



NEWS LETTER

APRIL-JUNE 2026

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NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

NIPER-RAEBARELI

राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान, रायबरेली

ट्रांजिट कैंपस : बिजनौर-सिमेंटी रोड, सरोजिनीनगर, लखनऊ-226002 (उ.प्र.) भारत

NIPER Raebareli Signs MoU, CDA & Technology Transfer Agreement with Lofty Laboratories



NIPER - Raebareli has signed a Memorandum of Understanding (MoU), Confidential Disclosure Agreement (CDA), and Technology Transfer Agreement with Lofty Laboratories, Hyderabad to foster multidirectional collaboration in research, innovation, and technology commercialisation. This MoU marks a significant step towards strengthening academia-industry partnerships aimed at advancing pharmaceutical and biotechnology research. During the signing ceremony, both the organizations agreed to adopt an industry-ready technology developed at NIPER-Raebareli for further commercialization and development. The collaboration will also include joint participation in research and development activities in areas of mutual interest. Speaking during the occasion, the Director of NIPER-Raebareli, Prof. Shubhini A. Saraf, stated that the MoU and technology transfer agreement would enable both institutions to complement each other's research programs in multiple ways, including collaborative participation in the activities of the Institute's Center of Excellence on Novel Drug Delivery Systems (CoE-NDDS).



An MoU has been signed between NIPER Raebareli and VKASS PHARMA Pvt Ltd for the development of products based on traditional medicines.

Students Showcases Innovation at Abhivyakti



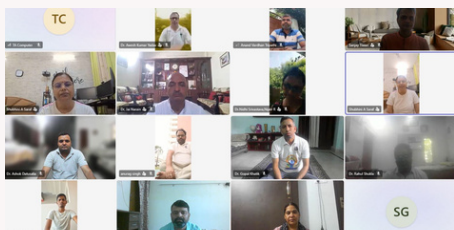
The Centre of Excellence (CoE), NIPER-Raebareli participated in Abhivyakti 2026, organized by the Startup Incubation and Innovation Centre (SIIC), IIT Kanpur. The event brought together innovators, entrepreneurs, researchers, and industry experts on a common platform to foster innovation and collaboration. During the event, the CoE team showcased its innovations, interacted with startups, investors, and domain experts, and explored opportunities for future collaborations. The participation provided valuable exposure to the vibrant startup ecosystem and facilitated meaningful knowledge exchange.

Faculty Development Programme



The Faculty Development Programme (FDP) on "Medical Devices and AI/ML in Healthcare" successfully concluded at NIPER-Raebareli. Over the course of the programme, participants gained valuable insights into emerging trends in medical devices, AI/ML applications in healthcare, wearable technologies, diagnostics, and MedTech innovation through expert lectures and interactive sessions by distinguished academicians, clinicians, and industry professionals.

Yoga Day celebration



NIPER Raebareli celebrated the "International Day of Yoga 2026" through virtual mode in the presence of Director Prof. Shubhini A. Saraf. Faculty members, officers and staff enthusiastically participated in the session by following the "Common Yoga Protocol" developed by the Ministry of AYUSH.

World Environment Day: Protecting the Environment



NIPER-Raebareli celebrated World Environment Day at its transit campus with a pledge to promote environmental conservation. On the occasion, Director Prof. Shubhini A. Saraf planted a sapling, conveying a message on the importance of protecting the environment. Addressing the gathering, Prof. Shubhini encouraged all officers, staff members, and students to actively participate in environmental conservation initiatives and contribute towards creating a greener and more sustainable future. She emphasized that collective efforts are essential for preserving the environment for future generations.

Online workshop on IPR



NIPER-Raebareli, in association with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Nagpur, successfully organized an online workshop on "Intellectual Property Rights (IPR), Patents & Design Filing." The workshop featured an expert lecture by Dr. Bharat N. Suryawanshi

Innovations Displayed



On the occasion of National Technology Day, innovative technologies developed by Dr. Gopal Lal Khatik and Dr. Sandeep Chandrashekhara were showcased at the exhibition held at National Institute of Immunology, New Delhi.

