



# NEWS LETTER

APRIL-JUNE 2025

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NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

**NIPER-RAEBARELI**

राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान, रायबरेली

ट्रांजिट कैम्पस : बिजनौर-सिमैंडी रोड, सरोजिनीनगर, लखनऊ-226002 (उ.प्र.) भारत

## International Yoga Day Celebrated at NIPER-Raebareli

NIPER-Raebareli celebrated International Yoga Day with great enthusiasm on 21st June 2025 at its Lucknow campus. The event was graced by the esteemed presence of the Institute's Director, Prof. Shubhini Saraf, who highlighted the importance of yoga and encouraged everyone to make it a part of their daily lifestyle. The program began with a morning session in which all faculty members, officers, staff, and students of the institute actively participated. The yoga practice was conducted by experienced yoga trainer Dr. Meena V. Rakshe, who guided the participants through various yoga asanas, pranayama, and meditation techniques.

In her address, Director Prof. Saraf stated that yoga is not merely physical exercise, but a path to mental and spiritual peace. It establishes a balance between the body, mind, and soul, and leads us toward a healthier society.



### (MoU) with Mascot Health Series Pvt. Ltd.



NIPER-Raebareli successfully signed a Memorandum of Understanding (MoU) with Mascot Health Series Pvt. Ltd. This strategic collaboration marked an important milestone in fostering academic-industry partnerships and advancing a shared commitment to excellence in pharmaceutical education, research, and innovation. Through this MoU, both institutions aimed to promote collaborative research, skill development initiatives, industrial training opportunities, and knowledge sharing.

### Workshop in collaboration with Roche



CoE-NDDS, NIPER Raebareli, in collaboration with Roche Products (India) Pvt. Ltd., successfully organized a One-Day Workshop on "Insights into Pharmaceutical Regulatory Frameworks" on June 20, 2025.

The event brought together industry experts, researchers, and students for a deep dive into regulatory practices shaping the pharmaceutical landscape in India and globally.

### Workshop on "Novel Drug..."



NIPER - Raebareli organized a one-day workshop on "Novel Drug Delivery System for brain targeting" on May 6th 2025. The event commenced with an address by Professor Shubhini A. Saraf, Director, NIPER - Raebareli, who offered insights into the topic, setting the tone for the discussions ahead.

### Tributes to Dr. BR Ambedkar



On the occasion of the birth anniversary of Dr. B.R. Ambedkar, students, faculty, and staff of NIPER-Raebareli gathered to pay their heartfelt tributes to this visionary leader, social reformer, and champion of equality and justice.

### One-day workshop



NIPER - Raebareli organised a one-day workshop on "Digital PCR-Based Gene Expression Profiling: Deep Dive into Stroke Research" on May 5, 2025. The workshop served as a platform for faculty, students, and researchers to explore digital PCR techniques and their application in stroke-related gene expression studies.

### Talk on stress management



On 8th April 2025, a special talk on stress management was organized to promote mental well-being and create greater awareness among students and staff. This interactive session aimed to equip participants with effective coping strategies and build a supportive environment for everyone.

### Workshop on IPR



NIPER-Raebareli, in association with Goa-Center for Excellence in Intellectual Property (G-CEIP), hosted an insightful 5-day workshop on "Intellectual Property Rights (IPR): A Macroscopic Understanding of Patent(ing) and Beyond" from June 9th to 13th, 2025. Participants received their certificates, marking a successful learning experience.

### Talk on "From Lab to Bedside"



NIPER hosted Prof. Ramkumar J. from the Department of Mechanical Engineering & Design, IIT Kanpur, for an invited talk on "From Lab to Bedside" on 17th April 2025. Prof. Ramkumar shared invaluable insights on translating scientific research and innovations from the laboratory into practical, patient-focused healthcare solutions – a crucial bridge in modern translational research.



## NIPER–Raebareli Celebrated World Environment Day



The National Institute of Pharmaceutical Education and Research (NIPER), Raebareli, celebrated World Environment Day on June 5, 2025, at its transit campus located in Lucknow, as it does every year. The Director of NIPER, Professor Shubhini Saraf, graced the occasion with her presence and motivated all officers, staff, and students to strengthen their participation in environmental conservation activities. She emphasized the crucial role of higher education institutions in raising awareness among citizens about environmental protection.

To raise awareness among all NIPER students, a special lecture was organized on the occasion of World Environment Day. The invited speaker, Dr. Shailendra Kumar Yadav, Assistant Professor at BBAU, shed light on the issue of urban air pollution, stating that multiple factors collectively contribute to air pollution, including large-scale human activities in densely populated areas. He stressed the importance of tree plantation as a significant measure for environmental protection.

