

Pharmavision @ MJPRU

NEWSLETTER

of

Department of Pharmacy



ACHIEVING ANOTHER MILESTONE WITH NAAC ACCREDITATION

A Glimpse of the issue

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A Message from the Desk of Head of Department



Dear Students, Faculty, and Esteemed Readers,

Warm greetings to all!

It gives me immense pleasure to share with you the highlights and achievements of the Department of Pharmacy for the first half of the year 2023. This period has been both dynamic and rewarding, marked by significant academic, co-curricular, and institutional milestones.

One of the most noteworthy events was the successful completion of the **NAAC (National Assessment and Accreditation Council) inspection** in May 2023. I am proud to state that our department received commendations for its robust academic processes, active student engagement, and dedicated faculty. The inspection provided us with valuable feedback, helping us reaffirm our strengths and identify areas for continued growth.

Academically, the department continued to strive for excellence. Several **guest lectures, workshops, and faculty development programs** were organized, fostering an environment of continuous learning and innovation. Students actively participated in **national and state-level seminars, poster presentations, and technical events**, bringing accolades to the department.

We also organized health awareness programs and **community outreach initiatives**, strengthening our commitment to social responsibility and holistic pharmacy education. Our students and faculty demonstrated commendable enthusiasm in these endeavors, making a positive impact on the communities we serve.

As we move forward into the second half of the year, let us remain committed to the pursuit of knowledge, professional integrity, and community service. I would like to extend my heartfelt thanks to our students, faculty, non-teaching staff, and administration for their unwavering support and dedication.

Together, let us continue to raise the standards of excellence in pharmaceutical education and practice.

Warm regards,

[Prof. Dr. Sobhna Singh]

Head of the Department

Department of Pharmacy

EDITORIAL



As we reflect on the first half of 2023, it is a moment of pride and progress for the Department of Pharmacy. The past six months have been filled with academic vigor, research advancement, and institutional milestones that speak volumes of the department's commitment to excellence.

A significant highlight of this term was the successful NAAC inspection held in May 2023. The process provided us with a platform to showcase the department's strengths—ranging from our academic infrastructure and student support systems to the quality of our teaching-learning and evaluation practices. The visiting peer team appreciated the proactive participation of our faculty, the enthusiasm of our students, and the academic environment we collectively nurture.

Beyond accreditation efforts, the department continued to thrive as a centre of scholarly activity. Faculty members have been actively involved in research and consultancy projects, many of which are currently underway in areas such as drug formulation, pharmacological screening, and phytochemical analysis. These projects not only reflect the academic depth of the department but also engage students in hands-on learning and innovation.

We are also proud to share that several research papers authored by our faculty members have been published in national and international journals of repute during this period. These contributions to the scientific community underline our faculty's dedication to advancing pharmaceutical knowledge and maintaining a strong academic profile.

In addition to research and academics, the department hosted and participated in a variety of curricular and co-curricular events—from expert talks and technical workshops to student-led seminars and community outreach activities. These initiatives continue to foster a balanced, interdisciplinary learning culture, aligned with both industry needs and societal responsibilities.

This newsletter captures snapshots of all such accomplishments and activities. As you turn the pages, we hope you feel inspired by the progress we have made and the vision we uphold.

With gratitude and anticipation, we look forward to even greater achievements in the coming months.

Prof. (Dr.) Kamal Kishore

Department of Pharmacy

NAAC Peer Team Welcomed by Cultural Society of MJPRU



The **Cultural Society of Mahatma Jyotiba Phule Rohilkhand University (MJPRU)** extended a heartfelt and vibrant welcome to the esteemed **NAAC Peer Team** during their visit in May 2023. In keeping with our rich traditions and academic spirit, the welcome program was a harmonious blend of cultural expression and institutional pride.

The event began with a **traditional lamp-lighting ceremony**, symbolizing the pursuit of knowledge and enlightenment, followed by a **soulful Saraswati Vandana** performed by students of the Cultural Society. The guests were then honored with floral greetings and traditional tokens of respect, reflecting the university's deep-rooted values of hospitality and reverence for academia.

