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Gurunanak College of Pharmacy

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EDITORIAL BOARD



Dr. Subhash R. Yende
(Assistant Professor)



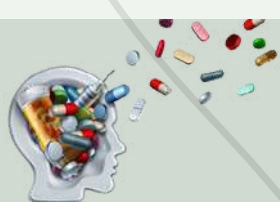
Dr. Vaishali A Kilor
(Associate Professor)



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Mr. Snehal J. Shrivastav
(Assistant Professor)



TECHNICAL ARTICLE

Human Metapneumovirus (HMPV): An Overview

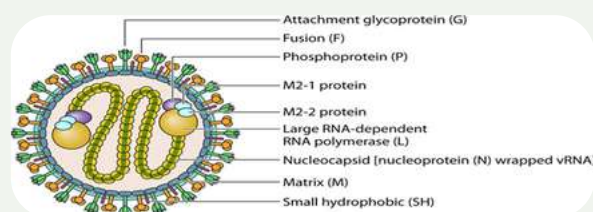
Introduction:

Human metapneumovirus (hMPV) is one of the viruses that causes the common cold (upper respiratory infection). The virus belongs to the Pneumoviridae family of viruses, along with respiratory syncytial virus (RSV). It was first identified in 2001 and has been spreading among people for many decades. It is found around the world. It spreads like other common cold viruses do, through infectious respiratory particles that spread through the air from a sick person to others.

Studies show that in temperate regions, hMPV mainly spreads in late winter and spring, at the same time as other common respiratory viruses such as seasonal flu and RSV. However, it continues to spread at lower levels and makes some people sick all year around.

Human metapneumovirus is a common cause of upper respiratory infections among infants and children under 5 years old. While anyone can catch hMPV, infants, older adults, and those with health conditions like immunosuppression, chronic obstructive pulmonary disease (COPD) and asthma are at higher risk for severe illness. Extra care should be taken to protect at-risk groups and health care workers from any respiratory infections.

A polymerase chain reaction (PCR) test is the most reliable way to diagnose hMPV, giving accurate results within a few hours.



Symptoms of hMPV

People infected with hMPV will have cold or flu-like symptoms such as Cough, fever, sore throat, runny or stuffy nose, body ache, headache. It can make a few people quite sick, causing infection of the lung (pneumonia) or inflammation of the airways to the lungs (bronchiolitis, bronchitis). Symptoms of more severe disease include wheezing, difficulty breathing, chest pain, dizziness, severe fatigue, dehydration, or a persistent fever that does not improve. If someone is experiencing any of these severe symptoms, they should seek medical advice.

Prevention of hMPV infection

wearing a mask in crowded or poorly ventilated spaces

improving ventilation where possible (such as by opening a window for air flow)

cleaning hands regularly and thoroughly, with either soap and water or an alcohol-based hand rub avoiding touching eyes, nose or mouth without cleaning hands first.

Treatment of hMPV infection

As hMPV is a cold virus, people can treat their symptoms with over-the-counter medicines to treat pain, fever, stuffy nose and cough. Getting plenty of rest and staying hydrated also helps. Currently, there is no approved antiviral medicine for HMPV. Most people feel better in a few days. If symptoms get worse, they should contact their health care provider. Those who are at higher risk should also consult their doctor, even if their symptoms are not too bad.

Within certain patient populations, hMPV can cause severe illness requiring hospitalization. Among those are patients who are immunocompromised or have a pre-existing cardiac or respiratory condition. These patients are more susceptible to developing acute respiratory failure requiring high flow oxygen support, with some patients even deteriorating enough to require mechanical ventilation.

(This information is compiled by Mr. Pranav S. Waghe, Mr. Rushabh G. Futane & Mr. Yash R. Kondawar; M. Pharm (RA) 1st year, GNCP, Nagpur)



3D printing and its impact on pharmaceuticals

3D printing technology is used to prepare an personalized 3D Printed drug through an computer-aided design model. This process is also called as additive manufacturing technique, rapid prototyping and solid free form fabrication. 3D printing technology is a truly innovative and has emerged as a versatile technology stage. 3D printing process was first commercialized by Charles Hull in 1980. 3D printing opens new opportunities and gives hope to many possibilities for companies looking to improve manufacturing efficiency.

