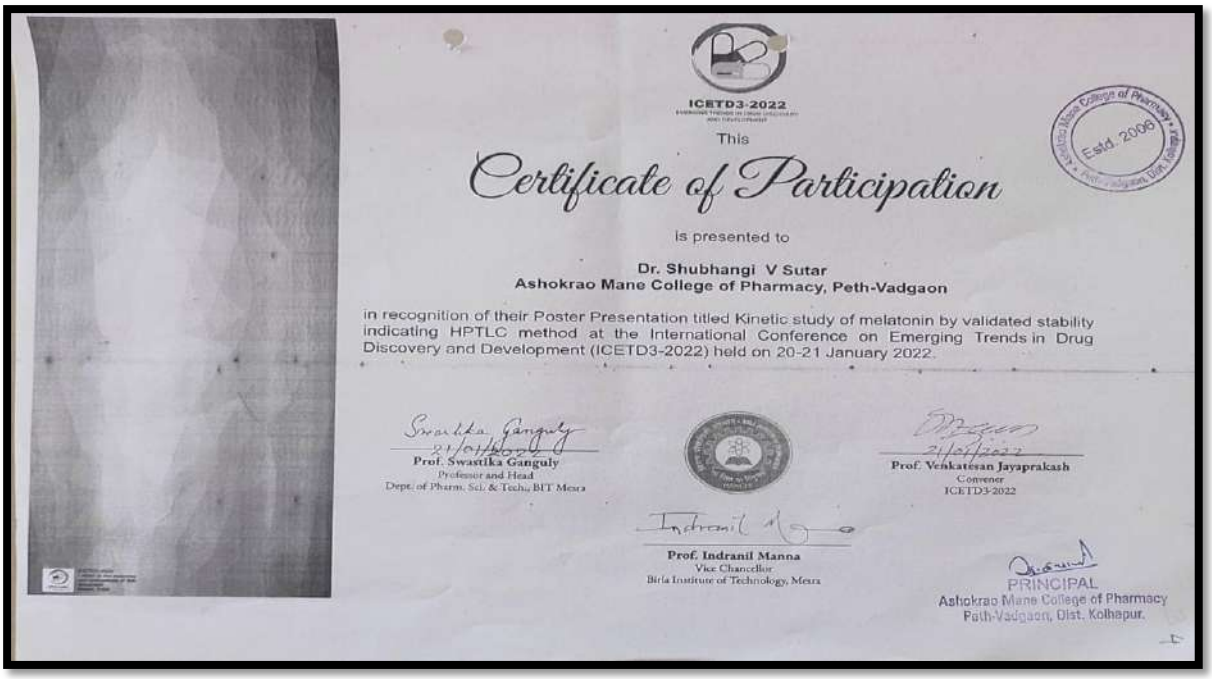

ICETD3-2022

This

Certificate of Participation

is presented to

Dr. Shubhangi V Sutar
Ashokrao Mane College of Pharmacy, Peth-Vadgaon

in recognition of their Poster Presentation titled Kinetic study of melatonin by validated stability indicating HPTLC method at the International Conference on Emerging Trends in Drug Discovery and Development (ICETD3-2022) held on 20-21 January 2022.

Prof. Swastika Ganguly
Professor and Head
Dept. of Pharm. Sci. & Techn. BIT Mesra

Prof. Indranil Manna
Vice Chancellor
Birla Institute of Technology, Mesra

Prof. Venkatesan Jayaprakash
Convener
ICETD3-2022

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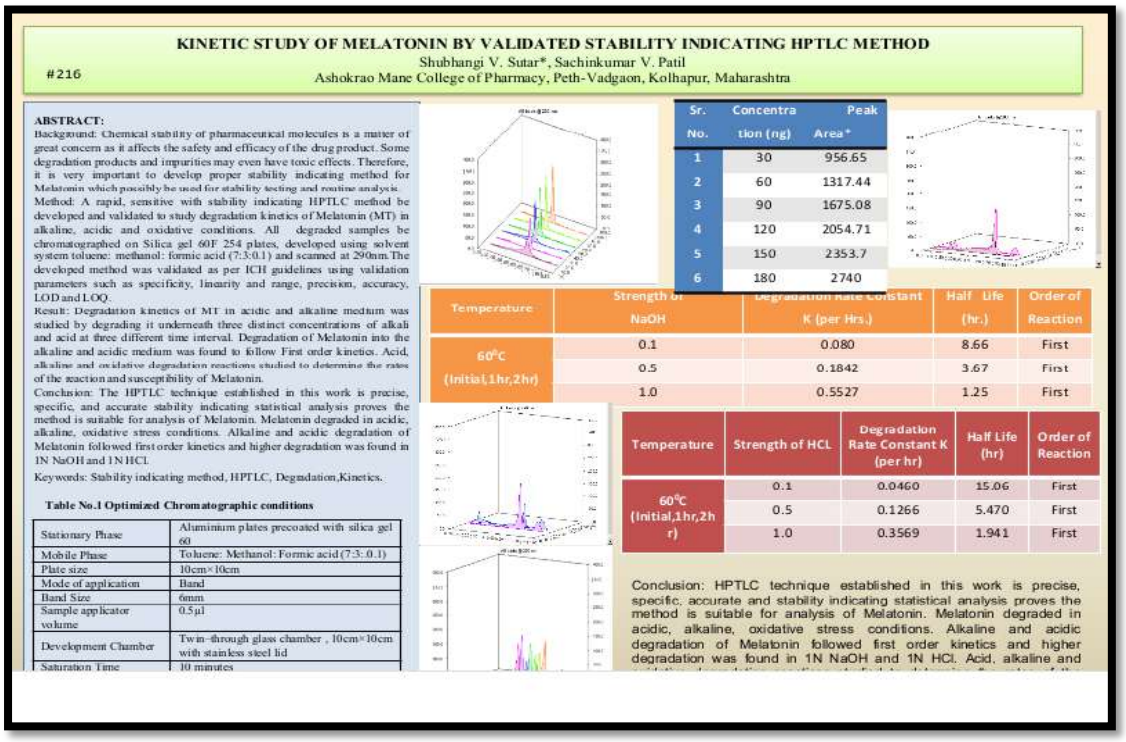

KINETIC STUDY OF MELATONIN BY VALIDATED STABILITY INDICATING HPTLC METHOD

#216

Shubhangi V. Sutar*, Sachinkumar V. Patil
Ashokrao Mane College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra

ABSTRACT:

Background: Chemical stability of pharmaceutical molecules is a matter of great concern as it affects the safety and efficacy of the drug product. Some degradation products and impurities may even have toxic effects. Therefore, it is very important to develop proper stability indicating method for Melatonin which possibly be used for stability testing and routine analysis.

Method: A rapid, sensitive with stability indicating HPTLC method be developed and validated to study degradation kinetics of Melatonin (MT) in alkaline, acidic and oxidative conditions. All degraded samples be chromatographed on Silica gel 60F 254 plates, developed using solvent system toluene: methanol: formic acid (7:3:0.1) and scanned at 290nm.The developed method was validated as per ICH guidelines using validation parameters such as specificity, linearity and range, precision, accuracy, LOD and LOQ.

Result: Degradation kinetics of MT in acidic and alkaline medium was studied by degrading it underneath three distinct concentrations of alkali and acid at three different time interval. Degradation of Melatonin into the alkaline and acidic medium was found to follow First order kinetics. Acid, alkaline and oxidative degradation reactions studied to determine the rates of the reaction and susceptibility of Melatonin.

Conclusion: The HPTLC technique established in this work is precise, specific, and accurate stability indicating statistical analysis proves the method is suitable for analysis of Melatonin. Melatonin degraded in acidic, alkaline, oxidative stress conditions. Alkaline and acidic degradation of Melatonin followed first order kinetics and higher degradation was found in 1N NaOH and 1N HCl.

Keywords: Stability indicating method, HPTLC, Degradation,Kinetics.

Table No.1 Optimized Chromatographic conditions

Stationary Phase	Aluminium plates precoated with silica gel 60
Mobile Phase	Toluene: Methanol: Formic acid (7:3: 0.1)
Plate size	10cm×10cm
Mode of application	Band
Band Size	6mm
Sample applicator volume	0.5 µl
Development Chamber	Twin-through glass chamber , 10cm×10cm with stainless steel lid
Saturation Time	30 minutes

Sr. No.	Concentration (ng)	Peak Area*
1	30	956.65
2	60	1317.44
3	90	1675.08
4	120	2054.71
5	150	2353.7
6	180	2740

Temperature	Strength of NaOH	Degradation Rate Constant K (per Hrs.)	Half Life (hr.)	Order of Reaction
60°C (Initial,1hr,2hr)	0.1	0.080	8.66	First
	0.5	0.1842	3.67	First
	1.0	0.5527	1.25	First

Temperature	Strength of HCL	Degradation Rate Constant K (per hr)	Half Life (hr)	Order of Reaction
60°C (Initial,1hr,2hr)	0.1	0.0460	15.06	First
	0.5	0.1266	5.470	First
	1.0	0.3569	1.941	First

Conclusion: HPTLC technique established in this work is precise, specific, accurate and stability indicating statistical analysis proves the method is suitable for analysis of Melatonin. Melatonin degraded in acidic, alkaline, oxidative stress conditions. Alkaline and acidic degradation of Melatonin followed first order kinetics and higher degradation was found in 1N NaOH and 1N HCl. Acid, alkaline and

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Two Days National Seminar (Online), 2022

on

Cytogenetics, *in vitro* Culture and Phytochemistry of Plants and Microbes for Sustainable Use

Jointly Organized By

Department of Botany, (UGC DRS & DST-FIST Sponsored),
Siksha-Bhavana, Visva-Bharati, Santiniketan, West Bengal-731235
&
Department Of Botany, Raidighi College
(A NAAC Accredited College, affiliated under University of Calcutta), 24 Parganas (S), Pin-743383

Certificate of Presentation

This is to certify that* Prof./ Dr./ Mr./ Mrs./ Ms. Sarika S. Suryawanshi, *Ashokrao Mane College of Pharmacy, Kolhapur (Maharashtra) has presented a paper (Oral/Poster) entitled "*Formulation and Evaluation of Ointment containing aqueous extract of *Quisqualis indica* Linn Leaves*" in the Two Days National Seminar (online) held on 22.01.2022 and 23.01.2022 from 10am to 5pm.

Prof. Swadesh Ranjan Biswas
Head, Department of Botany
Visva-Bharati

Dr. Sasadindu Jana
Principal
Raidighi College

Dr. Anjalika Roy
Joint Convener, Seminar
Department of Botany
Visva-Bharati

Dr. Madhumita Majumder
Joint Convener, Seminar
Head, Department of Botany
Raidighi College

Two Days National Seminar (Online) on Cytogenetics, in vitro Culture and Phytochemistry of Plants and Microbes for Sustainable Use" Oral Presentation on Formulation and Evaluation of Ointment containing aqueous extract of *Quisqualis indica* Linn Leaves

Sarika S. Suryawanshi,*[1]Pranali P. Patil,[2] Sachinkumar V. Patil,[3] Pooumima S. Patil[4]
Ashokrao Mane College of Pharmacy, Peth Vadgaon, Kolhapur (Maharashtra)

Abstract

Present study was to extent ointment formulation by using herbal extract of Quisqualis indica linn leaves. Aqueous extract of Quisqualis indica linn leaves was prepared by maceration process. By using levigation method ointment base was prepared and extract was incorporated. Prepared formulation was analyzed for its physicochemical parameter like colour, odour, consistency, pH, melting point, spreadability, loss on drying, solubility, washability and penetration study. Penetration study carried out by Franz Diffusion Cell apparatus. Formulations were compared with marketed formulation.

Key words: Herbal ointment, Levigation, spreadability

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Association of Pharmacy Professionals

CERTIFICATE OF PARTICIPATION

This certificate is presented to

Dr. Shubhangi B. Sutar

Associate Professor, Ashokrao Mane College of Pharmacy
Peth-Vadgaon, Kolhapur, Maharashtra

for presenting oration on
"Structure Elucidation of Degradation Products of Drospirenone by using Stability Indicating HPTLC Method"
during Indo-Caribbean Virtual International Symposium 'Women Scientist Award Competition 2022'
organized by APP Hyderabad & Trichy Local Branches and APP CommClinPharm Division
hosted by Nand Kishore College of Pharmacy, Naini, Allahabad, Uttar Pradesh, India
in commemoration of International Day of Women & Girls in Science.

Given on 12th Day of February 2022.

Dr. Sunita Dahiya
General Secretary APP
University of Puerto Rico, San Juan, PR, USA

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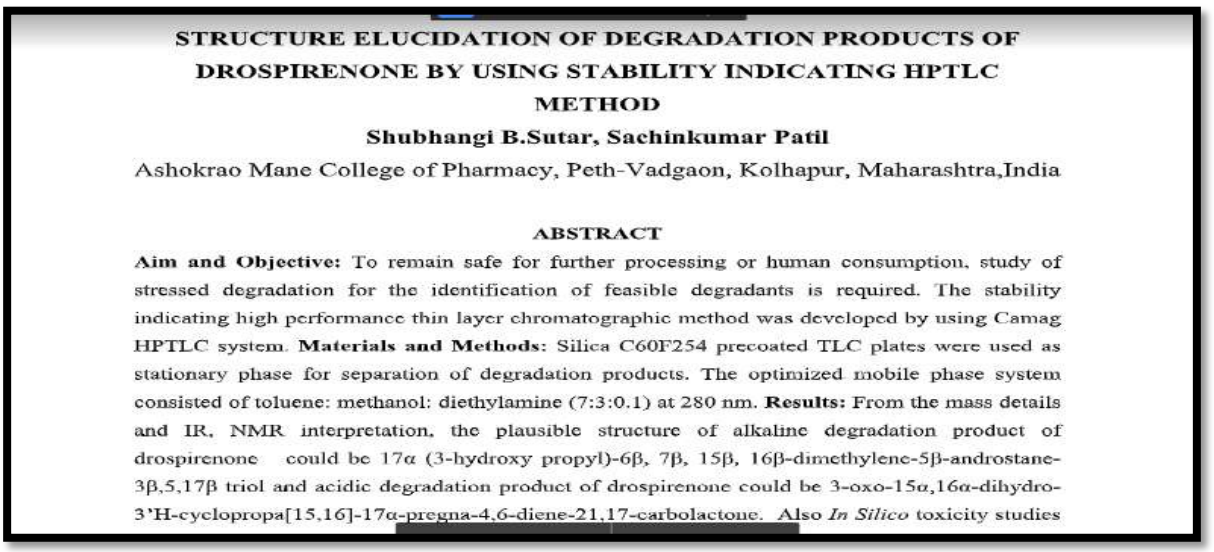

STRUCTURE ELUCIDATION OF DEGRADATION PRODUCTS OF DROSPIRENONE BY USING STABILITY INDICATING HPTLC METHOD

Shubhangi B.Sutar, Sachinkumar Patil
Ashokrao Mane College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra,India

ABSTRACT

Aim and Objective: To remain safe for further processing or human consumption, study of stressed degradation for the identification of feasible degradants is required. The stability indicating high performance thin layer chromatographic method was developed by using Camag HPTLC system. **Materials and Methods:** Silica C60F254 precoated TLC plates were used as stationary phase for separation of degradation products. The optimized mobile phase system consisted of toluene: methanol: diethylamine (7:3:0.1) at 280 nm. **Results:** From the mass details and IR, NMR interpretation, the plausible structure of alkaline degradation product of drospirenone could be 17α (3-hydroxy propyl)-6β, 7β, 15β, 16β-dimethylene-5β-androstane-3β,5,17β triol and acidic degradation product of drospirenone could be 3-oxo-15α,16α-dihydro-3'H-cyclopropa[15,16]-17α-pregna-4,6-diene-21,17-carbolactone. Also *In Silico* toxicity studies

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in collaboration with
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Date: 20 February 2022

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Dr. A. S. Kulkarni, Principal, AMIPSR, Save
Dr. S. V. Patil, Principal, AMCP, Peth Vadgaon
Dr. D. R. Jadge, Principal, WCOP, Peth Vadgaon

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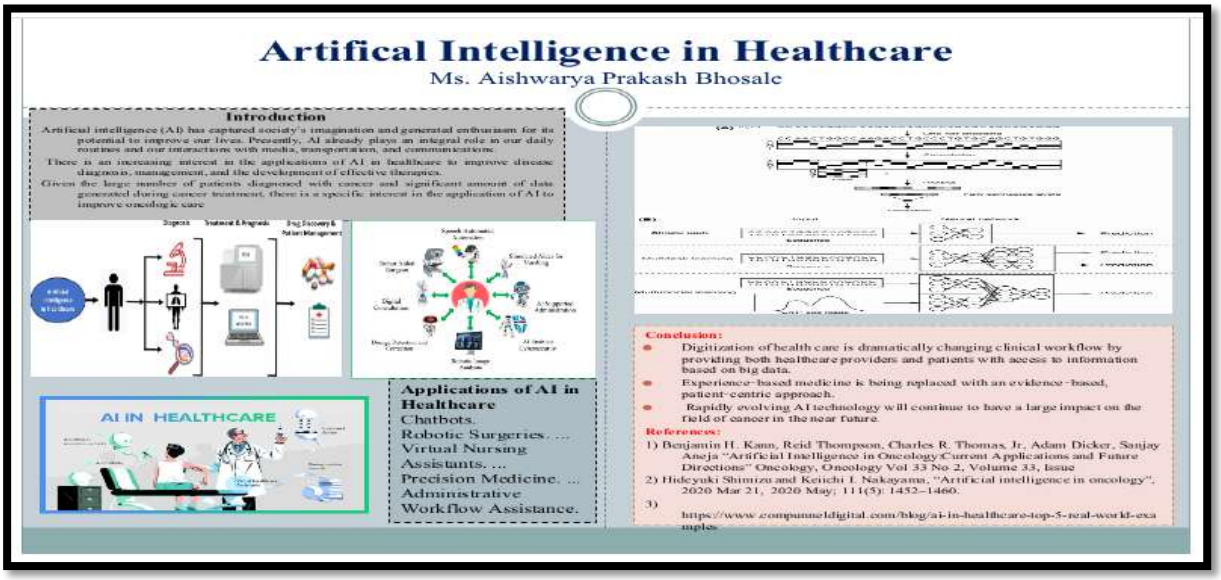

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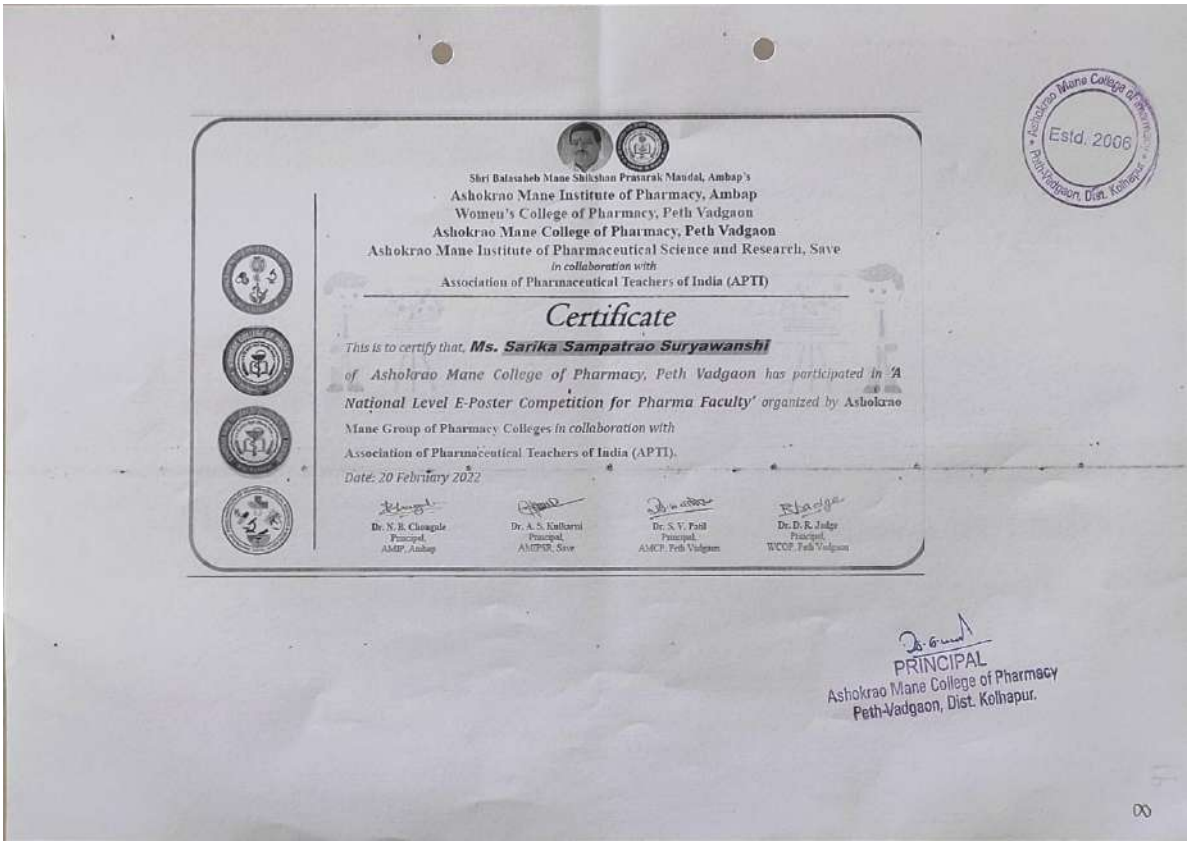

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Date: 20 February 2022

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Dr. S. V. Patil, Principal, AMCP, Peth Vadgaon
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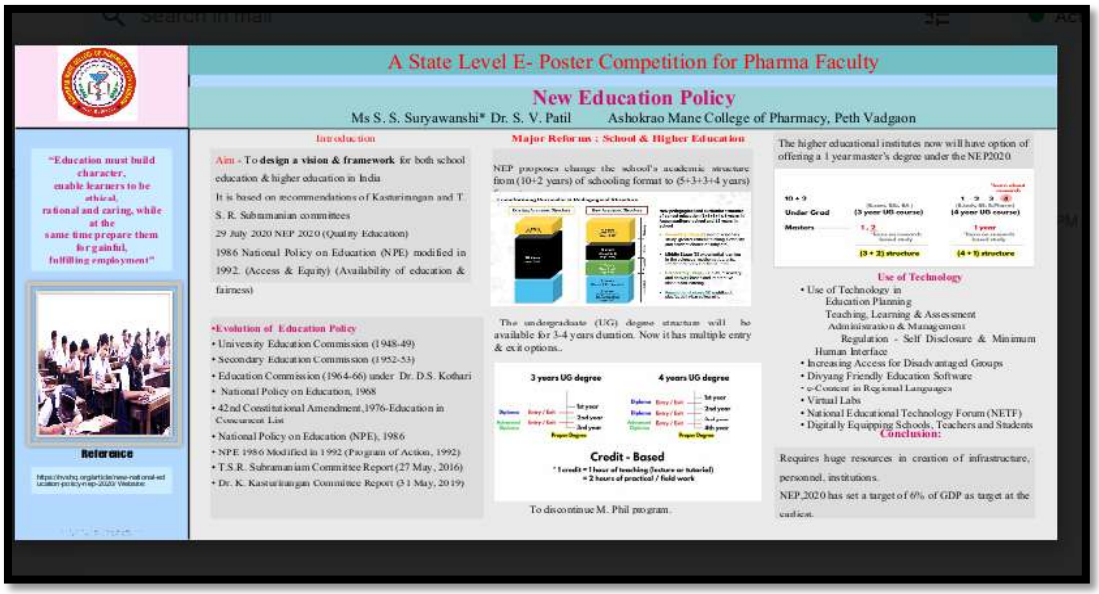

A State Level E- Poster Competition for Pharma Faculty

New Education Policy

Ms S. S. Suryawanshi* Dr. S. V. Patil Ashokrao Mane College of Pharmacy, Peth Vadgaon

"Education must build character, enable learners to be ethical, rational and caring, while at the same time prepare them for gainful, fulfilling employment"

Reference

Introduction

Aim - To **design a vision & framework** for both school education & higher education in India

It is based on recommendations of Kasturiringan and T. S. R. Subramanian committees

29 July 2020 NEP 2020 (Quality Education)

1986 National Policy on Education (NPE) modified in 1992. (Access & Equity) (Availability of education & fairness)

•Evolution of Education Policy
- University Education Commission (1948-49)
- Secondary Education Commission (1952-53)
- Education Commission (1964-66) under Dr. D.S. Kothari
- National Policy on Education, 1968
- 42nd Constitutional Amendment,1976-Education in Concurrent List
- National Policy on Education (NPE), 1986
- NPE 1986 Modified in 1992 (Program of Action, 1992)
- T.S.R. Subramaniam Committee Report (27 May, 2016)
- Dr. K. Kasturirangan Committee Report (31 May, 2019)

Major Reforms : School & Higher Education

NEP proposes change the school's academic structure from (10+2 years) of schooling format to (5+3+3+4 years)

This undergraduate (UG) degree structure will be available for 3-4 years duration. Now it has multiple entry & exit options..