A specially curated **cultural presentation** showcased the diverse heritage of India through classical dance, music, and folk performances, all delivered with grace and enthusiasm by our talented students. The performances celebrated not just art and culture, but also the spirit of unity, creativity, and excellence that MJPRU stands for.

The NAAC Peer Team appreciated the warm reception and the efforts of the Cultural Society in organizing such a meaningful and aesthetically rich program. It was a proud moment for the university, as it highlighted both our commitment to academic excellence and our dedication to preserving cultural vibrancy on campus.

We thank the Cultural Society, student volunteers, faculty coordinators, and university leadership for making this welcome event a memorable and dignified start to the NAAC peer team's visit.

NAAC Peer Team Visit to the Department of Pharmacy



The **Department of Pharmacy**, Mahatma Jyotiba Phule Rohilkhand University, had the honor of welcoming the esteemed **NAAC Peer Team** as part of the institutional accreditation process in **May 2023**. The visit marked a significant milestone in the department's continuous journey toward academic excellence, quality enhancement, and institutional development.

The department presented a detailed overview of its academic structure, teaching-learning methodologies, research contributions, infrastructure, student support systems, and community engagement activities. The Peer Team was warmly received by the faculty, staff, and students, who actively participated in various presentations and interactive sessions.

Key highlights of the visit included:

- ✓ A **comprehensive presentation** showcasing the department's vision, mission, achievements, and future goals.

- ✓ A **guided tour of laboratories, classrooms, and research facilities**, where the team observed the practical infrastructure and innovations in teaching.
- ✓ **Interaction with faculty members**, who shared their academic contributions, ongoing research projects, and publications in reputed journals.
- ✓ **Student interaction sessions**, where students shared their learning experiences, academic projects, and career aspirations.
- ✓ A display of **departmental publications, achievements, and community outreach activities**.

The NAAC Peer Team appreciated the department's well-maintained infrastructure, active research environment, quality teaching practices, and strong faculty-student engagement. Their positive feedback and insightful suggestions have provided the department with valuable guidance for future growth and quality enhancement.



MJPRU Celebrates International Yoga Day 2023 with Enthusiasm and Unity



Mahatma Jyotiba Phule Rohilkhand University (MJPRU) celebrated the 9th International Yoga Day on June 21, 2023, with great enthusiasm and active participation from students, faculty, and staff. Aligned with this year's global theme, **“Yoga for Vasudhaiva Kutumbakam”** (*One Earth, One Family, One Future*), the event highlighted the unifying and healing power of yoga.



The celebration began early in the morning with a mass yoga session held at the university campus, where trained instructors guided participants through various asanas, breathing techniques, and meditation practices. The session aimed to promote physical well-being, mental

clarity, and inner peace among the attendees.

Vice Chancellor **Prof. K.P. Singh** addressed the gathering, emphasizing the importance of incorporating yoga into daily life to manage stress and lead a balanced lifestyle.



Faculty members from the Department of Physical Education also shared insights on the scientific benefits of yoga. The event concluded with a pledge to make yoga an integral part of everyday life, reflecting MJPRU's commitment to holistic education and wellness. The celebration not only reinforced the university's dedication to traditional Indian values but also promoted health, harmony, and unity within the campus community.

International & National Pharmacy Updates

Regulatory & Policy Updates

US FDA Approvals

During April 2023, the **U.S. Food and Drug Administration (FDA)** continued to demonstrate its commitment to accelerating drug development, particularly in areas of unmet medical need. Several new drug approvals and designations were granted, with a significant focus on **rare diseases and oncology**.

➤ Notable Approval: Vanfetinib

➤ **Vanfelbrutinib** is an investigational **Bruton's Tyrosine Kinase (BTK) inhibitor**.

➤ It received the **Breakthrough Therapy Designation** in April 2023.