Three-dimensional printing technologies have been used to manufacture a variety of medicinal products, such as immediate-release tablets, controlled-release tablets, dispersible films, microneedles, implants, and transdermal patches. There are 6 main types of 3D printing methods explored in pharmaceuticals such as Binder jet printing, Fused deposition modelling, Semi-solid extrusion, Direct powder extrusion, stereo-lithography, Selective laser sintering. Each type has its own advantages and disadvantages and work on different mode of action. In general the benefits of 3D printing are Dosage-specific parameters, Unique dosage forms on demand, Faster trials, Micro-dosing without oxidation, Non-contact processing, Increased solubility, Repeatable accuracy.

Applications of 3D printing in pharmaceuticals

- 1. Personalized medicine :-** Standardized dosages produced by traditional drug production might not be appropriate for every patient. 3D printing allows the creation of customized medications tailored to an individual's specific needs. Advantages include Precise dosing, Better patient compliance and Minimized side effects.
- 2. Controlled drug release :-** Some medications need to be released at specific times or at different rates in the body. 3D printing allows precise control over how and when the drug is released. Advantages includes Extended drug action, Minimized side effects, Painless delivery.
- 3. On-demand drug manufacturing :-** Traditional drug production requires large-scale facilities and distribution networks. 3D printing enables medications to be manufactured locally or even in remote areas. Benefits includes Improved accessibility, lower production costs, Faster drug availability.
- 4. Complex drug formulations :-** Some drugs have low solubility or require precise combinations of active ingredients. 3D printing enables the creation of complex drug formulations that were previously impossible. Advantages include Better drug absorption, Fewer side effects, Enhanced Drug stability.
- 5. Biomedical research & drug development :-** 3D printing accelerates the drug discovery process by enabling rapid testing of new medications on printed tissues or models. Benefit includes Improved drug accuracy, Reduce animal testing, Speeds up drug development.
- 6. Pediatric & Geriatric medicines :-** Children and elderly patients often struggle with large pills or specific drug formulations. 3D printing allows for patient-friendly medication designs. Advantages include Improved patient compliance, Custom dosage, Better taste and texture.

(This information is compiled by Pranjali Kapgate (M. Pharm- chem) & Tushar Moon (M.Pharm-Ceutics))



ACCOLADES/ACHIEVEMENTS



Gurunanak College of Pharmacy was selected as a finalist in the CPHI India Pharma Awards under the category of "Outstanding Contribution to Pharmaceutical Research by Academic Institutes." The nomination was awarded for the research project titled, "Industrial Scale-Up of Medicine Printing Technique for Oral Thin Films." This innovative technology, developed by Dr. Nidhi Sapkal, Dr. Vaishali Kilor, and Ms. Farheen Bano, was later successfully transferred to Zim Laboratories Limited, Nagpur. A key highlight of this project is the use of indigenously developed machines and software, showcasing a significant advancement in pharmaceutical research.

Ms. Priya Dule, Research Scholar of GNCP, was awarded PhD degree from RTM NAGPUR University, Nagpur under the guidance of Dr. V. A. Kilor.

Dr. Keshav Moharir and Dr. Shobha Ubgade has received Recognition as Ph.D. Supervisor in Pharmaceutical Sciences by RTMNU, Nagpur

Congratulations



Dr. Keshav S. Moharir

for being appointed as
Controller of Examination,
Kavikulguru Kalidas Sanskrit University,
Ramtek, Maharashtra.

