AIP e Newsletter

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AMITY UNIVERSITY NOIDA CAMPUS

AMITY INSTITUTE OF PHARMACY

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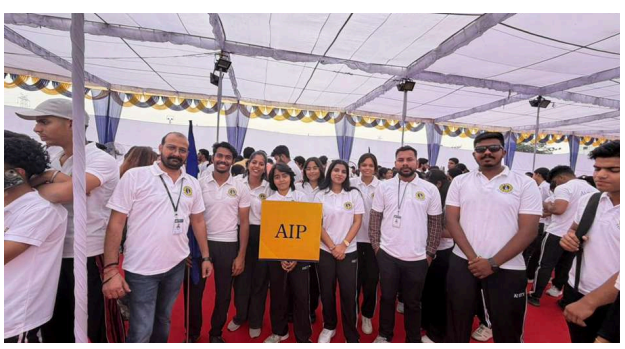
Glimpses of Current Issue.....



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Invited Guest Editorial

Prof. (Dr.) Bikash Medhi, MBBS, MD(AIIMS),MAMS,FIMSA
Professor,
Chairman IUPHAR: Basic and Translational Section,
& Ex-Additional Medical Superintendent (AMS),
Founder: Experimental Pharmacology Laboratory and Neurobehavioral laboratory (EPL & NBRL Lab: www.eplpgi.in)
Department of Pharmacology,
Ex-Chief Editor, Indian Journal of Pharmacology(IJP),
Editor, Drug Bulletin,
Coordinator PGIMER Pharmacovigilance and Materiovigilance Centre ,
Regional Coordinator, NADA (North Zone), Ministry of Youth and Sports, Government of India.
Co-Convener India Initiate Programme (IPS)
Ex Secretary Clinical Pharmacology of Indian Pharmacology Society,
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Artificial Intelligence Transforming Pharmacovigilance and Strengthening Patient Safety

Patient safety remains a cornerstone of modern healthcare, and pharmacovigilance plays a crucial role in ensuring the safe use of medicines. The World Health Organization defines pharmacovigilance as the science and activities related to detecting, assessing, understanding, and preventing adverse drug reactions and other medicine-related problems. With millions of patients consuming medications daily, while most benefit therapeutically, some experience adverse reactions that can significantly impact individual health and healthcare systems. Traditional pharmacovigilance methods, which largely depend on manual case processing and conventional statistical approaches, face increasing challenges due to the exponential growth of healthcare data from electronic health records, clinical trials, and digital platforms.

Artificial Intelligence (AI) has emerged as a transformative solution to address these challenges. Rather than merely automating routine tasks, AI introduces a paradigm shift in drug safety monitoring by enabling faster, scalable, and more accurate analysis of vast and complex datasets. Technologies such as machine learning, deep learning, and natural language processing allow pharmacovigilance systems to analyze structured and unstructured data far beyond human capability. These technologies can identify patterns, detect anomalies, and generate predictive insights that support early detection of safety concerns.

One of the most important applications of AI in pharmacovigilance is the automated detection and extraction of adverse drug reactions from clinical narratives, safety reports, and scientific literature. Natural language processing enhances the identification of relevant information, significantly reducing manual effort and improving accuracy.

Additionally, emerging data sources such as patient forums and social media platforms offer valuable real-world insights. and AI enables efficient screening of these sources for early safety signal detection.

AI also strengthens signal detection and prioritization by using advanced predictive models that can identify potential safety risks earlier than conventional methods. These systems help prioritize signals based on clinical relevance, allowing regulators and healthcare professionals to respond more efficiently. Furthermore, AI supports literature review and signal validation by rapidly analyzing published studies and extracting relevant clinical evidence, thereby accelerating regulatory decision-making.

Automation of safety case processing and coding is another significant advancement. AI-based systems improve efficiency, consistency, and speed in managing Individual Case Safety Reports, allowing pharmacovigilance professionals to focus on clinical evaluation and risk communication rather than administrative tasks. Integration with electronic health records, telemedicine, and wearable technologies also enables near real-time monitoring, shifting pharmacovigilance from a reactive to a proactive approach.

Despite its immense potential, the implementation of AI must address important ethical and regulatory considerations, including data privacy, transparency, and bias. Regulatory authorities emphasize the importance of validation, governance, and human oversight to ensure responsible use. Importantly, AI is not intended to replace healthcare professionals but to augment their expertise.

In conclusion, Artificial Intelligence is redefining pharmacovigilance by enhancing efficiency, accuracy, and predictive capabilities. By enabling earlier detection of drug safety risks and supporting informed decision-making, AI strengthens patient safety and public health. The future of pharmacovigilance lies in the successful collaboration between human expertise and intelligent technologies, ensuring safer healthcare systems for all.

