Activities Under MoUs

(2022-23)

DETAILS OF MoUs

Academic Year 2022-23

Sr No.	Name of the collaborating agency / institution / industries /corporate house with whom MoU is made	Year of signing MoU	Duration of MoU	List the actual activities under MoU	Number of Students/ Teachers participating under MoUs
1	PDEA's college of Ayurveda and research centre, sector no 25, Pradhikaran, Pune-44	2023	Until modified or terminated	Herbal garden visit	60
2	PES Modern College of Pharmacy, sector 21, Yamunanagar, Nigdi, Pune	2022	Lifetime	Faculty exchange for delivering expert lecture, research paper/patent publication, Seminars attended by Faculty	05
3	Shanthiram College of Pharmacy, Nandyala-518112, Kurnool, Andhra Pradesh	2021	Until modified or terminated	Seminars/ Webinars attended by Faculty	01
4	JSPM's Rajarshi Shahu College of Pharmacy and Research, Tathawade, Pune-411033	2021	Until modified or terminated	Exchange of research work and Research publications, Seminars attended by Faculty	02
5	Elite Institute of Pharma Skills, Office No. 210, Second Floor, Laxmi Complex, Chinchwad, Pune-411019	2021	5 years	Training courses on Clinical Research and Pharmacovigilance for B. Pharm. Students	-
6	Medinilla Pharma Private Limited, Sr. No. 93, Shantai Corner, Ravet, Pune-412101	2019	5 years	Industrial Training for students, Industry visit	-
7	Dr. D. Y. Patil Institute of Pharmaceutical Sciences & Research, Pimpri, Pune	2018	Until modified or terminated	Exchange of research work, Research publications, Seminars attended by Faculty	02
8	DELNET-Developing Library Network, JNU Campus, Nelson Mandela Road, Vasant Kunj, New Delhi-110070	2017	Until modified or terminated	Use of DELNET database & library	83

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Shri Jain VidyaPrasarakMandal's
Rasiklal M. Dhariwal Institute of
Pharmaceutical Education & Research
[Formerly Shri Fattechand Jain College of Pharmacy (B.Pharm.)]
ESTD : 8/9/1927
Manikchand
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Ref : RMDIPER/2022-23

Date : 13/03/2023

HERBAL GARDEN VISIT REPORT

Activity (Field Visit)	**Report on Herbal Garden Visit for B. pharm Second Year students**
Day & Date	Monday 13/03/2023
Time	10.00AM-1.00PM
Venue	"PDEA's College of Ayurved and Research center Pradhikaran, Nigdi, Pune
Description	A Herbal garden visit was organized to "PDEA's College of Ayurved and Research center Pradhikaran, Nigdi, Pune on 13th March 2023 for second year B. Pharm students. 58 (Fifty eight) students and two teachers visited the site. The aim was to show the students to acquire the knowledge of traditional systems of medicine and provide valuable opportunity to expand their knowledge in the field of holistic healing. Dr. Yogini Kulkarni, Dr. Ila Bhore, Dr. Lad Madam, Dr. Jitendra Tapaswi showed various medicinal plants maintained in the herbal plant section of the site and highlighted their importance, usefulness, and significance to the students and teachers. They also encouraged students to disseminate medicinal plant-related information to other students of the college. The students and the teachers all enjoyed the visit and found it informative and useful. **Importance of some herbs with their medicinal values** • Herbs such as black pepper, cinnamon, myrrh, aloe, sandalwood, ginseng, red clove, burdock, bayberry, and safflower are used to heal wounds, sores and boils. • Some herbs are also having antibiotic properties. Turmeric is useful in inhibiting the growth of germs, harmful microbes and bacteria. Turmeric is widely used as a home remedy to heal cut and wounds. • Ginger and cloves are used in certain cough syrups. They are known for their expectorant property, which promotes the thinning and ejection of mucus from the lungs, trachea and bronchi. Eucalyptus, Cardamom, Wild cherry and cloves are also expectorants.
Participation	58 students (B. pharm S.Y.) 02 staff members (Dr. Shweta P. Ghode and Mrs. Harshada H. Puranik)
Outcome	These herbal products are today being the symbol of safety in contrast to the synthetic drugs, that are regarded as unsafe to human being and environment. Although herbs had been priced for their medicinal, flavouring and aromatic qualities for centuries, the synthetic products of the modern age surpassed their importance, for a while. However, the blind dependence on synthetics is over and people are returning to the naturals with hope of safety and security. It's time to promote students globally.

Dr. Shweta P. Ghode & Mrs. Rohini Kolhe
Program Co-ordinator

Dr. Sanjay G. Walode
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Pharmaceutical Education & Research
Chinchwad Station, Pune-411019

B. Pharm S.Y. students visited at College of Ayurved and Research center Pradhikaran, Nigdi, Pune for Herbal garden Visit

Dr. Jitendra Tapaswi guiding the students about Plants

Dr. Yogini Kulkarni and Dr. Ila Bhore showing the different verities of plants with their Ayurvedic names and medicinal uses

Dr. Lad madam, HOD, giving information about traditional medicinal plants

Felicitation of Dr. Rajkumar Bobade, Vice-Principal, College of Ayurved and Resea
Center Pradhikaran, Nigdi, Pune

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HERBAL GARDEN VISIT

@

COLLEGE OF AYURVEDA AND RESEARCH CENTER, PRADHIKARAN, NIGDI, PUNE-44

DATE: 13TH MARCH 2023 **TIME: 9.45AM**

ATTENDANCE
SY.B.PHARM (2022-23)

Roll No	Student Name	Signature	Roll No	Student Name	Signature
1.	Abbad Yash Rajkumar		21	Dewasi Kailash Vanaram	
2.	Aditya Nagesh Kumbre		22	Dhilod Shantanu Sanjay	
3.	Aher Shrutika Rajesh		23	Diya Shah	
4.	Ambarkar Tejas Harivijay		24	Doke Ajit Prafulla	
5.	Ansari Ikram Minhaj		25	Dolaskar Avantika Manoj	
6.	Arti Sunil Thube		26	Doshi Akash Santosh	
7.	Bansode Shreya Prashant		27	Doshi Ketki Ashish	
8.	Bele Shreya Annasaheb		28	Falguni Sharad Petare	
9.	Bende Rasika Sunil		29	Fayyaj Jalal Shaikh	
10.	Bhokare Sanchit		30	Gadiya Siddhesh Dilip	
11.	Bobde Aadish Sarang		31	Gandhi Vaishnavi	
12.	Bora Dipak Vilas		32	Hipparkar Sneha Damodar	
13.	Borkar Sharvari Kumar		33	Jadhav Dipali Sadashiv	
14.	Chauhan Bipin		34	Jangale Dhanashri Sharad	
15.	Chordiya Shruti Sunil		35	Jangid Prakash Devilal	
16.	Choudhary Bhavesh Harish		36	Kadam Sayli Gurudas	
17.	Choudhary Kashish Dilip		37	Katariya Pranjal Manoj	
18.	Chougule Pranjali Prakash		38	Kinikar Aniket Sanjay	
19.	Chougule Priyadarshani		39	Kusekar Janhavi	
20.	Chuttar Nikhil Rahul		40	Lunawat Ronak Rajendra	Absent