Congratulations



Mariya Amravatiwala
2nd University Topper



Amaan Sheikh
3rd University Topper

for being the
University Topper in B. Pharm Eight Semester
2024 Examination Conducted by
Rashtrasant Tukadoji Maharaj Nagpur
University

Congratulations



Sarpreet Kaur Multani
University Topper

for being the
University Topper in B. Pharm Sixth Semester
2024 Examination Conducted by
Rashtrasant Tukadoji Maharaj Nagpur
University

EVENTS ORGANIZED



INTERNATIONAL YOGA DAY

International Yoga Day was organized on 21 June 2024 in the college premises with great enthusiasm. Students and staff members gathered and performed Sukshma vyayam, asanas and pranayama. Dr. Keshav Moharir and Dr. Subhash Yende conducted the proceedings of the event.

ORIENTATION PROGRAM M. PHARM SEM-III

Orientation Program for all the students of M.Pharm SEM-III was organized by program committee (P.G.) and IQAC from 25th June 2024 to 28th June 2024, in the seminar hall of Gurunank college of Pharmacy. The program was conducted well before the submission of a synopsis on the research topic by the students with the objective of helping them understand the nature of their course, to guide them with the proper methods of literature search, to know the importance and conduction of preclinical studies, analytical studies, use of referencing tools, and use of Artificial Intelligence in the research. Guidance was provided by the faculty members of Gurunank college of Pharmacy, Nagpur as well as Gurunanak Technical Institute, Nagpur.



HAR GHAR TIRANGA ABHIYAN

On August 14, 2024, Guru Nanak College of Pharmacy, Nagpur, organized the Har Ghar Tiranga event, led by the NSS Council, to celebrate India's Independence Day. Faculty members, students, and NSS volunteers gathered with the National Flag, honoring the spirit of patriotism. NSS Incharge Utsavi Vaghela delivered an inspiring speech on the sacrifices of freedom fighters and the significance of the Tiranga. A patriotic walk within the campus symbolized unity and national pride, culminating in the singing of the National Anthem. Organized under the guidance of Dr. Vipin B. Pande, the event reinforced the values of democracy and freedom.



EVENTS ORGANIZED

TEACHER'S DAY CELEBRATION

The teacher's day celebration was organized on 5 September 2024 by student council in Sardarni Paramjeet Kaur Kalsi Auditorium. The event was started with welcome song (group) for principal sir and faculty members. Felicitation of Dr. Ittadwar sir (Principal, GNCP) was done by Saharsh Sahu (President, Student council) and Dr. Tillo sir (Principal, GNTI) by Lavesh Lalwani (Diploma CR). All the teaching faculty of degree and diploma was felicitated by student council. A gesture of gratitude toward principal sir and faculty members was presented through a video message from alumni students. The game of antakshari was organized for teachers. The event was concluded with a beautiful dance performance.

The teacher's day ceremony was followed by the establishment of student council 2024-2025.

The President - Mr. Saharsh Sahu

The Vice-President-Mr. Sanket Parikh

The General Secretary-Miss Somiya Khan

The Cultural-Incharge, Mr. Ashutosh Batra

The NSS-Incharge, Miss Utsavi Vaghela

The Sports-Incharge, Mr. Om Karnewar

The Lady Representative, Miss Aakansha Thakur

The Caste Representative, Mr. Tushar Moon

The Broadcasting Committee Head, Mr. Tanmay Anturkar

The Arts Committee Head, Miss Lata Motwani

The Discipline Committee Head, Mr. Anurag Wath

The C.R. of M.Pharm Q.A, Miss Aakansha Thakur

The C.R. of M.Pharm Chemistry, Mr. Lokesh Makode

The C.R. of M.Pharm Pharmaceuticals, Mr. Tushar Moon

The C.R. of Degree 4th year, Miss Akansha Dafare

The C.R. of Degree 3rd year, Mr. Anurag Wath

The C.R. of Degree 2nd year, Mr. Sumeet Harode

Dr. S. R. Manapure, Student Council Incharge, explained the importance of student council.



EVENTS ORGANIZED



GANAPATI FESTIVAL

The Ganesh Utsav was organized by student council on the occasion of Ganesh Chaturthi, from 7th September to 9th September 2024 in Sardarni Paramjeet Kaur Kalsi Auditorium.