## ACHIEVERS

### Third prize in GSACS-2025



Ms. Esther rani Motamarri Ph.D. Research Scholar Department of Medicinal Chemistry secured Third prize in Oral Presentation in National Conference on Green and Sustainable Approaches in Chemical Science (GSACS-2025) Organized by Department of Chemistry, Babasaheb Bhimrao Ambedkar University (BBAU), Lucknow

### Second Prize in Oral Presentation



Ms. Gaddam Mareechika, Ph.D. Research Scholar in the Department of Medicinal Chemistry under the supervision of Dr. Abha Sharma, secured the Second Prize in Oral

Presentation at the International Conference on “Global Pharma Vision 2040: Innovation, Sustainability, and Access” organized by Shri Ramswaroop Memorial University, Lucknow on 24th–25th February 2025.

### Successfully Defended Thesis



Sumadhura Bommaraju, PhD Research Scholar, Department of Pharmacology and Toxicology Successfully defended the thesis entitled “INVESTIGATING

THE EFFECTS OF NMDA RECEPTOR ANTAGONIST MEMANTINE IN AN ANIMAL MODEL OF POST-TRAUMATIC STRESS DISORDER” for the award of Ph.D. Degree under the Supervision of Dr. Ashok K. Datusalia, Assistant Professor.

### Silver Medal in presentation



Ms. Preeti Ashokkumar Chaudhran received silver medal in an oral presentation in International conference on “Global Pharma Vision 2040: Innovation, Sustainability, and Access” on 24th and 25th February, 2025 organized by Shri Ramswaroop Memorial University, U.P.

### Distinguished Alumnus Award



Dr. Saba Naqvi delivered a talk at the Two-Day National Symposium on 'Neurochemistry and Emerging Therapeutics: Challenges and Opportunities in

Neuroscience' at Jamia Hamdard, New Delhi, on April 16-17, 2025. Organized by the Society for Neurochemistry, India (SNCI) Delhi Local Chapter. Dr. Naqvi was also honored with the Distinguished Alumnus Award at Jamia Hamdard, New Delhi.

### Young Investigator Award



Jasleen Kaur, PhD Student (Department of Pharmacology and Toxicology) for receiving Young Investigator Award- 1st prize in oral presentation in

SNCI-SYMPOSIUM 2025 on “Neurochemistry and Emerging Therapeutics: Challenges and Opportunities in Neuroscience” organized by Society for Neurochemistry (India) Delhi, Local Chapter, Jamia Hamdard, New Delhi.

### Successfully Published Book

Dr. Keerti Jain and Dr. Awesh K. Yadav successfully published their edited book titled “Advances in Pharmaceutical Product Development”, published by Springer. This book is a significant contribution to the field, offering comprehensive insights into the latest advancements, challenges, and innovative approaches in pharmaceutical product development.

### Secured Ph.D. program at IIT

**Gokul G Nair**, Department of Biotechnology for secured PhD program (2025) under the supervision of Dr. Arun Kumar Shukla in BSBE department at IIT KANPUR.

**Mr. Raghunath Prasad Tripathy**, secured Ph.D. in Pharmacology in the “Department of Pharmaceutical Engineering and Technology” at IIT BHU.

### Placements

**Susmita Gawade and Prajakta Garad** of M.S. (pharm) Biotechnology (batch 2023-2025) have secured final placement position at Iqvia and Apcer Life Science.

**Mr. BALKISHAN PARIHAR** (Batch: 2023-2025), Department of Pharmaceutics secured final placement offer from BDR PHARMACEUTICALS INTERNATIONALS.

Dr. Sanjay Tiwari's team published a research article titled 'Stabilizing effect of quercetin upon bovine serum albumin as a model protein' in Colloids and Surfaces B: Biointerfaces

Dr. Nidhi Srivastava and her research team's, Department of Biotechnology research article, entitled "Vincristine loaded bioinspired vesicles: Preparation, Characterization, and In-Vitro evaluation on U87-MG cells" accepted in the Journal of Cluster Science.

Dr. Ravinder K. Kaundal's team published a research article entitled "Urolithin-A Derivative UAS03 Improves Cognitive Deficits and Memory by Activating Nrf2 Pathways to Alleviate Oxidative Stress and Neuroinflammation" in ACS Chemical Neuroscience.

Vijay Kumar and team published a Book Chapter entitled "Antibody drug conjugates integrated with lipid nanocarrier for cancer theranostics" in Academic Press by Elsevier.