Ph. No -020-27459191 Fax No: 020 27354633/27457683 Email: rmdiper@gmail.com
Acharya Anand Rushiji Marg, Telco Road, D-2 / 60-61, Chinchwad, Pune-411 019

41	Madake Shivani Balasaheb		55	Shaha Sakshi Aniket	
42	Madkar Pratik Suresh		56	Shriyash Haridas More	
43	Majage Sudarshan		57	Soni Srushti Jitendra	
44	Munot Gautam Navneet		58	Surana Shruti Sudeshkumar	
45	Nupur Nitin Barbare		59	Suryavanshi Vaishnavi	
46.	Oswal Prayash Pravin		60	Tanvi Vaibhav Redij	
47.	Patil Kiran Arun		61	Tate Manasi Keshav	
48.	Patil Sakshi Balasaheb		62	Thole SanyamVardhaman	
49.	Prajkta Paraskumar Parakh		63	Undare Gauri Abasaheb	
50.	Pratiksha Nitin Yewale		64	Upadhye Ayush Shrenik	
51.	Sankpal Prajakta Vikas		65	Upadhye Sujeet Sharad	
52.	Shah Mokshit Manojkumar		66	Wanare Sanket Sanjay	
53.	Shah Prathamesh Bahubali		67	Yadav Pooja Shivkumar	
54.	Shah Riya Rahul		68	Yadav Sakshi Santosh	

Dr. Shweta P. Ghode

Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research
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465/2014

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॥ पढमं नाणं तओ दया ॥

ESTD : 8/9/1927

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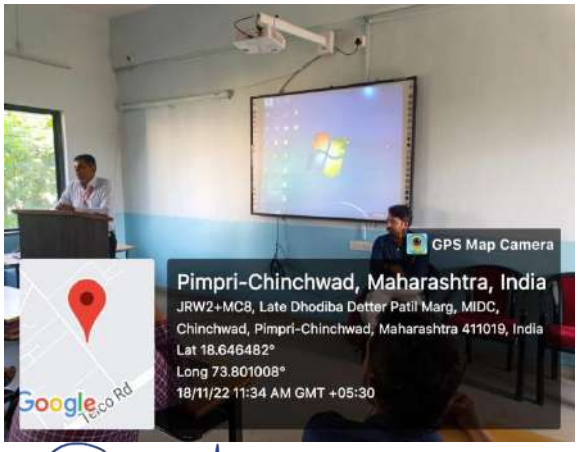
Date: 18/11/2023

ACTIVITY REPORT

Activity	**Seminar on "Molecular Docking" by Mr. Somdatta Chaudhari**
Day & Date	**18/11/2022 (Friday)**
Time	11:00 am to 01:00 pm
Venue	RMDIPER
Description	An seminar on **"Molecular Docking"** was conducted on 11th **November, 2022(Friday)** from **11.00 am** to **01.00 noon** at Rasiklal M. Dhariwal Institute of Pharmaceutical Education and Research (RMDIPER), Chinchwad, Pune. **Mr. Somadatta Chaudhari**, Assistant Professor, Department of Pharmaceutical Chemistry, Modern college of Pharmacy Nigadi was invited as the Resource Person to deliver a Talk on the theme of the Guest Lecture. The students and faculty members of RMDIPER participated the Guest Lecture. Dr. V. S. Neharkar, associate Professor Pharmacology department co-ordinated the programme. Dr. A. A. Garud, Assistant Professor of pharmacology conducts the program. The programmed was closed with a formal vote of thanks to Principal, Resource Person, Faculty members and Student participants followed by a snapshot of the session by Dr. Garud sir. The members of pharmaceutical chemistry department Mrs. B.J.Warude also assist for successfully conduction of the event.
Present Students	82
Outcome	Advanced Learning and experimentation.

PHOTOS



Seminar on "Molecular Docking"

Dr. A. A. Garud

Dr. S.G Walode

Introduction and Welcome of resource person by program coordinator Dr.V.S.Neharkar

Seminar delivered by resource person Mr. Somadatta Chaudhari

॥ पढमं नाणं तओ दया ॥

ESTD : 8/9/1927

Shri Jain Vidya Prasarak Mandal's

Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research

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Seminar delivered by resource person Mr. Somadatta Chaudhari

Attendance of students and staff for Seminar

Dr. A. A. Garud

Member

Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research
Chinchwad Station, Pune-19
PU/PN/Pharma/465/2014

(Dr. S. G. Walode)

Principal

Shri Jain Vidya Prasarak Mandal's
Rasiklal M. Dhariwal Institute of
Pharmaceutical Education & Research
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Ref : RMDIPER/2022-23/ 01 Date : 13/02/2023

Activity Report

Activity (Cultural)	**Report on** SPPU Sponsored Two Days State Level Seminar on the topic **"Implementation of National Education Policy 2020-Multidisciplinary Education: Application of CADD in Teaching and Research**
Day & Date	Friday 10/02/2023 & Saturday 11/02/2023
Time	9.00 a.m.to 5.00 p.m.
Venue	RMDIPER Auditorium
Facebook link rogramme:	https://m.facebook.com/story.php?story_fbid=pfbid0fP2TUajrjJWovez4Ac5yZa1BmvSLFEQSCTjQcALshd789zicDrSeu2PH5KauhE1jl&id=100073113664659&mibexti
Description	SPPU Sponsored Two Days State Level Seminar on the topic **"Implementation of National Education Policy 2020-Multidisciplinary Education: Application of CADD in Teaching and Research"** was successfully **10th & 11th February 2023,** by SJVPM's Rasiklal M. Dhariwal Institute of Pharmaceutical Education and Research, Chinchwad, Pune.The first day i.e. on 10th February 2023 the two days seminar was inaugurated by the hands of dignitaries present for this seminar. Dr. Atmaram Pawar, Principal, Poona College of Pharmacy was the key note speaker for inaugural function. He enlightened the audience with his thoughts on National Educational Policy and how it will work in education system in next coming years. Dr. Gautam Bhong, Principal, Sanghavi Keshari College of Arts & Commerce, Dr. Sanjay Walode Principal RMDIPER, all HOD and delegates i.e. student and faculty members from various pharmacy colleges were present for the session. Various resource person from different field of computer aided drug design guided the audience during these two days. Mr. Somdatta Chaudhari delivered his talk on topic Computer aided drug design: From Academic to Research. He explained academic model developed by him. The second session was by Dr. Vishal Zambre discussed QSAR: A Tool that reveals new bioorganic chemistry insights. The third session for the day one was by Dr. Harun Patel explained scope and research in Fragment based drug discovery.
Participation	30 Teaching and non-teaching faculty members and 180 students
Outcome	Holistic development of students through this activity

