



**National Institute of Pharmaceutical Education and Research**  
**NIPER-RAEBARELI**



**Issue, October-December 2024**  
**NEWSLETTER**

राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान, रायबरेली  
ट्रांजिट कैम्पस : बिजनौर-सिसेंडी रोड, सरोजनी नगर, लखनऊ-226002 (उ.प्र.) भारत

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## 114 Degrees Conferred in 9th Convocation

The National Institute of Pharmaceutical Education and Research (NIPER) Raebareli, an Institute of National Importance, held its 9th Annual Convocation today. The ceremony was held at Atal Bihari Vajpayee Auditorium, BBAU, Lucknow.

A total of 114 students, among them 108 M.S. (Pharm.) and 6 PhD students, were awarded their degrees during the convocation. Gold medals were given to Ms. Sonia (Dept. of Medicinal Chemistry), Mr. Londhe Sachin Bhimrao (Dept. of Pharmaceutics), Ms. Shivani (Dept. of Pharmacology & Toxicology), Mr. Patel Parthkumar Rakeshkumar (Dept. of Regulatory Toxicology) and Ms. Rashi Rathore (Dept. of Biotechnology).

Dr Arunish Chawla, IAS, Secretary, Department of Pharmaceuticals, Govt. of India, was the Chief Guest; Dr Radha Rangarajan, Director, CSIR-CDRI, was the Guest of Honor and Dr Madhu Dikshit, Chairperson, Board of Governors, NIPER-Raebareli presided over the function. The Board members and Senators participated in the academic procession led by the Registrar.

In his convocation address Dr. Arunish Chawla congratulated the graduating students. He said that NIPERs were built to bring excellence in pharmaceutical ed-



ucation and research. He expressed hope that by next year, the Centre of Excellence at NIPER – Raebareli for Novel Drug Delivery System will be operational and will be one of its kind in the state of Uttar Pradesh and the country.

Dr Radha Rangarajan, in her address, said that students must remember that every discovery they make, every innovation they develop, and every product they bring to market has the potential to transform lives. India is now recognized

as the ‘pharmacy of the world’, supplying affordable medicines to over 200 countries, but they must not stop here.

Sharing her delight on this momentous occasion, Dr. Madhu Dikshit said that NIPER – Raebareli plays a crucial role in drug discovery and development in India. By nurturing talent, conducting high-impact research, and fostering partnerships, Institute continues to play a vital role in advancing healthcare.

Cheering the graduates with the urge to

keep the NIPER–Raebareli flag high, Prof. Shubhini A. Saraf, Director, NIPER-Raebareli, presented the Institute Report for Academic Year 2023-2024. Prof. Shubhini said the institute is positioning itself as a leading research institute in skilling and drug research. The progress is a testament to the collective efforts of the faculty, staff, and students. She hoped that NIPER students would accomplish significant milestones and bring glory to their alma mater.

## National Seminar on “Next Generation Therapeutics and Delivery Systems”

From October 25th to 26th, 2024, Department of Pharmaceutics & Department of Biotechnology, NIPER-Raebareli hosted National Seminar 2024 on “Next Generation Therapeutics and Delivery Systems” at NIPER - Raebareli. We were delighted to have Experts and participants from prestigious institutions and universities such as IIT – Gandhinagar, IIT – BHU, National Institute of Immunology and VIT. The Conference concluded with a certificate distribution ceremony for participants, Experts and volunteers on September 26th, 2024. This event provided the perfect platform for collaboration, Networking, skill enhancement, and knowledge sharing.

Dr. Bhaskar Narayan, Director of CSIR-IITR, Lucknow, the special guest invited to the national seminar, said that the challenges in the complete treatment of diseases can be eliminated by using modern technology. He expressed his desire to participate in joint research work with NIPER. As a special speaker, former Vice Chancellor of Harisingh Gaur University, Prof. Suresh P. Vyas mesmerized all the participants present in the audience gallery with his speech. In his speech based on science and spiritual philosophy, he called upon the future generations to play a leading role in research. After this, more than 15 expert speakers from many renowned institutions of the country gave their lectures on different themes. Prof Shailendra K. Saraf, Dean, AKTU, Lucknow chaired the technical session on “New Agents towards Drug Development”. Dr. Huma Mustafa, Joint Director, UPCST chaired the session on “Therapeutic Advancements towards Neurodegenerative Disorders”. Prof. T. Govindaraju, Professor, IISc Bangalore, Dr. Anil Kumar, Scientist, NII, New Delhi, Dr. Dhiraj Bhatia, Associate Professor, IIT, Gandhinagar, Dr. Rajnish K. Chaturvedi, Senior Principal Scientist, IITR, Lucknow and Dr. Gyan P. Modi, Associate Professor, IIT BHU delivered Invited Lectures. Flash Talk Session was Chaired by Dr. Sushma Talegaonkar, Associate Professor, DPSRU and Co-chaired by Dr. Anil Kumar, Scientist, NII, New Delhi.