"SCH Research Group" Department of Medicinal Chemistry [PI = Dr. Sandeep Chaudhary] for Published a Book Chapter in Issue "Studies in Natural Products Chemistry" Vol. 85 [Bioactive Natural Products] .

Dr. Rahul Shukla's research team's Review Paper entitled "Leveraging Nanoscience and Strategic delivery for the expedition of Osteoporosis" accepted in AAPS PharmSciTech (Springer Nature).

Dr. Rahul Shukla's research team's Research Paper entitled "Apolipoprotein-Decorated Drug Loaded Liposomes Mitigating Copper Intoxication: an in vitro and in vivo Evidence-Based Study Intervening Wilson Disease" accepted in Naunyn-Schmiedeberg's Archives of Pharmacology (Springer Nature).

Dr. Sanjay Tiwari and his research group published a research article entitled "Bile salts trigger deformability in liposomal vesicles through edge-activating action" in Molecular Pharmaceutics.

Ph.D. scholars under the supervision of Prof. Rakesh Kumar Singh published an EDITORIAL ARTICLE entitled: "Therapeutic potential of MK2 kinase inhibition in pathogenesis of Parkinson's disease" in Expert opinion of Therapeutic Targets (Taylor & Francis).

Dr. Saba Naqvi's team's review article published in Asian Journal of Pharmaceutical Sciences entitled "Recent advances in cell membrane-based biomimetic delivery systems for Parkinson's disease: Perspectives and Challenges"

Dr. Rahul Shukla's research team's Paper entitled "Intranasal Therapeutics for Neurodegenerative Disorders: Overcoming the Blood-Brain Barrier with Smart Formulations and Devices" accepted in Molecular Pharmaceutics, ACS.

Scholars under the supervision of Prof. Rakesh K. Singh published a research entitled, "Ferrous sulfate and lipopolysaccharide co-exposure induce neuroinflammation, neurobehavioral motor deficits, neurodegenerative and histopathological biomarkers relevant to Parkinson's disease-like symptoms in Wistar rats." in BioMetals Journal (Springer Nature Publishers).

Dr. Rahul Shukla's Research Group published a Research Paper entitled "Intranasal Apocynin-Loaded Nanostructured Lipid Carriers (NLCs) for Alzheimer's Disease Therapy: Formulation, Optimization, and pharmacokinetic evaluations" in Journal of Drug Delivery Science and Technology.

Dr. Abha Sharma's research team published a research article entitled "Dual-State Emissive and Substituent Tunable pH-sensitive Bis-heterocyclic Fluorescent Probes" in ACS journal, The Journal of Organic Chemistry.

MS(Pharm.) & PhD scholars and under the supervision of Dr. Rakesh K. Singh published a research entitled, "IL-17A exacerbated neuroinflammatory and neurodegenerative biomarkers in intranasal amyloid-beta model of Alzheimer's disease".

Dr. Saba Naqvi and Research team published a article entitled "Decoding NLRP3 Inflammasome Activation in Alzheimer's Disease: A Focus on Receptor Dynamics" in the Molecular Neurobiology journal.

Dr. Awesh K Yadav and his research team's review article entitled "Montmorillonite Revolution: A Unified Exploration of Exfoliation Techniques and Its Emerging Role as an Advanced Drug Delivery Carrier" accepted in Applied Clay Science, (Elsevier).

Ph.D scholars under the supervision of Prof. Rakesh Kumar Singh published a research entitled: "Betulinic acid protects against lipopolysaccharide and ferrous sulfate-induced oxidative stress, ferroptosis, apoptosis, and neuroinflammation signaling relevant to Parkinson's Disease" in Free Radical Biology and Medicine (Elsevier)

Dr. Awesh Kumar Yadav and team published a Research Article entitled "Synthesis and Characterization of Protein Nano Hybrid System for the Brain Delivery of Riluzole" in Therapeutic Delivery (Taylor & Francis).

Dr. Rahul Shukla's research team Review Paper entitled "Navigating Neurodegeneration: Challenges, Pathophysiology, Biomarkers, and the Promise of Nanocrystals-Based Nanotherapeutics" accepted in Journal of Microencapsulation, Taylor & Francis.

Dr. Gopal Lal Khatik, Department of Medicinal Chemistry published a Review Article entitled "Insights into PTP1B inhibitors as antidiabetic agents: Current research and future perspectives" in the European Journal of Medicinal Chemistry.