Mrs. Harshada H. Puranik
Cultural Co-ordinator

Dr. Sanjay G. Walode
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Description	The second day was started with some more interesting and interactive sessions in CADD. The session IV was started by the talk of resource person Dr. Prashant Kharkar, on the topic Recent Advances in the computational approaches for molecular design. Session V was enlightened by next resource person Dr. Ravindra Kulkarni, on the CADD assisted design of kinase inhibitors. The last session of the two days state level seminar was conducted by Mr. Sameer Choudhary. He talked on the topic Preventive strategies for management of COVID-19 using natural molecules. Delegates from various pharmacy colleges benefited by this two days state level seminar to understand the concept of National Educational Policy. Institute provide deep gratitude towards Savitribai Phule Pune University and Management of Shri Jain Vidya Prasarak Mandal for encouraging to organize such events. 54 delegates from other institutes, 25 staff members and about 120 students participated in the this event.We are thankful to Hon. Prakashchandji R.Dhariwal, President SJVPM, Hon. Shantilalji R. Lunkad, Chairman SJVPM, Hon Ad. Rajendrakumarji S. Mutha, Hon. Gen. Secretary SJVPM for continuous guidance and support. Programme was co-ordinated by Mrs. Harshada H. Puranik and convener for the seminar was Dr. Sanjay G. Walode, Principal RMDIPER. The programme was successfully conducted by the amalgamation of all teaching, non-teaching staff members and students of the RMDIPER.
Participation	54 delegates from other institutes, 25 staff members and about 120 students participated in the this event
Outcome	Professional development of students, faculty and attendee through this activity

Mrs. Harshada H. Puranik
Cultural Co-ordinator

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1. Inauguration ceremony of Two days state level seminar 2. Keynote address by Dr. Atmaram Pawar Sir 3. Felicitation of Dr. Atmaram Pawar by Dr. Sanjay Walode, Principal RMDIPER

Expert talk by Resource Person

Mrs. Harshada H. Puranik
Cultural Co-ordinator

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Patent Search

Invention Title	"SOL-GEL STRATEGY FOR SYNTHESIS OF MESOPOROUS ALUMINA AND PASSIVE LOADING APPROACH FOR DIRECT DELIVERY OF 5-FLUOROURACIL"
Publication Number	04/2023
Publication Date	27/01/2023
Publication Type	INA
Application Number	202221072221
Application Filing Date	14/12/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	B82Y0005000000, A61K0009510000, A61K0049000000, A61P0035000000, A61K0009160000

Inventor

Name	Address	Country	Nationality
Dr. Minal Tejram Harde	P. E. Society's Modern College of Pharmacy, Sector 21, Yamunanagar, Nigdi, Pune – 411044, Maharashtra	India	India
Dr. Praveen Digambar Chaudhari	P. E. Society's Modern College of Pharmacy, Sector 21, Yamunanagar, Nigdi, Pune – 411044, Maharashtra	India	India
Mr. Laxman B. Ingole	P. E. Society's Modern College of Pharmacy, Sector 21, Yamunanagar, Nigdi, Pune – 411044, Maharashtra	India	India
Dr. Sameer H. Lakade	RMD Institute of Pharmaceutical Education and Research, Pune, 411019, Maharashtra	India	India

Applicant

Name	Address	Country	Nationality
P. E. Society's Modern College of Pharmacy, Nigdi, Pune.	P. E. Society's Modern College of Pharmacy, Sector 21, Yamunanagar, Nigdi, Pune – 411044, Maharashtra	India	India
Dr. Minal Tejram Harde	P. E. Society's Modern College of Pharmacy, Sector 21, Yamunanagar, Nigdi, Pune – 411044, Maharashtra	India	India
Dr. Praveen Digambar Chaudhari	P. E. Society's Modern College of Pharmacy, Sector 21, Yamunanagar, Nigdi, Pune – 411044, Maharashtra	India	India

Abstract:

The present invention relates to a process of synthesis of mesoporous alumina from Cetyl trimethyl ammonium bromide (CTAB) surfactant using sol-gel technique. The synthesized mesoporous alumina acts as a carrier for Controlled release /Sustained release of drugs, use as a carrier for Tumour targeting applications, Gene therapy applications, Photodyanamic therapy, Agents for magnetic resonance imaging and carrier for drug delivery of molecules. The passive loading approach was used for the encapsulation of 5-Fluorouracil (5FU) within the pores of the mesoporous nanostructure of MA. The entrapment efficiency was calculated using UV-Vis spectrophotometric analysis and was found to be 36%. The in vitro dissolution study indicated the gradual release of 5FU for up to 5 h compared to free 5FU. Cytotoxicity assay confirms prominent inhibition potential of 5FU at lower doses and shows synergistic potential.

Complete Specification

DESC:FIELD OF THE INVENTION

The present invention relates to a method for synthesis of mesoporous alumina from and its application for controlled release drug delivery of anticancer drug like 5-Fluorouracil, Specifically, the method involves the sol-gel technology, it is a wet chemical technique that uses either a chemical solution or colloidal particles to produce and integrated network. The present invention offers an advantages in drug delivery of anti-cancer drugs through mesoporous alumina.

BACKGROUND OF THE INVENTION

Mesoporous material is a material containing pores with diameter between 2 to 50 nm. Metal oxide nanoparticles are attractive material and have a well-defined shape, greater surface area, greater pore volume and an overall narrow size distribution. Large surface area of mesoporous alumina particles can accommodates the large quantity of model drug (or guest molecule). The main advantage of using such metal precursors is their easy decomposition that can be achieved in solution, and under mild condition. This allows the control of the particles size; shape and surface area and a mono disperse assembly of particles having the desired properties.

Composite colloidal particles consist of at least two types of materials, often with one on the outside and another in the center of the particle. These composite particles combine different material properties such as specific bio-chemical, optical, electrical, magnetic and mechanical properties. The mesoporous alumina are not only biocompatible but are also known for actively promoting the tissue regeneration via physico-chemical routes.

View Application Status

पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 52/2022	शुक्रवार	दिनांक: 30/12/2022
ISSUE NO. 52/2022	FRIDAY	DATE: 30/12/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2022

(21) Application No.202221072921 A
(43) Publication Date : 30/12/2022

(54) Title of the invention : FACILE SYNTHESIS OF ORDERED MESOPOROUS γ ALUMINA WITH TUNABLE STRUCTURAL PROPERTIES

(51) International classification :B01J0037000000, B01J0035000000, B01J0035100000, B82Y0030000000, C01B0032050000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)Dr. Minal Tejram Harde
3)Dr. Praveen Digambar Chaudhari
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
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2)Dr. Praveen Digambar Chaudhari
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3)Mr. Sidheshwar L. Jadhav
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4)Dr. Sameer H. Lakade
Address of Applicant :R. M. Dhariwal Institute of Pharmaceutical Education and Research, Pune, Maharashtra ---------- ----------