The researchers who came to the seminar displayed new technologies, therapies and medical devices through poster presentations. Director of NIPER-Raebareli, Prof. Shubhini Saraf thanked the students, researchers and academicians who came from different states. She expressed hope that the students and researchers of pharmacy would have benefited in many ways from the lectures held in different sessions.



### Other Programs

NIPER - Raebareli observed the National Energy Conservation Day 2024. Students presented various ideas for judicious use of energy resources.

As part of #SpecialCampaign4.0, a cleanliness drive was conducted at the interior areas of NIPER - Raebareli Transit Campus, focusing on Office Space Management.

Dr. Saba Naqvi delivered a talk as an invited speaker in International Pharmacology Conference IPC- IPSCON 2024 at AIIMS, NEW DELHI on 28th November.

NIPER - Raebareli organized One Day Webinar on “Flow Cytometers & Sorters” on 16th October 2024 to celebrate Institution’s Innovation Day. It is celebrated commemorating the birth anniversary of the former president of India, Dr. APJ Abdul Kalam.

NIPER - Raebareli observed Sexual Harassment at Workplace Prevention Week from December 4th to 9th, 2024. In this regard, a interactive workshop on the POSH Act, 2013 was held for staff of the Institute. Prof. Deepa H Dwivedi, BBAU, Lucknow raised awareness among attendees.



### 63rd National Pharmacy Week

As part of the 63rd National Pharmacy Week, NIPER - Raebareli organised an Invited talk by Dr. Abhay N. Tiwari, Senior Ayurvedic Physician on 19 November 2024. The topic for this talk was “Advocating Indian Science: Innovations in Indigenous Medicines and Products”.

### Health Awareness Camp

A free health awareness camp was organized by Max Hospital, Lucknow on 21 October 2024 at the Transit Complex of NIPER Raebareli. More than 100 students, staff and faculty members received health counseling in this camp.



### Vigilance Awareness Week

NIPER - Raebareli observed “Vigilance Awareness Week” from Oct 28 to Nov 3, 2024. Theme “(Culture of Integrity for Nation’s Prosperity)” highlights the essential role of integrity in fostering a prosperous nation. All Staff of the NIPER - Raebareli took part in the Integrity Pledge organized in the institute.

# RESEARCH & INNOVATIONS

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SCH group, Dept of Medicinal Chemistry [PI-Dr. Sandeep Chaudhary] Published a Book Chapter (IntechOpen Publishers) entitled "Pharmaceutically Privileged Bioactive Pyridine Derivatives as Anticancer Agents: Synthetic Developments & Biological Applications"



Team of MS and PhD scholars under the supervision of Dr. Rakesh Kumar Singh published an original research article stating on the role and mechanism of IL17-signaling in lung inflammatory diseases.



Dr. Sandeep Chandrashekarappa's research group published a book chapter in Advances in Surfactant Biosensor and Sensor technologies of Springer Nature entitled "Food Quality Assessment through Surfactant Sensors"



Dr. Sandeep Chandrashekarappa and his team for published a research paper in "Journal of Molecular Structure" in collaboration with Dr. Ramandeep Singh Tuberculosis Research Laboratory Translational Health Science & Technology Institute, Faridabad, India.

M.S. scholar, Shailesh Vilas Matsagar under the supervision of Dr. Rakesh K. Singh published a research publication entitled "Protective Effects of NRF2 Activator Sulforaphane in Polyinosinic: Polycytidylic Acid-induced in vitro and in vivo model.



Dr. Rahul Shukla & Dr. Ravinder Kaundal team Research Paper entitled "Investigating the Efficacy of Gliclazide Encapsulated Hydrogel in the Preclinical Mice Model for Atopic Dermatitis" accepted in Naunyn-Schmiedeberg's Archives of Pharmacology



NIPER-Raebareli's team Review Article entitled "Unravelling the Molecular Jam: How Crowding Shapes Protein Aggregation in Neurodegenerative Disorders" accepted in ACS Chemical Biology.