3 years UG degree | 4 years UG degree

Credit - Based

To discontinue M. Phil program.

The higher educational institutes now will have option of offering a 1 year master's degree under the NEP2020

Use of Technology
- Use of Technology in Education Planning, Teaching, Learning & Assessment, Administration & Management
  Regulation - Self Disclosure & Minimum Human Interface
- Increasing Access for Disadvantaged Groups
- Divyang Friendly Education Software
- e-Content in Regional Languages
- Virtual Labs
- National Educational Technology Forum (NETF)
- Digitally Equipping Schools, Teachers and Students

Conclusion:

Requires huge resources in creation of infrastructure, personnel, institutions.

NEP,2020 has set a target of 6% of GDP as target at the earliest.

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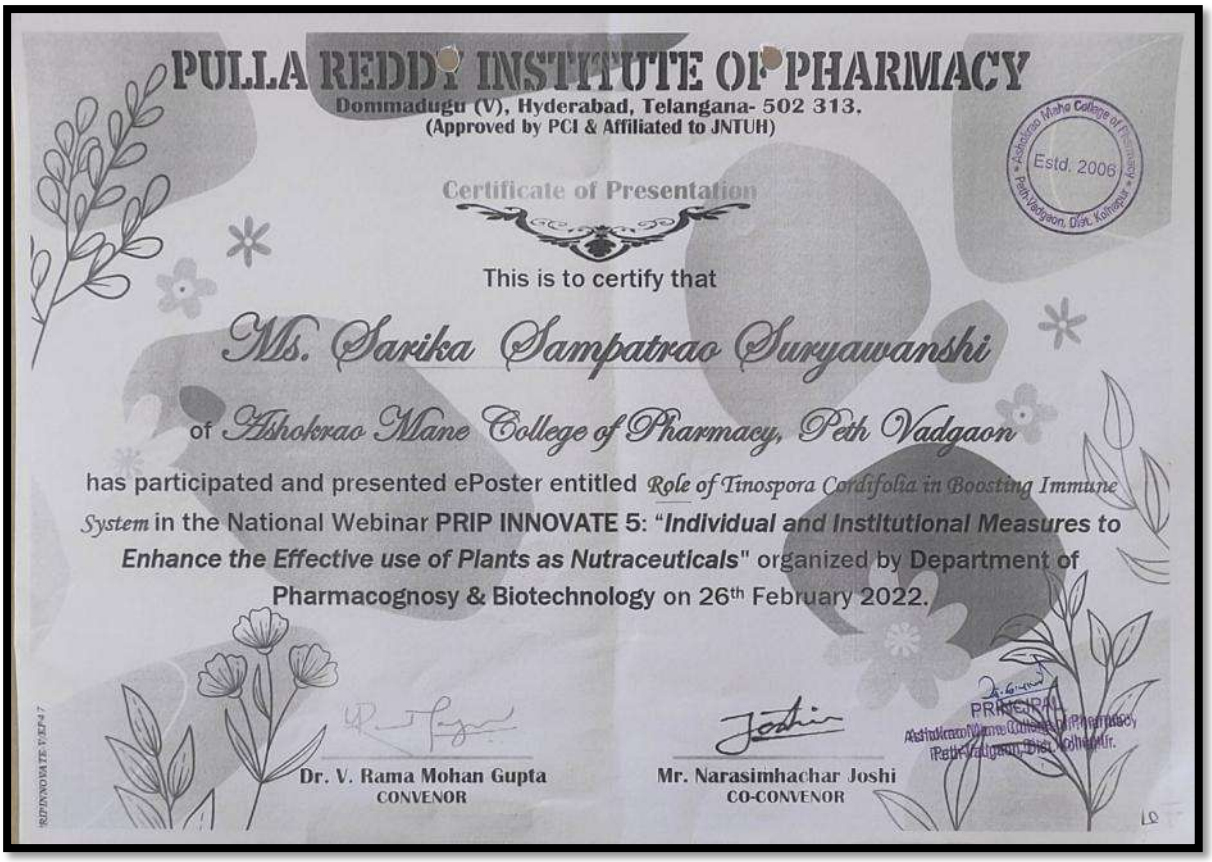

PULLA REDDY INSTITUTE OF PHARMACY

Dommadugu (V), Hyderabad, Telangana- 502 313.

(Approved by PCI & Affiliated to JNTUH)

Certificate of Presentation

This is to certify that

Ms. Sarika Sampatrao Suryawanshi

of *Ashokrao Mane College of Pharmacy, Peth Vadgaon*

has participated and presented ePoster entitled *Role of Tinospora Cordifolia in Boosting Immune System* in the National Webinar PRIP INNOVATE 5: "***Individual and Institutional Measures to Enhance the Effective use of Plants as Nutraceuticals***" organized by Department of Pharmacognosy & Biotechnology on 26th February 2022.

Dr. V. Rama Mohan Gupta
CONVENOR

Mr. Narasimhachar Joshi
CO-CONVENOR

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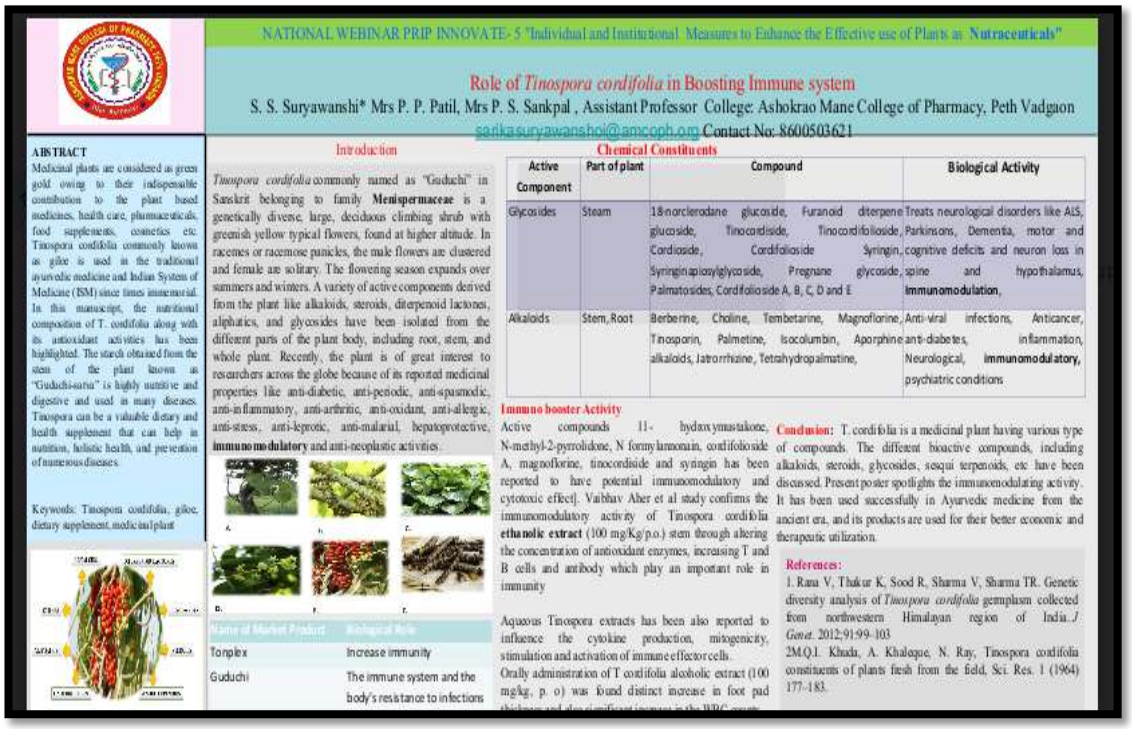

NATIONAL WEBINAR PRIP INNOVATE- 5 "Individual and Institutional Measures to Enhance the Effective use of Plants as **Nutraceuticals"**

Role of *Tinospora cordifolia* in Boosting Immune system

S. S. Suryawanshi* Mrs P. P. Patil, Mrs P. S. Sankpal , Assistant Professor College: Ashokrao Mane College of Pharmacy, Peth Vadgaon

sarikasuryawanshi@amcoph.org Contact No: 8600503621

ABSTRACT

Medicinal plants are considered as green gold owing to their indispensable contribution to the plant based medicines, health care, pharmaceuticals, food supplements, cosmetics etc. Tinospora cordifolia commonly known as giloe is used in the traditional ayurvedic medicine and Indian System of Medicine (ISM) since times immemorial. In this manuscript, the nutritional composition of T. cordifolia along with its antioxidant activities has been highlighted. The starch obtained from the stem of the plant known as "Guduchi-satva" is highly nutritive and digestive and used in many diseases. Tinospora can be a valuable dietary and health supplement that can help in nutrition, holistic health, and prevention of numerous diseases.

Keywords: Tinospora cordifolia, giloe, dietary supplement, medicinal plant

Introduction

Tinospora cordifolia commonly named as "Guduchi" in Sanskrit belonging to family **Menispermaceae** is a genetically diverse, large, deciduous climbing shrub with greenish yellow typical flowers, found at higher altitude. In racemes or racemose panicles, the male flowers are clustered and female are solitary. The flowering season expands over summers and winters. A variety of active components derived from the plant like alkaloids, steroids, diterpenoid lactones, aliphatics, and glycosides have been isolated from the different parts of the plant body, including root, stem, and whole plant. Recently, the plant is of great interest to researchers across the globe because of its reported medicinal properties like anti-diabetic, anti-periodic, anti-spasmodic, anti-inflammatory, anti-arthritic, anti-oxidant, anti-allergic, anti-stress, anti-leprotic, anti-malarial, hepatoprotective, **immunomodulatory** and anti-neoplastic activities.

Name of Market Product	Biological Role
Tonplex	Increase immunity
Guduchi	The immune system and the body's resistance to infections

Chemical Constituents

Active Component	Part of plant	Compound	Biological Activity
Glycosides	Steam	18-norclerodane glucoside, Furanoid diterpene glucoside, Tinocordiside, Tinocordifolioside, Cordioside, Cordifolioside Syringin, Syringinapiosylglycoside, Pregnane glycoside, Palmatosides, Cordifolioside A, B, C, D and E	Treats neurological disorders like ALS, Parkinsons, Dementia, motor and cognitive deficits and neuron loss in spine and hypothalamus, **immunomodulation,**
Alkaloids	Stem, Root	Berberine, Choline, Tembetarine, Magnoflorine, Tinosporin, Palmetine, Isocolumbin, Aporphine alkaloids, Jatrorrhizine, Tetrahydropalmatine,	Anti-viral infections, Anticancer, anti-diabetes, inflammation, Neurological, **immunomodulatory,** psychiatric conditions

Immuno booster Activity

Active compounds 11- hydroxymustakone, N-methyl-2-pyrrolidone, N formylannonain, cordifolioside A, magnoflorine, tinocordiside and syringin has been reported to have potential immunomodulatory and cytotoxic effect]. Vaibhav Aher et al study confirms the immunomodulatory activity of Tinospora cordifolia **ethanolic extract** (100 mg/Kg/p.o.) stem through altering the concentration of antioxidant enzymes, increasing T and B cells and antibody which play an important role in immunity

Aqueous Tinospora extracts has been also reported to influence the cytokine production, mitogenicity, stimulation and activation of immune effector cells.

Orally administration of T cordifolia alcoholic extract (100 mg/kg, p. o) was found distinct increase in foot pad

Conclusion: T. cordifolia is a medicinal plant having various type of compounds. The different bioactive compounds, including alkaloids, steroids, glycosides, sesqui terpenoids, etc have been discussed. Present poster spotlights the immunomodulating activity. It has been used successfully in Ayurvedic medicine from the ancient era, and its products are used for their better economic and therapeutic utilization.

References:

1. Rana V, Thakur K, Sood R, Sharma V, Sharma TR. Genetic diversity analysis of *Tinospora cordifolia* germplasm collected from northwestern Himalayan region of India. *J Genet.* 2012;91:99-103

2M.Q.I. Khuda, A. Khaleque, N. Ray, Tinospora cordifolia constituents of plants fresh from the field, Sci. Res. 1 (1964) 177-183.

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Magnus Group Conferences and
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Prof/Dr/Mr/Ms. *Shubhangi B Sutar*

Ashokrao Mane College of Pharmacy, India

for phenomenal and worthy oral presentation
at the "5th Edition of Global Conference on
Pharmaceutics and Novel Drug Delivery Systems" Online Conference
held on March 28-30, 2022

Raphael Rubinstein
Teva Pharmaceuticals, Israel

Hans-Christian Siebert
Research Institute of Bioinformatics and Nanotechnology (RIBNT), Germany

Ashokrao Mane College of Pharmacy
Peth-Vadgaon, Dist. Kolhapur

Day 03

Shubhangi BS[1]*, Patil SV[2]

[1]Mane College of Pharmacy, Maharashtra, India
[2]Ashokrao Mane College of Pharmacy, India

Pharma 2022

Forced degradation studies of drospirenone and in silico toxicology predictions for its new designated impurities

Aim and Objective: To remain safe for further processing or human consumption, study of stressed degradation for the identification of feasible degradants is required. The stability indicating high performance thin layer chromatographic method was developed by using Camag HPTLC system.

Materials and Methods: Silica C60F254 precoated TLC plates were used as stationary phase for separation of degradation products. The optimized mobile phase system consisted of toluene: methanol: diethylamine (7:3:0.1) at 280 nm.

Results: From the mass details and IR, NMR interpretation, the plausible structure of alkaline degradation product of drospirenone could be 17α (3-hydroxy propyl)-6β, 7β, 15β, 16β-dimethylene-5β-androstane-3β,5,17β triol and acidic degradation product of drospirenone could be 3-oxo-15α,16α-dihydro-3'H-cyclopropa[15,16]-17α-pregna-4,6-diene-21,17-carbolactone. Also *In Silico* toxicity studies of the degradation products were performed to assess the toxicity profile of the products using Protox online sever.

Conclusion: This analytical method can be considered as an alternative practical and inexpensive method for simple, accurate and efficient quantitative detection of drospirenone in the presence of its degradation products.

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Thanjavur-613 403, Tamil Nadu

Certificate of Presentation

This to certify that Mrs. Poonam Nilesh Chougule Department of Pharmacy from PRIST Deemed To be University Thanjavur. has presented (Oral) in the "National Conference on Multidisciplinary Research (NCMR-2022)" organized by Centre for Research and Development, PRIST Deemed to be University, Vallam, Thanjavur - 613 403, Tamil Nadu, India on 11th August 2022.

CONVENOR/NCMR 2022

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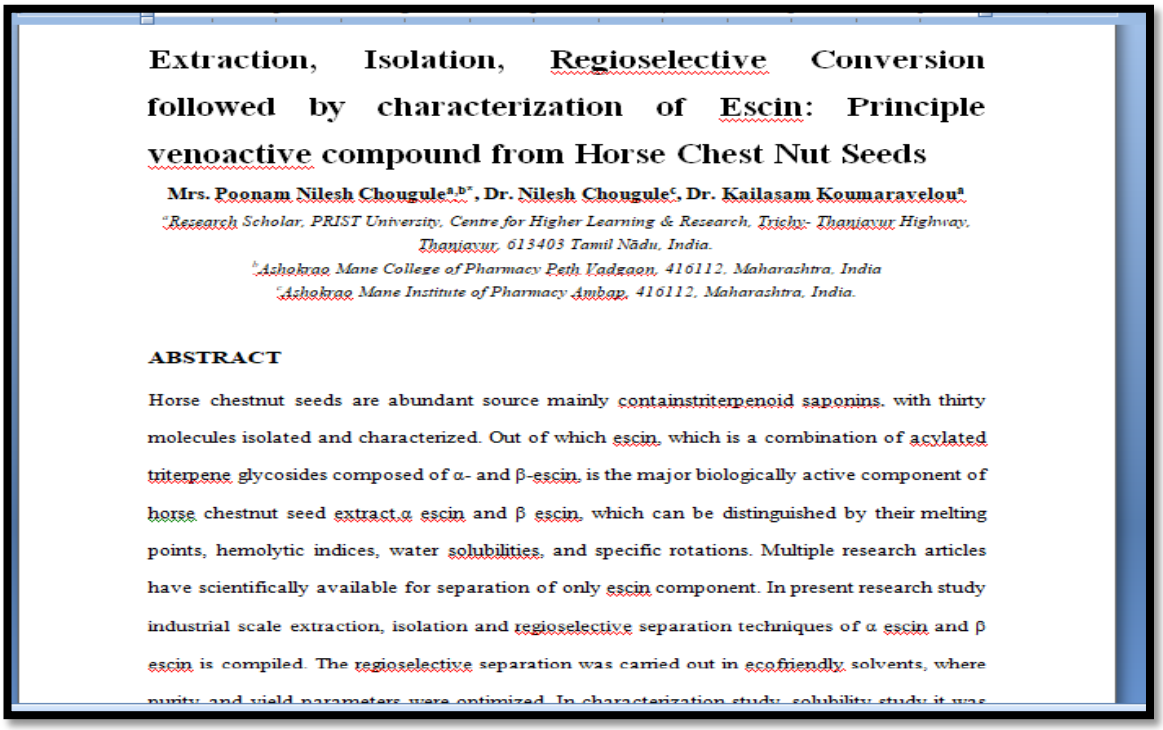

Extraction, Isolation, Regioselective Conversion followed by characterization of Escin: Principle venoactive compound from Horse Chest Nut Seeds

Mrs. Poonam Nilesh Chougule[a,b*], Dr. Nilesh Chougule[c], Dr. Kailasam Koumaravelou[a]

[a]Research Scholar, PRIST University, Centre for Higher Learning & Research, Trichy- Thanjavur Highway, Thanjavur, 613403 Tamil Nādu, India.

[b]Ashokrao Mane College of Pharmacy Peth Vadgaon, 416112, Maharashtra, India

[c]Ashokrao Mane Institute of Pharmacy Ambap, 416112, Maharashtra, India.

ABSTRACT

Horse chestnut seeds are abundant source mainly containstriterpenoid saponins. with thirty molecules isolated and characterized. Out of which escin, which is a combination of acylated triterpene glycosides composed of α- and β-escin, is the major biologically active component of horse chestnut seed extract.α escin and β escin, which can be distinguished by their melting points, hemolytic indices, water solubilities, and specific rotations. Multiple research articles have scientifically available for separation of only escin component. In present research study industrial scale extraction, isolation and regioselective separation techniques of α escin and β escin is compiled. The regioselective separation was carried out in ecofriendly solvents, where purity and yield parameters were optimized. In characterization study, solubility study it was

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Certificate of Participation

This is to certify that

Sarika Sampatrao Suryawanshi

Ashokrao Mane College of Pharmacy, Kolhapur, India

presented *POSTER* in the two day International Conference (Online) on

"Biomolecules To Biome" held on August 24-25, 2022

Organized by Department of Life Sciences, Presidency University, Kolkata, India.

Dr. Ranjana Pal & Dr. Puja Ray
Joint Organizing Secretaries
Biomolecules To Biome – 2022

Prof. Prabir Kumar Mukhopadhyay
HOD (Life Sciences)
Presidency University, Kolkata
(Chairman)

Prof. Sankar Bose
Dean of Faculty of Natural and
Mathematical Sciences
(Patron)

BIOMOLECULES TO BIOME

Ashokrao Mane College of Pharmacy
Peth-Vadgaon, Dist. Kolhapur.