(57) Abstract :
The present invention relates to a process of synthesis of mesoporous - alumina using a sol–gel strategy is studied by using dodecyltrimethylammonium bromide surfactant as a novel structure directing template with aluminium chloride as an inorganic metallic precursor. Development of the mesoporous structure is confirmed by the results of a BET (Brunauer-Emmett-Teller) for porous structural properties like pore size and size distribution, transmission electron microscopy (TEM) for nano-scale morphology, scanning electron microscopy (SEM) for surface morphology, energy dispersive X-ray Analysis (EDX) for presence of alumina, X-ray diffraction (XRD) for bulk crystallinity, Fourier transform-infrared spectroscopy (FT-IR) for confirming its prime characteristics peaks of functional groups. Elemental analysis and X-ray diffraction revealed the formation of -Al2O3 after calcination at 700°C. Results of characterization study revealed the successfully synthesized MeAl which showed excellent stability with an expanded surface area suitable for carrier material for drug delivery system

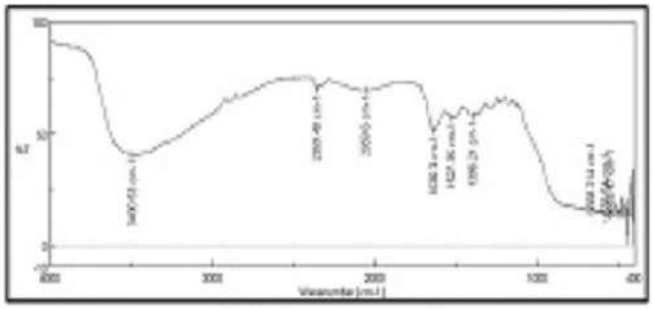

Fig.1 FTIR spectra of synthesized mesoporous γ alumina

No. of Pages : 29 No. of Claims : 4

Original Article

Anthelmintic Potential Of Aqueous And Organic Extract Of Seeds Of Samaneasaman (Merr)

Atul Baravkar[1*] , Nitin Aher[2] , Ramdas Kale[3] , Vitthal Chopade[4] , VishnuN eharkar[5] , Makarand Puri[6] , Padmanabh Deshpande[7]

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[7]AISSMS College of Pharmacy, Pune, India. 411006
[*1]Author for correspondence: Atul Baravkar
DOI: 10.47750/pnr.2023.14.03.295

Abstract

The aim of this research study was to evaluate aqueous and organic extracts of seeds of Samaneasaman (Merr)for their anthelmintic activity using Indian adult earthwormPheretimaposthuma.Different concentrations of aqueous and organic extract ranging from 10 to 100 mg/ml were made and tested on said earthworm. These extracts were tested for bioassays which include time for paralysis and time for death of the worms. Aqueous as well as organic extract of seeds does notexhibited strong anthelmintic activity at concentration of 100 mg/ml. Lower concentrations also did not produced significant anthelmintic activity. The standard reference drug which is used for comparing anthelmintic activity of these extracts was piperazine citrate at concentration of 10 mg/ml.Both aqueous and organic extracts of seeds of Samaneasamanwere evaluated for and showed no potential anthelmintic activity.

KEYWORDS Anthelmintic activity, Extraction, Piperazine citrate.Samaneasaman, Pheretimaposthuma.

INTRODUCTION:

Helminthiasis is a worm infestation of humans and other animals even life stock and crops affecting health and food production respectively and has impact on global economic factor.[1] The worms which causes helminthiasis are called as helminths and the drugs which are used for treating helminthiasis are nothing but anthelmintics.[2]There are various types of worms such as hook worms, fluke worms, round worms, tape worms which causes helminthiasis. The names are given according to their shapes. The major organs which get affected in helminthiasis are stomach and intestine and major symptoms of sever helminthiasis include diarrhea, abdominal pain, general malaise and impaired cognitive development. Chronic helminthiasis by hook worm lead to intestinal bleeding and anemia.[3]Pheretima is a genus of earthworms. Pheretima posthuma are long cylindrical shaped worms having length of 15-30 cm. they are mostly found in moist soil and responsible for vegetables and humus. Their life span is 3 to 10 years.[4]

SamaneaSamannMerr (familyFabaaceae) commonly known as rain tree is easily available and widely spread plant in the world. It is widely cultivated throughout Mediterranean region and all tropical regions including temperate, tropical and subtropical regions due to its higher commercial scale.

Scientific classification of Taxonomy Kingdom: Plantae, Order: Fabales, Family: Fabaceae, Genus: SamaneaSaman,
Species: S.saman and exhibits the synonym names of Samaneasamansuch as Albiziasaman, Enterolobiumsaman, Inga saman, Pithecellobiumsaman,and Mimosa saman.[5]

Downpour tree is effortlessly known for its qualities like umbrella-molded cover. Downpour tree is filled in the open and ordinarily arrives at 15-25m (50-80ft) in level. Samaneasaman is quite possibly of the main plant in the Pacific as an overhanging tree on little ranches and along street side regions in parks and field. The downpour tree is filled in the tropical climate and its wood has restricted need for cut bowls, make wood, and fuel wood. The leaves and cases of downpour tree are utilized as food because of the great nutritive substance and nitrogen

Preliminary pharmacognostic, physicochemical and phytochemical evaluation of *Sansevieria cylindrica* leaves

Sunil Shewale[1], Vaishali Undale[2]*, Maruti Shelar[3], Vrushali Bhalchim[4], Mohini Kuchekar[5], Bhagyashri Warude[6], Vikas Wawale[7]

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Abstract

Background: *Sansevieria cylindrica* (*S. cylindrica*) Bojer ex Hook. (Asparagaceae) is an indoor ornate plant. The plant was conventionally utilized by the local healers during deliberate, and accidental injuries. The pharmacognostic study of this plant with different parameters was very poorly explored. Hence, the present investigation was carried out to explore, and evaluate different characteristics of the plant. **Aim:** To explore the preliminary pharmacognostic, physicochemical, phytochemical, microscopic, and phytoconstituents potential of *S. cylindrica* leaves for authentication of the plant. **Method:** The morphology, and microscopic properties of plant leaves were evaluated. The herbal standardization was then carried out based on physicochemical parameters including ash values, extractive values, and fluorescence analysis. The qualitative evaluation of phytoconstituents was performed using different chemical tests followed by quantitative estimation of important phytochemical, and analytical profiling of extract. **Result:** The macroscopy has studied for the basic features like colour, size, odor, shape, taste, surface, and fracture of plant leaves. The microscopical study confirms the presence of vessels, vascular bundles, lignified fibers, and calcium oxalate crystals etc. Physicochemical evaluation showed less quantity of inorganic matter present in the plant. Preliminary phytochemical analysis confirms the presence of glycosides, phenolic compounds, tannins, saponins, flavonoids, steroids, and carbohydrates. Instrumental analysis has given an idea about the identification, and confirmation of various phytoconstituents in the extract. **Conclusion:** The result of the present study can be meaningfully used as a reference for the standardization, and quality control of *S. cylindrica* and for the authentication, and preparation of monograph of the plant.

Keywords: *Sansevieria cylindrica,* Asparagaceae, pharmacognostic, phytochemical, physicochemical study.

