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3

Research Innovations & Extensions

3.3.2

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FACULTY PUBLICATION Books/Chapter DATA

Sl. No.	Name of the teacher	Title of the book/chapters published	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Link to Source
1	Dr Nitin B Ghiware	Text Book: Pharmacology-I	2019	978-93-887068-9-6	Nanded Pharmacy College	Nirali Prakashan	https://pragationline.com/pharmacology-1-jangme-wadulkar-ladde-ghiware/
2	Dr Sagar N Firke	Chapter: A Review on Floating Microsphere as Gastro Retentive Drug Delivery System	2021	978-81-961090-5-9	Nanded Pharmacy College	Current Overview on Pharmaceutical Sciences	https://www.bookpi.org/bookstore/product/current-overview-on-pharmaceutical-science-vol-2
3	Dr Ashish B Roge	Chapter: Study about Ethosomes: A Novel Approach in Transdermal Drug Delivery System	2021	978-81-961090-5-9	Nanded Pharmacy College	Current Overview on Pharmaceutical Sciences	https://stm.bookpi.org/COPS-V2/article/view/9173
4	Ms Shagufta Farooqui	Text Book: Research Methodology: Descriptive Questions & Answer Set	2021	978-93-912195-1-2	Nanded Pharmacy College	Astitva Prakashan	https://astitvaprakashan.com/product-tag/shagufta-farooqui/
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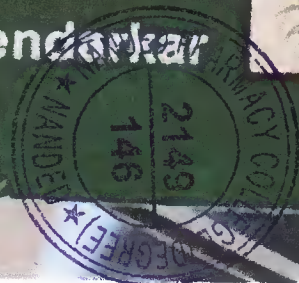

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PHARMACOGNOSY**



Dr. G.R. Shendekar



Prof. Dr. N. B. Ghiware
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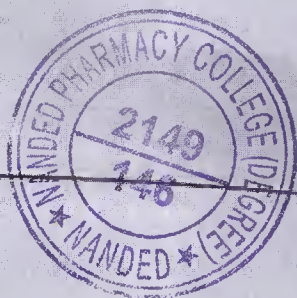
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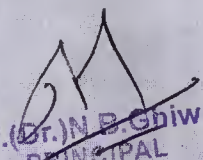
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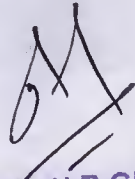
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08	Cultivation, Collection and Processing of Crude Drugs	135
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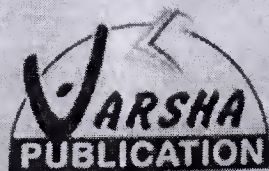
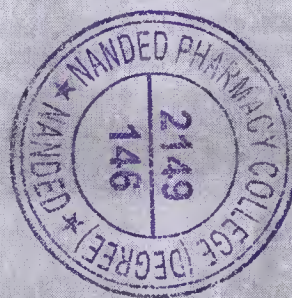

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Dr. G. R. Shendarkar

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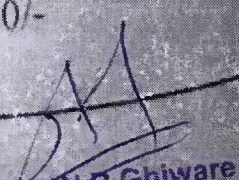
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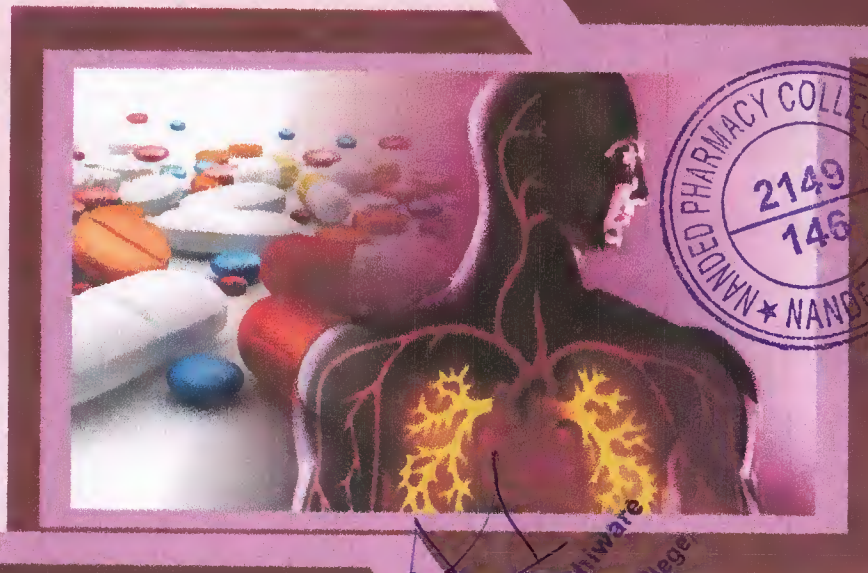
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Pharmacology - I

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Study about Ethosomes: A Novel Approach in Transdermal Drug Delivery System

Ashish B. Roge ^{a+++}, Sagar N. Firke ^{b++}, V. N. Gunjkar ^{b++}
and Nitin B. Ghiware ^{c#}

DOI: 10.9734/bpi/cops/v2/17078D

ABSTRACT

Ethosomal systems are newer lipid nano vesicular carriers that have been around for 20 years, but over that period they have grown significantly as a means of transdermal drug delivery. Phospholipids, ethanol at relatively high concentrations (up to 50%) and water are their main components also referred as "soft vesicles" due fluid bilayers. These nanocarriers carry medicinal substances with various physicochemical qualities throughout the skin and deep skin layers. Since they were introduced, Ethosomes have undergone substantial investigation; new substances have been added to their original composition, creating new varieties of ethosomal systems. The composition and structure of the vesicles augment their ability to entrap molecules with various physicochemical properties and deliver them to the deep strata of skin. These innovative carriers, which can be added to gels, patches, and lotions, are prepared using several novel methods. Skin bacterial and fungal infections, skin inflammation, acne vulgaris, arthritis, and skin cancer are examples of disorders managed successfully by ethosomal systems. Furthermore, Ethosomes loaded with a number of naturally occurring compounds for cosmetic applications are also reported. The efficient treatments together with a good safety profile and lack of toxicity or irritation paved the way towards the development of new dermal therapies. This review focuses on introduction, mechanism of penetration, method of production, methods of characterisation, and field application.