Presented *POSTER* in the two day International Conference (Online) on

"Biomolecules To Biome" held on August 24-25, 2022

Organized by Department of Life Sciences, Presidency University, Kolkata

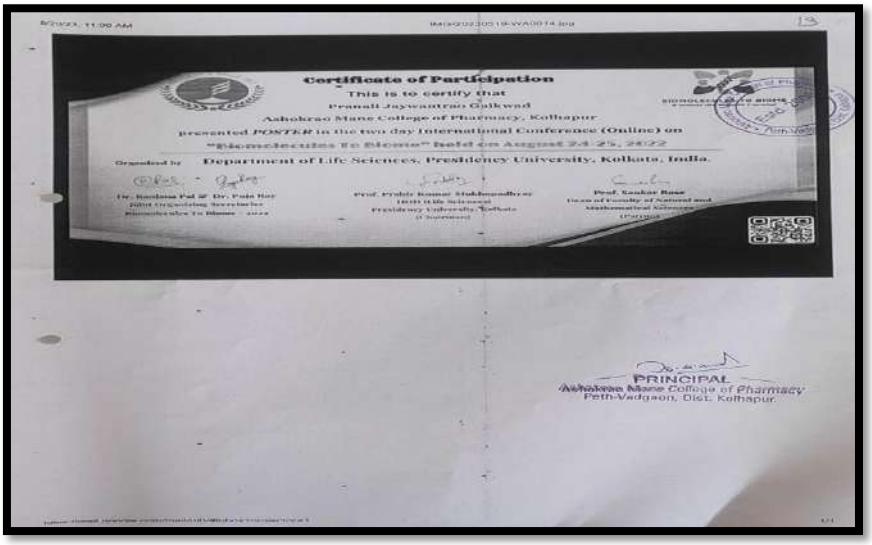
Theme: Human Biology

Formulation & Evaluation of Transdermal Patch of Diclofenac Sodium

Sarika. S.Suryawanshi[1], S. V. Patil, P. P. Patil, P.S. Sankpal
Ashokrao Mane College of Pharmacy,Peth-Vadgaon, Kolhapur, Maharashtra.
E-mail:sarikasuryawanshi@amcoph.org

The Novel Drug Delivery System is used to deliver a drug. Transdermal patch is a mediated adhesive patch that is placed on the skin to deliver a specific dose of medication through the skin and into the blood stream. Patch gives local as well as systemic action. Diclofenac sodium is non-steroidal anti-inflammatory agent, widely used in musculoskeletal disorders, arthritis, toothache, etc. Patch was prepared by using solvent evaporation method employing controlled release grades of HPMC E15 (Hydroxy propyl methyl cellulose). HPMC E12, PVP K12, PEG 400 with required amount of alcohol & water. Patch was evaluated by Physicochemical Parameters, Drug content & In vitro drug release studies etc. From prepared formulations F3 shows better drug release.

Key Words: Diclofenac Sodium , Transdermal patch, HPMC, In vitro



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Organized by Department of Life Sciences, Presidency University, Kolkata, India.

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3rd International Conference
On
Social Science, Management And Technology In Covid Era

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Shubhangi Sutar

has participated in the 3rd International Conference on Social Science, Management And Technology In Covid Era organized by Indian Academicians and Researchers Association in association with Institute for Scientific Research and Development (ISRD), Montenegro on 28th August 2022

He / She has presented the paper titled

FORCED DEGRADATION BEHAVIOR OF MELATONIN: ISOLATION AND CHARACTERIZATION OF DEGRADATION PRODUCTS

Prof. Dr. Elez Osmanoviq
Conference Convenor

Dr. Tazyn Rahman
Conference Convenor

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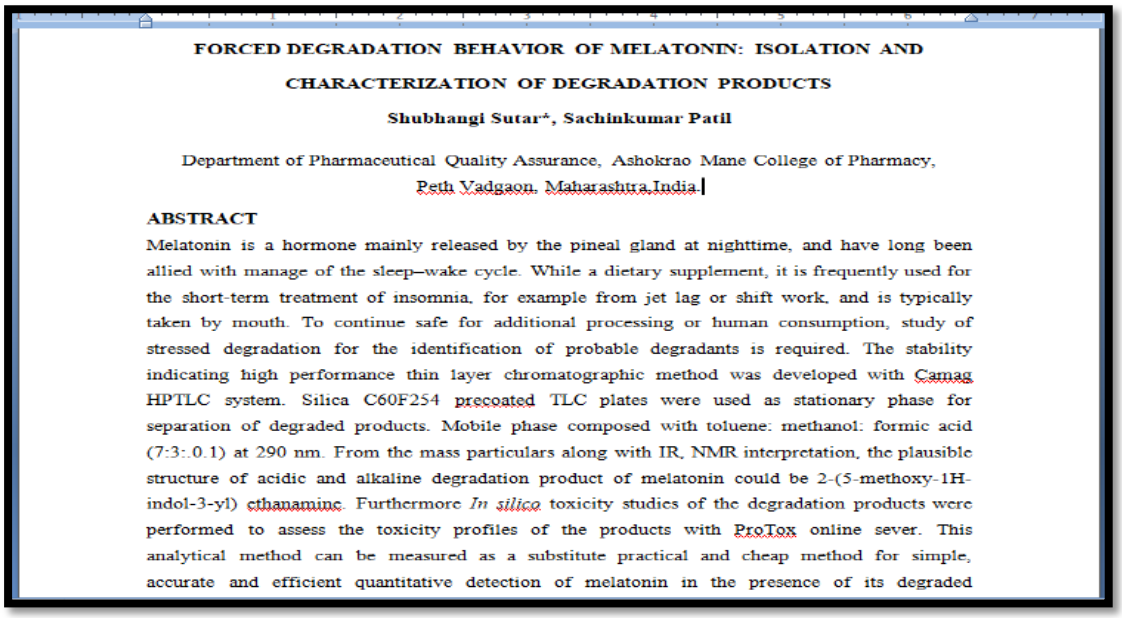

FORCED DEGRADATION BEHAVIOR OF MELATONIN: ISOLATION AND CHARACTERIZATION OF DEGRADATION PRODUCTS

Shubhangi Sutar*, Sachinkumar Patil

Department of Pharmaceutical Quality Assurance, Ashokrao Mane College of Pharmacy, Peth Vadgaon, Maharashtra,India

ABSTRACT

Melatonin is a hormone mainly released by the pineal gland at nighttime, and have long been allied with manage of the sleep–wake cycle. While a dietary supplement, it is frequently used for the short-term treatment of insomnia, for example from jet lag or shift work, and is typically taken by mouth. To continue safe for additional processing or human consumption, study of stressed degradation for the identification of probable degradants is required. The stability indicating high performance thin layer chromatographic method was developed with Camag HPTLC system. Silica C60F254 precoated TLC plates were used as stationary phase for separation of degraded products. Mobile phase composed with toluene: methanol: formic acid (7:3:.0.1) at 290 nm. From the mass particulars along with IR, NMR interpretation, the plausible structure of acidic and alkaline degradation product of melatonin could be 2-(5-methoxy-1H-indol-3-yl) ethanamine. Furthermore *In silico* toxicity studies of the degradation products were performed to assess the toxicity profiles of the products with ProTox online sever. This analytical method can be measured as a substitute practical and cheap method for simple, accurate and efficient quantitative detection of melatonin in the presence of its degraded

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CERTIFICATE

First International Online Conference on Blends, Composites, Bio-Composites and Nanocomposites (ICNC–2020) 9th - 11th October 2020 Kottayam, Kerala, India

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&
Wroclaw University of Technology, Wroclaw, Poland

This is to certify that **Shubhangi B. Sutar, Ashokrao Mane College of Pharmacy, Kolhapur, Maharashtra, India,** has presented a paper at the First international Online Conference on Blends, Composites, Bio-Composites and Nanocomposites (ICNC–2020) 9th - 11th October 2020 Kottayam, Kerala, India.

DIRECTOR
SCHOOL OF ENERGY MATERIALS
MAHATMA GANDHI UNIVERSITY
P.D. Hills P.O., Kottayam-686-560
Kerala, India

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Prof. Dr.Sabu Thomas
CHAIRMAN
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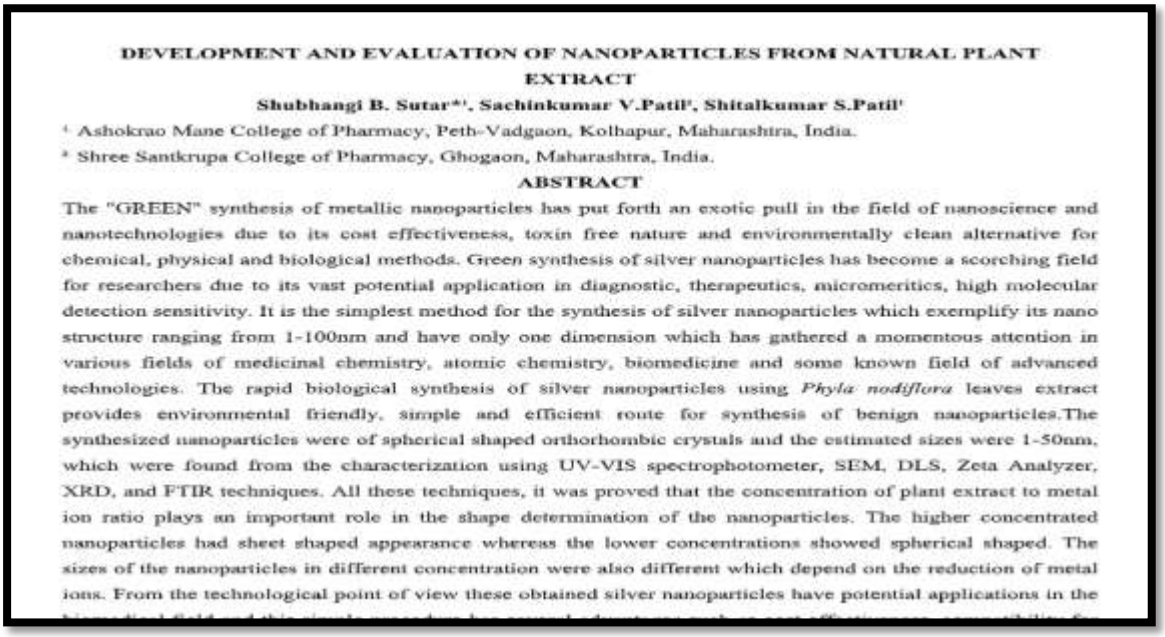

DEVELOPMENT AND EVALUATION OF NANOPARTICLES FROM NATURAL PLANT EXTRACT

Shubhangi B. Sutar*[1], Sachinkumar V.Patil[2], Shitalkumar S.Patil[1]

[1] Ashokrao Mane College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra, India.
[2] Shree Santkrupa College of Pharmacy, Ghogaon, Maharashtra, India.

ABSTRACT

The "GREEN" synthesis of metallic nanoparticles has put forth an exotic pull in the field of nanoscience and nanotechnologies due to its cost effectiveness, toxin free nature and environmentally clean alternative for chemical, physical and biological methods. Green synthesis of silver nanoparticles has become a scorching field for researchers due to its vast potential application in diagnostic, therapeutics, micromeritics, high molecular detection sensitivity. It is the simplest method for the synthesis of silver nanoparticles which exemplify its nano structure ranging from 1-100nm and have only one dimension which has gathered a momentous attention in various fields of medicinal chemistry, atomic chemistry, biomedicine and some known field of advanced technologies. The rapid biological synthesis of silver nanoparticles using *Phyla nodiflora* leaves extract provides environmental friendly, simple and efficient route for synthesis of benign nanoparticles.The synthesized nanoparticles were of spherical shaped orthorhombic crystals and the estimated sizes were 1-50nm, which were found from the characterization using UV-VIS spectrophotometer, SEM, DLS, Zeta Analyzer, XRD, and FTIR techniques. All these techniques, it was proved that the concentration of plant extract to metal ion ratio plays an important role in the shape determination of the nanoparticles. The higher concentrated nanoparticles had sheet shaped appearance whereas the lower concentrations showed spherical shaped. The sizes of the nanoparticles in different concentration were also different which depend on the reduction of metal ions. From the technological point of view these obtained silver nanoparticles have potential applications in the

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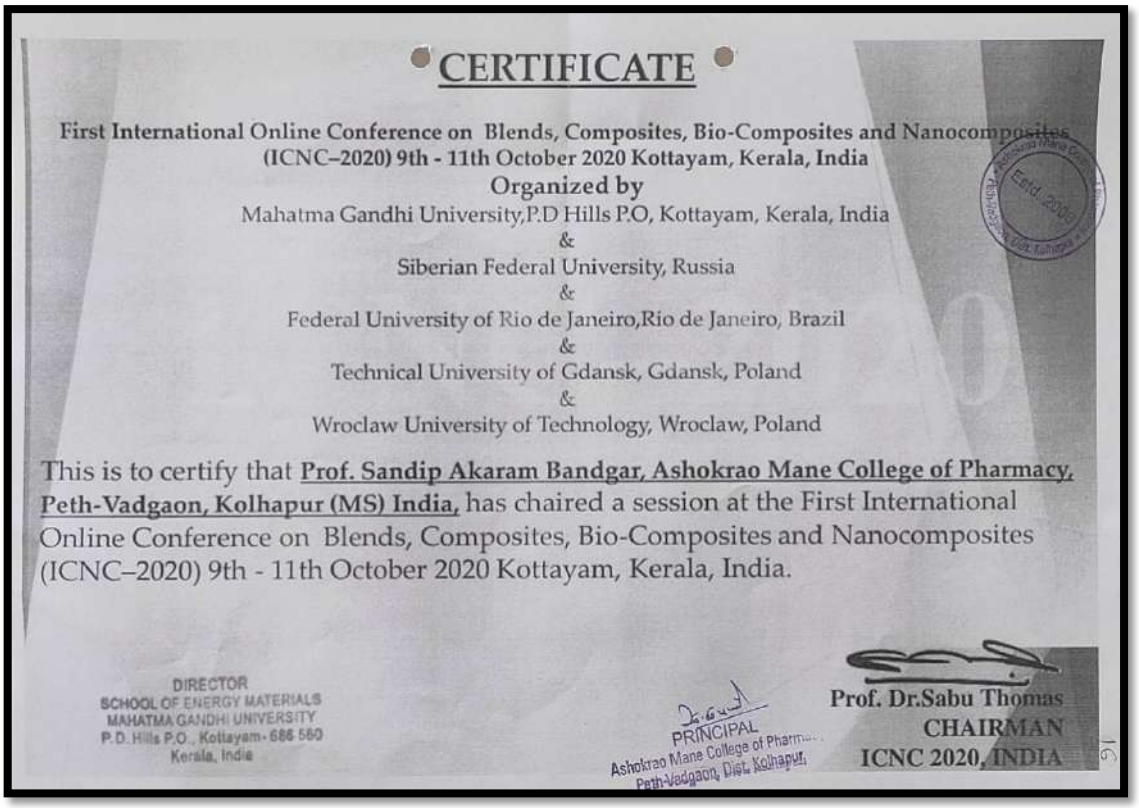

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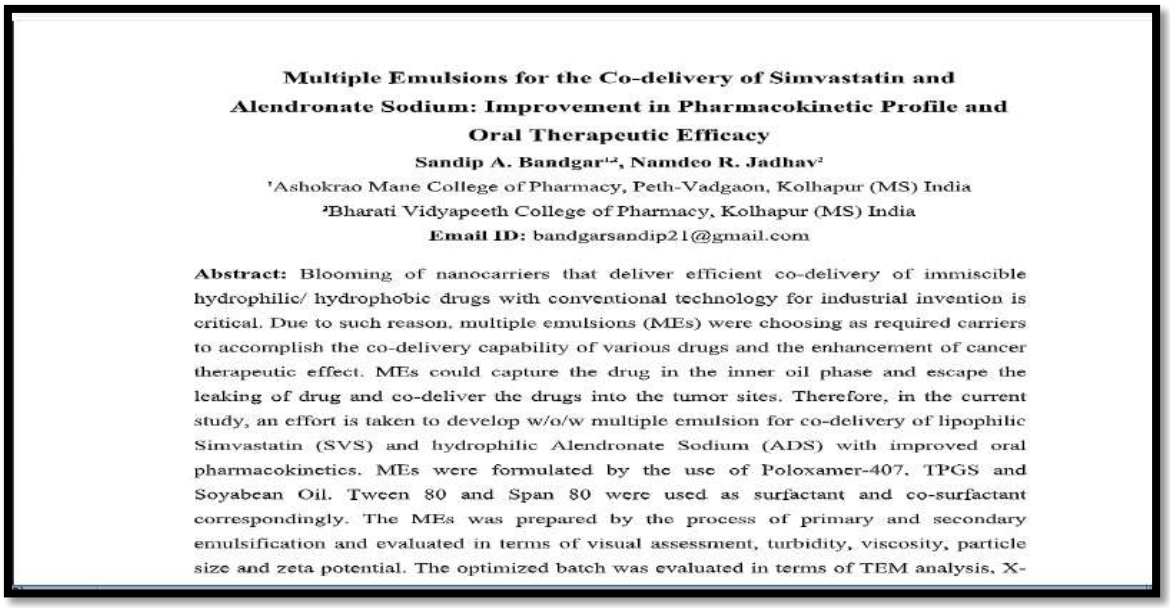

Multiple Emulsions for the Co-delivery of Simvastatin and Alendronate Sodium: Improvement in Pharmacokinetic Profile and Oral Therapeutic Efficacy

Sandip A. Bandgar[1,2], Namdeo R. Jadhav[2]

[1]Ashokrao Mane College of Pharmacy, Peth-Vadgaon, Kolhapur (MS) India

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Abstract: Blooming of nanocarriers that deliver efficient co-delivery of immiscible hydrophilic/ hydrophobic drugs with conventional technology for industrial invention is critical. Due to such reason, multiple emulsions (MEs) were choosing as required carriers to accomplish the co-delivery capability of various drugs and the enhancement of cancer therapeutic effect. MEs could capture the drug in the inner oil phase and escape the leaking of drug and co-deliver the drugs into the tumor sites. Therefore, in the current study, an effort is taken to develop w/o/w multiple emulsion for co-delivery of lipophilic Simvastatin (SVS) and hydrophilic Alendronate Sodium (ADS) with improved oral pharmacokinetics. MEs were formulated by the use of Poloxamer-407, TPGS and Soyabean Oil. Tween 80 and Span 80 were used as surfactant and co-surfactant correspondingly. The MEs was prepared by the process of primary and secondary emulsification and evaluated in terms of visual assessment, turbidity, viscosity, particle size and zeta potential. The optimized batch was evaluated in terms of TEM analysis, X-

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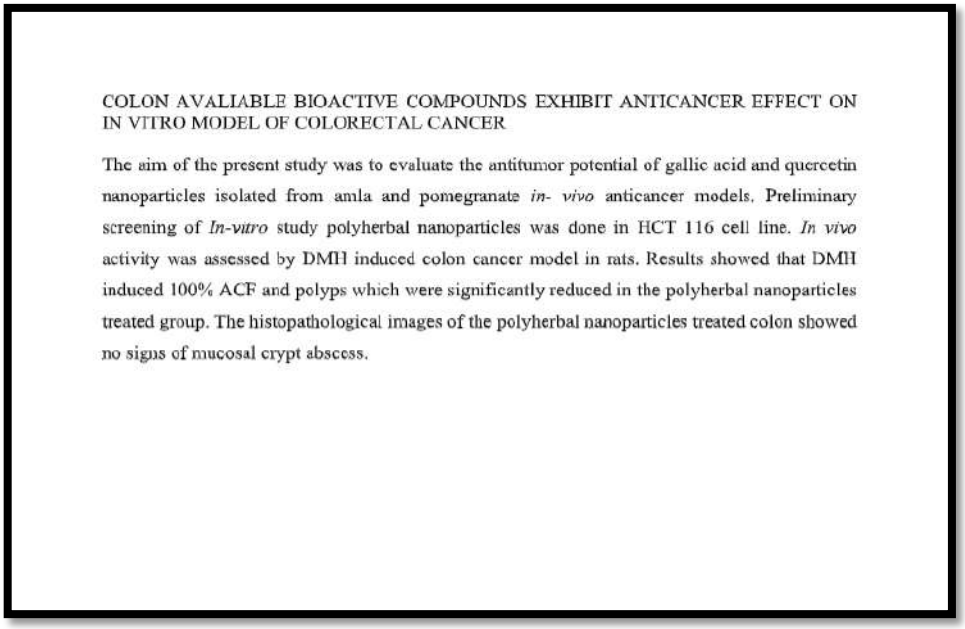

COLON AVALIABLE BIOACTIVE COMPOUNDS EXHIBIT ANTICANCER EFFECT ON IN VITRO MODEL OF COLORECTAL CANCER

The aim of the present study was to evaluate the antitumor potential of gallic acid and quercetin nanoparticles isolated from amla and pomegranate *in- vivo* anticancer models. Preliminary screening of *In-vitro* study polyherbal nanoparticles was done in HCT 116 cell line. *In vivo* activity was assessed by DMH induced colon cancer model in rats. Results showed that DMH induced 100% ACF and polyps which were significantly reduced in the polyherbal nanoparticles treated group. The histopathological images of the polyherbal nanoparticles treated colon showed no signs of mucosal crypt abscess.