1. INTRODUCTION

The utilization of medicinal plants against various health issues is a historical practice in many developing countries, and this kind of knowledge has been transmitted among communities from one generation to other[1]. Medicinal plants are considered a potential source of raw materials, which are used for the manufacturing allopathy drugs. Many of the bioactive constituents of plants are being explored through their synergistic effect with chemicals and using synthetic chemistry to develop new drugs[2-3]. The medicines derived from plants are relatively considered safe, and affordable as compared to the synthetic alternatives offering profound therapeutic benefits[4]. However, in developed countries, the use of alternative medicines is always restricted because of a lack of documented evidence to its various assessment, and quality control measures[5]. Hence, its standardization through appropriate depiction of its pharmacognostic, physicochemical, and phytochemical parameters is a crucial stage to confirm the reproducible quality of herbal medication to aid us to justify its safety, and effectiveness.

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COMMON INDIAN MEDICINAL PLANTS AS EMERGING WOUND HEALING AGENTS: DEEP INSIGHTS INTO APPLICATIONS AND MECHANISMS

Shweta P. Ghode [*1], Prashant D. Ghode [2], Harshada H. Puranik [1] and Atul S. Sayare [1]

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Keywords:

Anti-bacterial activity, Anti-oxidant activity, Anti-inflammatory activity, Herbal medicine, Natural products, Wound healing

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ABSTRACT: Any bodily harm, such as damage to the skin's epidermis and disruption of its normal architecture and function, is referred to as a wound. The significance of wound healing has been known since ancient times. Several attempts have been made to design innovative wound dressings composed of the finest materials for speedy and successful wound healing. Medicinal herbs greatly aid the wound healing process. Many researchers have concentrated in recent decades on creating innovative wound dressings that combine medicinal plant extracts or their purified active components, which might be utilized instead of standard wound dressings. Several researchers have looked at the mechanisms of action of different herbal medicines in the wound healing process. This work aims to emphasize and examine the mechanical viewpoint of wound healing mediated by natural compounds. Some herbal medications stimulate re-epithelialization, angiogenesis, granulation tissue development, and collagen fiber deposition by increasing the production of vascular endothelial growth factor (VEGF) and transforming growth factor (TGF-α). Other wound dressings containing herbal medicines decrease the production of tumour necrosis factor-α (TNF-α), interleukin-1β (IL-1β) and inducible nitric oxide synthase (iNOS), resulting in anti-oxidant and antiinflammatory characteristics at different stages of the wound healing process. Aside from the growing public interest in traditional and alternative medicine, using herbal medicine and natural products for wound healing has a number of advantages over using conventional medicines, including greater effectiveness due to multiple mechanisms of action, anti-bacterial activity, and long-term wound dressing safety.

INTRODUCTION: It is a worldwide problem to design and produce an adequate wound dressing for treating acute and chronic wounds.

QUICK RESPONSE CODE

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Because wound healing is such a complicated process, an ideal wound dressing should have the following qualities: retaining moisture around the wound, allowing gaseous transmission, biocompatibility, biodegradability, non-toxicity, stimulation of growth factors, ease of changing and removing wound dressings, ability to transfer bioactive compounds to wound sites and wound protection from infections and microbial growth. Infection is one of the most common causes of

Sonocrystallization: Emerging Approach for Solubility Enhancement of Poorly Aqueous Soluble Drug Molecules

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ABSTRACT

Drugs solubility and permeability both affect how bioavailable they are when taken orally. Insufficient bioavailability is frequently demonstrated by the low solubility and low dissolution rate of weakly water soluble medications in gastrointestinal fluids. An innovative particle engineering process called sonocryatallization involves applying ultrasonic energy to a soft or viscous molten mass that is disseminated in an immiscible liquid, thereby producing crystals having a large surface area which facilitates better drug dissolution. This review article comprehensively highlights the recent reports of solubility enhancement of a variety of drugs belonging to classes such asnon-steroidal anti-inflammatory drugs (celecoxib, flurbiprofen, ibuprofen, ketoprofen, naproxen, piroxicam), antihyperlipidemic drugs (fenofibrate and simvastatin), miscellaneous drugs (oxcarbazepine, progesterone, salbutamol, and rosiglitazone), and natural products (curcumin and plumbagin) through (melt)-sonocrystallization approach. This article will definitely provide great help to formulators and/or researchers involved in developing or applying emerging techniques for enhancing the aqueous solubility of drug molecules.

Keywords: Sonocrystallization, Solubility Enhancement, Techniques, Mechanism, Drugs, BCS
DOI Number: 10.14704/NQ.2022.20.16.NQ88041 **NeuroQuantology2022;20(16):369-382**

1. INTRODUCTION

When a medicine is ingested, its delivery mechanism dissolves into gastric or intestinal fluids, where it then penetrates gastrointestinal cell membranes to be absorbed. Drugs' solubility and permeability both affect how bioavailable they are when taken orally. To acquire the correct drug concentration in plasma for the intended pharmacological reaction, solubility is a crucial factor. According

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RESEARCH ARTICLE

Solubility Enhancement and Preparation of Antifungal Gel of Lawsone

Atul S. Sayare[1]*, Pallavi P. Kamble[1], Prashant D. Ghode[1], Shweta P. Ghode[2], Vrushali V. Pawar[1], Shivani R. Yeole[1], Pranjali A. Mashakhetri[1]

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ABSTRACT:

Lawsone is the principle colouring compound of Henna, *Lawsonia inermis* Linn. (Fam. Lythraceae). Lawsone shows low bioavailability because it is insoluble in water and less soluble in other solvents. The objectives of the study were to increase the solubility and dissolution rate of lawsone using by forming β-cyclodextrin (β-CD) inclusion complex and formulating this into a gel formulation for topical use. **Method:** The inclusion complex were prepared by taking lawsone to β-CD weight ratios of 1:1, 1:2, 1:4 and 1:8. By this technique solubility and dissolution rate of lawsone wassignificantly increased. The inclusion complex was characterized by FTIR and DSC. **Results:** Antifungal activity of lawsone gel was evaluated on *Candida albicans* fungi. The *in-vitro* drug release study was performed on goat skin. Antifungal activity of lawsone and β-CD complex (1:2) showed the biggest zone of inhibition as compared to other inclusion complexes. **Conclusion:** The antifungal activity of gel of inclusion complex of lawsone and β-CD showed significant antifungal activity.

KEYWORDS: Lawsone, β-cyclodextrin, Inclusion complex, Carbopol 940, Gel, Antifungal activity.

INTRODUCTION:

Henna, *Lawsonia inermis* Linn. (Fam. Lythraceae) contains a red-orange coloured compound, known as Lawsone (2-hydroxynaphthalene-1,4-dione) (Figure 1)[1]. It has limited solubility in water at 0.2%, soluble in ethanol, methanol, ethyl glycol and dimethyl formamide[2]. Henna is well known to be useful in treating skin infections like tinea and also possess antibacterial property which is mainly due to the lawsone content[3]. But lawsone has very low bioavailability because of its limited water solubility and rapid rate of elimination from the body[4].