Prof. (Dr.) Bikash Medhi

From the Desk of Editor-in-Chief

Amity Institute of Pharmacy, Noida, Uttar Pradesh, is a prestigious institution that offers education and training in the field of Pharmaceutical Sciences. The institute was founded in 2007 with a focus on research and innovation, aligning with the mission and vision of Amity University. At present, the institute provides a Bachelor of Pharmacy program with an intake of 100 students. Additionally, we offer Master of Pharmacy programs with specializations in Pharmaceutics, Pharmacology, Pharmaceutical Regulatory Affairs, Industrial Pharmacy, Pharmaceutical Chemistry, Pharmaceutical Analysis, Phytopharmacy & Phytomedicine. Furthermore, we also offer a rigorous & translational research-based Ph.D. program in Pharmaceutical Sciences. The institute is renowned for producing globally proficient, competent, and knowledgeable pharmacists who contribute to self-sufficient pharmaceutical companies and serve as practicing professionals. The institute has a robust network of over 8000 alumni who provide support and guidance to graduating pharmacists, helping them traverse the dynamic, demanding, diverse pharmaceutical industry with success. Our institute achieved the 18th rank in the National Institutional Ranking Framework (NIRF) 2025.

The quarterly AIP newsletter “Pharma Panorama” (ISSN 3049-0944) presents a comprehensive compilation of academic and curricular developments, teaching–learning activities, value-added courses, research outputs, intellectual property achievements, and other accomplishments of students and faculty during October-December 2025. A substantial number of papers are published by students and faculty members in indexed journals with good impact factors, and they have also submitted patents to the Indian patent office. A total of nine book chapters were published in Scopus indexed international books. Thirteen funded research projects from various agencies like Ayush, CCRUM etc are ongoing. In faculty’s achievement, Dr. Kalpana Nagpalhas been conferred with APTI young pharmacy teacher of the year award 2025. Dr. Shikha Bhaghel Chauhan was selected among top 50 Inspiring Women Minds by Inspiring Minds 2025. Dr. Rupesh Gautam delivered an Oral presentation at the “3rd Edition of International Conference on Diabetes and Endocrinology” held in Orlando, Florida, USA and Online on ‘Obesity and the microbiome: A hidden key to the weight management.’ Dr. Maryam Sarwat delivered the inaugural session and was invited speaker in National and International Conferences. Five Ph. D. Scholars successfully defended their thesis work, and two students have presented their Pre-Ph. D seminar. In convocation 2025 a total of 136 (B. Pharm & M. Pharm) and 14 Ph. D scholars received their degrees which was a proud moment for AIP. AIP proudly showcased its sporting excellence and indomitable enthusiasm at the 26th Inter-Amity Institutions Sports Meet-SANGATHAN 2025. AIP athletes achieved outstanding success across multiple events, bringing home gold medals in Yoga in both boys and girls categories, a remarkable achievement reflecting poise, strength, and mindfulness.

To welcome our new batch, with the title Starlit Masquerade: A Bollywood Gala-“Unmask the Star Within” Freshers 2025 contest marked the highlight of the celebration, embodying the spirit of confidence, personality, and creativity. AIP also celebrated National Pharmacy Week 2025 by conducting different events, rangoli competition, quiz competition, lecture on Pharmacists as Advocates of Vaccination by the Founder, Career Healthcare AI.

The lecture highlighted the evolving role of pharmacists in vaccine advocacy, public awareness, and evidence-based immunization practices, setting a strong academic foundation for the event. The second event of the series RADAR – Regulatory Affairs & Drug Analysis Review, LaunchPad 2025 – The Roadmap to Approval, was a regulatory simulation competition designed to replicate the process of obtaining product approvals. AIP conducted Departmental Lecture Series to provide students and faculty with opportunities to learn from leading experts and explore contemporary topics in the discipline. This time lecture was given by Prof. (Dr) Manoj Kumar from Amity Institute of Genome Engineering (AIGE) who presented an interactive and interesting session on “System Biology,/Data Science: and its Applications in Translational Research”. Several Placement drives were conducted by the placement committee. Students have written articles for this issue to showcase their interest in research and innovation and several achievements have been listed demonstrating their professional growth. In the end of the year, the QCI–NABET inspection was successfully conducted. During the inspection, various academic, administrative, and operational aspects of AIP were examined in detail.

I am pleased to introduce the fourth quarterly issue of the year 2025 of 'Pharma Panorama', the official newsletter of Amity Institute of Pharmacy, Amity University Uttar Pradesh, Noida.