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Title: Simultaneous determination of melatonin impurities by an HPLC method coupled with diode array detection

Authors: Subhangi V. Sutar, Veerendra C.Yeligar, Sachinkumar V. Patil

Dr. Bhoomendra Bhongade
Chief Coordinator

Dr. Padma GM Rao
Dean, RAKCOPS

Dr. S. Gurumadhva Rao
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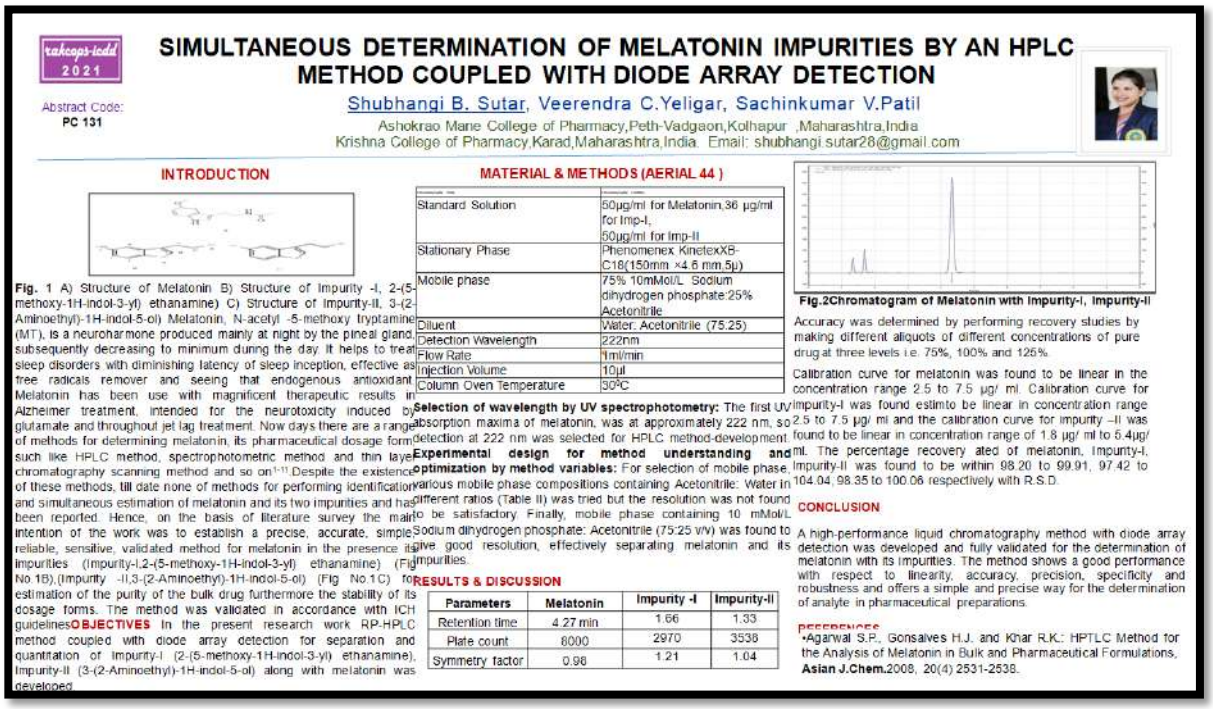

rakcops-icdd 2021

Abstract Code: PC 131

SIMULTANEOUS DETERMINATION OF MELATONIN IMPURITIES BY AN HPLC METHOD COUPLED WITH DIODE ARRAY DETECTION

Shubhangi B. Sutar, Veerendra C.Yeligar, Sachinkumar V.Patil
Ashokrao Mane College of Pharmacy,Peth-Vadgaon,Kolhapur ,Maharashtra,India
Krishna College of Pharmacy,Karad,Maharashtra,India. Email: shubhangi.sutar28@gmail.com

INTRODUCTION

Fig. 1 A) Structure of Melatonin B) Structure of Impurity -I, 2-(5-methoxy-1H-indol-3-yl) ethanamine) C) Structure of Impurity-II, 3-(2-Aminoethyl)-1H-indol-5-ol) Melatonin, N-acetyl -5-methoxy tryptamine (MT), is a neurohormone produced mainly at night by the pineal gland, subsequently decreasing to minimum during the day. It helps to treat sleep disorders with diminishing latency of sleep inception, effective as free radicals remover and seeing that endogenous antioxidant Melatonin has been use with magnificent therapeutic results in Alzheimer treatment, intended for the neurotoxicity induced by glutamate and throughout jet lag treatment. Now days there are a range of methods for determining melatonin, its pharmaceutical dosage form such like HPLC method, spectrophotometric method and thin layer chromatography scanning method and so on[1-11] Despite the existence of these methods, till date none of methods for performing identification and simultaneous estimation of melatonin and its two impurities and has been reported. Hence, on the basis of literature survey the main intention of the work was to establish a precise, accurate, simple, reliable, sensitive, validated method for melatonin in the presence its impurities (Impurity-I,2-(5-methoxy-1H-indol-3-yl) ethanamine) (Fig No.1B),(Impurity -II,3-(2-Aminoethyl)-1H-indol-5-ol) (Fig No.1C) for estimation of the purity of the bulk drug furthermore the stability of its dosage forms. The method was validated in accordance with ICH guidelines**OBJECTIVES** In the present research work RP-HPLC method coupled with diode array detection for separation and quantitation of Impurity-I (2-(5-methoxy-1H-indol-3-yl) ethanamine), Impurity-II (3-(2-Aminoethyl)-1H-indol-5-ol) along with melatonin was developed.

MATERIAL & METHODS (AERIAL 44)

Standard Solution	50µg/ml for Melatonin,36 µg/ml for Imp-I, 50µg/ml for Imp-II
Stationary Phase	Phenomenex KinetexXB-C18(150mm ×4.6 mm,5µ)
Mobile phase	75% 10mMol/L Sodium dihydrogen phosphate:25% Acetonitrile
Diluent	Water: Acetonitrile (75:25)
Detection Wavelength	222nm
Flow Rate	1ml/min
Injection Volume	10µl
Column Oven Temperature	30°C

Selection of wavelength by UV spectrophotometry: The first UV absorption maxima of melatonin, was at approximately 222 nm, so detection at 222 nm was selected for HPLC method-development. **Experimental design for method understanding and optimization by method variables:** For selection of mobile phase various mobile phase compositions containing Acetonitrile: Water in different ratios (Table II) was tried but the resolution was not found to be satisfactory. Finally, mobile phase containing 10 mMol/L Sodium dihydrogen phosphate: Acetonitrile (75:25 v/v) was found to give good resolution, effectively separating melatonin and its impurities.

RESULTS & DISCUSSION

Parameters	Melatonin	Impurity -I	Impurity-II
Retention time	4.27 min	1.66	1.33
Plate count	8000	2970	3538
Symmetry factor	0.98	1.21	1.04

Fig.2Chromatogram of Melatonin with Impurity-I, Impurity-II

Accuracy was determined by performing recovery studies by making different aliquots of different concentrations of pure drug at three levels i.e. 75%, 100% and 125%.

Calibration curve for melatonin was found to be linear in the concentration range 2.5 to 7.5 µg/ ml. Calibration curve for Impurity-I was found estimto be linear in concentration range 2.5 to 7.5 µg/ ml and the calibration curve for impurity –II was found to be linear in concentration range of 1.8 µg/ ml to 5.4µg/ ml. The percentage recovery ated of melatonin, Impurity-I, Impurity-II was found to be within 98.20 to 99.91, 97.42 to 104.04, 98.35 to 100.06 respectively with R.S.D.

CONCLUSION

A high-performance liquid chromatography method with diode array detection was developed and fully validated for the determination of melatonin with its impurities. The method shows a good performance with respect to linearity, accuracy, precision, specificity and robustness and offers a simple and precise way for the determination of analyte in pharmaceutical preparations.

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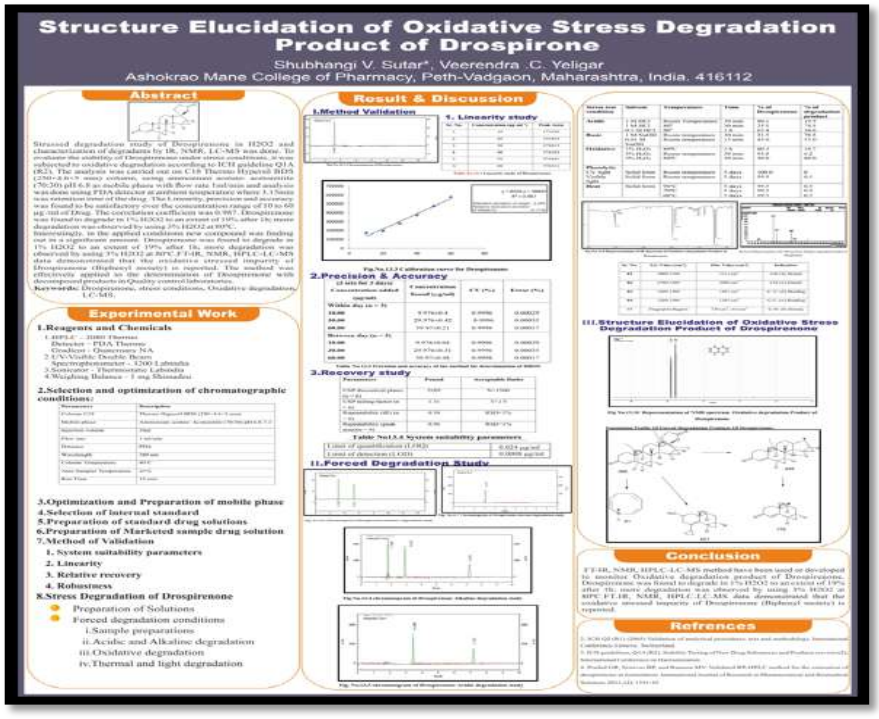

Structure Elucidation of Oxidative Stress Degradation Product of Drospirone

Shubhangi V. Sutar*, Veerendra .C. Yeligar
Ashokrao Mane College of Pharmacy, Peth-Vadgaon, Maharashtra, India. 416112

Abstract

Experimental Work

Result & Discussion

Conclusion

Refrences

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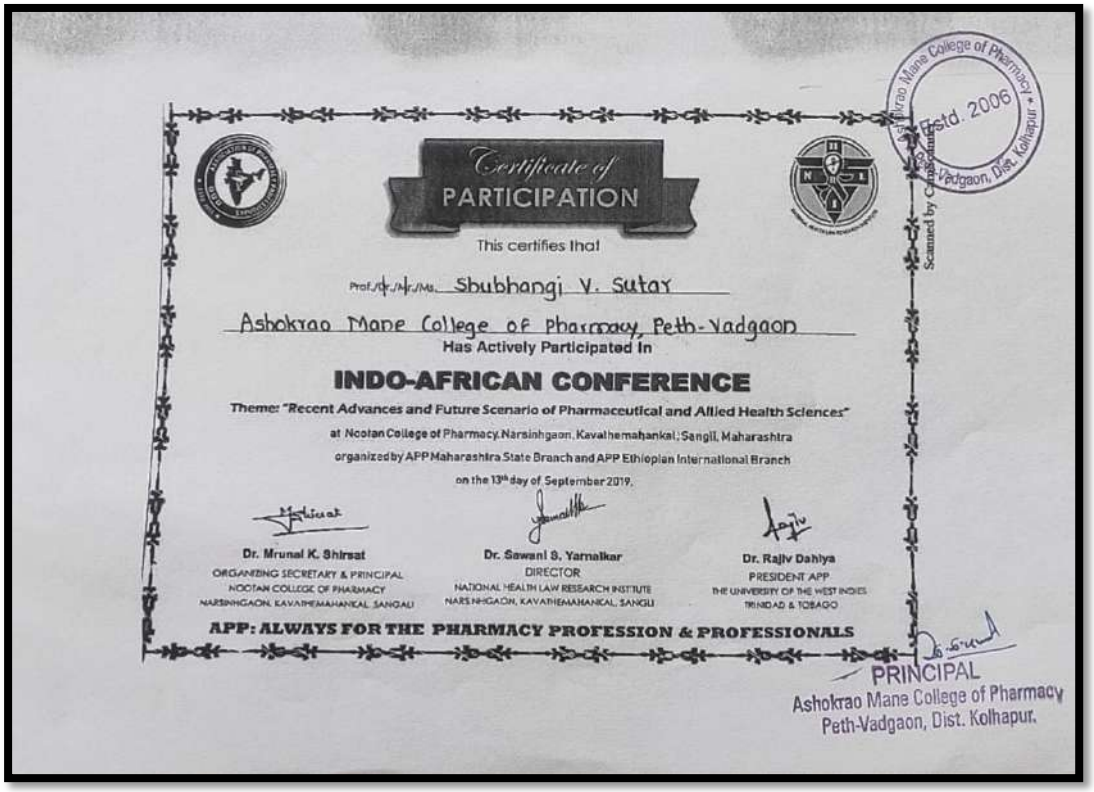

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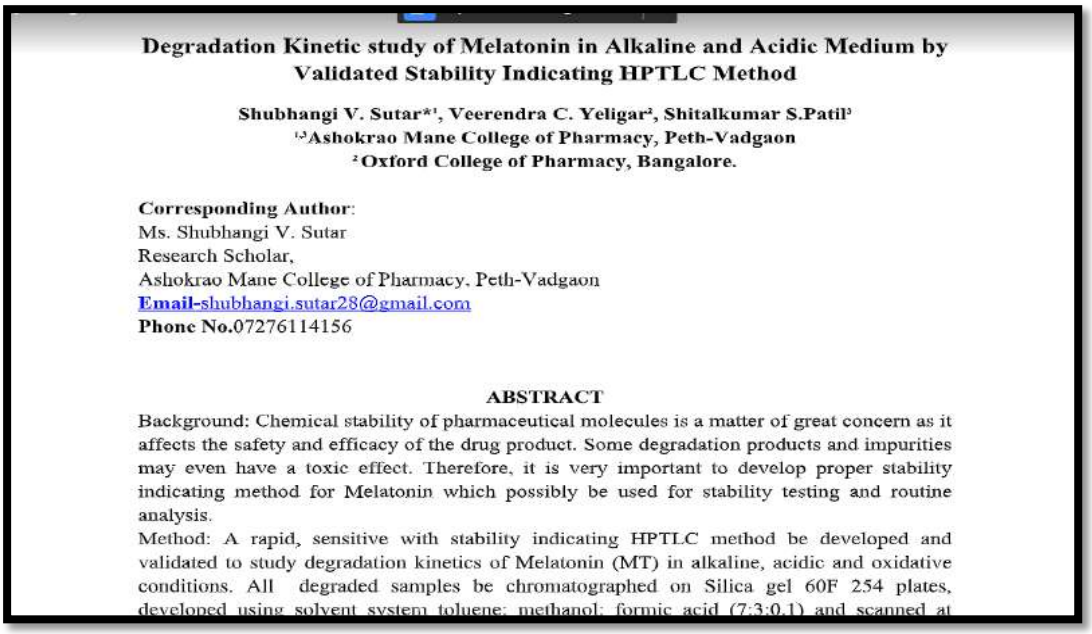

Degradation Kinetic study of Melatonin in Alkaline and Acidic Medium by Validated Stability Indicating HPTLC Method

Shubhangi V. Sutar*[1], Veerendra C. Yeligar[2], Shitalkumar S.Patil[3]
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ABSTRACT

Background: Chemical stability of pharmaceutical molecules is a matter of great concern as it affects the safety and efficacy of the drug product. Some degradation products and impurities may even have a toxic effect. Therefore, it is very important to develop proper stability indicating method for Melatonin which possibly be used for stability testing and routine analysis.

Method: A rapid, sensitive with stability indicating HPTLC method be developed and validated to study degradation kinetics of Melatonin (MT) in alkaline, acidic and oxidative conditions. All degraded samples be chromatographed on Silica gel 60F 254 plates, developed using solvent system toluene: methanol: formic acid (7:3:0.1) and scanned at

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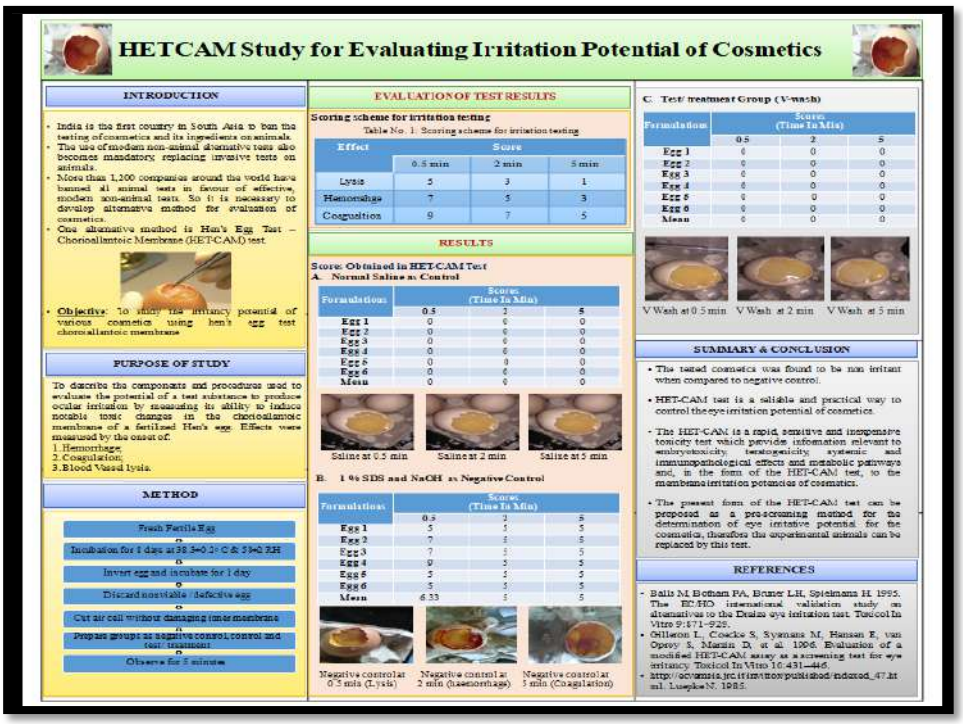

HETCAM Study for Evaluating Irritation Potential of Cosmetics

INTRODUCTION

- India is the first country in South Asia to ban the testing of cosmetics and its ingredients on animals.
- The use of modern non-animal alternative tests also becomes mandatory replacing invasive tests on animals.
- More than 1,200 companies around the world have banned all animal tests in favour of effective, modern non-animal tests. So it is necessary to develop alternative method for evaluation of cosmetics.
- One alternative method is Hen's Egg Test – Chorioallantoic Membrane (HET-CAM) test.

- **Objective**: To study the irritancy potential of various cosmetics using hen's egg test chorioallantoic membrane

PURPOSE OF STUDY

To describe the components and procedures used to evaluate the potential of a test substance to produce ocular irritation by assessing its ability to induce notable toxic changes in the chorioallantoic membrane of a fertilized Hen's egg. Effects were monitored by the onset of:
1. Hemorrhage,
2. Coagulation,
3. Blood Vessel lysis.

METHOD

Fresh Fertile Egg
↓
Incubation for 3 days at 38.5±0.2° C & 84±2 RH
↓
Invert egg and incubate for 1 day
↓
Discard non viable/ defective egg
↓
Cut air cell without damaging inner membrane
↓
Prepare groups as negative control, control and test/ treatment
↓
Observe for 5 minutes

EVALUATION OF TEST RESULTS

Scoring scheme for irritation testing

Table No. 1: Scoring scheme for irritation testing

Effect	Score		
	0.5 min	2 min	5 min
Lysis	5	3	1
Hemorrhage	7	5	3
Coagulation	9	7	5

RESULTS

Score: Obtained in HET-CAM Test

A. Normal Saline as Control

Formulation	Score (Time In Min)		
	0.5	2	5
Egg 1	0	0	0
Egg 2	0	0	0
Egg 3	0	0	0
Egg 4	0	0	0
Egg 5	0	0	0
Egg 6	0	0	0
Mean	0	0	0

Saline at 0.5 min | Saline at 2 min | Saline at 5 min

B. 1 % SDS and NaOH as Negative Control

Formulation	Score (Time In Min)		
	0.5	2	5
Egg 1	5	5	5
Egg 2	7	5	5
Egg 3	7	5	5
Egg 4	9	5	5
Egg 5	5	5	5
Egg 6	5	5	5
Mean	6.33	5	5

Negative control at 0.5 min (Lysis) | Negative control at 2 min (haemorrhage) | Negative control at 5 min (Coagulation)

C. Test/ treatment Group (V-wash)

Formulation	Score (Time In Min)		
	0.5	2	5
Egg 1	0	0	0
Egg 2	0	0	0
Egg 3	0	0	0
Egg 4	0	0	0
Egg 5	0	0	0
Egg 6	0	0	0
Mean	0	0	0

V Wash at 0.5 min | V Wash at 2 min | V Wash at 5 min

SUMMARY & CONCLUSION

- The tested cosmetics was found to be non irritant when compared to negative control.
- HET-CAM test is a reliable and practical way to control the eye irritation potential of cosmetics.
- The HET-CAM is a rapid, sensitive and inexpensive toxicity test which pervides information relevant to embryotoxicity, teratogenicity, systemic and immunopathological effects and metabolic pathways and, in the form of the HET-CAM test, to the membrane irritation potencies of cosmetics.
- The present form of the HET-CAM test can be proposed as a pre-screening method for the determination of eye irritative potential for the cosmetics, therefore the experimental animals can be replaced by this test.

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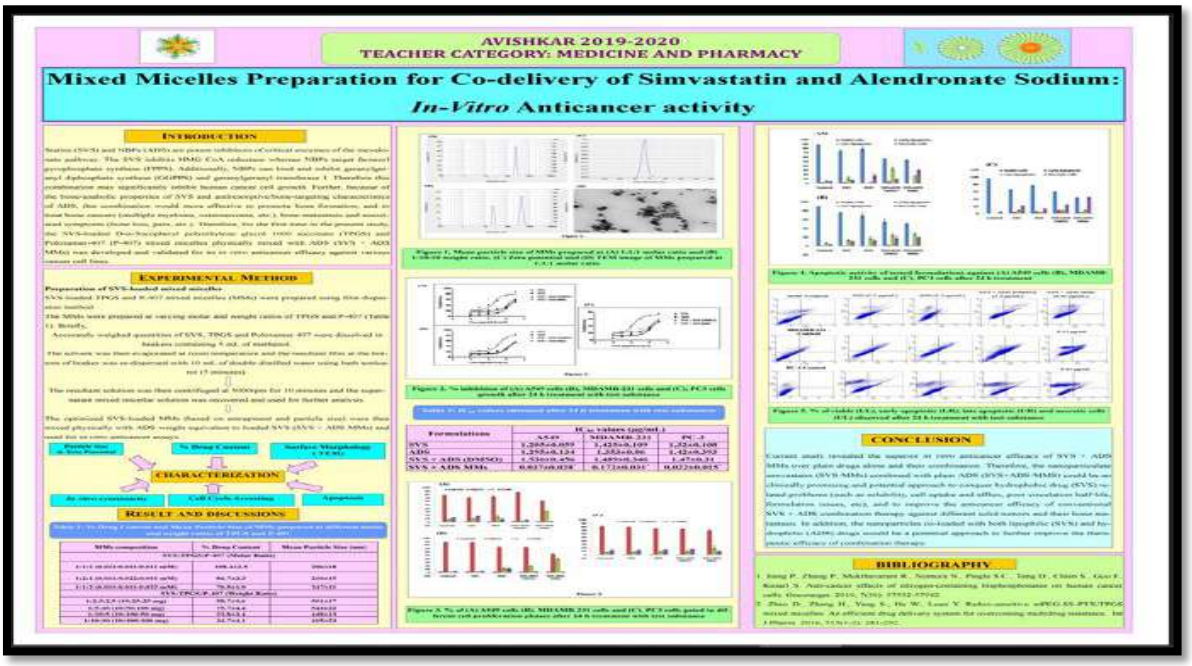

AVISHKAR 2019-2020
TEACHER CATEGORY: MEDICINE AND PHARMACY

Mixed Micelles Preparation for Co-delivery of Simvastatin and Alendronate Sodium: *In-Vitro* Anticancer activity

INTRODUCTION

EXPERIMENTAL METHODS

CHARACTERIZATION

RESULT AND DISCUSSIONS

CONCLUSION

BIBLIOGRAPHY

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This is to certify that Shri/Smt. Shubhangi Bhaskarrao Sutar of A. M. C. P., Peth Vadgaon, Kop has participated in the University Level Avishkar Research Convention 2019-20 at UG/PG/PPG/TA level in Medicine & Pharmacy discipline. The convention was held at Department of Technology, Shivaji University, Kolhapur on 08/01/2020.