Keywords: TDDS; CTDDS; NTDDS; stratum comeum; vesicular drug delivery system; ethosomes.

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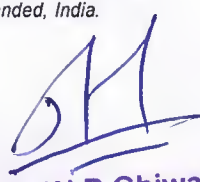
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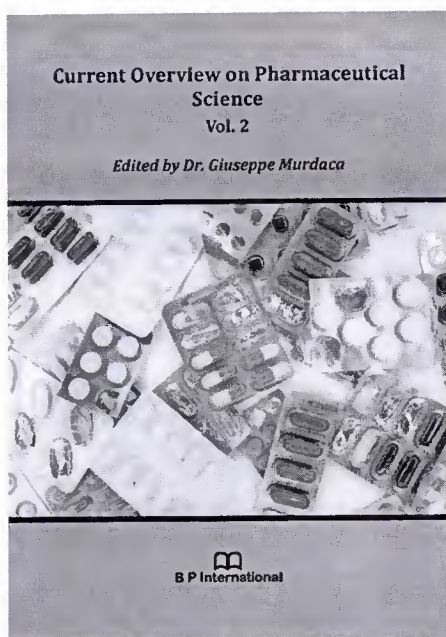



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Abstract

Ethosomal systems are newer lipid nano vesicular carriers that have been around for 20 years, but over that period they have grown significantly as a means of transdermal drug delivery. Phospholipids, ethanol at relatively high concentrations (up to 50%) and water are their main components also referred as "soft vesicles" due fluid bilayers. These nanocarriers carry medicinal substances with various physicochemical qualities throughout the skin and deep skin layers. Since they were introduced, Ethosomes have undergone substantial investigation; new substances have been added to their original composition, creating new varieties of ethosomal systems. The composition and structure of the vesicles augment their ability to entrap molecules with various physicochemical properties and deliver them to the deep strata of skin. These innovative carriers, which can be added to gels, patches, and lotions, are prepared using several novel methods. Skin bacterial and fungal infections, skin inflammation, acne vulgaris, arthritis, and skin cancer are examples of disorders managed successfully by ethosomal systems. Furthermore, Ethosomes loaded with a number of naturally occurring compounds for cosmetic applications are also reported. The efficient treatments together with a good safety profile and lack of toxicity or irritation paved the way towards the development of new dermal therapies. This review focuses on introduction, mechanism of penetration, method of production, methods of characterisation, and field application.

Keywords: TDDS; CTDDS; NTDDS; stratum corneum; vesicular drug delivery system; ethosomes

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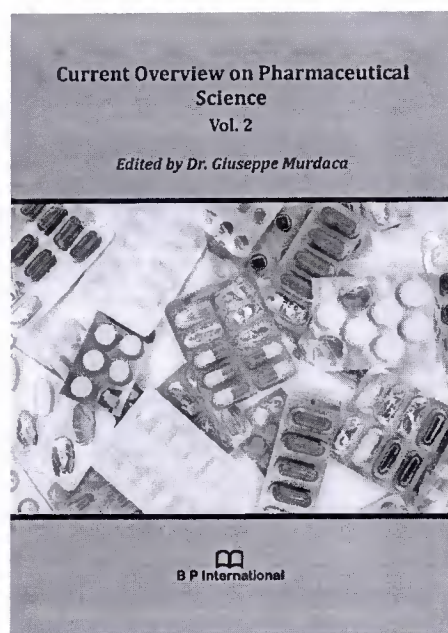



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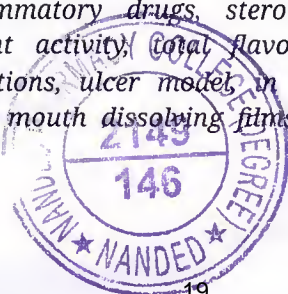
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This book covers key areas of pharmaceutical science. The contributions by the authors include Wajaul mafasil, arthralgia, osteoarthritis, unani medicine, compound drugs, pharmaceutical profitability, industrial profitability, Inflammation, antinflammatory drugs, steroidal drugs, ear oedema, arthritis model, pharmacological actions, antioxidant activity, total flavonoids, total phenolic content, pneumonia, eosinophilia, anemia, helminth infections, ulcer model, in vitro anti-cancer property, drug molecules, medicinal plants, novel therapeutics, mouth dissolving films, hydrophilic polymers, non-volatile vehicle,

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liquisolid tablets, bioavailability, vesicular drug delivery system, ethosomes, phytochemical constituents, hepatoprotective activity, biotransformation, lipid peroxidation. This book contains various materials suitable for students, researchers and academicians in the field of pharmaceutical science.

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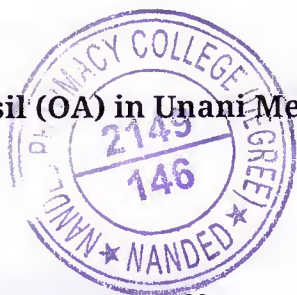
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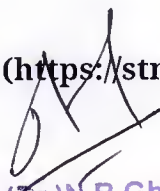
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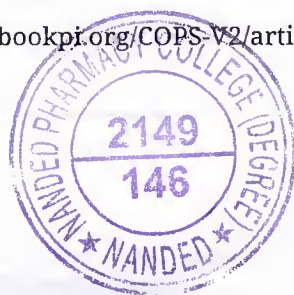
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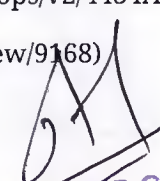
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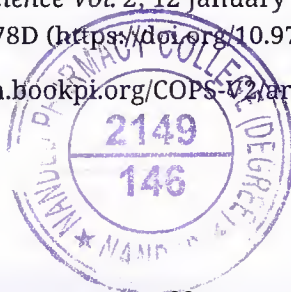
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A Review on Floating Microspheres as Gastro-retentive Drug Delivery System