Dr. Havagiray R. Chitme
Head of the Institute
Amity Institute of Pharmacy

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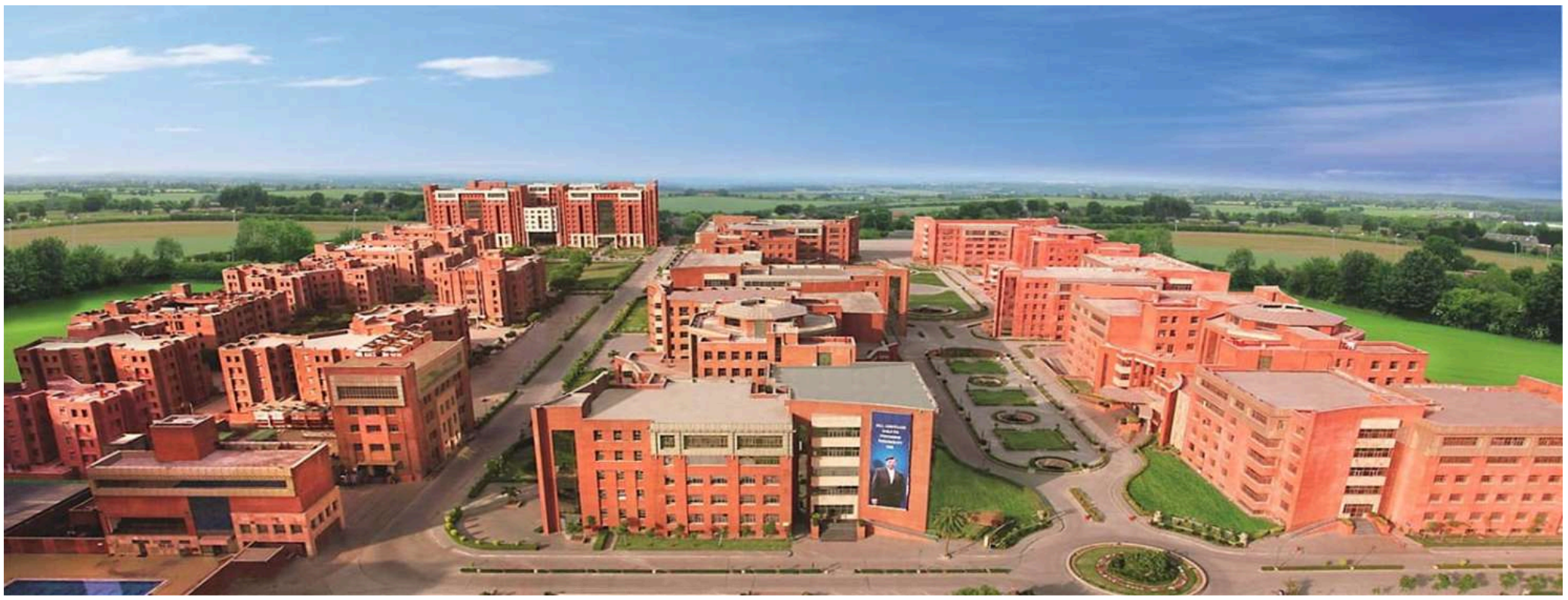

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About Us

Amity Institute of Pharmacy (AIP) is a well-established institution of Amity University, Uttar Pradesh, Noida having a high profile with interdisciplinary areas of specializations in Pharmacy offering UG, PG and PhD programs. Currently, AIP offers B.Pharm program with an intake of 100 and M.Pharm programs in Pharmaceutics, Pharmacology, Drug Regulatory Affairs, Pharmaceutical Chemistry, Pharmaceutical Analysis, Industrial Pharmacy and Phyto-Pharmacy. The Institute stands amongst top institutes with NIRF ranking and leads in the top 25 institutions since past 02 years. The Institute has received several research grants over last 05 years from funding agencies like SERB, ICMR, AAYUSH, CCRUM. AIP has more than 500 Scopus/WoS listed research publications and 25 patents to its credit in the last 05 years in diverse research areas like NDDS, Medicinal Chemistry, Neuropharmacology, Phyto-pharmaceuticals, Drug Regulatory requirements and pharmaceutical analysis etc.

The thrust areas of research include novel drug delivery systems for skin disorders and burns, drug discovery and development for cancer, diabetes, autoimmune diseases, neurodegenerative diseases like Alzheimer's, Parkinson's and Global regulatory framework for drugs, medical devices etc. The Institute is situated in a centrally air-conditioned four storey building. The Institute is having well equipped laboratories, one central instrumentation lab with HPLC, UV Spectrophotometer, ELISA Reader etc and Machine Room facilities. The faculties are well trained in diverse disciplines of Pharmacy and allied areas such as Pharmacology,

Pharmaceutics, Pharmacognosy, Medicinal Chemistry, Pharm. Biotechnology etc. All the faculty members regularly attend Seminars, Conferences of National and International levels as well as Staff Development Programmes and also FDP organized by Amity University.