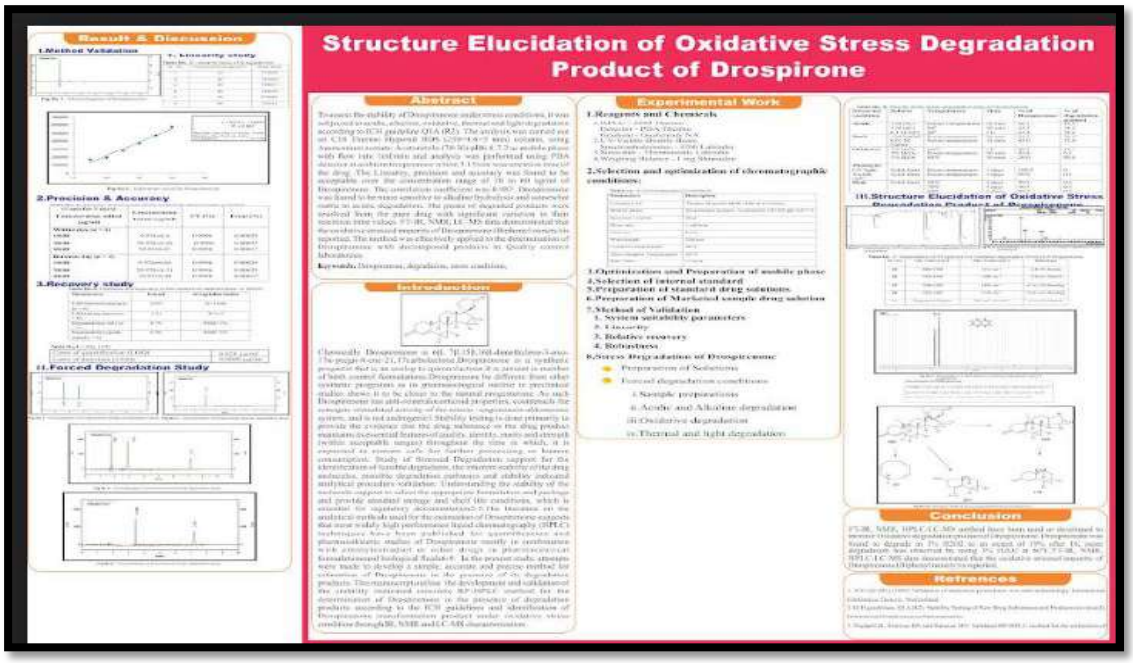
Place: Kolhapur

Date: 08/01/2020

Avishkar Coordinator

Pro-Vice Chancellor

PRINCIPAL
Ashokrao Mane College of Pharmacy
Peth-Vadgaon, Dist. Kolhapur



Structure Elucidation of Oxidative Stress Degradation Product of Drospirone

Abstract

Introduction

Experimental Work

Result & Discussion

Conclusion

Refrences

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Signed by: Sachinkumar Vasantrao Patil
Reason: NAAC
Location: Peth Vadgaon, India
Date: 17-Jun-2023 (07:51 PM)

University of Mumbai

Avishkar 2019-20

14th Maharashtra State Inter-University Research Convention

January 28-31, 2020

Ashokrao Mane College of Pharmacy Peth-Vadgaon, Dist. Kolhapur Estd. 2006

Certificate of Participation

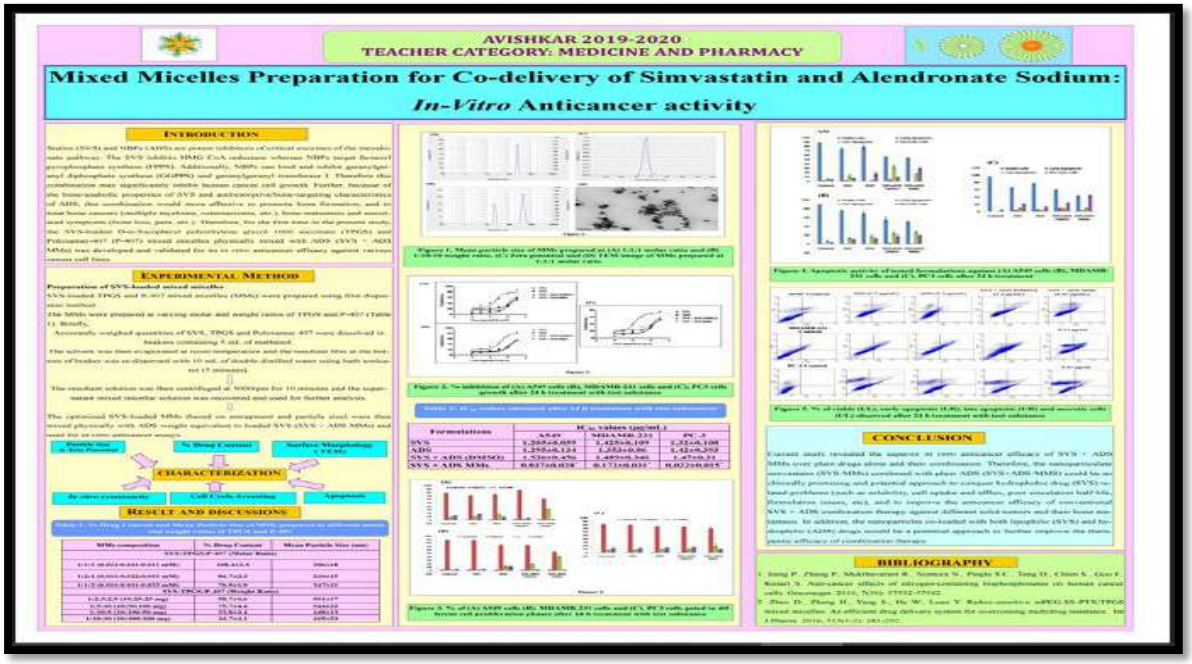
This is to certify that **Mr. Bandgar Sandip Akaram** of **Shivaji University, Kolhapur** has participated and presented a research project titled **Mixed Micelles Preparation for Co-delivery of Simvastatin and Alendronate Sodium: In-Vitro Anticancer Activity** in **Medicine and Pharmacy** category and **TH** level at the 14th Maharashtra State Inter-University Avishkar Research Convention: 2019-20 organized by University of Mumbai on January 28-31, 2020.

Kalina, Mumbai
January 31, 2020

Prof. Suhas Pednekar
Vice Chancellor,
University of Mumbai

Prof. Ravindra Kulkarni
Pro Vice-Chancellor,
University of Mumbai

PRINCIPAL
Ashokrao Mane College of Pharmacy
Peth-Vadgaon, Dist. Kolhapur.



AVISHKAR 2019-2020
TEACHER CATEGORY: MEDICINE AND PHARMACY

Mixed Micelles Preparation for Co-delivery of Simvastatin and Alendronate Sodium: *In-Vitro* Anticancer activity

INTRODUCTION

EXPERIMENTAL METHODS

CHARACTERIZATION

RESULT AND DISCUSSIONS

CONCLUSION

BIBLIOGRAPHY

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Reason: NAAC
Location: Peth Vadgaon, India
Date: 17-Jun-2023 (07:51 PM)

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SHIVAJI UNIVERSITY, KOLHAPUR

LEAD COLLEGE SCHEME PHARMACY COLLEGES

Sharing of Human Resource Activity 2019-20

CERTIFICATE

Mr./ Ms. S. V. Sutar

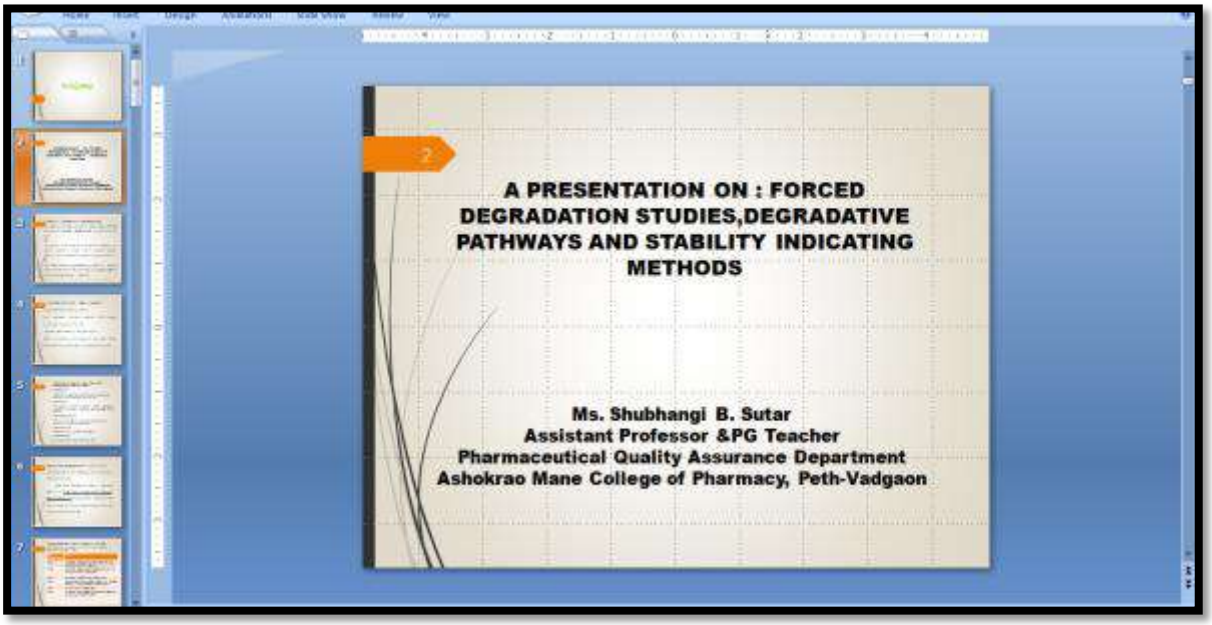
of Ashokrao Mane College of Pharmacy, Pethvadgaon.

in recognition of his/her participation as a Resource Person in "Sharing of Human Resource Activity" under Lead College Scheme held in first week of February 2020 organized by Lead College, Bharati Vidyapeeth College of Pharmacy, Kolhapur.

Prof. D. T. Gaikwad
Secretary
Lead College

Dr. H. N. More
Principal & Chairman
Lead College

PRINCIPAL
Ashokrao Mane College of Pharmacy
Peth-Vadgaon, Dist. Kolhapur.



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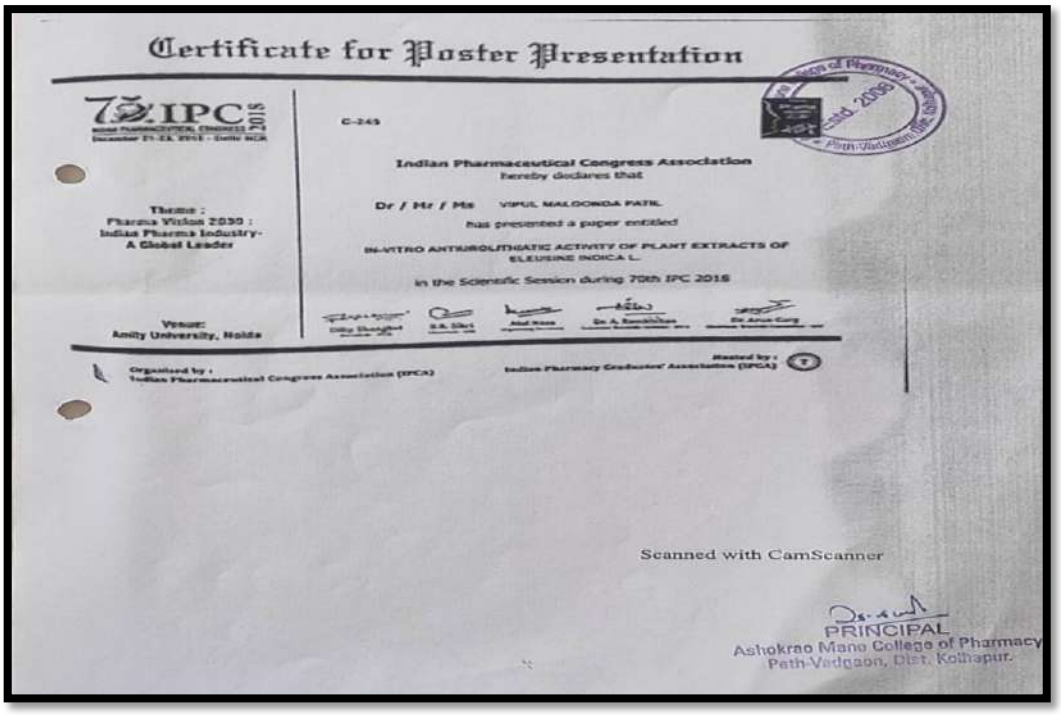

Certificate for Poster Presentation

70 IPC 2018

C-249

Indian Pharmaceutical Congress Association
hereby declares that

Dr / Mr / Ms VIPUL MALOONDA PATIL

has presented a paper entitled

IN-VITRO ANTIUROLITHIATIC ACTIVITY OF PLANT EXTRACTS OF ELEUSINE INDICA L.

in the Scientific Session during 70th IPC 2018

Theme :
Pharma Vision 2030 :
Indian Pharma Industry-
A Global Leader

Venue:
Amity University, Noida

Organised by :
Indian Pharmaceutical Congress Association (IPCA)

Hosted by :
Indian Pharmacy Graduates' Association (IPGA)

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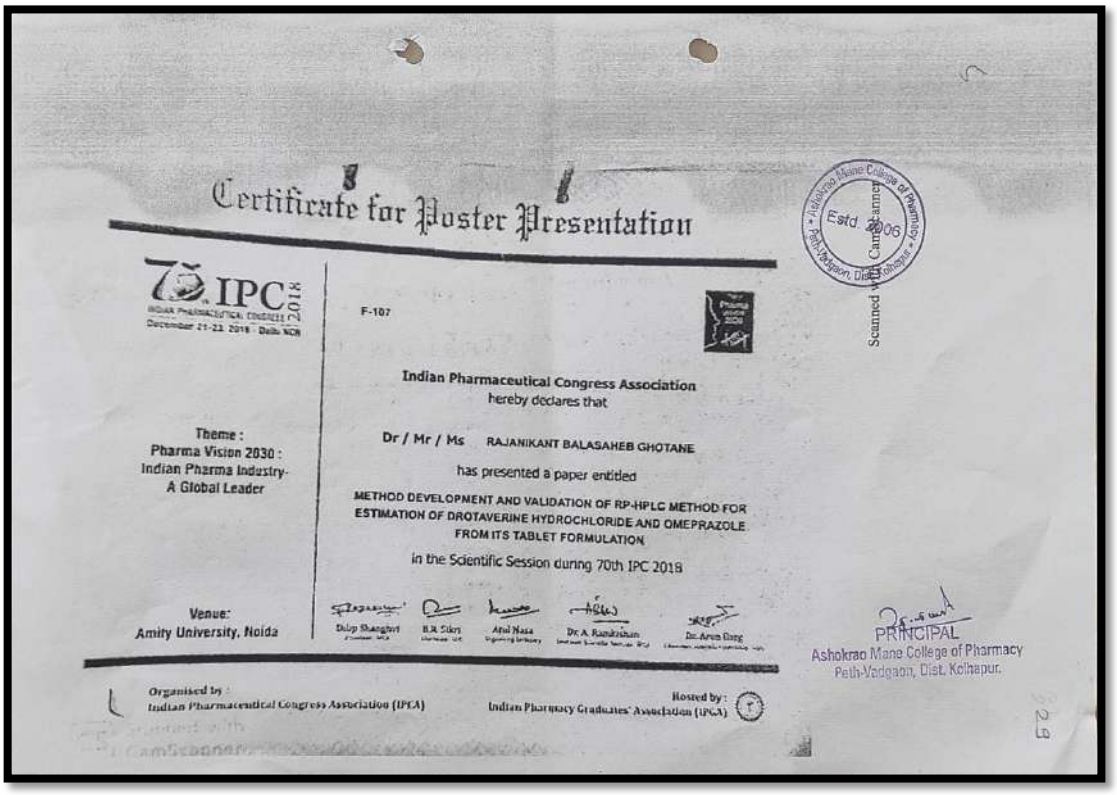

Certificate for Poster Presentation

70 IPC 2018
December 21-23 2018 - Delhi NCR

F-107

Indian Pharmaceutical Congress Association
hereby declares that

Dr / Mr / Ms RAJANIKANT BALASAHEB GHOTANE

has presented a paper entitled

METHOD DEVELOPMENT AND VALIDATION OF RP-HPLC METHOD FOR ESTIMATION OF DROTAVERINE HYDROCHLORIDE AND OMEPRAZOLE FROM ITS TABLET FORMULATION

in the Scientific Session during 70th IPC 2018

Theme :
Pharma Vision 2030 :
Indian Pharma Industry-
A Global Leader

Venue:
Amity University, Noida

Dilip Shanghvi | B.R. Sikri | Atul Nasa | Dr A. Ramkrishan | Dr. Arun Garg

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Certificate for Poster Presentation

70th IPC 2018
INDIAN PHARMACEUTICAL CONGRESS
December 21-23, 2018 - Delhi NCR

A-171

Indian Pharmaceutical Congress Association
hereby declares that

Dr / Mr / Ms SANDIP AKARAM BANDGAR

has presented a paper entitled

DESIGN, DEVELOPMENT AND CHARACTERIZATION OF SOLID LIPID NANOPARTICLES OF PRAZOSIN BY HOT HOMOGENIZATION METHOD

in the Scientific Session during 70th IPC 2018

Theme :
Pharma Vision 2030 :
Indian Pharma Industry-
A Global Leader

Venue:
Amity University, Noida

Dilip Shanghvi, President - IPCA
B.R. Sikri, Chairman - LOC
Atul Nasa, Organising Secretary
Dr. A. Ramkishan, Convenor, Scientific Services - IPCA
Dr. Arun Gaur, Chairman, Scientific Committee - IPCA

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Hosted by :
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SHIVAJI UNIVERSITY, KOLHAPUR

Estd. 1962
NAAC 'A' Grade

AVISHKAR 2018-2019

Estd. 2006 Ashokrao Mane College of Pharmacy Peth-Vadgaon, Dist. Kolhapur.

CERTIFICATE

This is to certify that, Shri./Smt. Pranali jaywantrao Gaikwad

of A.M. College of pharmacy College/Dept. has participated in "Avishkar 2018-2019" Research Project Competition at University level (Central) held at **Yashwantrao Chavan School of Rural Development, Shivaji University, Kolhapur** in the Medicine and pharmacy (RS) category during December 2018-January, 2019

Date : 28 DEC 2018

Place : Kolhapur

PRINCIPAL
Ashokrao Mane College of Pharmacy
Peth-Vadgaon, Dist. Kolhapur.