Dr. Ravinder Kaundal's group research article entitled "Exploring the therapeutic potential & underlying mechanism of bergapten in renal fibrosis: Network pharmacology, molecular docking & experimental validation" in accepted in Phytotherapy Research

Dr. Sanjay Tiwari's team Review Article entitled "Focused starvation of tumor cells using glucose oxidase: A comprehensive review" published in "International Journal of Biological Macromolecules"



Dr. Sandeep Chandrashekarappa and his research team from the Department of Medicinal Chemistry received grant of an Indian Patent entitled "A PROCESS FOR PREPARATION OF BENZOFURAN AND BENZOFURO[2,3-c]PYRIDINE COMPOUNDS"



Dr. Rahul Shukla's research team Review Paper entitled "Advancements in Microneedle Technology: Current Status and Next-Generation Innovations" accepted in Journal of Microencapsulation



Dr. Keerti Jain and her research team for published Research Article titled "Effect of Tween 80 and Pluronic 127 on the stabilization of zein nanocarriers for the delivery of piperine" in the journal Food Research International.

Team of MS and PhD scholars under the supervision of Dr. Rakesh Kumar Singh published an original research article stating on the role and mechanism of IL17-signaling in lung inflammatory diseases.



Dr. Sandeep Chaudhary and his research team published a review article titled "Therapeutic role of NLRP3 inflammasome inhibitors against Alzheimer's disease" in BIO-ORGANIC CHEMISTRY



Dr. Awesh K. Yadav's research group published a collaborative Research Article entitled "Intranasal Administration of Berberine-loaded Hydrogel Ameliorates Okadaic Acid-induced Cognitive Deficit in Mice" in Chemical Engineering Journal (Elsevier).



Dr. Rahul Shukla's research team Review Paper entitled "Leveraging Nanoengineered Microneedle-Augmented Drug Delivery in Oncological Intervention" accepted in Particle and Particle Systems Characterization Journal, Wiley.

Acceptance of a meta-analysis research on the role of lipids and carotenoids in pathology of Alzheimer's disease. of M.S.(Pharm) and PhD scholars from the Dept. of Pharmacology & Toxicology in the lab of Dr. Rakesh K. Singh



Dr. Sandeep Chandrashekarappa and his research team published a Book Chapter in Examining Biological Relevance of Fused S-Heterocycles of IGI Global Scientific Publishing entitled Biological Relevance of Five Membered Fused Heterocycle Imidazothiazole.



Dr. Rahul Shukla's research team Review Paper entitled "Scientific Investigation of Non-coding RNAs in Mitochondrial Epigenetic and Aging Disorders: Current Nanoengineered Approaches for their Therapeutic Improvement" accepted in Mitochondrion Journal



Dr. Rahul Shukla's research team collaborative Review Paper entitled "Nondestructive techniques for pharmaceutical drug product characterization" accepted in Drug Discovery Today.

Dr. Sanjay Tiwari and his team published a research article entitled "Comparative analysis of bare and quercetin-loaded nonionic block copolymer micelles in an artificial gastrointestinal medium" in Langmuir (ACS Publications)



Dr. Sandeep Chandrashekarappa and his research team from the Department of Medicinal Chemistry received GRANT of an Indian Patent entitled "Pyrrolo[1,2-a]imidazole, 1H-Pyrrole-3-carboxylate analogues and process for preparation thereof"



"SCH Research Group" at Department of Medicinal Chemistry Published a review article (Wiley Publishers) entitled "Emerging Trends in Quinoxaline-based Analogs as Protein Kinase Inhibitors: Structural Developments and SAR Insights" in "ChemMedChem" JOURNAL



Dr. Rahul Shukla's research team Research Paper entitled "Zein decorated rifaximin nanosuspension: Approach for sustained release and anti-bacterial efficacy enhancement" accepted in Therapeutic Delivery.

"SCH Research Group" at the Department of Medicinal Chemistry (PI = Dr. Sandeep Chaudhary) published a research article entitled "N-Arylsulfonylated C-Homoaporphines as a New Class of Antiplatelet and Antimicrobial Agents".