VISION:
"To become a leading centre of excellence of pharmaceutical science and technology education to fulfil the aspiration of students and fostering translational research through technology transfer, start-ups and entrepreneurship."

OBJECTIVES:
•To be the most valued institution of pharmacy in the country
•To offer the industry-ready curriculum-based pharmacy programs
•To produce technically competent pharmacy professionals
•To meet the growing aspiration in the field of pharmacy and healthcare professionals
•To be the innovation and research driven globally competent pharmacy institute

Details of Research Centres in AIP

Prof. H. R. Chitme
HOI, AIP
Research Areas-Molecular pharmacology, Cytogenetics, Proteomics

Dr. Nitin Sharma
Professor & Centre Head – Pharmaceutics

Dr. Kalpana Nagpal Chaswal
Professor & Centre Head - PRA

Dr. Shikha Chauhan
Associate Professor & Centre Head - Industrial Pharmacy

Dr. Sangeetha Gupta
AP-III, Program Coordinator

Dr. Rajeev Kharb
Professor & Centre Head –Pharmaceutical Analysis

Dr. Ramanpreet Walia
Professor & Centre Head - Pharmaceutical Chemistry

Dr. Swati Madan
Professor & Centre Head - Pharmacognosy

Dr. Dheeraj Nagpal
Associate Professor

Dr. Alka Lohani
Associate Professor

Dr. Vikesh Kr. Shukla
Professor

Dr. Rupesh Gautam
Professor

Dr. Neerupma Dhiman
Professor

Dr. Vinay Lather
Professor

Dr. Tanveer Naved
Professor

Dr. Neha Jain
AP-III

Dr. Navneeet Sharma
AP-II

Dr. Rimpy Pahwa
AP-I

Dr. A. Porselvi
Associate Professor

Dr. Shikha Saxena
AP-III

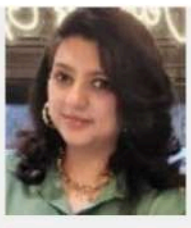
Dr. Archana Sharma
Associate Professor

Dr. Maryam Sarwat
Professor

Dr. Indu Singh
AP-II

Dr. Saman Fatima
AP-I

Dr. Priyanka Saroj
AP-II



Dr. Annie Gupta
AP-III

Dr. Hemlata Nimesh
AP-II

Dr. Kavita Munjal
AP-II

Dr. Shreya Kaul
AP-I

Dr. Saurabh Verma
AP-I

Dr. Shweta Bawari
AP-I

Dr. Puneet Gupta
AP-III

Dr. Smriti Sharma
AP-II

Dr. Saurabh Mitthal
AP-I

Dr. Prakash Haloi
AP-I

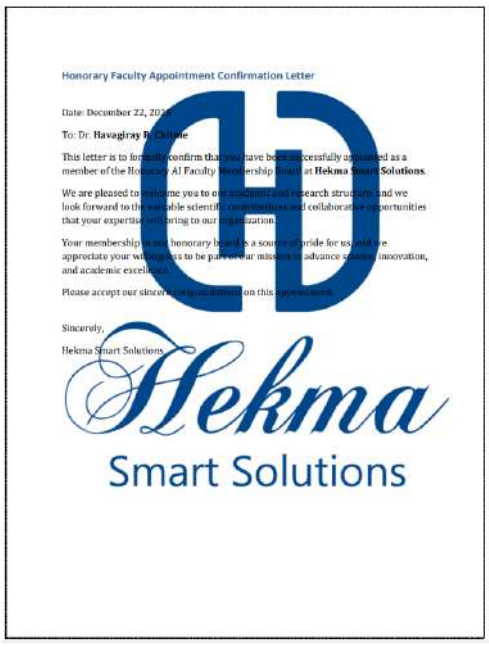
Dr. Richa Dingra
AP-II

Neha Kukreti
AP -I

Faculty Achievements

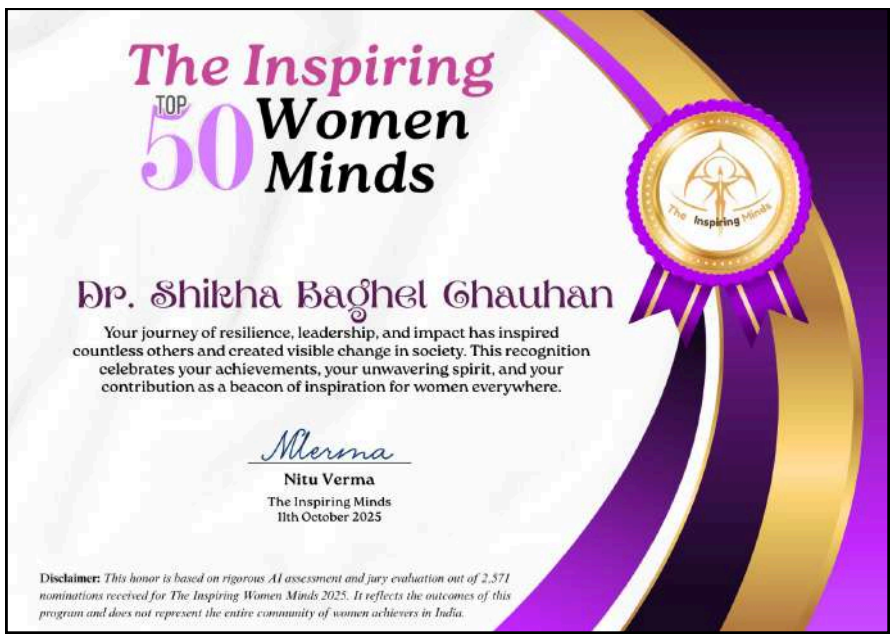
Dr. Havagiray R. Chitme

Dr. Havagiray R. Chitme got a patent grant on Carbon quantum dots derived from Nigella sativa seeds for antibacterial applications. Application number 202311017718 Published on 12/5/2023 filed on 16/03/2023 Granted on 08.10.2025. GRANT NO 571721.
Also appointed as member of Honorary Faculty membership board at Hekma Smart Solutions.



Dr. Shikha Baghel Chauhan