NIPAM AWARENESS CAMPAIGN

GNCP proudly hosted an awareness webinar "Nurturing Ideas to Innovation: Lab to market: Leveraging IP" in association with Intellectual Property Group (IPG) of CSIR-NCL, Pune under the aegis of National Intellectual Property awareness Mission 2.0 (NIPAM) on 06/09/24. Dr. Mrs. Nitin Tiwari, Head IPG, NCL and Mr. Ashutosh Prachand, Invention Consultant, Knotty IP were the speakers for the webinar. Dr. Nitin spoke on Introduction to IPR and types of IP. Mr. Ashutosh spoke on Patentability of Inventions. To take the momentum of IP training in the country ahead, the event was organized and more than 300 registrations from and across the state were received.





EVENTS ORGANIZED

BLOOD DONATION ON WORLD PHARMACIST DAY

On September 25, 2024, Guru Nanak College of Pharmacy and Guru Nanak Technical Institute, Nagpur, successfully organized a Blood Donation Camp in collaboration with Dr. Hedgewar Blood Bank, Nagpur, to mark World Pharmacist Day. The event aimed to raise awareness about blood donation and provide an opportunity for students, faculty, and staff to contribute to this noble cause. It was inaugurated by Dr. A.M. Ittadwar, Principal of GNCP, and S.K. Tiloo, Principal of GNTI, who emphasized the importance of selfless service and regular blood donation in saving lives. A medical team from Dr. Hedgewar Blood Bank facilitated the donation process, ensuring thorough health check-ups for donors. The camp saw an overwhelming response, with 100 units of blood collected by the end of the day. NSS volunteers, under the guidance of Dr. Vipinchandra B. Pande, played a crucial role in organizing and managing the event. The camp highlighted the vital role of blood donation in medical emergencies and promoted a culture of giving and community support. The Dr. Hedgewar Blood Bank expressed gratitude to the college administration, donors, and volunteers for their efforts in making the event a grand success. This initiative reinforced values of compassion and responsibility within the college and laid the foundation for similar events in the future.



EVENTS ORGANIZED



SWACHH BHARAT ABHIYAN

On October 3, 2024, Guru Nanak College of Pharmacy (GNCP), Nagpur, celebrated Gandhi Jayanti by organizing a Swachh Bharat Abhiyan under the guidance of NSS Incharge Dr. Vipin B. Pande. The event, led by the NSS Unit, aimed to promote cleanliness and environmental awareness, aligning with Mahatma Gandhi's vision of a clean India. The campaign began at 4 PM, with students, faculty, and staff actively participating in a cleanliness drive at the playground. Equipped with gloves, masks, and trash bags, volunteers meticulously collected plastic bottles, wrappers, and other waste, filling approximately five to six large bags. The collected waste was responsibly disposed of, ensuring proper waste management. The initiative not only resulted in a cleaner campus but also reinforced the importance of maintaining public spaces. The event concluded with participants pledging to uphold cleanliness in their daily lives, emphasizing the impact of small actions in creating a sustainable future. The Swachh Bharat Abhiyan at GNCP successfully instilled a sense of responsibility among participants, making a meaningful contribution toward a cleaner and healthier India.





EVENTS ORGANIZED

GARABA CELEBRATION

The garba celebration was organized by student council on the occasion of navratri, on 7th October 2024 in Sardarni Paramjeet Kaur Kalsi Auditorium



“Productivity is never an accident. It is always the result of a commitment to excellence, intelligent planning, and focused effort.”

-Paul J. Meyer

COURSE CONDUCTED



APPLICATIONS OF COMPUTATIONAL TECHNIQUES IN DRUG DESIGN & DISCOVERY

GNCP, Nagpur hosted a five-day certificate course on "Applications of Computational Techniques in Drug Design & Discovery" from August 21st to 25th, 2024. The workshop attracted 39 participants, including B.Pharm and M.Pharm students, faculty members, Ph.D. scholars, and principals from various institutions. The course featured esteemed resource persons, including

Dr. Sapan K. Shah, Assistant Professor at J.L. Chaturvedi College of Pharmacy, Nagpur;

Dr. Sumit K. Arora, Assistant Professor at Gurunanak College of Pharmacy, Nagpur;

Dr. Subhash Yende, Assistant Professor at Gurunanak College of Pharmacy, Nagpur; and

Dr. Nidhi Sapkal, Professor at Gurunanak College of Pharmacy, Nagpur.