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and Nitin B. Ghiware^{a‡}

DOI: 10.9734/bpi/cops/v1/17077D

ABSTRACT

Apart from providing improved bioavailability of poorly absorbed drugs and a required release profile, the Gastroretentive drug delivery system has piqued the interest of pharmaceutical formulation scientists. For drugs with an absorption window in the upper small intestine, a controlled drug delivery system with a prolonged residence time in the stomach can be extremely useful. Tablets, capsules, pills, laminated films, granules, and powders are among the gastroretentive dosage forms available. Floating microspheres are one of many approaches to gastroretention, including mucoadhesion, flotation, sedimentation, expansion, modified shape systems, and so on. Floating microspheres have gained popularity due to their uniform distribution in the stomach, which results in more reproducible drug absorption and a lower risk of local irritation. These systems have several advantages over single-unit dosage forms. The current review briefly discusses the physiology of gastric emptying in relation to floating drug delivery systems. The drug is slowly released at the desired rate while the system floats over the gastric contents, resulting in increased gastro-retention time and reduced fluctuations in plasma drug concentration. The goal of this review is to compile the most recent literature on the method of preparation and various parameters influencing the performance and characterization of floating microspheres.

Keywords: Floating microspheres; microballoon; gastric emptying; solvent evaporation; Ethyl cellulose.

1. INTRODUCTION

Among the various routes of drug administration, the oral route has received the most attention, owing to its ease of administration and significant flexibility in

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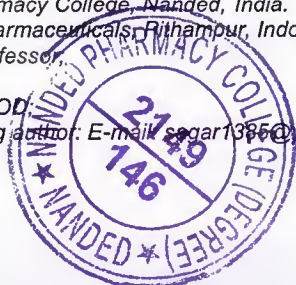
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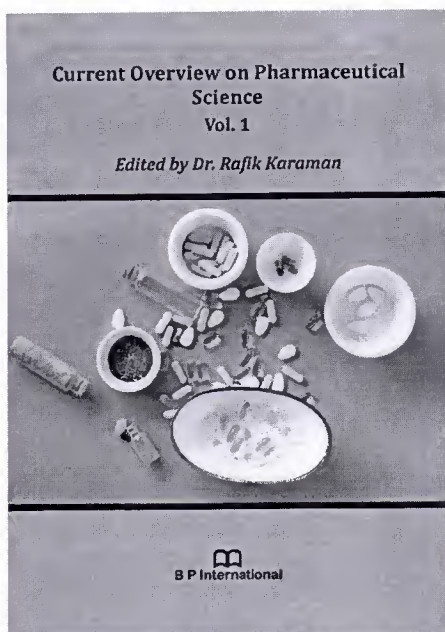



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(<https://stm.bookpi.org/COPS-V1/issue/view/892>) A Review on Floating Microspheres as Gastro-retentive Drug Delivery System

Sagar N. Firke ; Ashish B. Roge ; Pritam R. Siraskar ; Nitin B. Ghiware

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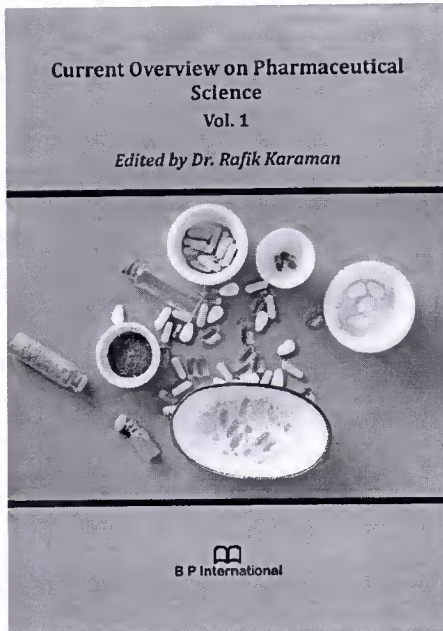
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Keywords: Floating microspheres; microballoon; gastric emptying; solvent evaporation; Ethyl cellulose

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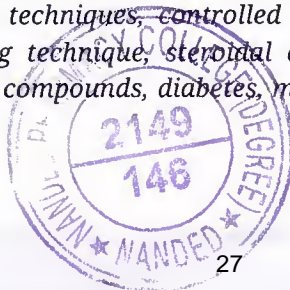
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<https://doi.org/10.9734/bpi/cops/v1/4296E> (<https://doi.org/10.9734/bpi/cops/v1/4296E>)

(<https://stm.bookpi.org/COPS-V1/issue/view/892>)

Tubeimoside-1: An Updated Overview on Its Molecular Mechanisms and Medical Applications (<https://stm.bookpi.org/COPS-V1/article/view/8964>)

Lanan Wassy Soromou, Mamadou Fodé Camara

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<https://doi.org/10.9734/bpi/cops/v1/17195D> (<https://doi.org/10.9734/bpi/cops/v1/17195D>)

Abstract  View Article (<https://stm.bookpi.org/COPS-V1/article/view/8964>)

Lead Identification from the Phytoconstituents of *Cadaba fruticosa* (L.) Druce for the Treatment of PCOS: A Computational Approach (<https://stm.bookpi.org/COPS-V1/article/view/8965>)

M. Amudha, S. Rani, P. Parasuraman

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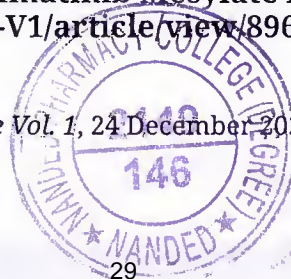
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Jie Lu, Cen Li, Peng Zhang, Velagapudi Ravikanth, Olumayokun A. Olajide, Zhang Wang, Li-Xin Wei