Dr. Ravinder K. Kaundal's research team published a research article entitled "Exploring Dysregulated miRNAs in ALS: Implications for Disease Pathogenesis and Early Diagnosis" in Neurological Sciences.



## खोज ऐसी हो जो मानव जीवन को बदल सके: डॉ. राधा रंगराजन

एनबीएच सी, लखनऊ: किफायती सीडीआरआई की निदेशक डॉ. राधा रंगराजन दवाओं के लिए आज पूरा विश्व भारत की ने मंगलवार को बीबीएच में कही। मौका तफ देखा है। भारत आज दुनिया को फार्मेसी के रूप में पहचान बना चुका है। हालांकि कई और आगम तक करने हैं। इसके लिए जरूरी है कि ऐसे शोध हो जो मानव जीवन को बदलने में सक्षम हों। छात्रों व वैज्ञानिकों को शोध व नवाचार करते समय ध्यान रखना होगा कि आम लोगों के कितने काम की है। यह बात



BBAU में नेशनल इंस्टिट्यूट ऑफ फार्मास्यूटिकल एजुकेशन एंड रिसर्च, रायबरेली का दीक्षांत समारोह में दिए गए मेडल।

भारत सरकार के औषधि विभाग सचिव डॉ. अरुणीश चावला ने कहा कि नाइपर में आगे बढ़ने के अंत तक नोवेल ड्रग डिलीवरी पर आधारित एक 'सेंटर ऑफ एक्सीलेंस' बनकर तैयार हो जाएगा, जो यूपी ही नहीं, बल्कि पूरे देश में अपनी तरह का इकलौता केंद्र होगा। नाइपर की निदेशक प्रो. शुभिनी ए सराफ ने कहा कि नाइपर-रायबरेली का संचालन लखनऊ के सरोजनीनगर स्थित एक ट्राइबल परिसर में हो रहा है। संस्थान के स्थायी परिसर का निर्माण चल रहा है, जो मार्च 2025 तक पूरा होने को उम्मीद है।

## दीक्षांतमेंसचिव, पार्थ, राकेश, राशिकोस्वर्ण



बीबीएच के अटल बिहारी वाजपेयी सभागार में नाइपर का दीक्षांत मनाया गया।

लखनऊ, कार्यालय संवाददाता। नेशनल इंस्टिट्यूट ऑफ फार्मास्यूटिकल एजुकेशन एंड रिसर्च (नाइपर) रायबरेली का 9वां दीक्षांत बीबीएच के अटल बिहारी वाजपेयी सभागार में मनाया गया। 114 छात्र-छात्राओं को डिग्री प्रदान की गई। 108 विद्यार्थियों ने एम.एस. (फार्मा.) और 6 को पीएचडी की उपाधि प्राप्त की। कोर्स के अंत में प्रशिक्षण के लिए किया को स्वर्ण दिया गया।

## 'NIPER shaping India's pharma landscape'

Lucknow: About 114 students were felicitated at the Atal Bihari Vajpayee auditorium of Babasaheb Bhimrao Ambedkar University, Lucknow on Tuesday as National Institute of Pharmaceutical Education and Research, Rae Bareilly celebrated its 9th annual convocation. The 114 degrees conferred, included 108 for MS Pharma and six PhD degrees. Top performers awarded gold medals as well as the country. CDRI director, Radha Rangarajan, said, "India's position as a global supplier of affordable medicines is only the beginning of our journey."

## पदकों ने दिखाई फार्मा क्षेत्र में भविष्य की चमक

नाइपर के नौवें दीक्षांत समारोह में 11 विद्यार्थियों को मेडल व 114 को मिली डिग्री



लखनऊ: नेशनल इंस्टिट्यूट ऑफ फार्मास्यूटिकल एजुकेशन एंड रिसर्च (नाइपर) के नौवें दीक्षांत समारोह में विद्यार्थियों को मेडल व 114 को मिली डिग्री दी गई। 108 विद्यार्थियों को एमएस (फार्मा.) और छह को पीएचडी की उपाधि दी गई। नाइपर में विभिन्न अतिथि केन्द्रों, औषधि अकादमी, संशोधन केन्द्रों, डॉ. राधा रंगराजन व डॉ. जयु चंद्रकांत ने उद्बोधन को संबोधित किया। डॉ. राधा रंगराजन ने 114 छात्र-छात्राओं को डिग्री दी गई। 108 विद्यार्थियों को एमएस (फार्मा.) और छह को पीएचडी की उपाधि दी गई। नाइपर में विभिन्न अतिथि केन्द्रों, औषधि अकादमी, संशोधन केन्द्रों, डॉ. राधा रंगराजन व डॉ. जयु चंद्रकांत ने उद्बोधन को संबोधित किया। डॉ. राधा रंगराजन ने 114 छात्र-छात्राओं को डिग्री दी गई। 108 विद्यार्थियों को एमएस (फार्मा.) और छह को पीएचडी की उपाधि दी गई। नाइपर में विभिन्न अतिथि केन्द्रों, औषधि अकादमी, संशोधन केन्द्रों, डॉ. राधा रंगराजन व डॉ. जयु चंद्रकांत ने उद्बोधन को संबोधित किया।