Guest Lecture by Dr. Maushmi



NIPER-Raebareli organized an insightful guest lecture on "Development of a Rapid Diagnostic Kit for TTP: A Case Study" by Dr. Maushmi Kumar, Associate Professor & Head, Centre for Drug Design and Discovery, Somaia Institute for Research & Consultancy, Mumbai.

Dr Sandeep Chaudhary and his research group published a research article titled: “*Regioselective direct synthesis of mono- and bis-substituted benzimidazoles via base-switchable aerobic N-heterocyclic carbene organocatalysis*” in the journal Royal Society of Chemistry (Impact Factor: 4.3).

Dr. Saba Naqvi and her team’s research article has been accepted in the prestigious journal BioFactors (Impact Factor: 5.0).

Research Title: “*Phytoestrogenic Isoflavone Formononetin Attenuates Motor Deficits and Mitochondrial Impairment by Regulating SIRT1/PGC-1 α /NRF1/TFAM Axis in Parkinson’s Disease*”

Dr. Sandeep Chaudhary’s research group published a review article titled: “**Green and Sustainable Approaches towards Synthesis of Anticancer Bioheterocycles via Microwave Irradiations**” in the journal Bioorganic Chemistry (Impact Factor: 4.7).

Dr. Sanjay Tiwari, Dr. Ravinder Kaundal, and their team published a research article titled “*Rectally Administered Budesonide-Loaded Phase Transformable Premix Offers Improved Recovery of Intestinal Mucosa in Ulcerative Colitis*” in LANGMUIR.

Dr. Keerti Jain and her team, Department of Pharmaceutics, granted the Indian Patent (No. 583241) for their innovation titled “Composition of Micro-/Nano-sized Emulsions Containing Flavonoids and Methods of Preparation thereof”.

Dr. Keerti Jain and her research team successfully published a research article titled: “**Development and Characterization of N-Acetyl cysteine-Conjugated PAMAM Dendrimers: Biophysical Evaluation of Their Interactions with Proteins and Drug Delivery Applications**” published in the prestigious journal .

Dr. Rakesh Kumar Singh, Dr. Sandeep Chandrashekarappa, and their research team on published their research article in the Journal of Molecular Structure (Elsevier). **Research Title:** “*Synthesis and Evaluation of Cyclopenta[e]indolizine Derivatives as Potential Anti-Inflammatory Agents Targeting Inflammatory Mediators*”

Avtar Singh Gautam, PhD Scholar, under the supervision of **Prof. Rakesh Kumar Singh** published a research article titled: “*Chrysin Ameliorated Neurochemical and Behavioural Changes Mediated By Combined Exposure of Interleukin-17A With Amyloid Beta 1–42 in Mice*” has been published in the prestigious **Journal of Neuroimmune Pharmacology**.

Dr. Ravinder Kumar Kaundal and his research team published a research article, “**Apigenin Mitigates PFOA-Induced Activation of the NLRP3-Pyroptosis Axis and Associated Neurological Damage**” in the prestigious journal Environment & Health (Impact Factor: 6.3).

Dr. Sandeep Chaudhary’s research group published a research article titled “*Discovery of Novel 2-Substituted-5H-imidazo[2,1-b][1,3]thiazin-5-ones as Cytotoxic Synthons: Green Synthesis, Photophysical Characterization, Bioevaluation, in Silico and DFT Studies*” in the Journal of Molecular Structure (Elsevier).

Dr. Ravinder K. Kaundal and his research published a research article titled: “*Neutrophil extracellular traps as mediators of acute lung injury: bridging clinical and preclinical evidence*” in Archives of Medical Research (Impact Factor: 3.4).

Dr. Rahul Shukla and his research team’s research paper titled: “*Exploring Neuroprotective Activity of a Piperine Liposomal Thermogel in 3-nitropropionic acid-induced Huntington’s Disease Models*” Published in the Journal of Pharmaceutical Innovation (Springer)

Research group led by Dr. Ravinder Kaundal published their research article in ACS Chemical Neuroscience.