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A Review on Floating Microspheres as Gastro-retentive Drug Delivery System (<https://stm.bookpi.org/COPS-V1/article/view/8969>)

Sagar N. Firke, Ashish B. Roge, Pritam R. Siraskar, Nitin B. Ghiware

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Kausik Bhar, Sumanta Mondal

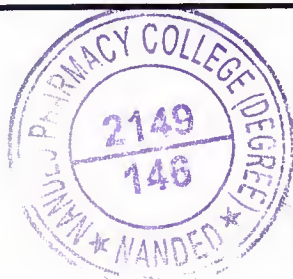
Current Overview on Pharmaceutical Science Vol. 1, 24 December 2022, Page 163-209

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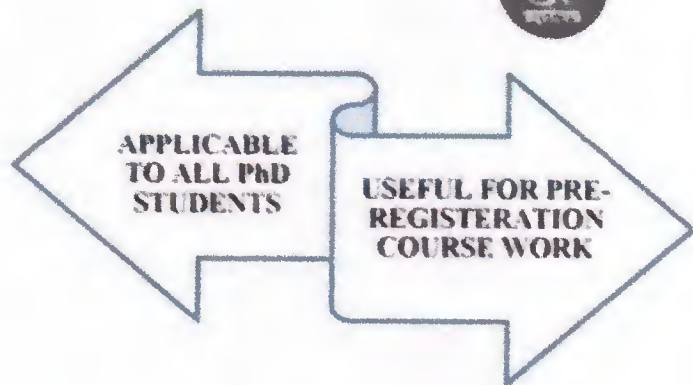
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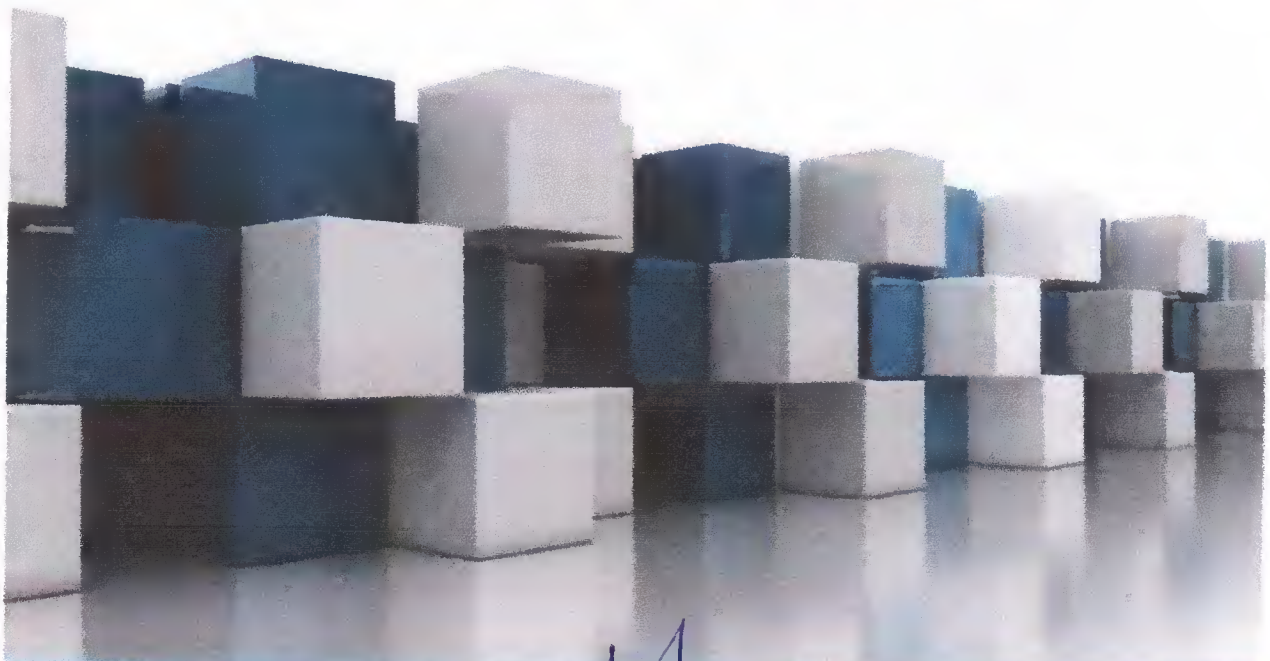


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**AS PER THE UGC
GUIDELINES**