➤ This designation was granted for its potential in treating **autoimmune disorders**, particularly **relapsing multiple sclerosis** and **systemic lupus erythematosus (SLE)**.

➤ The status allows for expedited development and review due to preliminary clinical evidence showing substantial improvement over existing therapies.

The FDA's focus remained on fostering innovation through designations like Breakthrough Therapy, Orphan Drug, and Fast Track, allowing patients quicker access to novel therapeutics.

India – CDSCO Regulatory Movement

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Revamp of the SUGAM Portal

CDSCO initiated the revamping of the SUGAM portal, its primary digital interface for stakeholders in the drug regulatory ecosystem. The improvements aimed to streamline the application process for- Clinical trial approvals; New drug permissions; Import/export licenses; Medical device registration



Key Outcomes

- The updated system was designed to be more **user-friendly** and **time-efficient**, reducing the burden on applicants.
- Enhanced integration with state-level drug regulatory departments was planned to improve coordination and compliance.
- This movement was part of India's broader initiative to digitize healthcare systems and align regulatory procedures with global best practices.

Expanding Horizons in Clinical Pharmacy

Pharmacovigilance Education: Strengthening the Safety Net

Recognizing the growing need for robust medication safety protocols, April 2023 marked a heightened emphasis on **pharmacovigilance training** for pharmacy graduates and practicing professionals.

Key developments included:

- Integration of **pharmacovigilance modules** into undergraduate and postgraduate pharmacy curricula across multiple universities.
- Regulatory bodies such as the **Pharmacy Council of India (PCI)** and **Uppsala Monitoring Centre (UMC)** encouraged institutions to promote hands-on training in **Adverse Drug Reaction (ADR) reporting systems**.
- Hospitals and clinical research organizations conducted workshops and webinars to sensitize pharmacists about **signal detection, risk assessment, and regulatory reporting requirements**.



Rising Global Momentum in Plant-Based Therapeutics

India's AYUSH Ministry Drives Research and Integration

In a major development during April 2023, the **Ministry of AYUSH** (Ayurveda, Yoga & Naturopathy, Unani, Siddha, and Homeopathy) launched several initiatives to promote scientific research and innovation in traditional medicine, aligned with modern pharmaceutical sciences.



◇ *Key Initiatives:*

- **Collaborative Research Programs:** Funding and support were extended to interdisciplinary projects that blend **ancient herbal knowledge** with cutting-edge pharmaceutical technology, aiming to develop standardized, evidence-based phytopharmaceutical products.
- **Capacity Building & Infrastructure:** Establishment of **research centers and training hubs** focused on quality control, safety evaluation, and clinical validation of herbal medicines.
- **Policies:** Policies to streamline regulatory pathways for phytopharmaceuticals were enhanced, facilitating quicker translation from lab research to market availability.

Project Sanctioned

Exploring Lipid-Based Formulations Strategies for Solubility Enhancement of Poorly Aqueous Soluble Drugs

PI: Dr. Saurabh Mishra

Agency: Research and Development Scheme of Higher Education Department, Uttar Pradesh Government