I/c. Director

Co-ordinator - Avishkar / Dean

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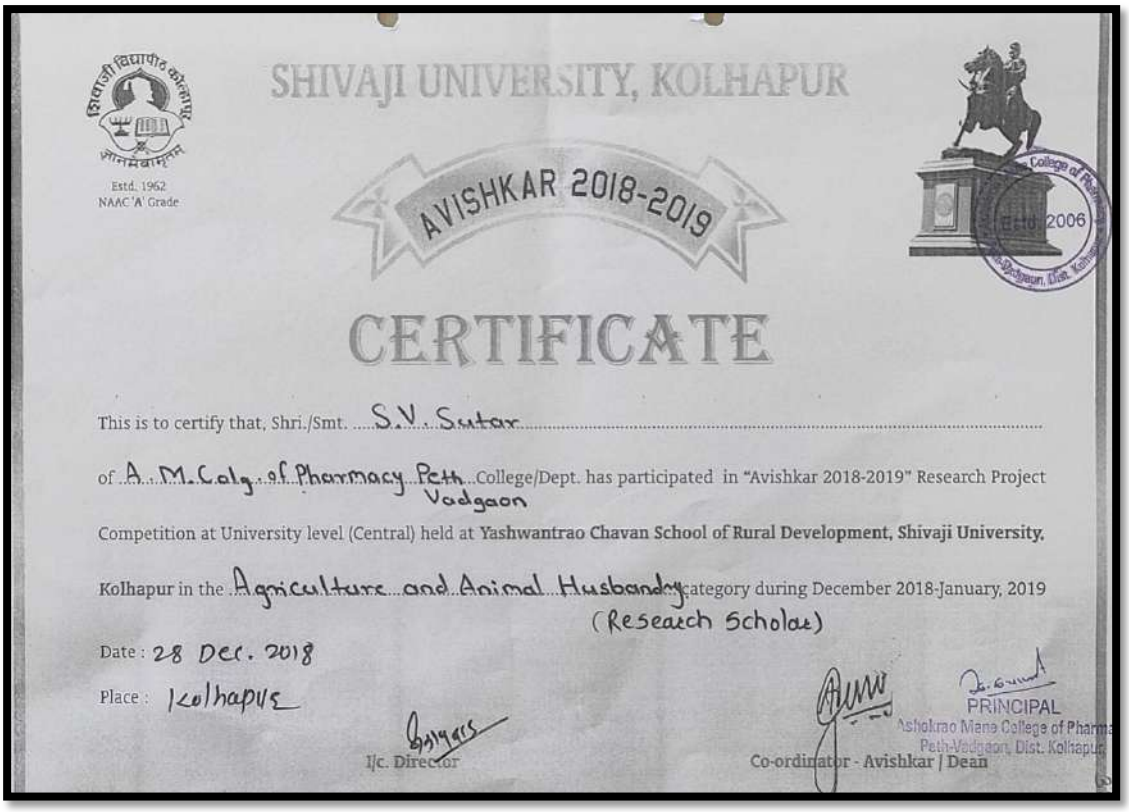

SHIVAJI UNIVERSITY, KOLHAPUR

Estd. 1962
NAAC 'A' Grade

AVISHKAR 2018-2019

CERTIFICATE

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of A.M.Colg. of Pharmacy Peth Vadgaon College/Dept. has participated in "Avishkar 2018-2019" Research Project Competition at University level (Central) held at **Yashwantrao Chavan School of Rural Development, Shivaji University, Kolhapur** in the Agriculture and Animal Husbandry category during December 2018-January, 2019 (Research Scholar)

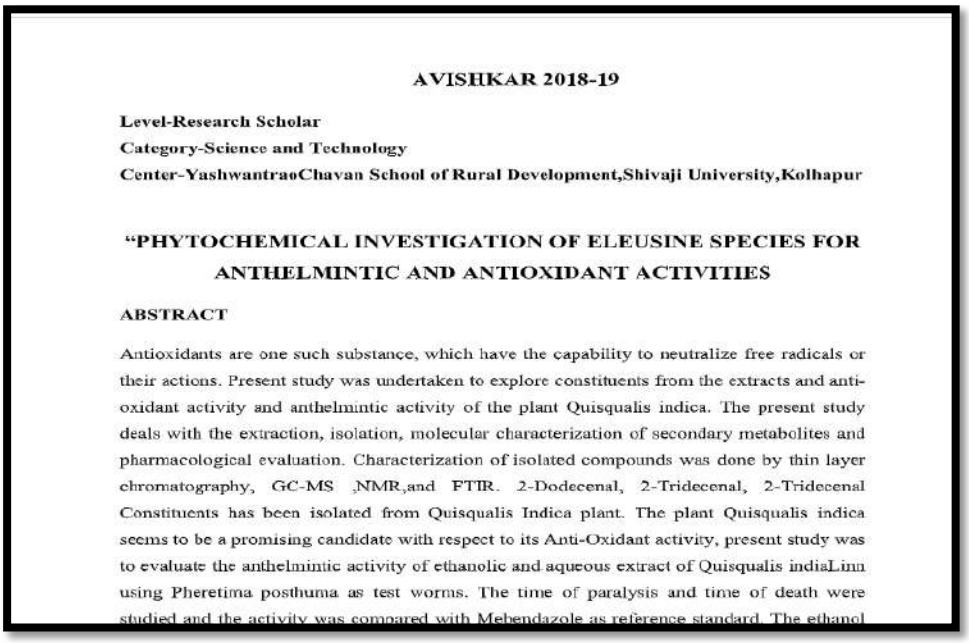
Date : 28 Dec. 2018

Place : Kolhapur

I/c. Director

Co-ordinator - Avishkar | Dean

PRINCIPAL
Ashokrao Mane College of Pharma
Peth-Vadgaon, Dist. Kolhapur



AVISHKAR 2018-19

Level-Research Scholar
Category-Science and Technology
Center-YashwantraoChavan School of Rural Development,Shivaji University,Kolhapur

"PHYTOCHEMICAL INVESTIGATION OF ELEUSINE SPECIES FOR ANTHELMINTIC AND ANTIOXIDANT ACTIVITIES

ABSTRACT

Antioxidants are one such substance, which have the capability to neutralize free radicals or their actions. Present study was undertaken to explore constituents from the extracts and anti-oxidant activity and anthelmintic activity of the plant Quisqualis indica. The present study deals with the extraction, isolation, molecular characterization of secondary metabolites and pharmacological evaluation. Characterization of isolated compounds was done by thin layer chromatography, GC-MS ,NMR,and FTIR. 2-Dodecenal, 2-Tridecenal, 2-Tridecenal Constituents has been isolated from Quisqualis Indica plant. The plant Quisqualis indica seems to be a promising candidate with respect to its Anti-Oxidant activity, present study was to evaluate the anthelmintic activity of ethanolic and aqueous extract of Quisqualis indiaLinn using Pheretima posthuma as test worms. The time of paralysis and time of death were studied and the activity was compared with Mebendazole as reference standard. The ethanol

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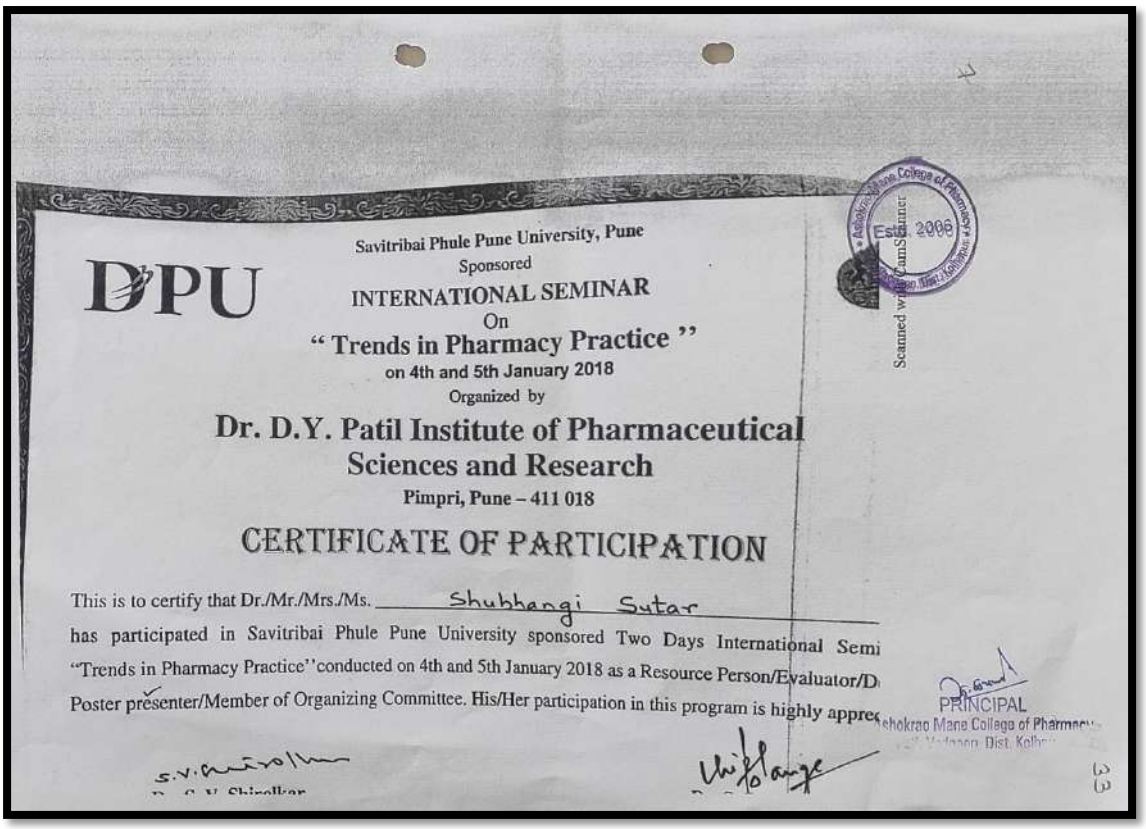

Savitribai Phule Pune University, Pune
Sponsored
INTERNATIONAL SEMINAR
On
" Trends in Pharmacy Practice "
on 4th and 5th January 2018
Organized by
Dr. D.Y. Patil Institute of Pharmaceutical Sciences and Research
Pimpri, Pune – 411 018

DPU

CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Mrs./Ms. Shubhangi Sutar
has participated in Savitribai Phule Pune University sponsored Two Days International Semi
"Trends in Pharmacy Practice" conducted on 4th and 5th January 2018 as a Resource Person/Evaluator/D
Poster presenter/Member of Organizing Committee. His/Her participation in this program is highly appre

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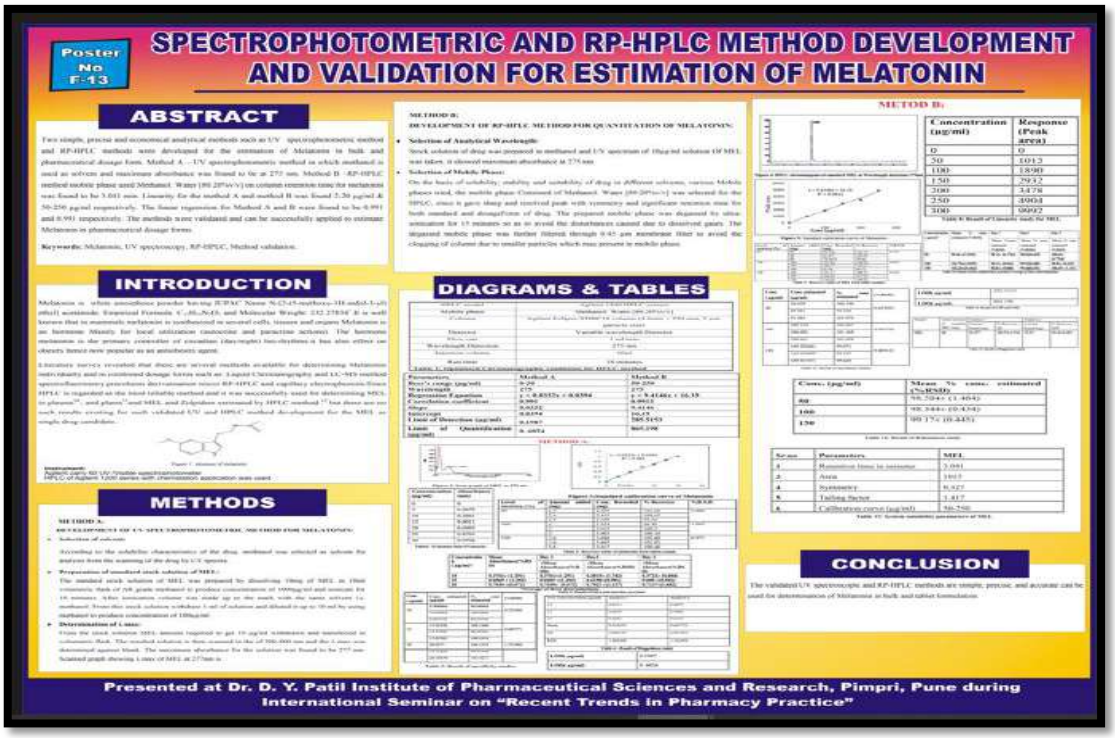
Ashokrao Mane College of Pharmacy



Poster No F-13

SPECTROPHOTOMETRIC AND RP-HPLC METHOD DEVELOPMENT AND VALIDATION FOR ESTIMATION OF MELATONIN

ABSTRACT

INTRODUCTION

METHODS

DIAGRAMS & TABLES

CONCLUSION

Presented at Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune during International Seminar on "Recent Trends in Pharmacy Practice"

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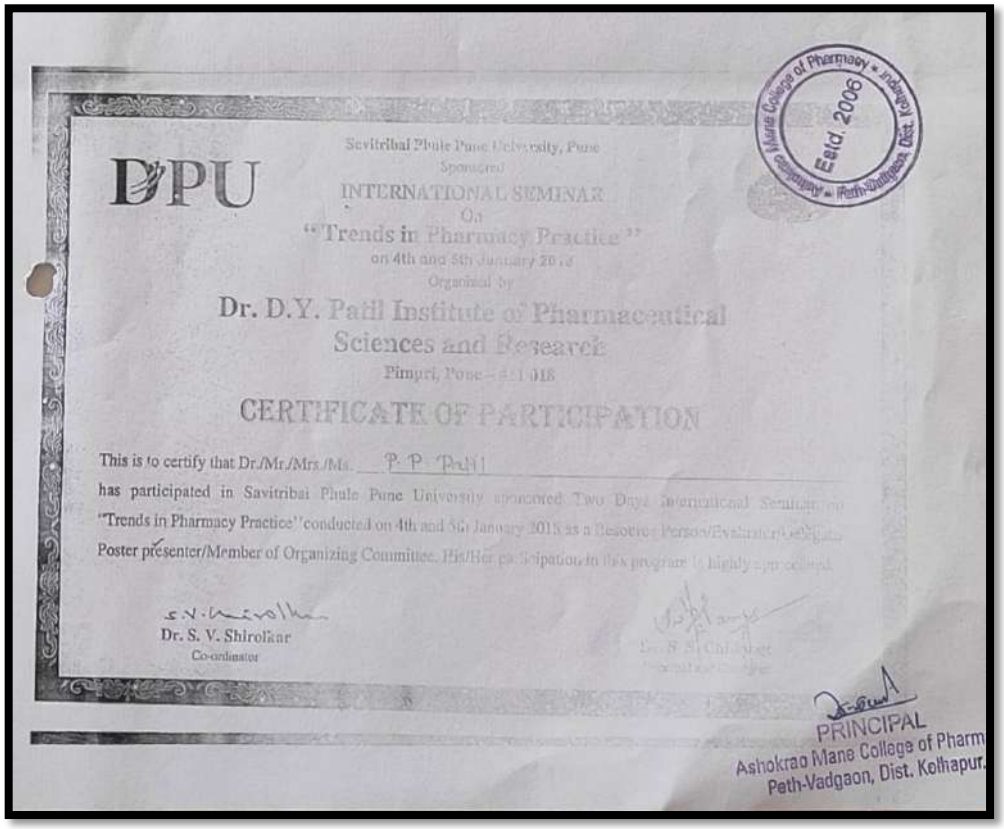


Savitribai Phule Pune University, Pune
Sponsored
INTERNATIONAL SEMINAR
On
"Trends in Pharmacy Practice"
on 4th and 5th January 2018
Organized by
Dr. D.Y. Patil Institute of Pharmaceutical Sciences and Research
Pimpri, Pune - 411 018

DPU

CERTIFICATE OF PARTICIPATION

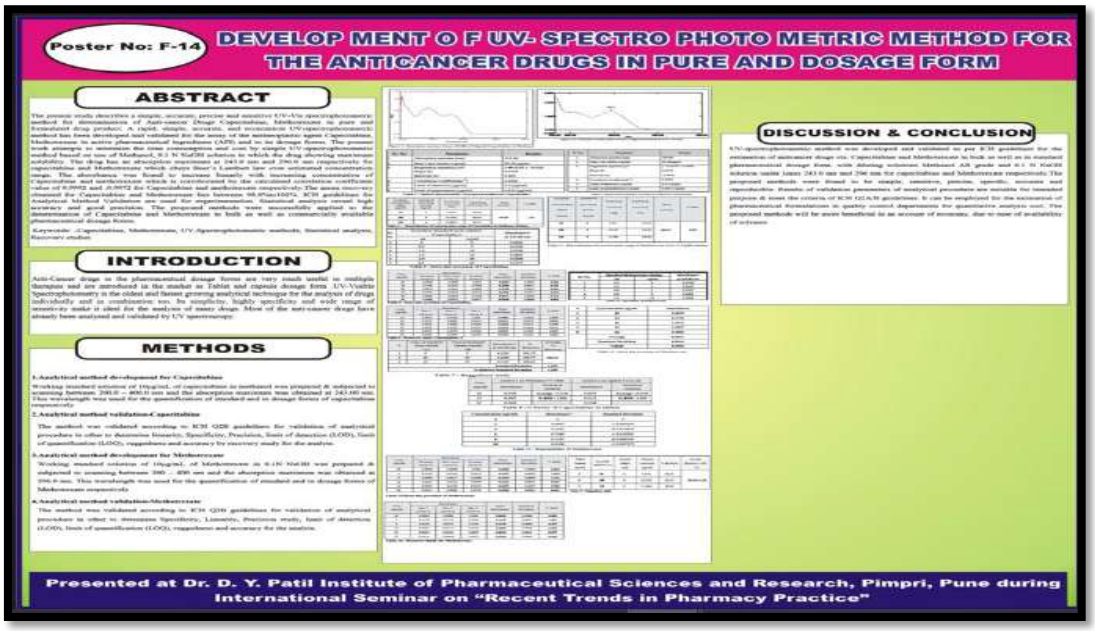
This is to certify that Dr./Mr./Mrs./Ms. P. P. Patil
has participated in Savitribai Phule Pune University sponsored Two Days International Seminar on "Trends in Pharmacy Practice" conducted on 4th and 5th January 2018 as a Resource Person/Evaluator/Delegate/ Poster presenter/Member of Organizing Committee. His/Her participation in the program is highly appreciated.

Dr. S. V. Shirolkar
Co-ordinator

Dr. S. S. Chitlange
Secretary

PRINCIPAL
Ashokrao Mane College of Pharm
Peth-Vadgaon, Dist. Kolhapur.

Ashokrao Mane College of Pharmacy Peth-Vadgaon Dist. Kolhapur Estd. 2006



Poster No: F-14

DEVELOP MENT O F UV- SPECTRO PHOTO METRIC METHOD FOR THE ANTICANCER DRUGS IN PURE AND DOSAGE FORM

ABSTRACT

INTRODUCTION

METHODS

DISCUSSION & CONCLUSION

Presented at Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune during International Seminar on "Recent Trends in Pharmacy Practice"

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GONDWANA UNIVERSITY, GADCHIROLI

AVISHKAR 2018

13th Maharashtra State Inter-University Research Convention

January 15 to 18, 2019

Certificate

This is to certify that

Ms.Shubhangi Vilas Sutar

has participated and presented the reasearch work in the theme area

Agriculture and Animal Husbandary

under the category of

Post-PG Student(PPG)

representing the

Shivaji University,Kolhapur

in the Inter-University Research Convention

Avishkar-2018 organised by

Gondwana University, Gadchiroli during January 15 to 18, 2019.

Dr. Ishwar S. Mohurley
Registrar
Gondwana University, Gadchiroli

Seal

Dr. Chandrashekhar V. Bhusari
Pro-Vice-Chancellor
Gondwana University, Gadchiroli

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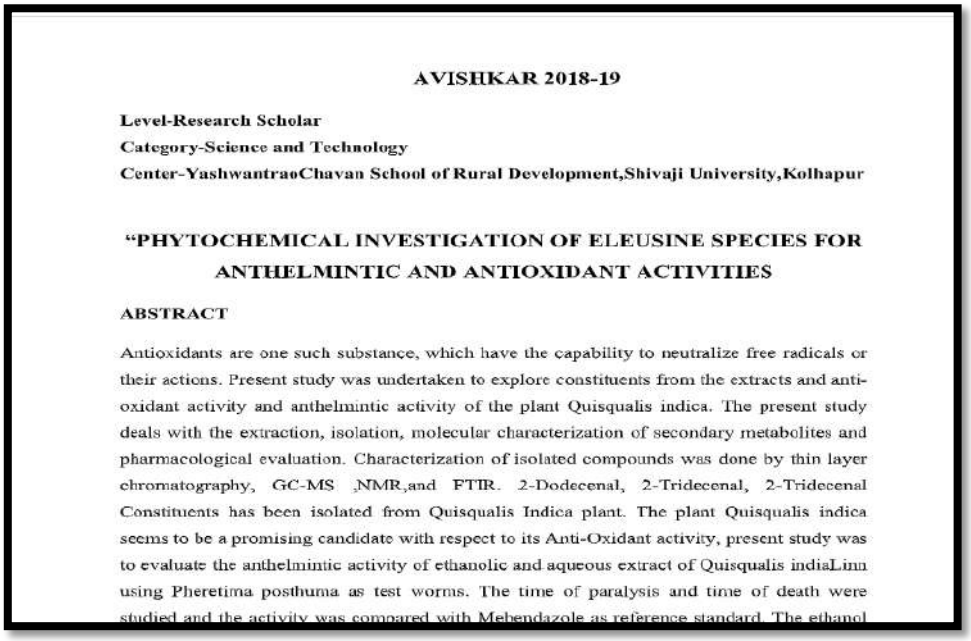

AVISHKAR 2018-19

Level-Research Scholar
Category-Science and Technology
Center-YashwantraoChavan School of Rural Development,Shivaji University,Kolhapur

"PHYTOCHEMICAL INVESTIGATION OF ELEUSINE SPECIES FOR ANTHELMINTIC AND ANTIOXIDANT ACTIVITIES

ABSTRACT

Antioxidants are one such substance, which have the capability to neutralize free radicals or their actions. Present study was undertaken to explore constituents from the extracts and anti-oxidant activity and anthelmintic activity of the plant Quisqualis indica. The present study deals with the extraction, isolation, molecular characterization of secondary metabolites and pharmacological evaluation. Characterization of isolated compounds was done by thin layer chromatography, GC-MS ,NMR,and FTIR. 2-Dodecenal, 2-Tridecenal, 2-Tridecenal Constituents has been isolated from Quisqualis Indica plant. The plant Quisqualis indica seems to be a promising candidate with respect to its Anti-Oxidant activity, present study was to evaluate the anthelmintic activity of ethanolic and aqueous extract of Quisqualis indiaLinn using Pheretima posthuma as test worms. The time of paralysis and time of death were studied and the activity was compared with Mebendazole as reference standard. The ethanol

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SHIVAJI UNIVERSITY, KOLHAPUR

CERTIFICATE OF PARTICIPATION

'AVISHKAR 2017-2018'

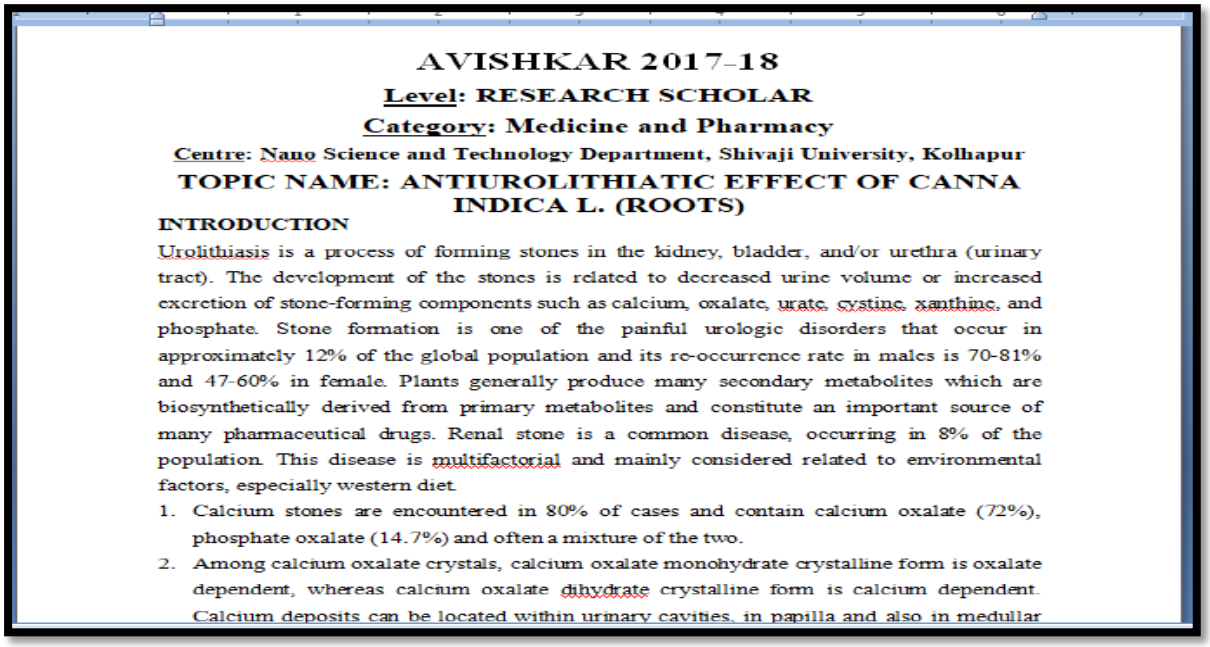
This is to certify that, Shri/Smt ....Bondgar.....Sandip....Anaram..... of ...Ashokrao...Mane....college...of....Pharmacy..... has participated in the Avishkar 2017-18, Research Project Competition at University level held at School of Nanoscience and Technology, Shivaji University, Kolhapur (M. S.) India, in the .....Agriculture....and....Animal....Husbandary..... category during December 2017- January 2018.