Research Methodology



**SHAGUFTA FAROOQUI
AKSHAY V. INGLE**

OH
**Prof.(Dr.)N.B.Ghiware
PRINCIPAL
Nanded Pharmacy College,
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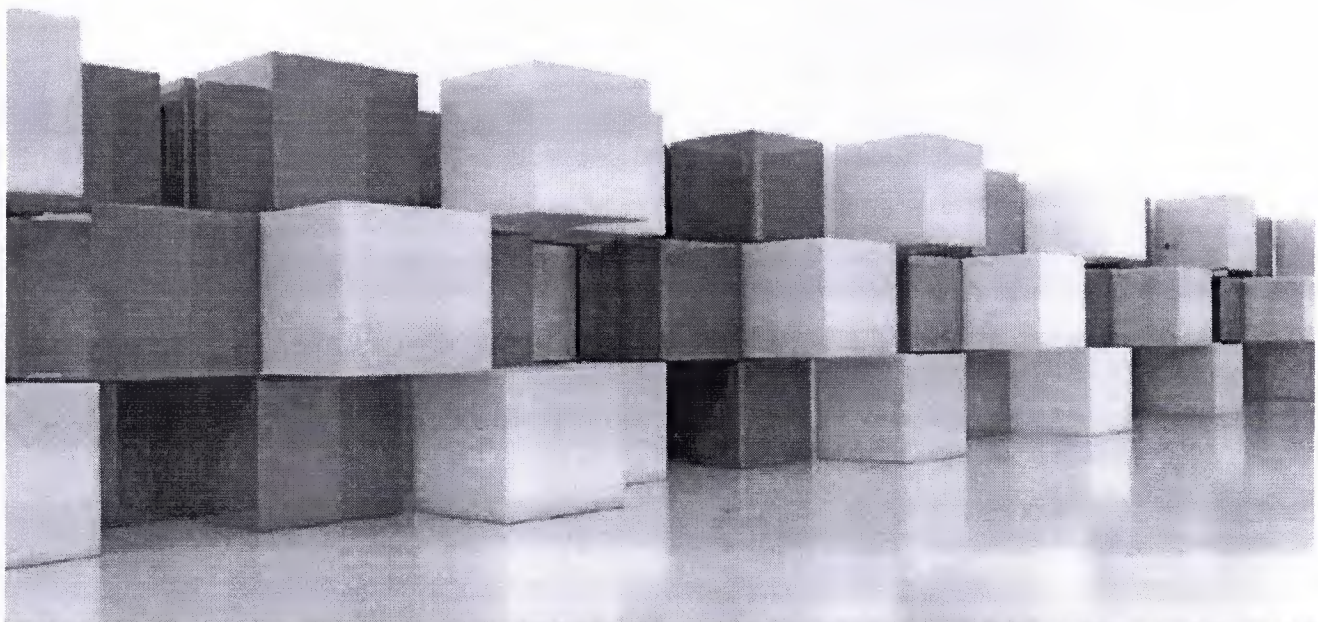
**NISHA N. KENDRA
PRIYANKA UTEJAN**



Research Methodology

Research Methodology book consists of descriptive questions and answers sets from previous year question papers applicable for all PhD course work as per UGC guidelines.

Author and co author names are **Shagufta Farooqui, Nishakendre, Akashy Ingle and Priyanka Telang** Working as a Assistant Professor and research scholar In Nanded Pharmacy College and School of pharmacy, SRTMU Nanded.



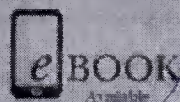
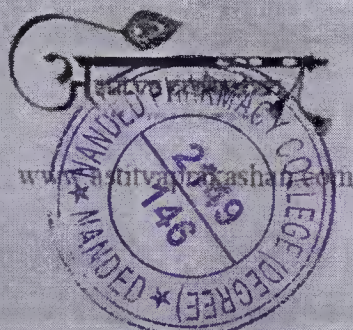
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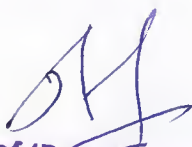
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Nanded.

FOR PhD COURSE WORK STUDENTS

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**NANDED PHARMACY COLLEGE, NANDED
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Nisha N. Kendre

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Priyanka U. Telang

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(MAHARASHTRA)**





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Nanded Pharmacy College,
Nanded.

Question Paper Pattern for University Examination

Paper- 1: Research Methodology (Question paper pattern)		
Marks:75		Duration:3hrs
N.B.:		
<ul style="list-style-type: none">• Attempt any five questions• Question no.1 is compulsory• Of the remaining attempt any four questions• All questions carry equal marks		
Q.1	Write short notes on (Any three out of five)	15 marks
Q.2	Descriptive question	15 Marks
Q.3	Descriptive question	15 Marks
Q.4	Descriptive question	15 Marks
Q.5	Write brief Note on a) b)	15 Marks
Q.6	Descriptive question	15 Marks
Q.7	Descriptive question	15 Marks
Q.8	Descriptive question	15 Marks




Prof. (Dr.) N.B. Ghiware
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Nanded Pharmacy College,
Nanded.

SYLLABUS

Research Methodology:

Objective:

- To enable to student to understand and work methods and concepts related Research.
- To enable the student to develop research proposal and to work with research problem.
- To develop broad comprehension of research area.

Unit 1: Introduction

Meaning, Concept, nature steps types and characteristics of research. Scientific Inquiry Philosophical and Sociological foundations of research Interdisciplinary approach and its implications in various research area.


Unit 2: Methods of Research:

Qualitative and quantitative methods of research like Historical, case study, ethnography, expost facto, documentary and content analysis, survey (Normative, descriptive, evaluative etc.) field and laboratory experimental studies. Characteristics of methods and their implications in research area.

Unit 3: Development of research proposal:

Research proposal and its elements Formulation of research problem criteria of sources and definition Development of objectives and characteristics of objectives. Development hypotheses and applications.




Prof. D. N. Ghaware
PRINCIPAL
Nanded Pharmacy College,
Nanded.

Unit 4: Methods of data collection:

Concept of sampling and other concepts related to sampling. Probability and non-probability samples, their characteristics and implications. Tools of data collections, their types, attributes and uses. Redesigning, research tools-like questionnaire, opinnaere, observation, interviews, scales and tests etc.

Unit 5: Methods of data analysis:


Analysis of qualitative data based on various tools. Analysis of quantative data and it presentation with tables, graphs etc. Statistical tools and techniques of data analysis-measures of central tendency, dispersion. Decision making with hypothesis testing through parametric and non parametric tests. Validity and delimitations of research findings.

Unit 6: Report writing and evaluations:

Principles of report writing and guidelines according to style manuals.

Writing and presentation of preliminary, main body and reference section of report. Evaluation of research report.




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This is to Certify that Dr./Mr./Miss Daswad Akashay kumar
 of N. P. C Nanded has participated as Resource person /
 Chaired a session / Organizing committee member / Delegate / Presented a poster in the
 scientific session of one day National Level conference on Progressive Approaches in
 Pharma Profession held on 3rd Feb. 2017. (1st Prize Winner)

Sonvan

Prof. Sonvan S.M. / Prof. Chauhan W.N.
 Co-Ordinator

Dh

Prof. Deshpande
 Co-Convenor

RS

Convener
 Prof. Ms. Satpute K.L.
 Principal

Dayanand Collge of Pharmacy, Latur

M
 Prof. (Dr.) N. B. Ghiware
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 Nanded Pharmacy College,
 Nanded.