Research Title: “*Clemizole Mitigates Traumatic Brain Injury by Inhibiting Oxidative Stress, Neuroinflammation, and Apoptosis*”

Dr. Sandeep Chaudhary’s Bioactive Heterocycles and Catalysis (BHC) Research Group has been granted an Indian Patent (No. 586518) for their innovation titled: “**Acid-catalyzed Guareschi-Thorpe condensation for the synthesis of substituted pyridines.**”

Prof. Nihar Ranjan and his team’s research article titled “Hydroxy group modulated G-quadruplex binding, selectivity, and cellular uptake of styryl julolidine-benzothiazolium dyes” has been successfully published in Bioorganic Chemistry (Elsevier).

Dr. Keerti Jain and her research team from the Department of Pharmaceutics have been granted an **Indian Patent (No. 577338)** for their innovative work titled “*Novel Dendrimer Conjugates for Targeted Delivery of Drugs to Treat Life-Threatening Diseases.*”

Dr. Keerti Jain and her research team from the Department of Pharmaceutics granted an **Indian Patent (No. 587118)** for their innovative work titled “Method for Preparing an Antitubercular Cyclodextrin Complexes of Bedaquiline Fumarate.”

Research groups of Dr. Sandeep Chandrashekarappa and Dr. Ravinder Kaundal published their research article, “Ellagitannin-derived metabolite Urolithin A suppresses NCOA4-dependent ferritinophagy and attenuates ferroptosis following cerebral ischemia reperfusion injury,” in Food Bioscience (Impact Factor: 5.9).

Team at the Laboratory of Molecular NeuroTherapeutics (LMNT) published a **Research Title**ed : “*Glycogen Synthase Kinase-3 β Mediates Suppression of Neurite Outgrowth Through Sonic Hedgehog Signalling in Palmitic Acid-Exposed Neuro2A Cells*” in the **journal Molecular Neurobiology (Springer Nature, IF: 4.3)**.

Prof. Abha Sharma’s research group published a research article titled: “*Dual-mode Colorimetric and Viscosity Sensitive Fluorescent Probe for Selective Detection of Bisulfite in Food and Water Samples*” in the Microchemical Journal (Elsevier).

Dr. Sandeep Chaudhary’s BHC Research Group published an invited article in the prestigious journal Current Drug Discovery Technologies. The article, titled “**Fused 1H-/2H-Indazole as Bioactive Privileged Scaffolds: Synthetic Strategies and Pharmaceutical Applications**”, highlights significant advancements in medicinal chemistry and pharmaceutical research.

1st Position in Best Poster

Ms. Pooja Sanjiv Yeola, PhD Scholar (Department of Biotechnology), under the mentorship of Dr. Abhishek Dey, secured the 1st Position – Best Poster Presentation Award.

This achievement was earned at the National Conference on “Advancements, Challenges and Career Pathways in Biotechnology: Bridging Research Innovation and Industry”, held on 27–28 March 2026 at BBAU, Lucknow.

Best Poster Presentation

Mr. Kushal Adhikary, PhD Scholar (Department of Biotechnology), under the mentorship of Dr. Abhishek Dey, secured 1st Position – Best Poster Presentation Award.

This recognition was achieved at the *Conference-cum-Workshop on Pharmacoinformatics: Toxicity & Metabolism (PIToxMet)*, held from 11–13 March 2026 at NIPER S.A.S. Nagar, Punjab.

2nd Position at SPIRIT IITBHU

Ishita Jain student of Pharmacology and Toxicology have won Runner up (2nd position) in Fabrica Modelling at SPIRIT IITBHU 2026, Biofusion Mapping Healthcare through Innovation where she showcased the Bioplastic based 3D Bioteether designs. Held from 3rd- 5th April at Indian Institute of technology, Banaras Hindu University (IIT-BHU).



Ms. Preethi Parmeshwaran successfully defended her PhD viva voce examination under the supervision of Prof. Nihar Ranjan.



Priyanka Tiwari successfully defended her Ph.D. viva-voce examination under the supervision of Prof. Sanjay Tiwari.

International Travel Support

Dr. Mr. Ashish Dilip Sutar, Ph.D. Scholar in the Department of Pharmaceutics, working under the guidance of Dr. Rahul Shukla, received the

prestigious International Travel Support (ITS) from ANRF.