Date: 29th Dec. 2017
Place: Kolhapur

Co-ordinator

Pro-Vice-Chancellor

PRINCIPAL
Ashokrao Mane College of Pharmacy
Peth Vadgaon, Dist. Kolhapur



AVISHKAR 2017-18

Level: RESEARCH SCHOLAR

Category: Medicine and Pharmacy

Centre: Nano Science and Technology Department, Shivaji University, Kolhapur

TOPIC NAME: ANTIUROLITHIATIC EFFECT OF CANNA INDICA L. (ROOTS)

INTRODUCTION

Urolithiasis is a process of forming stones in the kidney, bladder, and/or urethra (urinary tract). The development of the stones is related to decreased urine volume or increased excretion of stone-forming components such as calcium, oxalate, urate, cystine, xanthine, and phosphate. Stone formation is one of the painful urologic disorders that occur in approximately 12% of the global population and its re-occurrence rate in males is 70-81% and 47-60% in female. Plants generally produce many secondary metabolites which are biosynthetically derived from primary metabolites and constitute an important source of many pharmaceutical drugs. Renal stone is a common disease, occurring in 8% of the population. This disease is multifactorial and mainly considered related to environmental factors, especially western diet.

1. Calcium stones are encountered in 80% of cases and contain calcium oxalate (72%), phosphate oxalate (14.7%) and often a mixture of the two.
2. Among calcium oxalate crystals, calcium oxalate monohydrate crystalline form is oxalate dependent, whereas calcium oxalate dihydrate crystalline form is calcium dependent. Calcium deposits can be located within urinary cavities, in papilla and also in medullar

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Summary of books and chapters in edited volumes/books published with Web-link of books

Sr. No.	Name of the teacher	Title of the book/chapters published	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher with link
1	Mrs. Poonam Nilesh Chougule	Textbook of Pharmacognosy as per ER2020 PCI Syllabus.	2022	9789392159664	Pritam Publications https://www.pritampublications.com/view-products/89/Pharmacy/D-Pharm-1st-Year-Textbooks/A-Textbook-of-Pharmacognosy
2	Mr.Atul Kadam Ms.Prachi Khamkar	Introduction and Need for Additive Manufacturing in the Medical Industry. Additive Manufacturing with Medical Applications	2022	ISBN: 978-1-032-11077-6 (hbk) ISBN: 978-1-032-29325-7 (pbk) ISBN: 978-1-003-30106-6 (ebk)	CRC Press is an imprint of Taylor & Francis Group, LLC https://www.taylorfrancis.com/chapters/edit/10.1201/9781003301066-1/introduction-need-additive-manufacturing-medical-industry-prachi-khamkar-atul-kadam
3	Ms. Naziya Rafiq Patel	Fast dissolving tablets containing solid dispersion of NSAID.	2022	9786204749303	LAP Lambert Publishers https://www.lap-publishing.com/catalog/details/store/gb/book/978-620-4-74930-3/fast-dissolving-tablets-containing-solid-dispersion-of-nsaid?search=Fast%20dissolving%20tablets%20containing%20solid%20dispersion%20of%20NSAID.&_gl=1*1aku224*_ga*MTYxNDg2ODk5OS4xNjg1MzQ5NzQy*_ga_BVHZPJT3FG*MTY4NTM0OTc0Mi4xLjEuMTY4NTM0OTc4OC4wLjAuMA..
4	Mrs. Poonam Nilesh Chougule	Synthesis of N-methyl triazolone derivatives as Anti-tubercular agent.	2022	9786204979502	LAP Lambert Publishers https://www.lap-publishing.com/catalogue/details/gb/978-620-4-97950-2/synthesis-of-n-methyl-triazolone-derivatives-as-antitubercular-agent?search=Synthesis%20of%20N-methyl%20triazolone%20derivatives%20as%20Anti-tubercular%20agent.

5	Mrs. Poonam Nilesh Chougule Ms. Aishwarya Prakash Bhosale	Book Chapter entitled, "Advanced trends in biotechnology" in IIP book series(IIP V2 2022 BS 17 05 Futuristic trends in Biotechnology), VOL 2 ,2022.	2022	ISBN:978-93-95632-88-1	IIP book series https://iipproceedings.org/editor-reviewer.php
6	Dr. Mrs. P. S. Sankpal Dr.Mrs.S.B.Sutar	Brine Shrimp Lethality Bioassay of Gallic Acid and Quercetin Loaded Solid Lipid Nanoparticles	2022	ISBN: 9788195555703	Scieng Publications https://sciengpublications.com/
7	Dr. Mrs. P. S. Sankpal	Polyherbal nanoformulations for the treatment of colorectal cancer	2022	ISBN: 9786204982038	LAP Lambert publishing house Germany https://www.lap-publishing.com/catalogue/details/gb/978-620-4-98203-8/polyherbal-nanoformulations-for-the-treatment-of-colorectal-cancer?search=Polyherbal%20nanoformulations%20for%20the%20treatment%20of%20colorectal%20cancer
8	Dr. Mrs. P. S. Sankpal	Design, Development and Characterization of herbal nanoparticles	2022	ISBN: 97862049983448	LAP Lambert publishing house Germany https://www.lap-publishing.com/catalogue/details/gb/978-620-4-98344-8/design,-development-and-characterization-of-herbal-nanoparticles?search=Design,%20Development%20and%20Characterization%20of%20herbal%20nanoparticles
9	Neha D. Desai	Self Micro-emulsifing mouth dissolving film	2022	9786204752211	LAP Lambert Publishers https://www.lap-publishing.com/catalogue/details/gb/978-620-4-75221-1/self-micro-emulsifying-mouth-dissolving-film?search=Self%20Micro-emulsifing%20mouth%20dissolving%20film
10	Ms.Neha Desai	Bioadhesive pulsatile drug delivery system of an antilipidemic drug	2022	978-620-474975-4	LAP Lambert Publishers https://www.lap-publishing.com/catalogue/details/gb/978-620-4-74975-4/bioadhesive-pulsatile-drug-delivery-system-of-an-antilipidemic-drug?search=Bioadhesive%20pulsatile%20drug%20delivery%20system%20of%20an%20antilipidemic%20drug

11	Mrs. Poonam Nilesh Chougule	Evaluation of endophytic fraction of Boerhhavia diffusa L. root. For Hepato-protective activity in rats.	2021	9786204205403	LAP Lambert Publishers https://www.lap-publishing.com/catalogue/details/gb/978-620-4-20540-3/evaluation-of-endophytic-fractions-of-boerhaavia-diffusa-l-roots?search=Evaluation%20of%20endophytic%20fraction%20of%20Boerhhavia%20diffusa%20L.%20root.%20For%20Hepato-protective%20activity%20in%20rats.
12	Dr.S.B.Sutar	Application of Lepidium sativum as an Excipient in Pharmaceuticals	2021	9781003337058	Advanced Polymeric Systems Applications in Nanostructured Materials, Composites and Biomedical Fields River Publishers Series in Polymer Science https://www.taylorfrancis.com/chapters/edit/10.1201/9781003337058-10/application-lepidium-sativum-excipient-pharmaceuticals-sutar-shelake-patil-patil
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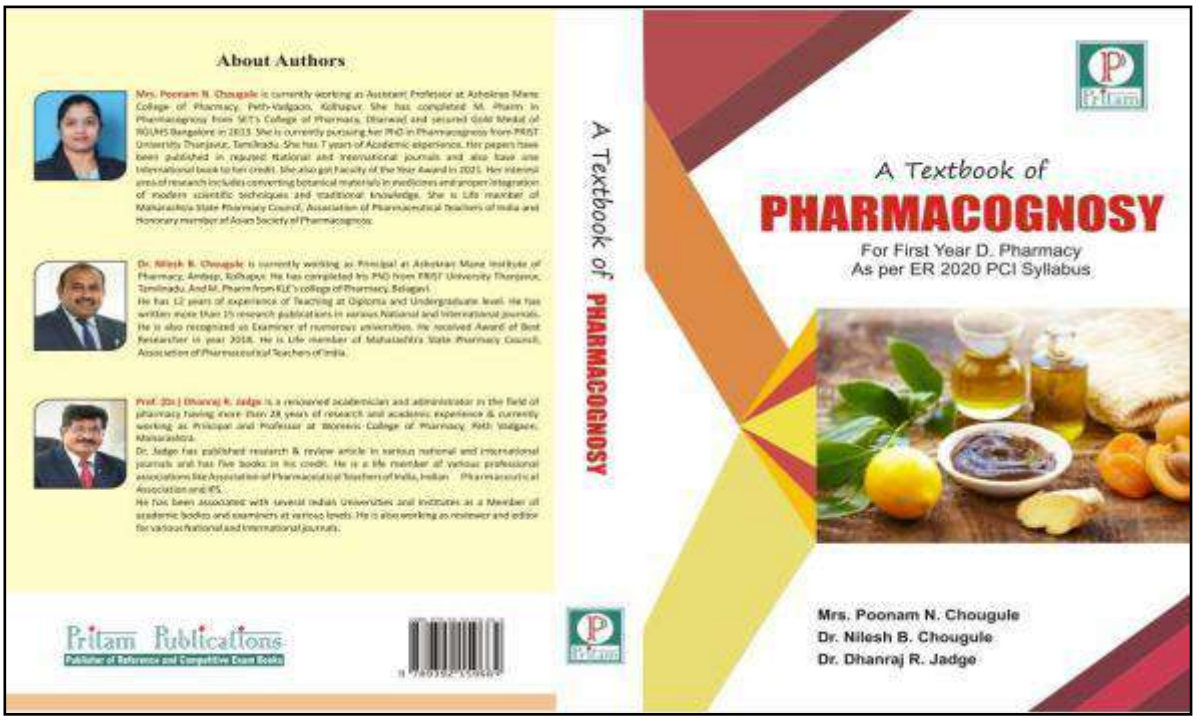

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A Textbook of PHARMACOGNOSY

A Textbook of
PHARMACOGNOSY
For First Year D. Pharmacy
As per ER 2020 PCI Syllabus

Mrs. Poonam N. Chougule
Dr. Nilesh B. Chougule
Dr. Dhanraj R. Jadge

1 Introduction and Need for Additive Manufacturing in the Medical Industry

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Next Big Innovation Labs, Bengaluru, India
Ashokrao Mane College of Pharmacy, Peth Vadgaon, India

Atul Kadam
Shree Santkrupa College of Pharmacy, Karad, India
Ashokrao Mane College of Pharmacy, Peth Vadgaon, India

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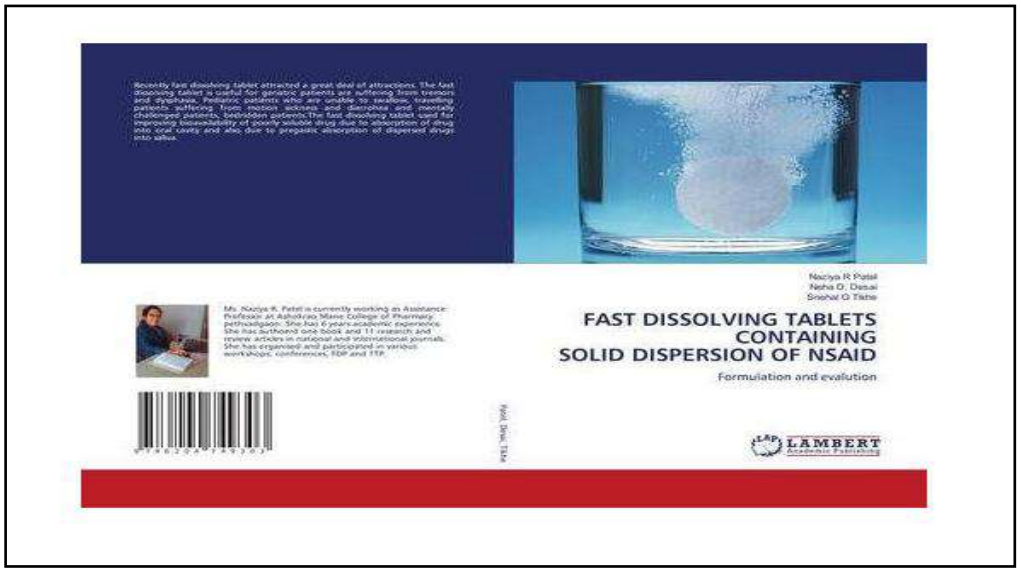

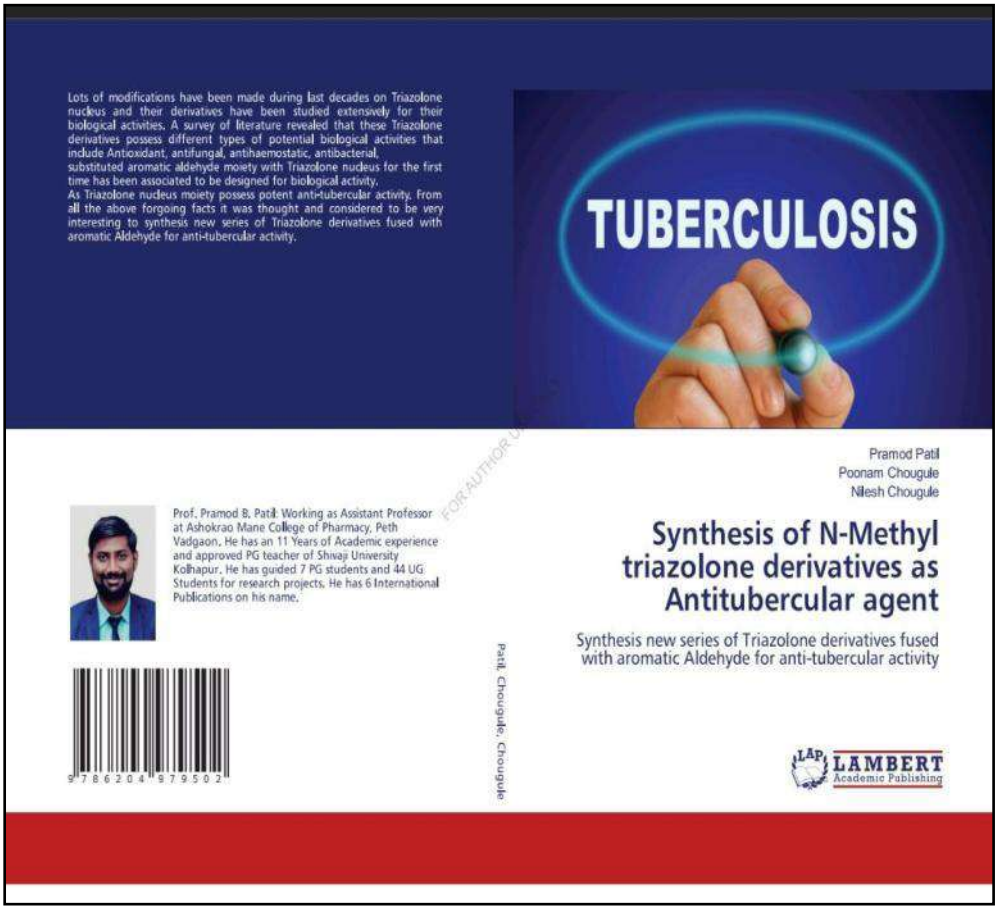

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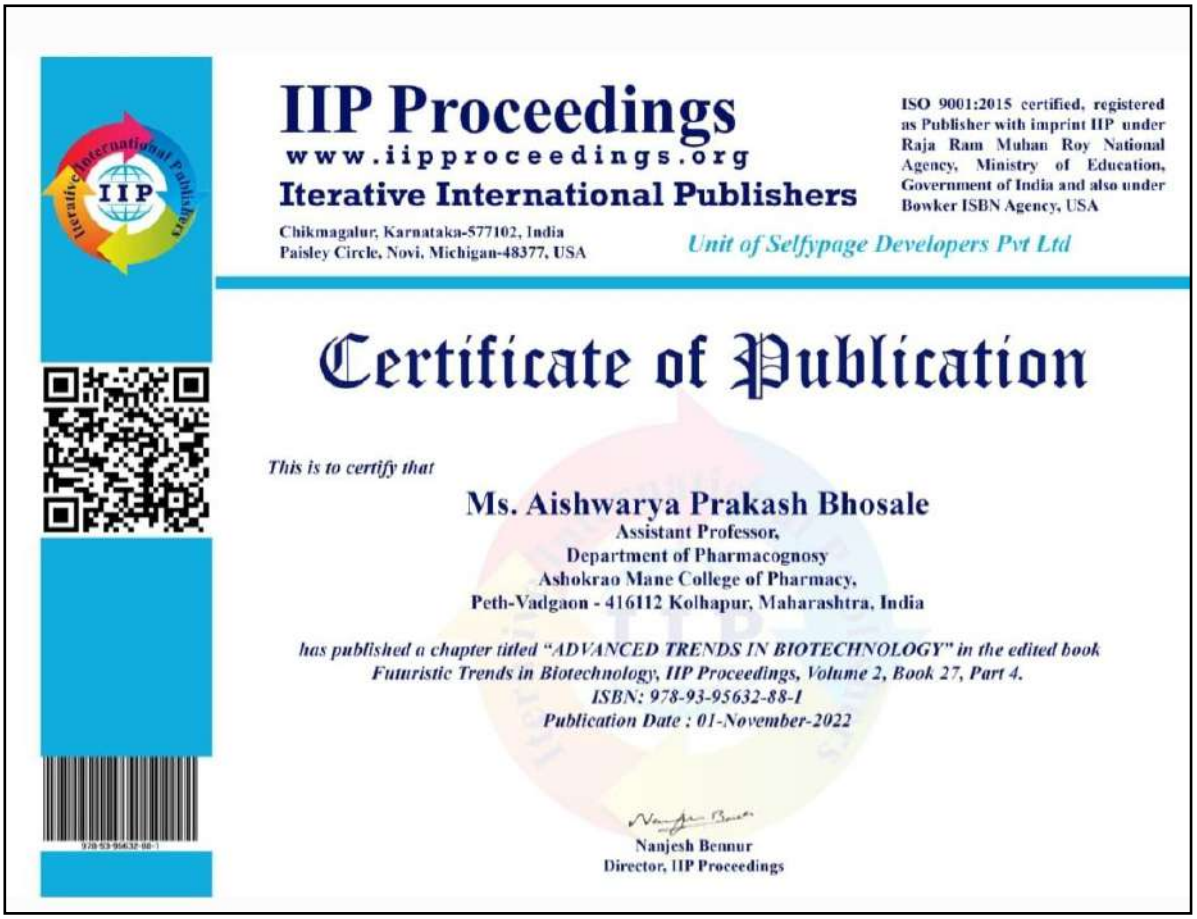

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has published a chapter titled "ADVANCED TRENDS IN BIOTECHNOLOGY" in the edited book Futuristic Trends in Biotechnology, IIP Proceedings, Volume 2, Book 27, Part 4.
ISBN: 978-93-95632-88-1
Publication Date : 01-November-2022

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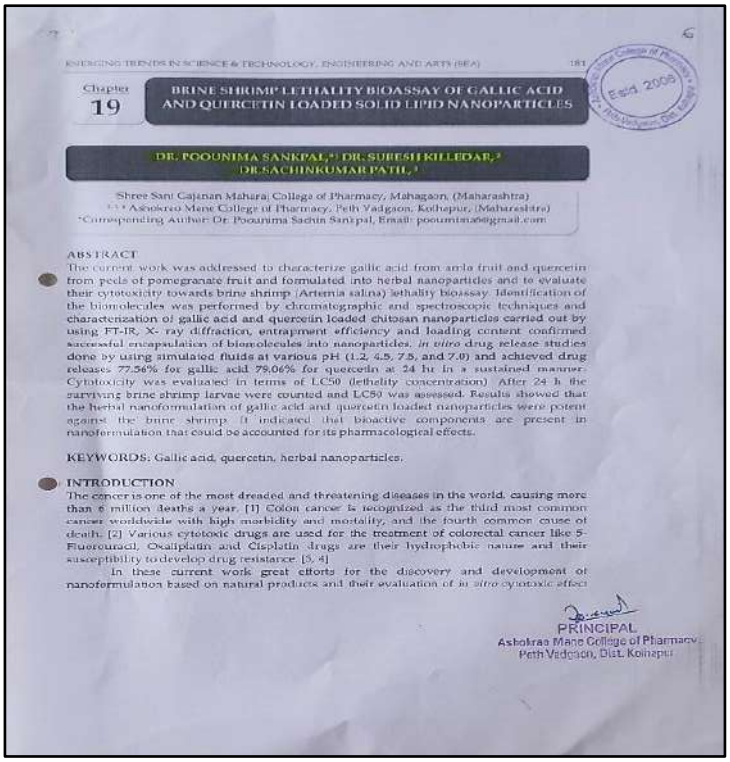
Director, IIP Proceedings



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Chapter 19

BRINE SHRIMP LETHALITY BIOASSAY OF GALLIC ACID AND QUERCETIN LOADED SOLID LIPID NANOPARTICLES

DR. POONIMA SANKPAL,*[1] DR. SURESH KILLEDAR,[2] DR. SACHINKUMAR PATIL,[3]

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ABSTRACT

The current work was addressed to characterize gallic acid from amla fruit and quercetin from peels of pomegranate fruit and formulated into herbal nanoparticles and to evaluate their cytotoxicity towards brine shrimp (Artemia salina) lethality bioassay. Identification of the biomolecules was performed by chromatographic and spectroscopic techniques and characterization of gallic acid and quercetin loaded chitosan nanoparticles carried out by using FT-IR, X- ray diffraction, entrapment efficiency and loading content confirmed successful encapsulation of biomolecules into nanoparticles. *in vitro* drug release studies done by using simulated fluids at various pH (1.2, 4.5, 7.5, and 7.0) and achieved drug releases 77.56% for gallic acid 79.06% for quercetin at 24 hr in a sustained manner. Cytotoxicity was evaluated in terms of LC50 (lethality concentration). After 24 h the surviving brine shrimp larvae were counted and LC50 was assessed. Results showed that the herbal nanoformulation of gallic acid and quercetin loaded nanoparticles were potent against the brine shrimp. It indicated that bioactive components are present in nanoformulation that could be accounted for its pharmacological effects.