Sahayog Sevabhavi Sanstha's



**College of Pharmacy
&
Indira College of Pharmacy**



One Day National Level Conference On

**Novel Approaches In Drug Regulatory Affairs (DRA-2019)
&
Poster Presentation On Emerging Trends In Pharmacy Practice**

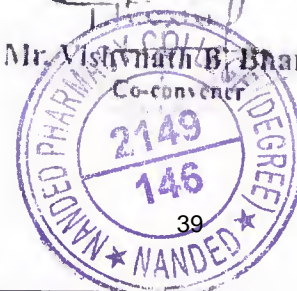
15th October 2019

Certificate

This is to certify that Dr./Mr./Miss./Mrs. Mrs. Muley Megha & Mukund
has Presented /Participated in One Day National Level Conference on Novel Approaches In Drug Regulatory
Affairs (DRA-2019) & Poster Presentation on Emerging Trends In Pharmacy Practice
held on 15th October-2019.

Dr. Prakash Katakam
Convener

Mr. Vishv Nath B. Bharkad



Prof. (Dr.) N.B. Ghiware
PRINCIPAL
Nanded Pharmacy College,
Nanded.

Ms. Sonali A. Bhagat
Co-ordinator

Nanded District Level Avishkar Research Convention - 2019

Jointly Organized By

Swami Ramanand Teerth Marathwada University, Nanded

&

Gramin College of Engineering, Vishnupuri, Nanded (MS)

Date 30/12/19



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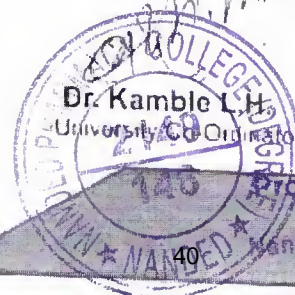



It is certified that Dr./Mr./Mrs./Ms. MULEY MEGHA MUKUND

of Nanded pharmacy college has participated in the Nanded District Level Avishkar Research Convention - 2019 held at Gramin College of Engineering (GRACE), Vishnupuri, Nanded (M.S.) on Monday 30th December 2019. He/she has presented a poster/model and stood at the ~~First~~ Second rank in the Medicine & pharmacy (TH) category/discipline.

Hence certified.


Dr. Kamble R.S.
District Co-Ordinator/Organising Secretary




Prof. Dr. W.B. Chivare
PRINCIPAL
Nanded Pharmacy College,
Nanded.


Dr. Pawar V.S.
Principal/Chief Organiser

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International Conference on

Quality Assurance and Phytochemical
Approaches in Traditional Medicine

January 10th- 11th, 2020



Savitribai Phule Pune University, Pune

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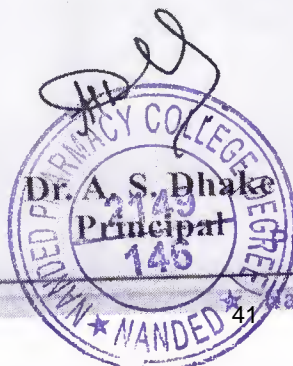
SMBT College of Pharmacy

SMBT Institute of D. Pharmacy

Nandihills, Dhamangaon, Tal. Igatpuri, Dist. Nashik, Maharashtra - 422403, India. Web: www.ictm2020smbt.com

This is to certify that, Mr. Akshay K. Daswad participated as delegate & presented poster titled Evaluation of Memory Enhancing Potential of Dendrocalamus Strictus Leaf Extract on Suitable Animal Model during International Conference held at SMBT Campus on January 10th- 11th, 2020. We duly acknowledge his/ her participation.

Dr. M. R. Kumbhare
Coordinator



Dr. A. S. Dhake
Principal

Prof. (Dr.) N. B. Ghiware
Principal
Nanded Pharmacy College,
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Dr. Y. V. Ushir
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Drug Discovery and Development : Lab to Clinic (DDD LC-2020)


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This is to certify that Prof./Dr./Mr./Mrs./Ms. Megha M. Muley
has participated and delivered Oral Presentation on Scientific work entitled as Development & Validation
of HPTLC method for estimation of famotidine - - - - in bulk mixture.
in the International Conference on "Drug Discovery and Development: Lab to Clinic (DDD LC-2020)" held
during 17th and 18th January 2020 at Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra - India.


Prof. Shashikant Dhawale
Convenor




Prof. (Dr.) N.B. Ghiware
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Nanded Pharmacy College,
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Dr. Udhav Bhosle
Vice-Chancellor

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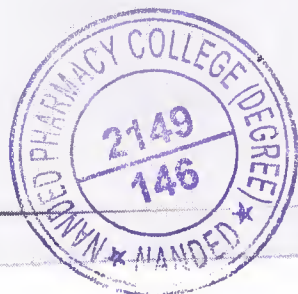



INTERNATIONAL CONFERENCE ON
Drug Discovery and Development : Lab to Clinic (DDD LC-2020)


Certificate

This is to certify that Prof./Dr./Mr./Mrs./Ms. Daswad A.K.
has participated and presented a **Poster on Scientific Work** entitled as Evaluation of memory enhancing potential of dendrocalamus strictus leaf extracts on suitable animal model.
in the International Conference on "Drug Discovery and Development: Lab to Clinic (DDD LC-2020)" held during 17th and 18th January 2020 at Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra - India.


Prof. Shashikant Dhawale
Convenor




Prof. (Dr.) N.B. Ghiware
PRINCIPAL
Nanded Pharmacy College,
Nanded.