Amount: 3.30 Lakh

Research / Review Papers

- Kumar A, Verma NK, Verma AK, Akhtar J, Badruddeen, Khan MI, Ahmad M. A scientific review over silver nanoparticles as a potential alternative broad spectrum antiviral agent. *Eur Chem Bull.* 2023;12(15):1674–1689.
- Jain A, Verma A, Verma AK. Non-invasive and automatic identification of diabetes using ECG signals. *Int J Electr Electron Res.* 2023;11(2):418–425.
- Saxena MK, Kumar K, Singh S. A review of novelistic method used for formation pharmaceutical cocrystals and marketed available formulation. *Scope.* 2023;13:533–47.
- Saxena R, Kumar K. An insight into enteric coated microspheres: What? Why? & how? *IJRAR Int J Res Anal Rev.* 2023;10:91–100.
- Saxena M.K., Kumar K., Singh S. Review on novelistic method used for formulation pharmaceutical cocrystals and marketed available formulation. 2023;13: 533-547.
- Kashyap S.P., Singh S. An updated review on solid dispersion and porous lactose formulation of cefuroxime axetil *Int.J. Res and Analytical reviews* 2023; 10: 307-313.
- Krishna S., Singh S. Advanced review on porous microparticles, methods, drug loading, characterization and Pharm application *Int.J.of Res, and Analytical reviews.* 2023;10: Pages:105-119.
- Mishra S, Singh S, Verma N. Enhancing solubility of Carvedilol through liquisolid compact technique: formulation, characterization and in vitro evaluation. *Eur Chem Bull.* 2023;12:5476–88.
- Shweta Singh, Pawan Kumar Gupta, S. D. Singh and S. B. Tiwari, New Synthetic Methodology, Characterization, Docking Studies and Pharmacological Evaluation of Novel Substituted 3-alkyl amino Quinoline 4-(3H)-one Derivative, *European Chemical Bulletin*, 2023.
- Pawan Kumar Gupta, Shweta Gupta, S. B. Tiwari, S. D. Singh, Synthesis, Molecular Docking and Evaluation Studies of Novel 2-(N-Phenyl substituted)-3-alkyl amino Quinazoline-4(3H)-one Derivative for Anti-inflammatory and Anticonvulsant Activity, *European Chemical Bulletin*, 2023.
- Gunjan Sharma, S. D. Singh and S. B. Tiwari, Anxiolytic and anti-convulsant evaluation study of methanolic extract of Tectona Grandis linn bark, *European Chemical Bulletin*, 2023.
- Harshdeep Srivastava; Kamal Kishore Maheshwari. (2023). *Melissa Officinalis*-An overview and its properties as an anxiolytic.
- Faijan M, Maheshwari KK. A review article: Pharmacological uses and Phytochemistry Studies on *Carica papaya*. *Int J Pharm Sci Med.* 2023;Mar30;8(3):109–22. doi:10.47760/ijpsm.2023.v08i03.008.
- Singh CP, Maheshwari KK. An overview of *Momordica charantia*: A nutraceutical approach for depression. *Int J Pharm Sci Med (IJPSM).* 2023 Mar;8(3):67–76. ISSN 2519-9889.
- Sonali, Maheshwari KK. A comprehensive review on *Tinospora cordifolia*: A panacea treatment strategy. *Int J Pharm Sci Med.* 2023 Feb 28;8(2):26–39.

Book Chapters

Verma AK. Education and Social Change. In: Cybercrime & CyberSecurity.: Eureka International Publication; 2023.

Verma AK. Role of micro- and nano-formulations in cosmetics. In: Pharmaceutical Technology in Cosmetic Innovation. Hauppauge (NY): Nova Science Publishers; 2023.

Faculty Awards & Recognitions

Dr. Amit Verma

In recognition of his unwavering dedication, exceptional teaching, and transformative impact on students, Dr. Amit Verma was honoured with the **Outstanding Teacher Award** at Department of Pharmacy, Mahatma Jyotiba Phule Rohilkhand University (MJPRU) for the year 2023. His innovative instructional methods, compassionate mentorship, and commitment to academic excellence have inspired both students and colleagues alike. Dr. Verma's ability to make complex subjects accessible, coupled with his support for students' personal and intellectual growth, sets him apart. This award celebrates his outstanding contributions to education and the lasting legacy he is creating at MJPRU.



Students Achievements

Congratulations to **Deepanshi Sharma**, a first-year B.Pharm student, for clinching the gold medal in table tennis during the University Foundation Day celebrations! Her outstanding performance on the court—marked by agility, focus, and unwavering determination—earned her top honours and brought pride to her department. Deepanshi's achievement not only highlights her athletic talent but also exemplifies the spirit of excellence and

dedication we celebrate at our university. Well done, Deepanshi, and best wishes for more victories ahead!



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