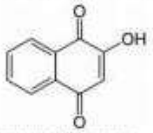

Figure 1: Chemical Structure of Lawsone

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Cylodextrin (CD) inclusion complexation is one of the approaches used to enhance the solubility and bioavailability of poorly water soluble drugs[5]. There are numerous examples in the literature of β-CD complexes of drugs used to improve solubility and bioavailability[6,7].

Therefore, the key objective of present study was to prepare and evaluate the inclusion complex of lawsone using β-CD to increase the solubility and bioavailability of the drug. Another objective of this study was to prepare a topical gel by using lawsone-β-CD inclusion complex and to evaluate its antifungal activity.

MATERIALS AND METHODS:

Chemicals and reagents:

Standardized lawsone (99%) was obtained from Sigma Aldrich, India. β-CD, carbopol-940, polyethylene glycol, triethanolamine, methyl paraben, propyl paraben, ethanol were purchased from Thermosil Fine Chem Industries, Pune, India. Distilled water was used throughout this work.

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Principal

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To,

Dr.Shweta Prashant Ghode

Rasiklal M. Dharwal College of Pharmacy,

Pune.

Dear Madam,

On behalf of Jayawant Shikshan Prasarak Mandal's Rajarshi Shahu College of Pharmacy & Research, Tathawade, Pune-33. I am thankful for giving us an opportunity to serve you as a judge for Innovision 2023 " REPLICA" Pharma model competition at our institute on Thursday , 23/03/2023.

Thank you again for your valuable time & cooperation during the event.

Thanking you looking forward to further professional association in future.

J.S.P.M.'s Rajarshi Shahu College of Pharmacy & Research Tathawade Pune - 33.

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OF PARTICIPATION

Harshada Heramb Puranik

has participated in the 03rd International Faculty Development Program **"Emerging Trends in Phyto-Pharmaceutical Research"** organized by Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune - 411 018 (MH) INDIA from 11 March to 28 May 2023. His / Her participation in this programme is highly appreciated.

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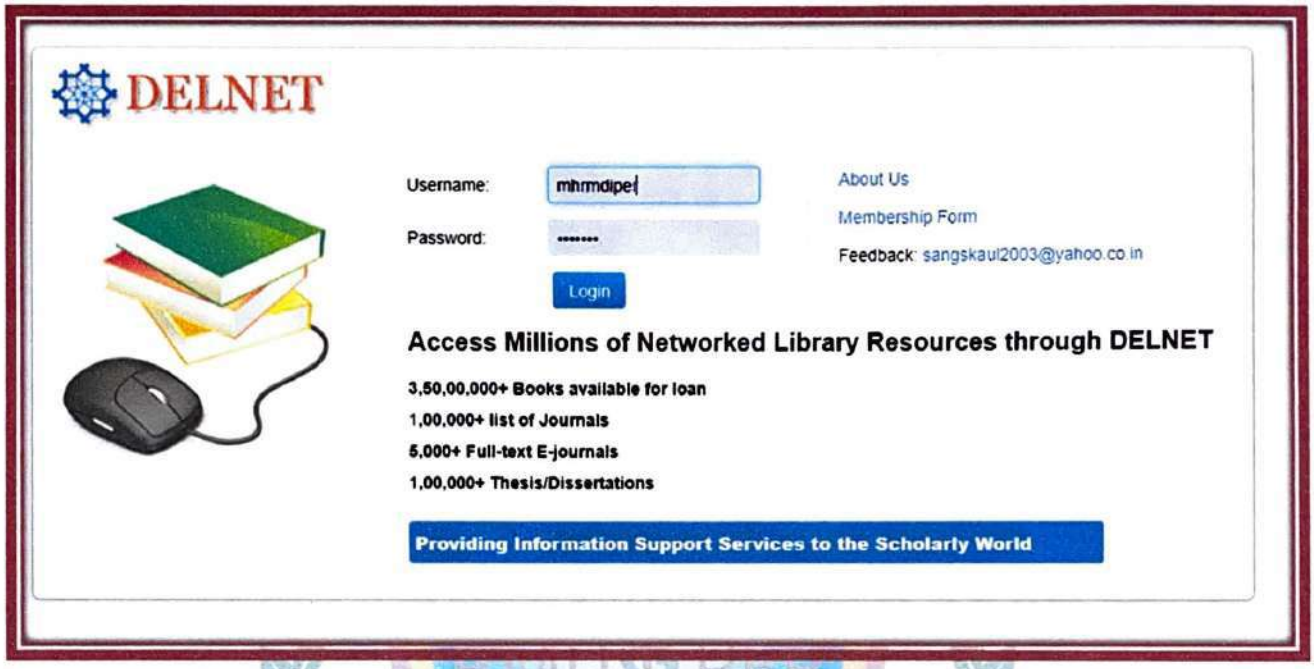

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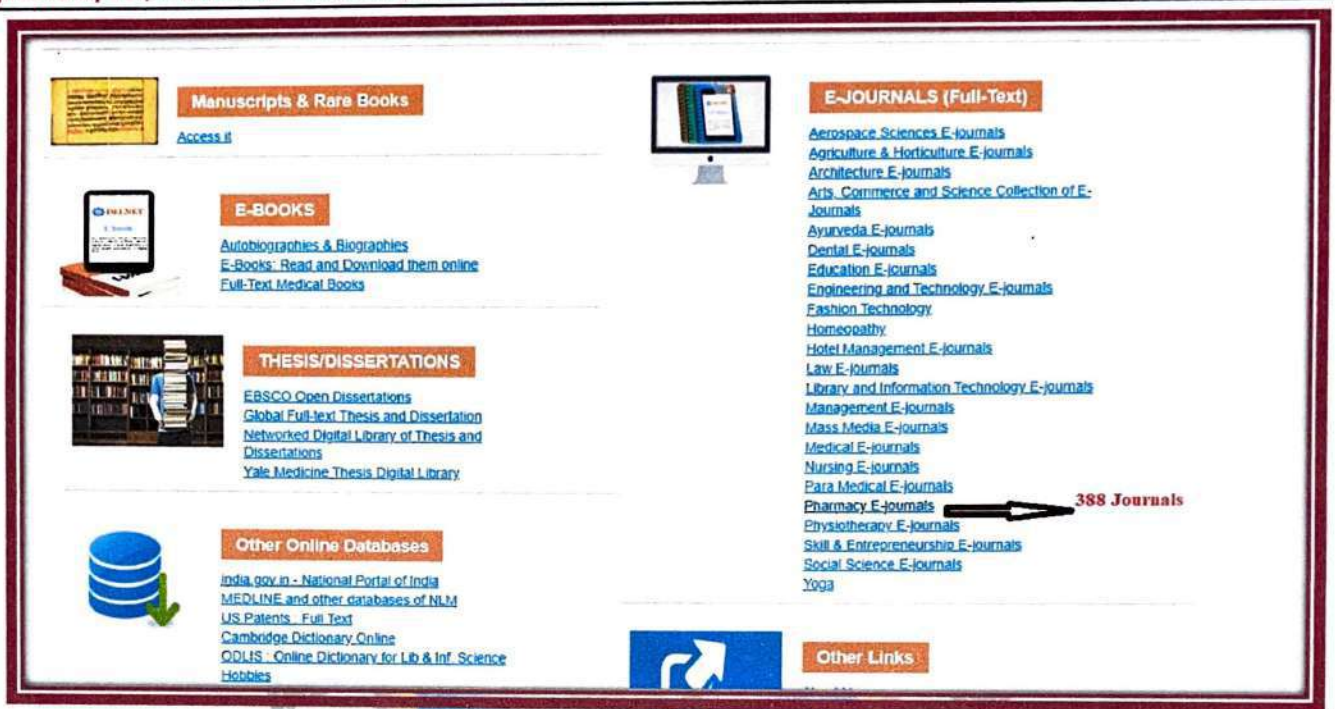