Dr. Shikha Baghel Chauhan exemplifies excellence, leadership, and inspiration. She has been selected among Top 50 Inspiring Women Minds 2025. Her dedication, vision, and commitment empower others and celebrate meaningful achievements. Through her unwavering pursuit of knowledge and service, she inspires future generations to lead with integrity, confidence, and purpose, creating a lasting impact on society.



Dr. Kalpana Nagpal

Dr. Kalpana Nagpal has been conferred with the APTI Young Pharmacy Teacher of the Year Award 2025 by the Association of Pharmacy Teachers of India (APTI).
This prestigious national-level award recognizes her outstanding contributions to pharmacy, education, academic excellence, and commitment to nurturing future pharmacy professionals. The recognition reflects her dedication to teaching, research, and professional service in the field of pharmaceutical sciences.

Dr. Rupesh Gautam

Dr. Rupesh Gautam delivered an Oral presentation at the “3rd Edition of International Conference on Diabetes and Endocrinology” held on October 23-25, 2025 in Orlando, Florida, USA and Online on ‘Obesity and the microbiome: A hidden key to the weight management.’ He also moderated the session.

Dr. Neha Jain and Dr. Vikesh Kumar Shukla

Dr. Neha Jain and Dr. Vikesh Kumar Shukla attended the Capacity Building Training Program on “Quality Control and Standardization of ASU&H Drugs” from 24.11.2025 to 28.11.2025 by Pharmacopoeia Commission for Indian Medicine & Homoeopathy (PCIM&H), Ghaziabad. They gained practical skills in applying modern analytical techniques (HPTLC, UPLC, microscopy) for quality evaluation of ASU&H drugs and comprehensive knowledge of regulatory requirements, pharmacopoeial standards, and Good Laboratory Practices (GLP) of ASU & H drugs.

Dr. Maryam Sarwat

Prof. Dr. Maryam Sarwat chaired the scientific session at National Conference on Frontiers in Antimicrobial Resistance: Research, Policy, and Practice at Jamia Millia Islamia, 6-7th Nov. 2025. The plenary lecture of the world renowned immunologist Prof .Javed Agrewala, IIT Ropar

She was invited lecture at 12th Convention of Society for Ethnopharmacology India & International Conference on “Traditional Medicine- Ancient & Modern Concordance”, at Jamia Hamdard on 29-31 Oct. 2025

She addressed the Key Note at Inaugural address and Media Interview at the National Conference on Frontiers in Basic Sciences: Advancing Climate Resilience, Drug Discovery & Epigenetics.