Congratulations to Dr. Rahul Shukla & Dr. Ravinder Kaundal's research team on acceptance of Research Paper entitled "Quality by Design based Hydrogel Formulation of 4-Octyl Itaconate-Loaded Nanostructured Lipid Carriers for Epidermal Restoration in Atopic Dermatitis" in Journal of Pharmaceutical Investigation, Springer.

Team of NIPER - Raebareli published insightful Review article, "Fibroblast Activation Protein as a Molecular Handle in Cancer Phototheranostics: Recent Advances" in Molecular Pharmaceutics.

Dr. Awesh K. Yadav's research group published a Research Article entitled "Lactoferrin Anchored Carboxymethyl Pullulan-MgO Nanocomposites for Targeted Delivery of Trans-Ferulic Acid: Physicochemical Characterization, In vitro and Ex vivo Studies" in ACS Applied Bio Materials.





● लखनऊ के सरोजिनीनगर स्थित नैशनल इंस्टिट्यूट ऑफ फार्मास्युटिकल साइंस एंड रिसर्च (नाईपर) के कैंपस में भी विश्व पर्यावरण दिवस मनाया गया। कार्यक्रम में नाईपर की निदेशक प्रो. शुभिनी सराफ, डॉ. शैलेन्द्र कुमार यादव मौजूद रहे।

**नवभारत टाइम्स, लखनऊ**

#### नाईपर ने विश्व पर्यावरण दिवस मनाया



विश्व पर्यावरण दिवस को मनाते हुए नाईपर के कैंपस में एक कार्यक्रम आयोजित किया गया। कार्यक्रम में नाईपर की निदेशक प्रो. शुभिनी सराफ, डॉ. शैलेन्द्र कुमार यादव और अन्य कर्मचारी शामिल थे। कार्यक्रम में पर्यावरण संरक्षण और जल संयोजन के महत्व पर चर्चा हुई।

● नाईपर रायबरेली, सरोजिनीनगर कैंपस: कार्यक्रम में निदेशक प्रो. शुभिनी सराफ ने लोगों से योग को जीवनशैली का हिस्सा बनाने की अपील की।

**नवभारत टाइम्स, लखनऊ**

#### नैशनल इंस्टिट्यूट ऑफ फार्मास्युटिकल साइंस एंड रिसर्च नाईपर ने विश्व पर्यावरण दिवस मनाया

जन एक्सप्रेस | रायबरेली

रायबरेली नैशनल इंस्टिट्यूट ऑफ फार्मास्युटिकल साइंस एंड रिसर्च (नाईपर), रायबरेली के लखनऊ स्थित ट्रांजिट कैंपस में हर वर्ष की तरह इस वर्ष भी 5 जून, 2025 को विश्व पर्यावरण दिवस मनाया गया। नाईपर की निदेशक प्रो. शुभिनी सराफ की इस कार्यक्रम में शामिल सभी कर्मचारी, कर्मचारियों एवं विद्यार्थियों को पर्यावरण संरक्षण गतिविधियों को बढ़ा देने के लिए प्रेरित किया।



उन्होंने कहा कि पर्यावरण के प्रति नाईपरों को जागरूक करने के लिए, उनका मिशन संरक्षित करने का है। उन्होंने कहा कि पर्यावरण संरक्षण के लिए हम सभी का सहयोग आवश्यक है। उन्होंने कहा कि पर्यावरण संरक्षण के लिए हम सभी का सहयोग आवश्यक है। उन्होंने कहा कि पर्यावरण संरक्षण के लिए हम सभी का सहयोग आवश्यक है।

**रायबरेली जन एक्सप्रेस**

## RESEARCH & INNOVATIONS

Dr. Nidhi Srivastava & her Research Team published a research article entitled "Spirilloxanthin from *Verbena encelioides* Flower Extract has Neuroprotective Benefits in Scopolamine-Induced Memory Impaired Rats that Resemble Alzheimer's Disease" in the journal 'Molecular Neurobiology'.

Department of Biotechnology Research Team published a Review Article entitled "Current perspectives on gene therapy and its involvement in curing genetic disorders" in Human Genetics.

Dr. Rahul Shukla's research team Paper entitled "Surface-functionalized nanoparticles for targeted drug delivery across the blood-brain barrier: advances and challenges in neurodegenerative disease therapy" accepted in Journal of Molecular Liquids, Elsevier.

Dr. Sanjay Tiwari's team published a research article titled "Dependence of phase boundary and interfacial characteristics of liquid crystalline structures upon surfactant-cosurfactant compositions" in "LANGMUIR"

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