Participants gained comprehensive knowledge of molecular docking, focusing on proteins, ligands, and the software tools essential for these studies. The course covered in silico molecular docking using Vina and Chimera software, guiding attendees through protein and ligand selection, docking preparation, and binding energy calculations. Additionally, virtual screening, visualization techniques, ADMET property analysis and software utilized for drug designing were explored using various advanced software tools. The resource persons also provided valuable guidance on compiling research data into effective scientific manuscripts. The workshop emphasized hands-on training, with participants' understanding evaluated through a comprehensive 100-mark assessment. Dr. Abhay M. Ittadwar served as the convenor, while Dr. Nidhi Sapkal, Dr. Sumit Arora, and Dr. Subhash Yende coordinated the program effectively.





COURSE CONDUCTED

SHORT TERM CERTIFICATE COURSE ON IPR

Gurunanak College of Pharmacy had conducted a Short-Term Certificate Course of 2 credits in collaboration with PathtoIP, Pune on 'Intellectual Property Rights' in college campus from 23 to 27 September 2024. Around 35 participants registered for this course which provided them with comprehensive overview of IPR. The diverse category of participants included undergraduate, postgraduate, PhD scholars and faculty from pharmacy institutions across Nagpur. Mrs Kawita Kanoje and Nidhi Agrawal, Co-founders, Pathto IP gave meaningful insights to the participants about different types of IPR, Patents, IP Infringement, Compulsory Licensing and many more. The entire course was designed and structured to match the needs of outcome based learning. Five days schedule covered sessions, hands on training, activities and assignments to impart experiential learning to participants. A special session on Navigating IPR in Pharma Industry was also conducted to give participants a real world experience during the course schedule. Dr. Minal Bonde, Manager, R and D (ODS), Zim Laboratories Limited, Nagpur shared her experiences about the importance of creating IP and its utility in Product development and commercialisation. Final day of the course witnessed presentation by participants as major assessment which was adjudged by Dr. Veena Belgamwar, Professor, UDPS, RTMNU, Nagpur. All the participants were graded and certificates were presented on the completion of the credit course. The event was successful under the able guidance of Principal Dr. Abhay Ittadwar and coordinated efforts of the organizing team.



INDUSTRIAL VISIT



GenNext Genomics Pvt. Ltd.

On July 29, 2024, a group of 33 students and faculty members (Dr. Vaishali Killor, Dr. Nidhi Sapkal, Dr. Sheelpriya Walde, Dr. Keshav Moharir, Dr. Krishnakant Bhelkar) from our institution visited Gennext Genomics Pvt Ltd, located at Neri Mankar, Amaravati Road, Nagpur, Maharashtra. A comprehensive overview of various aspects of biological drug development was provided by their staff. The information was given related to libraries, recombinant proteins, production processes and applications in therapeutic contexts, development and applications of monoclonal antibodies and their role in targeted therapies. Further, insights related to ongoing projects within the company, advanced equipment and technologies employed in their research processes was elaborated by Dr. Supriya Khashikar CEO of GeNext Genomics.





GUEST LECTURE ORGANIZED

Deepraj Tayade, GNCP alumni delivered guest lecture on **Generation and commercialization of Ideas and innovation** for entrepreneurs on 03/07/2024.

Legal Literacy: Empowering students with key Indian Legislations

Guest lecture on the topic "Legal Literacy: Empowering students with key Indian Legislations" was organized on 24 July 2024. Advocate Gauri Venkataraman, Ex-President, HCBA, Nagpur delivered the session with focus on awareness about important constitutional rights, duties and key laws relevant to the youth of the country. Around 70 students attended the awareness lecture.