Publications

S. No.	Name of Faculty/Scientist	Full Publication Details	Publisher	Published (Month/Year)
1	**Dr. A Porselvi**	Arumugam Porselvi (2025). Enhancing Pharmacy Education with Mock Pharmacy Classrooms and AI Applications: A Comprehensive Review. Research Paper, 25(12), 76-93. https://journaleit.org/wp-content/uploads/8-Dec-2025.pdf	Journal of Electronics and Information Technology	8/12/2025
2	**Dr. A Porslevi**	Porselvi, A. "A Comprehensive Review on Novel Drug Delivery Systems Impact and Pharmacological Treatment for Parkinson's Disease." Goya Journal of Pharmaceutical Sciences, vol. 18, no. 12, 2025, pp. 79–95. DOI: 12.163022.Gj.2025.v18.12.007		12/12/2025
3	**Dr. Archana Sharma**	Panchal E, Yadav SK, Jain N, Chauhan M, Sharma A. Design and optimization of folate-targeted lipid-polymer hybrid nanoparticles co-encapsulating dexamethasone and curcumin for synergistic anti-inflammatory efficacy in rheumatoid arthritis. Journal of Applied Pharmaceutical Research. 2025 Oct 31;13(5):91-113.	Journal of Applied Pharmaceutical Research	31-10-2025
4	**Dr. Havagiray R. Chitme**	Chhabra B, Saxena G, Srivastava A, Mahawar N, Chitme H. β3-Adrenergic Receptor Agonism: A Novel Therapeutic Strategy for Metabolic Dysfunction in Polycystic Ovary Syndrome. SN Comprehensive Clinical Medicine. 2025 Oct 7;7(1):323.	Springer Nature Link	7/10/2025
5	**Dr. Havagiray R. Chitme**	Chaudhary V, Haloi P, Munjal K, Chitme HR. Pharmacotherapeutic importance of phytoconstituents in the management of Polycystic Ovary Syndrome (PCOS) and associated complications. Egyptian Journal of Basic and Applied Sciences. 2025 Dec 31;12(1):1-26.	Taylor & Francis	2/9/2025
6	**Dr. Havagiray R. Chitme**	Srivastava A, Saxena G, Mahawar N, Chhabra B, Chitme H. Pharmacotherapeutic Role of Ketohexokinase in Metabolic Disorders and PCOS: A Systematic Review. SN Comprehensive Clinical Medicine. 2025 Aug 30;7(1):282.	Springer Nature Link	30-08-2025
7	**Dr. Havagiray R. Chitme**	Mahawar N, Saxena G, Srivastava A, Chhabra B, Chitme H. Harnessing Secretin: A Systematic Review of its Emerging Role in Metabolic and Reproductive Health. Bratislava Medical Journal. 2025 Oct 30:1-9.	Springer Nature Link	30-10-2025
8	**Dr. Havagiray R. Chitme**	Bhati P, Haloi P, Munjal K, Chitme HR. Polycystic ovary syndrome: Unveiling the multifaceted contributors, mechanisms, and psychological impacts. Hormones and Behavior. 2025 Nov 1;176:105844.	Elsevier	1/11/2025
9	**Dr. Hemlata Nimesh**	Khan, Uzma, Sur, Souvik, Nimesh Hemlata. DNA-Binding Potential of Benzo[h]Quinolines: A Combined Molecular Docking and ADMET Approach, Macromolecular Symposia. DOI: 10.1002/masy.70274	John Wiley and Sons Inc	10/15/2025
10	**Dr. Kalpana Nagpal Chaswal**	Gupta N, Nagpal K. Nuclear nanomedicines: utilization of radiolabelling strategies, drug formulation, delivery, and regulatory aspects for disease management. Current Radiopharmaceuticals. 2025 Dec;18(4):262-82.	Benthem Science	1/12/2025
11	**Dr. Maryam Sarwat**	Husain S, Ajmani S, Shamim S, Sarwat M. Unveiling Innovative Approaches in Bone Tissue Regeneration: Advancements and Prospects. Journal of Drug Delivery Science and Technology. 2025 Jul 16:107289.	Elsevier	16-07-2025
12	**Dr. Neha Jain**	Arora A, Kaul S, Atre B, Pandey M, Nagaich U, Chaurasia S, Jain N. Design, development, and in vivo characterization of ocular pH-based in situ thixotropic gelling system for the therapy of Glaucoma. International Journal of Biological Macromolecules. 2025 Nov 12:149008.	Elsevier	12/11/2025
13	**Dr. Neha Jain**	Kumari R, Jain N, Kumar T, Maruthi M, Pandey M. Nature's touch in oncology: evidence based approach exploring phytoscience for emerging therapeutics of breast cancer. Clinical Phytoscience. 2025 Dec;11(1):24.	Springer Nature Link	25-11-2025
14	**Dr. Neha Jain**	Das J, Karmakar V, Pandey M, Jain N, Gorain B. Multifunctional approaches of cubosome-integrated thermoresponsive gels for intranasal brain targeting: Innovations, therapeutic potential, and challenges. Journal of Drug Delivery Science and Technology. 2025 Nov 29:107852.	Elsevier	29-11-2025
15	**Dr. Nitin Sharma**	Pathak S, Bera R, Sharma A, Kakkar D, Kurmi BD, Srivasatava P, Ghosh M, Sharma N. Biomimetic nanocarriers for targeted therapy of colorectal cancer. Expert Opinion on Drug Delivery. 2025 Dec 2;22(12):1959-75.	Taylor & Francis	2/12/2025
16	**Dr. Nitin Sharma**	Roy D, Ghosh M, Roy D, Sharma N, Bhatia R, Rangra NK. Effects of Ashwagandha on Reproductive Health: A Systematic Review of Sex-Specific Hormonal and Fertility Outcomes. Phytotherapy Research. 2025 Nov 17.	Wiley Online Library	17-11-2025
17	**Dr. Nitin Sharma**	Srivastava P, Sharma A, Sharma N, Ghosh M, Pathak S, Bera R, Arora A, Karwasra R. Functionalized Nanocarriers via Surface Biomolecules Ligation for Colorectal Cancer Treatment. Journal of Drug Delivery Science and Technology. 2025 Dec 5:107890.	Elsevier	5/12/2025