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27	12/08/2022 13:29:43	12/08/2022 15:23:19	1 H, 53 M, 36 S	Site	43.241.132.110
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29	11/08/2022 13:54:01	11/08/2022 14:14:29	0 H, 20 M, 28 S	Site	43.241.132.110
30	11/08/2022 12:36:42	11/08/2022 13:18:27	0 H, 41 M, 45 S	Site	43.241.132.110
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35	02/08/2022 12:30:48			Site	42.108.231.46
36	01/08/2022 12:07:41			Site	43.241.132.110

LIBRARIAN
Rasiklal M. Dhariwal
Institute Of Pharmaceutical
Education & Research
Chinchwad Station,
Pune - 411 019

Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research
B. Pharmacy Library

PRINCIPAL
Rasiklal M. Dhariwal Institute of
Pharmaceutical Education & Research
Chinchwad Station, Pune-411019.

DELNET

DELNET Usage Report
Month :- September 2022
No. of Users of E-access - 48

Customer Log From :- 01/09/2022 To 30/09/2022
IM No :- IM-6709
Institute Name :- Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research

Sr.	From	To	Time Difference	Login Mode	Login IP
1	29/09/2022 11:42:44			Site	43.241.132.110
2	28/09/2022 12:13:46			Site	43.241.132.110
3	23/09/2022 09:46:35			Site	43.241.132.110
4	21/09/2022 10:35:49			Site	43.241.132.110
5	20/09/2022 16:54:49			Site	43.241.132.110
6	19/09/2022 13:10:48			Site	43.241.132.110
7	17/09/2022 11:37:03			Site	43.241.132.110
8	17/09/2022 11:31:19			Site	43.241.132.110
9	17/09/2022 11:06:38			Site	43.241.132.110
10	17/09/2022 10:54:07			Site	43.241.132.110
11	15/09/2022 13:42:48			Site	43.241.132.110
12	14/09/2022 11:08:26			Site	43.241.132.110
13	14/09/2022 10:36:22			Site	43.241.132.110
14	13/09/2022 15:54:34			Site	43.241.132.110
15	12/09/2022 10:29:49			Site	43.241.132.110
16	07/09/2022 11:24:49			Site	43.241.132.110
17	07/09/2022 10:10:48			Site	43.241.132.110
18	06/09/2022 17:14:26			Site	43.241.132.110
19	06/09/2022 15:24:42	06/09/2022 17:37:18	2 H, 12 M, 36 S	Site	43.241.132.110
20	06/09/2022 11:27:59			Site	43.241.132.110

Sr.	From	To	Time Difference	Login Mode	Login IP
21	29/09/2022 11:42:44			Site	43.241.132.110
22	28/09/2022 12:13:46			Site	43.241.132.110
23	23/09/2022 09:46:35			Site	43.241.132.110
24	21/09/2022 10:35:49			Site	43.241.132.110
25	20/09/2022 16:54:49			Site	43.241.132.110
26	19/09/2022 13:10:48			Site	43.241.132.110
27	17/09/2022 11:37:03			Site	43.241.132.110
28	17/09/2022 11:31:19			Site	43.241.132.110
29	17/09/2022 11:06:38			Site	43.241.132.110
30	17/09/2022 10:54:07			Site	43.241.132.110
31	15/09/2022 13:42:48			Site	43.241.132.110
32	14/09/2022 11:08:26			Site	43.241.132.110
33	14/09/2022 10:36:22			Site	43.241.132.110
34	13/09/2022 15:54:34			Site	43.241.132.110
35	12/09/2022 10:29:49			Site	43.241.132.110
36	07/09/2022 11:24:49			Site	43.241.132.110
37	07/09/2022 10:10:48			Site	43.241.132.110
38	06/09/2022 17:14:26			Site	43.241.132.110
39	06/09/2022 15:24:42	06/09/2022 17:37:18	2 H, 12 M, 36 S	Site	43.241.132.110
40	06/09/2022 11:27:59			Site	43.241.132.110
41	05/09/2022 10:07:52			Site	43.241.132.110
42	03/09/2022 11:46:33			Site	43.241.132.110

Sr.	From	To	Time Difference	Login Mode	Login IP
43	02/09/2022 12:29:14			Site	43.241.132.110
44	02/09/2022 12:28:38			Site	43.241.132.110
45	02/09/2022 11:08:26	02/09/2022 12:04:42	0 H, 56 M, 16 S	Site	43.241.132.110
46	02/09/2022 11:05:23			Site	43.241.132.110
47	01/09/2022 10:48:15			Site	43.241.132.110
48	01/09/2022 10:41:51			Site	43.241.132.110

LIBRARIAN
Rasiklal M. Dhariwal
Institute Of Pharmaceutical
Education & Research
Chinchwad Station,
Pune - 411 019

Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research
B. Pharmacy
Library

PRINCIPAL
Rasiklal M. Dhariwal Institute of
Pharmaceutical Education & Research
Chinchwad Station, Pune-411019.

LIBRARY E-JOURNALS SUBSCRIPTION DELNET MEMBERSHIP A.Y. 2022-23

॥ सहनं नाव अवतु सह ॥
ESTD : 8/9/1927

Shri Jain Vidya Prasarak Mandal's
Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research
[Formerly Shri Fattechand Jain College of Pharmacy (B.Pharm.)]

Manikchand

Approved By PCI, AICTE New Delhi, DTE (PH-6823) & Affiliated to Savitribai Phule Pune University (PU/PN/Pharm/448/2014)

Ref: RMDIPER/2021-22 /Lib/ 373 **Date :- 15.06.2022**

To,
Dr. Sangeeta Kaul
DELNET
(Developing Library Network),
JNU Campus, Nelson Mandela Road,
Vasant Kunj,
New Delhi 110070
Ph:- 011-26742222

Subject : Renewal of Institutional Membership of DELNET 2022-23

Dear Ma'am,

As per above mentioned subject, We would like to Renewal of Institutional Membership of DELNET for the period of 15th Feb 2022 to 16th Feb 2023 Details of payment as follows.