JSPS Bridge Fellowship

Dr. Sandeep Chaudhary, Associate Professor at NIPER-Raebareli, awarded the prestigious JSPS Bridge Fellowship 2026 by the Japan Society for the Promotion of Science for the year 2026–27.

This fully funded 30-day fellowship will further **strengthen research collaboration and academic networking between India and Japan**, fostering international scientific partnerships and innovation.

World's Top 5% Scientists

Prof. Rakesh K. Singh, Dean, NIPER-R & Head, Dept of Pharmacology & Toxicology & Regulatory Toxicology, Dr. Ashok Kumar Datusalia, Associate Professor, Department of Pharmacology & Toxicology / Regulatory Toxicology, Dr. Keerti Jain, Associate Professor, Department of Pharmaceutics/Regulatory Affairs, Dr. Gopal L. Khatik, Associate Professor, Department of Medicinal Chemistry and Dr. Sandeep Chandrashekharappa, Assistant Professor, Department of Medicinal Chemistry, recognized among the **World's Top 5% Scientists** in the 2025 SciRank Global Registry.

Award Winning Thesis

Dr. Lachhman Singh, former Ph.D. scholar of the Department of Pharmaceutical Analysis/ Medicinal Chemistry, declared the Winner at the **PharmInnova Research Competition 2026**.

RESEARCH & INNOVATIONS

Mr. Shashikesh Shukla, PhD Scholar and his supervisor Prof. Rakesh Kumar Singh published a review article entitled “Crosstalk between death-associated protein kinase 1-regulated mechanisms and dysfunctions in Alzheimer's disease” in the journal **Molecular Biology Reports**.

Team from the Departments of **Biotechnology** and **Pharmaceutics** published their review article, “How Crowding Shapes Protein Aggregation,” in **Current Opinion in Structural Biology**.

Dr. Rahul Shukla and his research team's review paper titled: “Nanotherapeutic strategies for mitigating sepsis induced multiorgan dysfunction” Published in the *Nanomedicine Journal* (Taylor & Francis) (Impact Factor: 3.9)

Dr. Sandeep Chaudhary's BHC Research Group has been granted an Indian Patent (Patent No. 591419) for their innovative invention titled: “An Improved Process for the Synthesis of Mono- and Bis-Substituted Benzimidazoles.”

Dr. Keerti Jain and her research team's article titled: “Development and evaluation of Captisol®-based inclusion complex of bedaquiline fumarate for enhanced pharmaceutical performance: a proof-of-concept study” published in the journal **Polymer Bulletin** (Impact Factor: 4).

Prof. Abha Sharma's research group published a research article titled: “Dual-mode Colorimetric and Viscosity Sensitive Fluorescent Probe for Selective Detection of Bisulfite in Food and Water Samples” in the *Microchemical Journal* (Elsevier).



पौधे लगाकर धरती को हरा-भरा बनाने का लिया संकल्प



OPPI Newsletter

Roche Pharma inks research pact with NIPER Raebareli

The partnership will include various industry-academia engagements such as a certificate program in regulatory affairs for students, guest lecture series by industry experts on emerging trends in AI for drug development.



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NIPER Raebareli signs MoU with Lofty Laboratories for pharma research, tech commercialisation

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New Delhi [India], May 8 (ANI): The National Institute of Pharmaceutical Education and Research (NIPER), Raebareli, on Friday signed a Memorandum of Understanding (MoU), Confidential Disclosure Agreement (CDA), and Technology Transfer Agreement with Lofty Laboratories, Hyderabad, to strengthen collaboration in pharmaceutical research, innovation and technology.

NIPER Raebareli, Roche Pharma partners to strengthen pharma education and research capability

Roche and NIPER Raebareli will work together to bridge the gap between academic learning and real-world industry practices, equipping students and faculty with insights into evolving pharmaceutical and regulatory landscapes.

By: EP News Bureau — On Mar 23, 2026



BREAKING NEWS, COLLABORATIONS & ALLIANCES

Roche Enters Academic-Industry Collaboration with NIPER Raebareli in India

The partnership aims to equip students and faculty with knowledge of evolving pharmaceutical and regulatory landscapes. March 19, 2026



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