Career Counselling and GPAT Exam Guidance

The Guidance and Counselling Cell for Higher Education of GNCP organized a guest lecture on Career Counselling and GPAT Exam Guidance for final-year B.Pharm students on 12th December 2024. The session was conducted by Dr. Maimuna Bombaywala, a renowned educator and mentor. She provided insights into various career opportunities in the pharmaceutical industry, including higher education, research, regulatory affairs, marketing, and entrepreneurship.

Dr. Bombaywala emphasized aligning personal interests with career goals and shared real-life success stories to inspire students. She also introduced her "GPAT Jugaad" techniques, offering simplified strategies for GPAT preparation and providing students with 1-month access to a daily test series. The session concluded with an interactive Q&A session, where students appreciated the guidance and motivation. The event was coordinated by Dr. Sumit Arora and Ms. Pranali Band.



RESEARCH & DEVELOPMENT ACTIVITIES

RESEARCH PUBLICATIONS

1. Krishna R, Jadhav M, Sivasubramanian R, Sunkara G, Gota V, Niranjana V, Dhote V, Sapkal N, Rege NN, Sethi S, Medhi B, Kshirsagar N, Parmar D. Advancing pediatric drug development in South Asia: Current landscape and vision for the future. Indian J Pharmacol. 2024, 1;56(4), 285-289. doi: 10.4103/ijp.ijp_396_24. Epub 2024 Sep 10. (Impact factor: 1.4)
2. Suhas P. Padmane, Sharad R. Manapure, Jyotiram A. Sawale. Comparative anti-inflammatory property of sterol and non-sterol fractions from *Amorphophallus campanulatus* Roxb tuber. Research Journal of Pharmacy and Technology, 2024, 17(10), 5036-5040.
3. Jyotiram A. Sawale, Sandip R. Fulzele, Suhas P. Padmane. Effect of Agitation Speed: Three Different Dissolution Methods on in-vitro Release of Plain Disulfiram Implant. Research Journal of Pharmacy and Technology, 2024, 17(7), 3163-3168.
4. Khushbu R. Pandhare, Shivam S. Domkokvar, Suhas P. Padmane, Sheelpriya R. Walde. Advances in Gel Nanotechnology for Topical Drug Delivery: Applications, Formulation Strategies and Future Prospects. Bulletin for Technology and History Journal. 2024, 24(10), 87-105.

RESEARCH PRESENTATIONS

Following M. Pharm (Pharmaceutics) students presented poster at International Conference on Drug Discovery, Delivery and Diagnostics (ICD4-2024), organized by NIPER, Hyderabad on 9th and 10th August 2024.

S.N.	Name of authors	Title of paper
1	Tushar Moon*, Ojaswini Gohatre, Vaishali Kilor, Keshav Moharir	Formulation and evaluation of ionic liquid to combat Pathogenic bacterial biofilm
2	Mitali Tembhurne*, Apurva Fasate, Sakshi Dhonge, Vaishali Kilor, Nidhi Sapkal	In-vivo screening of herbal ingredients for developing topical formulation to treat Aphthous stomatitis
3	Ritik Bobde*, Minal Raut, Farheen Bano Khan, Nidhi Sapkal, Vaishali . Kilor, Avinash Mandloi	Formulation and Evaluation of <i>Bacopa monnieri</i> Immediate-Release Pellets for Treating Dementia.
4	Sakshi S Deulkar*, Sneha Gahane, Vaishali Kilor, Nidhi Sapkal	A Novel Wound Healing Topical Formulation containing Herbal Components
5	Shubham B Popalghat*, Akshay Ramteke, Mitali Bodhanakar	To prepare In-Situ Liposomal Gel for Vaginal Candidiasis