KEYWORDS: Gallic acid, quercetin, herbal nanoparticles.

INTRODUCTION

The cancer is one of the most dreaded and threatening diseases in the world, causing more than 6 million deaths a year. [1] Colon cancer is recognized as the third most common cancer worldwide with high morbidity and mortality, and the fourth common cause of death. [2] Various cytotoxic drugs are used for the treatment of colorectal cancer like 5-Fluorouracil, Oxaliplatin and Cisplatin drugs are their hydrophobic nature and their susceptibility to develop drug resistance. [3, 4]

In these current work great efforts for the discovery and development of nanoformulation based on natural products and their evaluation of *in vitro* cytotoxic effect

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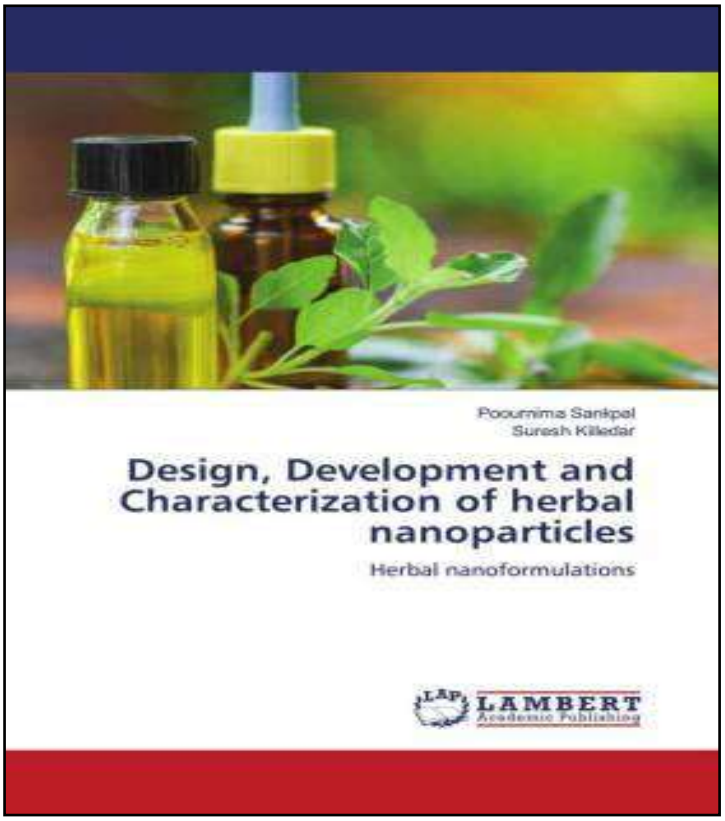

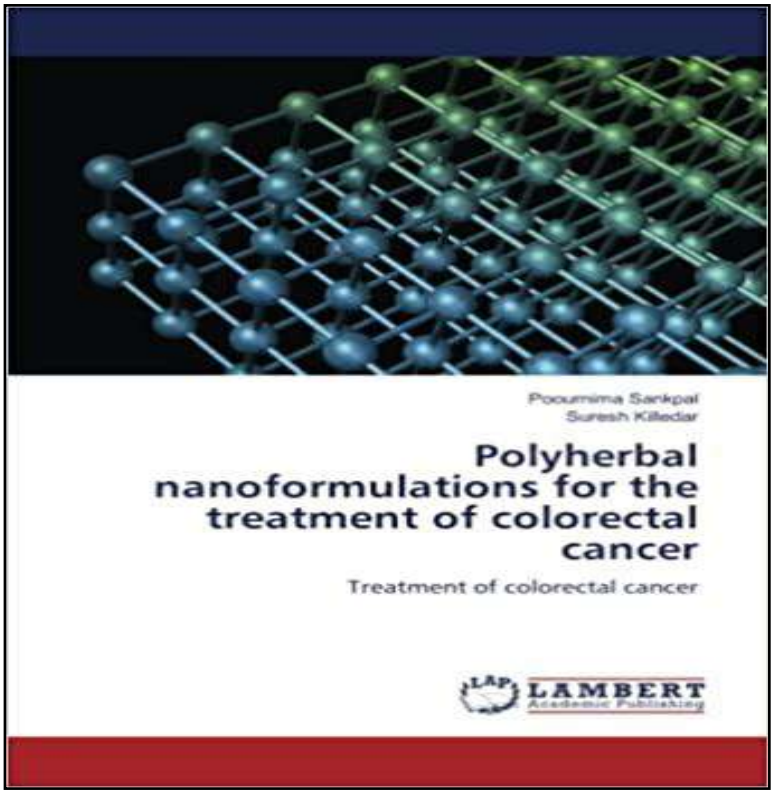

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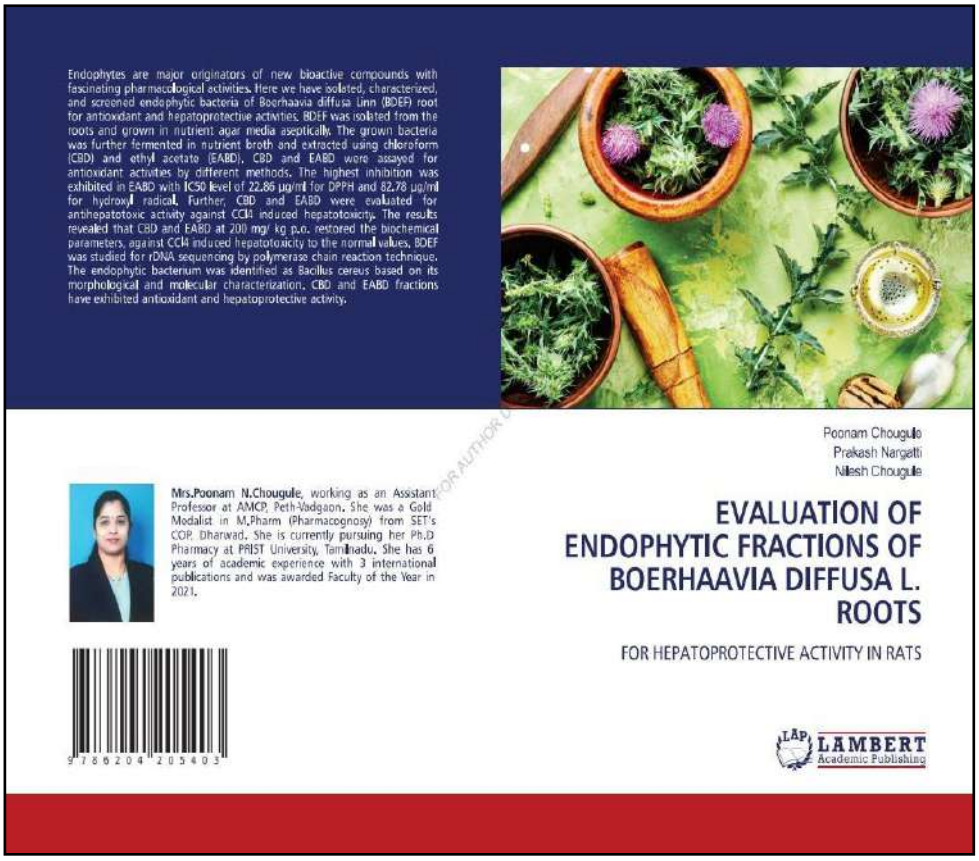

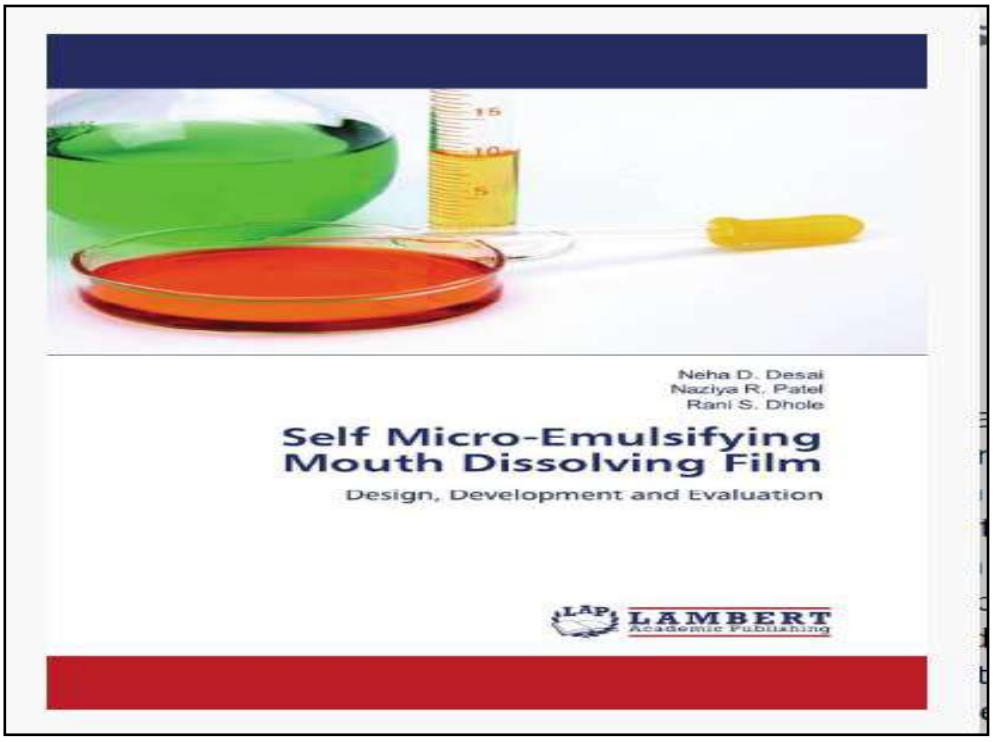

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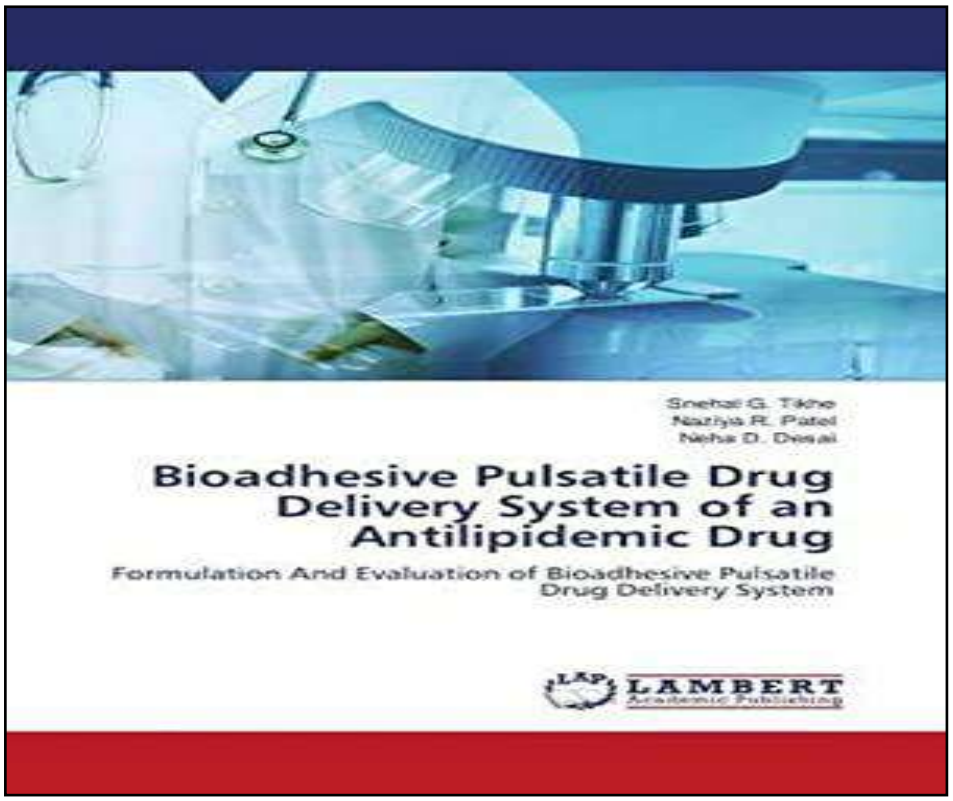

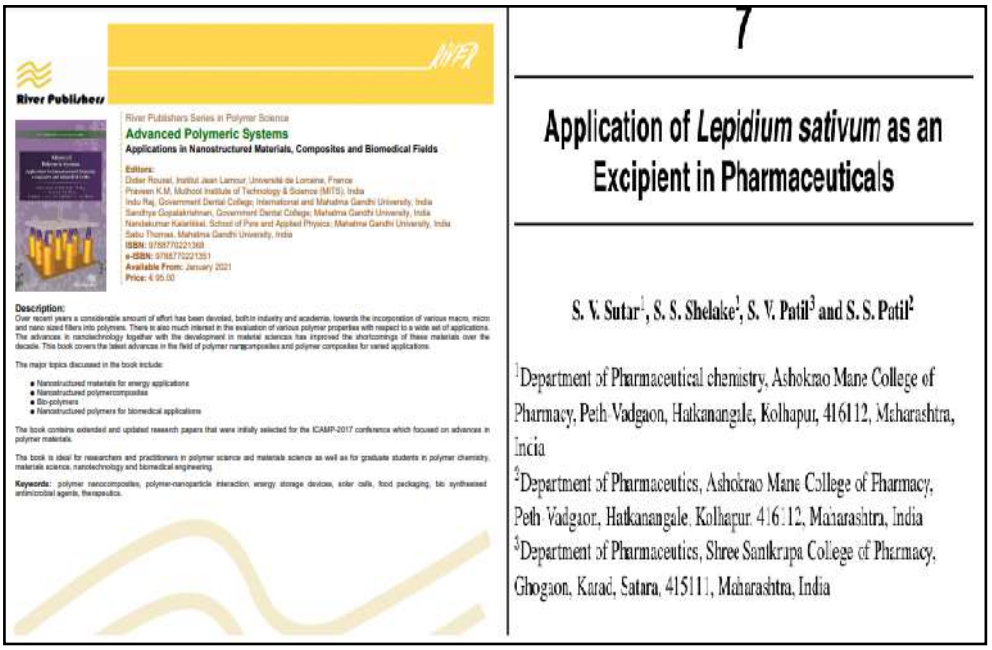

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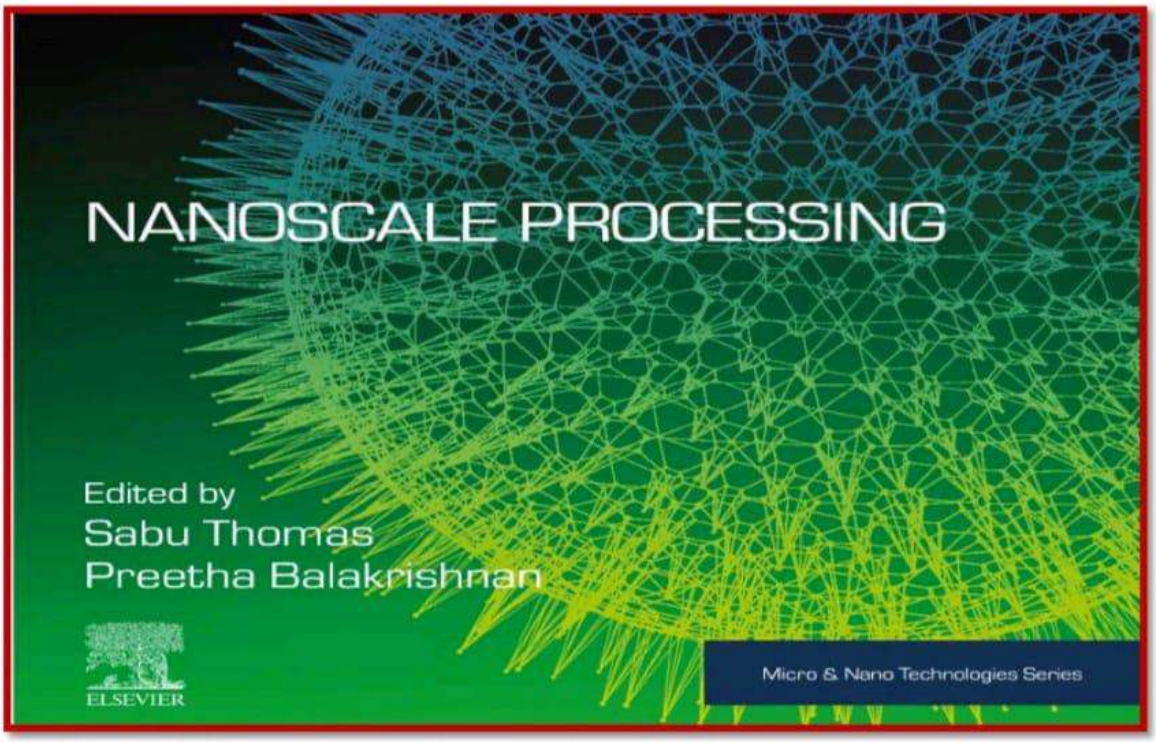

CHAPTER

Nanostructures for antimicrobial therapy 13

Sameer J. Nadaf[a], Sandip A. Bandgar[b], Indrayani D. Raut[c], Sachinkumar V. Patil[d], Suresh G. Killedar[a], and Shitalkumar S. Patil[b]

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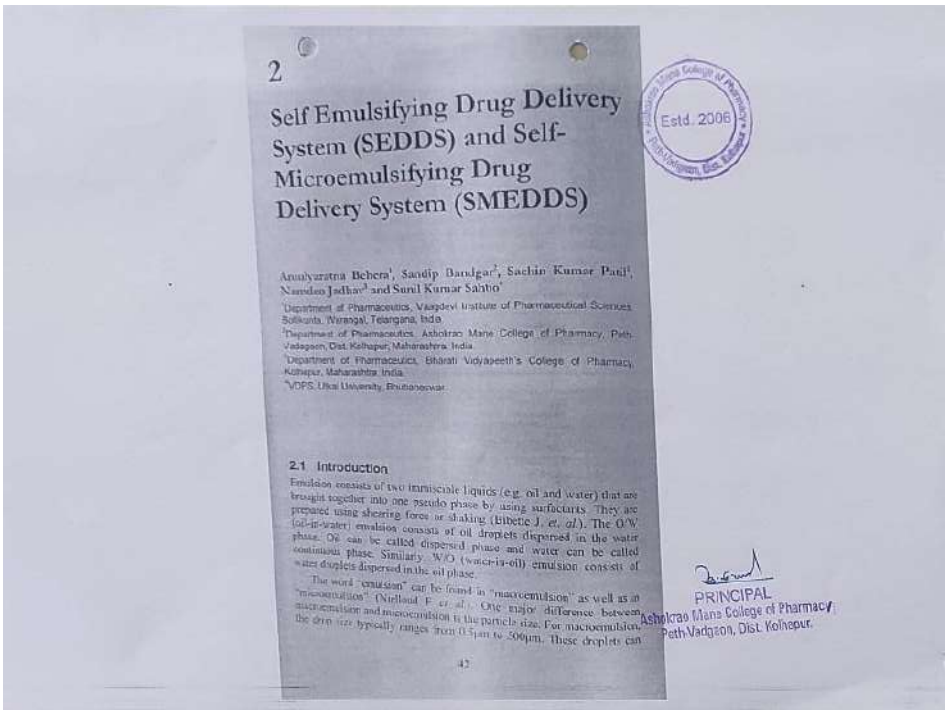

2

Self Emulsifying Drug Delivery System (SEDDS) and Self-Microemulsifying Drug Delivery System (SMEDDS)

Annapurna Behera[1], Sandip Bandgar[2], Sachin Kumar Patil[3], Nareden Jadhav[3] and Sunil Kumar Sahu[4]

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[4]VDPS, Utkal University, Bhubaneswar

2.1 Introduction

Emulsion consists of two immiscible liquids (e.g. oil and water) that are brought together into one system phase by using surfactants. They are prepared using shearing forces or shaking (Bibette J. *et. al.*). The O/W (oil-in-water) emulsion consists of oil droplets dispersed in the water phase. Oil can be called dispersed phase and water can be called continuous phase. Similarly, W/O (water-in-oil) emulsion consists of water droplets dispersed in the oil phase.

The word "emulsion" can be found in "macroemulsion" as well as in "microemulsion" (Nielloud F. *et. al.*). One major difference between macroemulsion and microemulsion is the particle size. For microemulsion, the drop size typically ranges from 0.5μm to 500μm. These droplets can

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11.3. Recombinant polymers for drug delivery

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11 - Polymeric materials for targeted delivery of bioactive agents and drugs

Sachinkumar V. Patil *, Sardar S. Shelake [T], Shitalkumar S. Patil [T]

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Abstract

In recent years, the application of polymeric materials for a targeted drug-delivery system has been greatly advanced. Since polymeric materials played a crucial role

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