18	**Dr. Rupesh Gautham**	Dubey AK, Chandragiri SS, Geevarghese AV, Kapoor B, Gulati M, Rani P, Singh G, Chavda VP, Gundamaraju R, Bansal H, Gautam RK. Exploring the pharmacokinetics, drug-likeness, and toxicological features of anticancer flavonoids: a Boulevard to explore their clinical translational potential. Frontiers in Pharmacology. 2025 Oct 3;16:1648395.	Frontiers	3/10/2025
19	**Dr. Rupesh Gautham**	Matin M, Singla RK, Jóźwik A, Horbańczuk JO, Ksepka N, Wysocki K, Ijinu TP, Krishnakumar NM, Sasidharan SP, Ezenyi IC, Igoli J. Health-promoting and medicinal properties of Zingiberaceae family plants: A minireview with a special focus on galangal, turmeric, cardamom, and ginger. Current research in biotechnology. 2025 Jan 1;10:100329.	Elsevier	1/1/2025
20	**Dr. Rupesh Gautham**	Patidar A, Saini S, Gautam RK, Mishra D. Development and Evaluation of Nanoemulgel Loaded with Minoxidil. International Journal of Pharmaceutical Sciences and Nanotechnology (IJPSN). 2025 Aug 15;18(4):8155-65.	IJPSN	15/08/2025
21	**Dr. Rupesh Gautham**	.Husøy AK; Xu YY et al .....Gautam RK. Global, regional, and national burden of headache disorders, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. Lancet Neurol 2025; 24: 1005–15. https://doi.org/10.1016/S1474-4422(25)00402-8	Elsevier	12/11/2025
22	**Dr. Rupesh Gautham**	Kaur G, Thapa K, Sood P, Rani L, Rani I, Gautam RK, Goyal K, Ali H, Mishra R, Hussain MS, Gupta G. Therapeutic potential of protein–protein interaction modulators in antiviral research. Bioorganic Chemistry. 2025 Dec 8:109346.	Elsevier	8/12/2025
23	**Dr. Rupesh Gautham**	Kaur P, Solanki R, Manocha N, Gautam RK, Chopra H. Review of the potential effects of semaglutide and metformin in the management of polycystic ovary syndrome (PCOS) and obesity. Scripta Medica. 2025 Dec 31;56(6):1239-47.	Scripta Medica	31/12/2025
24	**Dr. Shikha Baghel Chauhan**	Mishra S, V A, Tarkar PS, Jain chirag, Chauhan SB, Singh I. Wearable Devices in Electrogenetics: Bridging Real-Time Monitoring and Genetic Modulation. Current Pharmacogenomics and Personalized Medicine. 2025 Oct 1;22.	Benthem Science	1/10/2025
25	**Dr. Shikha Baghel Chauhan**	Kolay A, Nayan S, Chauhan SB, Singh I, Jain C. Next-Generation Green Excipients in Drug Delivery: Regulatory Pathways, Safety Considerations, and Innovation. Drug Delivery Letters. 2025.	Benthem Science	10/10/2025
26	**Dr. Shikha Baghel Chauhan**	Chauhan SB, Soni T, Akhtar N, Chauhan Y, Singh I, Jain C. Advanced Gene Editing Technologies for Refining Precision Medicine: Revolutionizing Therapeutic Potential by Non-viral and Viral Drug Delivery Systems. Drug Delivery Letters. 2025.	Benthem Science	21/10/2025
27	**Dr. Shikha Baghel Chauhan**	Chauhan SB, Garg T, Jain C, Singh I. Modelling Metabolic Disorders with Stem Cell-Derived Gut and Liver Organoids: Insights into Probiotic Therapies. Recent Advances in Food, Nutrition & Agriculture. 2025.	Benthem science	11/11/2025