RESEARCH & DEVELOPMENT ACTIVITIES

S.N.	Name of authors	Title of paper
6	Vishwalini C Rangari*, Govind Lohiya, Mohit Saktel	Formulation Optimization of Silver Nanoparticles Topical Spray Preparation for Skin Burn
7	Yogita Dakhole*, Shubham Kamble, Govind Lohiya	Formulation and Evaluation Nano Metal-Quercetin Complex as AntiCancer Agent
8	Mayuri S Bodhe*, Sakshi Dhonge, Apurva Fasate, Vaishali Kilor, Nidhi Sapkal	Scale Up and Process Validation of Topical Gel for treatment of Aphthous Stomatitis
9	Rutuja D. Upparwar, Abhishek B. Joshi, Vaishali A. Kilor, Nidhi P. Sapkal.	Formulation development of oral formulation of hesperidin with enhanced efficacy in hemorrhoids
10	Kishor P Khandait*, Nayan Ghime, Govind Lohiya	Formulation evaluation of Carica Papaya, Triticum Aestivum Herbal Formulation for Cervical Cancer finalised by In-silico Docking
11	Neha Y. Ghotekar*, Vishvas Bhadre, Pournima Shrikhande, Vaishali Kilor.	Development Of Topical Formulation Of Sapindus Mukorossi Seed Oil For Antipsoriatic Activity
12	Pooja Rajak*, Dishant Dabhade, Pravin Admane, Nidhi Sapkal, Vaishali Kilor	Development of 2D printed film for transmucosal administration
13	Darshana Patale*, Shruti Parshuramkar, Tushar Kapsikar, Tanmay Garode, Shoeb Khan, Krishnakant Bhelkar	Formulation and evaluation of glucosamine sulphate gel From Agaricus bisporous
14	Srushti M. Soitkar, Ayushi P. Chaudhary, Mitali Bodhankar	Design and Development of Oral Formulation for Post Menopausal Osteoporosis.
15	Chaitali Pendam*, Abhijeet Shinde, Pravin Admane, Nidhi Sapkal, Vaishali Kilor	Development And Evaluation of Delayed Release Oral Films Using Printing Technique

"Before you treat a man with a condition, know that not all cures can heal all people. For the chemistry, that works on one patient may not work for the next, because even medicine has its own conditions.

- Suzy Kassem

RESEARCH & DEVELOPMENT ACTIVITIES

CONFERENCE/WORKSHOP/SDP/QIP/SHORT-TERM TRAINING ATTENDED BY FACULTIES

- Dr. M. M Bodhankar participated in Faculty Development Program on Enhancing Faculty expertise in pharmaceutical sciences and clinical education, conducted by Malla Reddy college of Pharmacy, from 16/10/24 to 21/10/24.
- Dr. M. K. Bhurchandi attended FDP on Effective manuscript drafting and ethical application of AI for ethical publication in peer-review international journal organized by Eudoxia Research University, USA & Eudoxia Research center, India from 30/09/24 to 08/10/24.
- Dr. Shobha Ubgade attended National Conference on Empowering Women and innovating Sustainability- Bridging Lab and Land for Viksit Bharat on 26 July 2024 held at UDPS, RTMNU, Nagpur and organized by Pratibha Shakti, Nagpur.
- Dr. V. A. Kilor participated in Five days National Online Faculty Development Programme, organized on, "Harnessing AI in Revolutionizing Pharmaceutical Education and Research", from 05/08/2024 to 09/08/2024, organized by School of Pharmacy, PP Savani University, Surat, Gujrat.
- Dr. Subhash R. Yende and Dr. Shilpriya R. Walde attended 'Training of Trainers' for Continuous Educational Program conducted by Maharashtra State Pharmacy Council's Drug Information Centre on 30/06/2024.

GUEST LECTURE DELIVERED/ RESOURCE PERSON

- Dr. M. M Bodhankar delivered a guest lecture on topic Ethical practices in healthcare and role of pharmacist in RTMNU approved certificate course on Elevating ethical practices in pharmaceutical sciences organized by DBCOP, Besa, Nagpur on 03/10/2024.
- Dr. Subhash R. Yende delivered a talk on "Pharmacokinetic and Toxicity profiling" in a certificate course on CADD, organized at GNCP, Nagpur on 24/08/2024.
- Dr. Sumit K. Arora Invited as a Resource Person for the talk on & Utilizing Chimera and Autodock Vina Software for Molecular Docking, as a part of the & Molecules to Manuscript: Exploring Molecular Docking, ADMET Screening, and Publishing Strategies & Course, hosted by Quick Learn 360 from December 02nd to 6th , 2024.
- Dr. Sumit K. Arora honored to be invited as a Resource Person for the one-week workshop on Computer-Aided Drug Designing (CADD) at the School of Pharmacy, SRTM University, Nanded, on October 26, 2024. Conducted a session from 11 a.m. to 5 p.m. on the Application of Drug Design in Computational Techniques, featuring hands-on training with Chimera and AutoDock Vina.
- Dr. Sumit K. Arora delivered a guest lecture at Priyadarshini J.L. College of Pharmacy, Nagpur, on Streamlined GPAT Preparation: Essential Tips for Success on October 19, 2024.