Dr. Udhav Bhosle
Vice-Chancellor

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2nd International Conference on Traditional Medicine (Webinar)

Theme -

**"DEVELOPMENT & MODERN TRENDS
IN TRADITIONAL FORMULATIONS"**

January 08th-09th, 2021



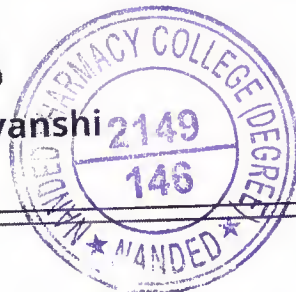
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This is to Certify that, MR. AKSHAYKUMAR DASWAD participated as delegate & presented e-poster titled Assessment of Memory Enhancing Potential of Dendrocalamus strictus Leaf Extracts during International Conference (Webinar) held at SMBT Campus on January 08th-09th, 2021. We duly acknowledge his/her participation.


Mr. K. A. Suryavanshi 2149
Coordinator




Prof. (Dr.) N. B. Ghiware
PRINCIPAL
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Nanded.


Dr. Y. V. Ushir
Program Chair



CERTIFICATE

3rd International Conference on Traditional Medicine



"TRADITIONAL MEDICINE IN MODERN ERA FOR CURE"

January 07th - 08th, 2022



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This is to Certify that, Akshay Kumar Daswad participated & completed as a delegate & presented e-paper titled Phytochemical analysis and Antioxidant activity of Saraca asocaplant part during International Conference held at SMBT Campus on January 07th-08th, 2022. We duly acknowledge his/her participation.

Mr. K. A. Suryavanshi
Coordinator

Prof. Dr. N. B. Ghiwari
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This is to certify that Dr. / Mr. / Ms. *Farooqui Shagufta* attended 6th Nirma Institute of Pharmacy International Conference jointly organized with Indian Pharmacological Society held during February 17-19, 2022 as *Delegate* and *Oral paper presenter* and secured ----- prize.

Prof. Tejal Mehta
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Scientific Committee

Prof. Jigna Shah
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Dr. BDP. Kala Kumar
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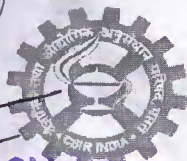
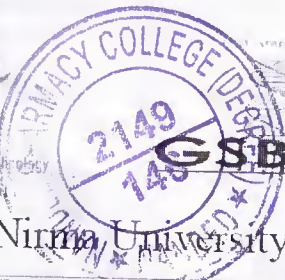
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International Conference on Pharmacy in Nepal, ICP-2022



CERTIFICATE OF APPRECIATION

Daswad Akshaykumar Kashiram

has participated as a delegate and did oral / poster presentation entitled
"IN-VITRO ESTIMATION OF ANTIOXIDANT AND ANTIDIABETIC POTENTIAL OF PLANT EXTRACTS"

in

International Conference on Pharmacy in Nepal, ICP 2022

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Date: 4th and 5th November, 2022

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OF PRESENTATION

This is to certify that,

Dr/Mr/Mrs/Ms/Prof. Shagufta A. Farooqui
has presented a Poster on Antidiabetic Neutraceutical

at One Day National Conference on

**“PHARMACEUTICAL TECHNOLOGY: ADVANCED RESEARCH AND
CHALLENGES IN NOVEL FORMULATION.”**

held on 27th March 2023

and Secured 1st *Position*

सचिव

दुर्गाबाई वडू किडा व शै. संस्था

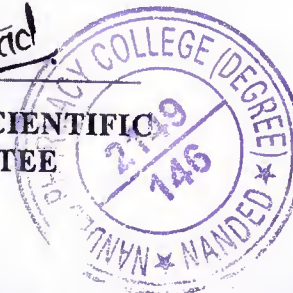
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**Prof. (Dr.) N.B. Ghiware
PRINCIPAL
Nanded Pharmacy College,
Nanded.**

Jawad
ASad

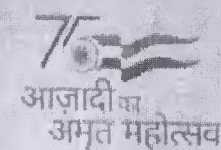
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School of Pharmacy

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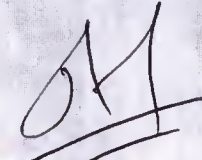



This is to certify that Prof./Dr./Mr./Mrs./Ms. Shagufta Bano Ashrafuddin Farooqui
has participated and Presented ~~Oral Presentation~~ [✓] Poster Presentation on Scientific Work entitled
"Pharmacological Evaluation of Pithecellobium Dulce stem Bark Extracts for
Anti-Ulcer Activity on Wistar Rat"

and awarded with ~~First/Second/Third~~ Prize in the International Conference on "Drug Discovery and
Development: Reaching the Unreached (DDDRU-2023)" held during 2nd and 3rd January 2023 at Swami
Ramanand Teerth Marathwada University, Nanded, Maharashtra - India.

Dr. S.G. Gattani
Convener




Prof. (Dr.) N.B. Ghiware
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Nanded.


Dr. S. J. Wadher
Director



VIJAY COLLEGE OF PHARMACY

Nizamabad, T.S, India



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APP 12th INDO US INTERNATIONAL CONFERENCE


Theme: Revolutionary Patterns in Pharmaceutical Education & Research"

Certificate of Participation


This is to certify that Dr./Mr./Ms. Rathod Chandrakant P. has won the Best Poster I/II/III ✓

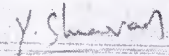
Prize for the poster entitled "In vitro Antioxidant activity of Saraca Asoca
Seeds Extracts for Antiasthmatic Potential"
during International Conference on Revolutionary Patterns in Pharmaceutical Education

& Research" held at Vijay College of Pharmacy, Nizamabad on 15th February 2020.


Dr. Rajiv Dahiya
Founder President APP




Dr. Ch. Suresh
Coordinator, Principal
Prof. Dr. N. B. Ghiware
PRINCIPAL
Nanded Pharmacy College,
Nanded.