चिकित्सा मोबाइल मेडिकल वैन की विशेष योगदान रहा। शोध, नवाचार से नई बीमारियों का इलाज संभव लखनऊ। आईआईटीआर लखनऊ के निदेशक डॉ. भास्कर नारायण के मुताबिक शोध और नवाचार से नई बीमारियों का इलाज संभव है। वे शनिवार को सरोजनीनगर स्थित नेशनल इंस्टिट्यूट ऑफ फार्मास्यूटिकल एजुकेशन एंड रिसर्च (नाइपर) रायबरेली में आयोजित सेमिनार में बोल रहे थे। दो दिवसीय सेमिनार में देश भर के 200 से ज्यादा प्रतिभागियों ने हिस्सा लिया। नाइपर-रायबरेली की निदेशक प्रो. शुभिनी सराफ ने धन्यवाद दिया। (माई सिटी रिपोर्टर)

## NIPER ने आयोजित किया अपना दीक्षांत समारोह



डॉ. मधु दीक्षित, अधिशासी मण्डल प्रो. शुभिनी सराफ, निदेशक, नाइपर

राष्ट्रीय सहारा औषधीय क्षेत्र के विशेषज्ञों ने किया ज्ञान वर्धन लखनऊ: राष्ट्रीय सहारा के विशेषज्ञों ने नाइपर में आयोजित कार्यक्रम में भाग लिया। डॉ. मधु दीक्षित, अधिशासी मण्डल प्रो. शुभिनी सराफ, निदेशक, नाइपर ने कार्यक्रम का उद्बोधन किया।

# ACHIEVERS

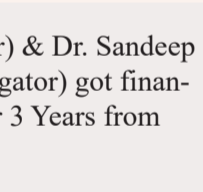
Dr. Rahul Shukla got Rs. 55 Lacks financial assistance for Project on Unani formulations in Collaborations with Dr. Shagufta, Takmeel Ut Tib State Unani Medical College & Hospital.



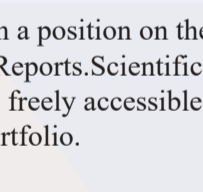
Mr. Shivam Kumar Pandey, PhD Scholar for Presented his work in IBRO-APRC Associate School. Mr. Shivam also received 3rd prize in a quiz competition at Indian Institute of Technology (B.H.U.) Varanasi, India held on October 10 to 16, 2024.



Dr. Awesh K. Yadav (Principal Investigator) & Dr. Sandeep Chandrashekharappa (Co-Principal Investigator) got financial assistance for one Research Project for 3 Years from Council of Science and Technology, U.P.



Dr. Rahul Shukla has been honoured with a position on the prestigious Editorial board of Scientific Reports. Scientific Reports is a highly esteemed scrutinized, freely accessible mega journal published by the Nature Portfolio.



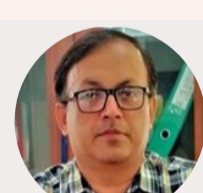
Dr. Abhishek Dey, Dept. of Biotechnology won Best Oral Presentation Award at Young Scientist Conclave INDIA INTERNATIONAL SCIENCE FESTIVAL 2024 (IISF-2024) held at the IIT Guwahati.



Jasleen Kaur received Young Pharmacologist Award (Poster) in the area of Basic Neuropharmacology at IPC-IP-SCON 2024 (International Pharmacology Conference) & 54th Annual Conference of Indian Pharmacological Society 2024 conference.



Dr. Awesh K. Yadav and Dr. Keerti Jain published a book, "Novel Carrier Systems for Targeted and Controlled Drug Delivery," in Springer Nature.



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