RESEARCH & DEVELOPMENT ACTIVITIES

- Dr. Sumit K. Arora invited as a Resource Person at the Two-Day National Conference on Innovation, Skill Development, and Recent Trends in Academic Pharmaceutical Research, hosted by Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari for the talk on "Zotero: Tips for Effective Reference Management and Citation" on 4 th October 2024.
- Dr. Sumit K. Arora Delivered a session on 20th September 2024 at Adarsh Institute of Pharmacy, Nagpur. The session was filled with insightful discussions on effective strategies for acing GPAT and navigating exit exams with confidence on Brainstorming Session: Mastering GPAT and Exit Exams for Excellence.
- Dr. Sumit K. Arora Invited as a Resource Person at the Two-Day National Conference on "Innovation, Skill Development, and Recent Trends in Academic Pharmaceutical Research," hosted by Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari for the talk on "Zotero: Tips for Effective Reference Management and Citation" on 4th October 2024
- Dr. Sumit K. Arora Delivered a session on 20th September 2024 at Adarsh Institute of Pharmacy, Nagpur. The session was filled with insightful discussions on effective strategies for acing GPAT and navigating exit exams with confidence on "Brainstorming Session: Mastering GPAT and Exit Exams for Excellence."
- Dr. Sumit K. Arora Delivered a guest lecture on 5th September 2024 at K.C. Bajaj College of Pharmacy & Research, Jaripatka, Nagpur. It was an enriching experience interacting with bright minds during the session on "Brainstorming Session with Impact on Personality Development."
- Dr. Sumit K. Arora Trained participants in practical skills on "Molecular Docking using Chimera Software" during the Certificate course on "Application of Computational Techniques in Drug Design and Development," Organized by Gurunanak College of Pharmacy, Nagpur, from August 21st-25th, 2024.
- Dr. Sumit K. Arora Delivered a session on "AI-Powered Solutions for Researchers and Reference Management Software: Zotero" at C P and Berar College, Nagpur, as part of the Pre-PhD Course Work on August 21, 2024
- Dr. Sumit K. Arora Delivered a guest lecture on "Insights for Efficient GPAT Preparation" at BCYRC's KDK College of Pharmacy & Research Institute, on August 17, 2024.
- Dr. Sumit K. Arora Highlighted key insights on "Mastering Research with Zotero: A Guide to Reference Management" at the School of Pharmacy, G H Raison University, Saikheda, M.P., on August 16, 2024.
- Dr. Sumit K. Arora Shared talk on "Optimized Study Techniques for Successful GPAT Preparation with the students of Shree Sainath College of Pharmacy on August 10, 2024.
- Dr. Sumit K. Arora Delivered a talk on "Unlocking GPAT Success: Strategies for effective Preparation at Bhausahab Mulak College of Pharmacy, Umrer on August 09, 2024.
- Dr. Sumit K. Arora delivered a presentation and hands on training on "Use of AI tools for Literature Survey" at the Research Vidya Platform, established by Dr. Ashish Linge Sir, on August, 2nd, 2024.
- Dr. Sumit K. Arora Delivered a session on 'How to perform Literature Survey with special emphasis on AI tools' as part of the short term training programme on Research Methodology for faculties of Sciences on 9th of July 2024 organized by UGC Malaviya Mission Teacher training Centre, Rashtrasant Tukadoji Maharaj Nagpur University.



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