Sr. No	Cheque No	Date and Account Details where cheque Deposited.	Amount.
1	473720 Bank of Maharashtra	DELNET CENTRAL BANK OF INDIA Acc. No :- 1065410992 IFS Code :- CBIN0280310 **Date of Cheque Deposited :- 15/06/2022**	Rs. 13570/-

Kindly find the payment details and Renew Membership of DELNET and send payment receipt as soon as possible.

Thanking You,

Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research ★ B. Pharmacy Library

Ms. Supriya Kuber
LIBRARIAN
Rasiklal M. Dhariwal Institute Of Pharmaceutical Education & Research Chinchwad Station, Pune -411 019.

Dr. Sanjay G.Walode
PRINCIPAL
Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research Chinchwad Station, Pune-411018.

Fax No: 020 27354633/27457683 Email: rmdiper@gmail.com
Acharya AnandRushiji Marg, Telco Road, D-2 / 60-61, Chinchwad, Pune-411 019

Dr. Sangeeta Kaul
Director

DELNET
Developing Library Network
J.N.U. Campus, Nelson Mandela Road
Vasant Kunj, New Delhi 110070, India
Tel: 91-11-26742222, 26741266
91-9810329992 (Mobile)
E-mail: sangs@delnet.ren.nic.in,
sangskaul2003@yahoo.co.in
Web: www.delnet.in

DELNET/IM-6709/mhRMDIPERP/MEM/2022 June 18, 2022

Sub: DELNET Membership Renewal

Dear Ms. Kuber,

We acknowledge with thanks the receipt of ₹ 13,570 (₹ Thirteen Thousand Five Hundred Seventy only) received through NEFT dated 16.6.2022 made towards the DELNET Annual Institutional Membership Fee for the period 16.2.2022 to 15.2.2023. The receipt no. 70245 dated 18.6.2022 is enclosed for the office records.

You are requested to access DELNET databases through the World Wide Web using the following procedure:

Web Address: http://www.delnet.in

Click onto "New Discovery Portal". Since the IP address provided by you is not static (broadband), you are requested to use following login & password to access the new discovery portal of DELNET.

Login : mhrmdiper
Password : rmd6709

Kindly note your Inter Library Loan (ILL for Books) Password is **"mhrmdiperlib"** to be used while registering a request. You are also welcome to send us the bibliographical references at **sangs@delnet.ren.nic.in, sangskaul2003@yahoo.co.in** for the resources needed by you. We will try our best to locate these resources. ***Also, a complete user manual on how to access DELNET online databases is available at the Discovery Portal.*** We would further like to inform you that Usage Report can be generated through "**USAGE STATISTICS**" link which appears at the top side of the landing page of the discovery portal. Kindly use the password as **6709***1992** to download the pdf, containing usage report of your institution.

I would like to mention that DELNET provides access to more than three crore catalogue records of books, journals, articles, etc. through Discovery Portal and also more than one crore and fifty lakh full-text e-books, e-journals & e-articles through *Knowledge Gainer Portal*. DELNET also provides Delplus software free of charge for library automation purpose. DELNET Guest House facility at New Delhi can also be availed by member-libraries on payment basis.

I would also like to inform you that DELNET shall be glad to organise a one hour webinar on DELNET Networked Resources and Services at a mutually convenient date and time for the students, faculty, researchers and scholars of "Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research, Pune, Maharashtra". It will help in the effective utilisation of DELNET resources and services.

I am enclosing a poster on DELNET and a Certificate of Membership. Please kindly let us know if you wish to get any books on ILL or the journal articles.

With kind regards,

Yours sincerely,

Sangeeta Kaul

Ms. Supriya Kuber
Librarian
Rasiklal M. Dhariwal Institute of Pharmaceutical Education & Research
D-2/60/61, Acharya Anand Rushiji Marg
Telco Road, Chinchwad Station
Pune-411019
Maharashtra

Encl: (1) Receipt no. 70245 dated 18.6.2022 of ₹13,570
(2) Tax Invoice
(3) DELNET Poster
(4) Certificate of Membership

No.: **Receipt No./70245/2022-23** Dated **18-Jun-22**

DELNET- Developing Library Network
Jawaharlal Nehru University Campus
Nelson Mandela Road, Vasant Kunj
New Delhi-110070
State Name : Delhi, Code : 07

Receipt

Received with thanks from : **RASIKLAL M. DHARIWAL INST. OF PHAR. EDU. & RES.**
D-2/60/61, ACHARYA ANAND RUSHIJI MARG
TELCO ROAD, CHINCHWAD STATION, PUNE
[DELNET MEM NO. IM-6709]

The sum of : **Indian Rupees Thirteen Thousand Five Hundred Seventy Only**

By : RASIKLAL M. DHARIWAL INST. OF PHAR. EDU. & RES.; Bank of Maharashtra (India)
Inter Bank Transfer [redacted] 16-Jun-22 **13,570.00**

Remarks : **AMOUNT RECEIVED TOWARDS ANNUAL INSTITUTIONAL MEMBERSHIP FEES FOR THE PERIOD 16.02.2022 TO 15.02.2023**

****₹ 13,570.00/-**

Auth ory

***Subject to Realisation*

Tax Invoice

DELNET- Developing Library Network Jawaharlal Nehru University Campus Nelson Mandela Road, Vasant Kunj New Delhi-110070 GSTIN/UIN: 07AAAAD2288G1ZV State Name : Delhi, Code : 07	Invoice No. **DEL/2022-23/882**	Dated **18-Jun-22**
		Mode/Terms of Payment
	DELNET MEM. No. **IM-6709 dt. 18-Jun-22**	Other References
Buyer (Bill to) **RASIKLAL M. DHARIWAL INST. OF PHAR. EDU. & RES.** D-2/60/61, ACHARYA ANAND RUSHIJI MARG, TELCO ROAD, CHINCHWAD STATION, PUNE, [DELNET MEM NO. IM-6709] State Name : Maharashtra, Code : 27 Place of Supply : Maharashtra	Buyer's Order No.	Dated
	Terms of Delivery	

Sl No.	Particulars	HSN/SAC	GST Rate	Rate	per	Amount
1	**IM FEE 2022-2023**	998431	18 %			**11,500.00**
						11,500.00
	IGST PAYABLE			*18*	%	**2,070.00**
	Total					**₹ 13,570.00**

Amount Chargeable (in words) *E. & O.E*

Indian Rupees Thirteen Thousand Five Hundred Seventy Only

HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
998431	11,500.00	18%	2,070.00	2,070.00
Total	**11,500.00**		**2,070.00**	**2,070.00**

Tax Amount (in words) : **Indian Rupees Two Thousand Seventy Only**

DELNET's Bank Details
A/c Holder's Name : **DELNET**
Bank Name : **Cental Bank of India**
A/c No. : **1065410992 (Saving Bank)**
Branch & IFS Code : **Khan Market Branch & CBIN0280310**

for DELNET- Developing Library Network

Authorised Signatory

DELNET-Developing Library Network

DELNET-Developing Library Network
JNU Campus, Nelson Mandela Road
Vasant Kunj, New Delhi-110070