Dr. Y. Shrayan Kumar
President APP, Warangal Branch

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED (M.S.) INDIA

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Drug Discovery and Development : Lab to Clinic (DDD LC-2020)

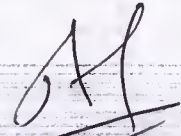
Certificate

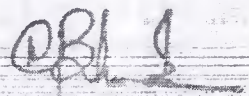
This is to certify that Prof./Dr./Mr./Mrs./Ms. C.P. Rathod
has participated and presented a **Poster on Scientific Work** entitled as Pharmacological Screening of
Anti-Asthmatic Activity by using Plant extracts.

in the International Conference on “Drug Discovery and Development: Lab to Clinic (DDD LC-2020)” held during 17th and 18th January 2020 at Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra - India.


Prof. Shashikant Dhawale
Convenor




Prof. (Dr.) N.B. Ghiware
PRINCIPAL
Nanded Pharmacy College,
Nanded.


Dr. Udhav Bhosle
Vice-Chancellor



Keywords: *Spathodea campanulata*,
Antioxidant Activity, Brine Shrimp
Bioassay, Extracts

PL03

Study of Anti-Ulcer Potential of Some Medicinal Plants From Marathwada Region

A. K. Dhadwe, G. R. Shendarkar*

Centre for Research in Pharmaceutical
Science (CRPS)
Nanded Pharmacy College, Nanded

Abstract:

Ulcers are most common on the skin of the lower extremities and in the gastrointestinal tract, although they may be encountered at almost any site. There are many types of ulcer such as mouth ulcer, oesophagus ulcer, peptic ulcer, and genital ulcer. Of these peptic ulcer is seen among many people. The peptic ulcers are erosion of lining of stomach or the duodenum. The two most common types of peptic ulcer are called "gastric ulcer" and "duodenal ulcer." Plants have always been a prototypical source of drugs and many of the formerly available drugs have been derived directly or indirectly from them. A wide array of plant derived active principles representing numerous chemical compounds has demonstrated activity consistent with their possible use in the treatment of several diseases. In Recent years, the use of ethno botanical information in medicinal plant research has gained considerable attention in segments of the scientific community. The use of plant parts and isolated

phytochemicals for the prevention and treatment of various health ailments has been in practice from time immemorial. Marathwada region of the state of Maharashtra is well known for its rich source of cultivated as well as wildy grown medicinal plants.

PL04

Pharmacological Screening of Anti- Asthmatic Activity By Using Plant Extract

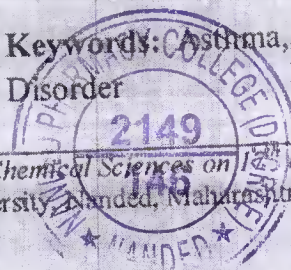
C. P. Rathod, M. H. Ghante*

Centre for Research in Pharmaceutical
Sciences (CRPS)
Nanded Pharmacy College, Nanded

Abstract:

Asthma is one of the most common chronic diseases in the world. It is estimated that around 334 million people in the world currently have asthma. Considerably higher estimates can be obtained with less conservative criteria for the diagnosis of clinical asthma. Asthma is one of the major disease in adults and children's the working definition proposed to be Asthma is a chronic inflammatory disorder of the airways causes recurrent episodes of wheezing, breathlessness, chest tightness and cough, particularly at night and in the early morning. The selection of plant was made based on its ease of availability, therapeutic value. The present study was undertaken to evaluate the asthmatic effect.

Keywords: Asthma, Chronic Inflammatory
Disorder





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EDUCATION
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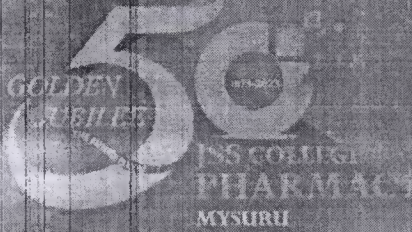
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APTICON
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**25th ANNUAL NATIONAL CONVENTION
OF ASSOCIATION
OF PHARMACEUTICAL TEACHERS OF INDIA,**

**SCIENTIFIC
ABSTRACTS**



[Signature]
Prof.(Dr.)N.B Ghiware
PRINCIPAL
Nanded Pharmacy College,
Nanded.



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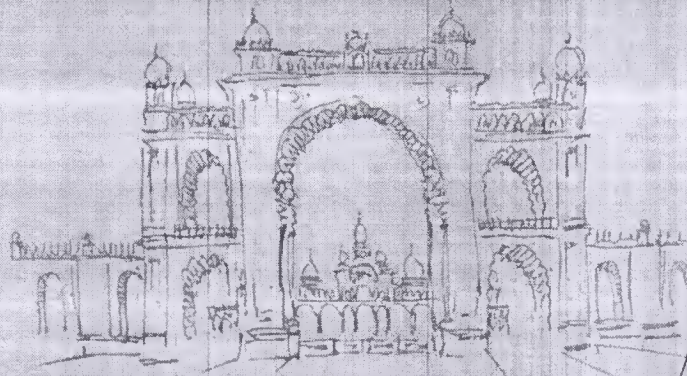
ASSOCIATION OF PHARMACEUTICAL TEACHERS OF INDIA (APTI)
 AND
 JSS COLLEGE OF PHARMACY, MYSURU
 JSS ACADEMY OF HIGHER EDUCATION & RESEARCH, MYSURU

CERTIFICATE
 OF PARTICIPATION

This is to Certify that

Prof./Dr./Mr./Ms. **RATHOD CHANDRAKANT PRABHU**

has participated as a Delegate in 25th Annual National Convention of the Association of Pharmaceutical Teachers of India- 2022 (25th APTICON- 2022) held at JSS College of Pharmacy JSS Academy of Higher Education & Research, Mysuru, India from 2nd to 4th September 2022.



Dr. Milind J Umekar
 President, APTI

Dr. Raman Dang
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Dr. T.M. Pramod Kumar
 Organizing Chairman
 25th APTICON 2022

Prof. (Dr.) N.B. Chivare
 PRINCIPAL Organizing Secretary
 Nanded Pharmacy College
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