28	**Dr. Shikha Baghel Chauhan**	Chauhan SB, Tarkar PS, Jain C, Singh I. Pullulan as a precision stabilizer in biopharmaceutical lyophilization: a multifunctional excipient shaping the future of biopharmaceutical stability. Polymer Bulletin. 2026 Jan;83(1):46.	Springer Nature link	6/12/2025
29	**Dr. Shikha Baghel Chauhan**	Chauhan SB, Singh I, Chauhan Y, Jain C. Polythioesters as Biodegradable and Stimuli-Responsive Biomaterials for Targeted Drug Delivery Applications. Biomedical Materials & Devices. 2025 Dec 8:1-9.	Springer Nature link	8/12/2025
30	**Dr. Swati Madan**	Sharma KK, Gunasekhar T, Madan S, Priya E. S. S, Kale A, Pendakur B, et al. Molecular Docking and ADMET Evaluation of Functionalized Coumarin Analogs for Cancer Therapy. Journal of Carcinogenesis. 2025 Sep 13;24(2s):319–26.	Journal of Carcinogenesis	23/09/2025
31	**Dr. Swati Madan**	Prasad S, Madan S, Mangal AK, Singh R, Pawar S. IN VITRO A-AMYLASE AND A-GLUCOCIDASE INHIBITORY ACTIVITY AND ANTIOXIDANT CHARACTER OF PHALA TRIKADI KWATH: AN ANCIENT AYURVEDIC REMEDY FOR TYPE 2 DIABETES. Journal of Applied Bioanalysis. 2025 Nov 1;11(5).	Journal of Applied Bioanalysis	1/11/2025
32	**Dr. Swati Madan**	Prasad S, Madam S, Mangal AK, Singh R, Tripathi A, Singh R. Physicochemical Analysis of Phalatrikadi Kwath Churna as Promising Antidiabetic Formulation. Research Journal of Pharmacy and Technology. 2025 Dec 1;18(12):6070-6.		1/12/2025
33	**Dr. Vikesh Kumar Shukla**	Grover M, Sharma M, Shukla VK, Nayak SR, Sharma N. Regulatory Approval of CBRN Medical Countermeasures: Current Scenario and Way Ahead. Health Security. 2025 Dec 1;23(6):421-38.	Sage Publication	1/12/2025
34	**Dr. Vikesh Kumar Shukla**	Grover M, Sharma M, Shukla VK, Gulati S, Malakar K, Sharma N. A Systematic Review on Pediatric Neurological Devices: Ethical, Regulatory, and Technical Considerations. Neuroethics. 2025 Dec;18(3):41.	Springer Nature	4/9/2025
35	**Dr. Vikesh Kumar Shukla**	Grover M, Sharma M, Shukla VK, Chawla R, Nayak SR, Sharma N. Regulatory Framework for Emergency Approval of Medical Devices in India. Research Journal of Pharmacy and Technology. 2025 Oct 1;18(10):5054-60.	ProQuest	1/10/2025

36	**Dr. Viney Lather**	Rahi S, Rana A, Chandranand PS, Lather V. ADVANCING MRI TECHNOLOGY IN INDIA: A COMPARATIVE STUDY OF TRADITIONAL AND AI-BASED MRI MACHINES WITH REGULATORY CHALLENGES AND SOLUTIONS. Studies in Science of Science| ISSN: 1003-2053. 2025 Dec 24;43(12):471-85..	Studies of Science in Science	24-12-2025
37	**Dr. Viney Lather**	Das A, Sharma HK, Shamim NJ, Ahmed F, Singhal A, Upadhyay P, Grewal AS, Pandita D, Lather V. Nutraceutical Strategies for Enhancing Celiac Disease Management: A Review of Current Evidence. Current Nutrition & Food Science. 2025 Nov;21(9):931-44.	Benthem Science	4/9/2025

BOOK CHAPTERS

S. No.	Author Name	Book chapter details	Month and Year	Publisher	ISBN
1	Dr. Neha Jain	Chirag Jain, Shubham Kumar, Shreya Kaul, Manisha Pandey, Bapi Gorain, Najwa Mohamad, Neha Jain. Chapter 5: 3D Printing of Controlled Release Systems. In Book: Precision 3D Printing in Pharmaceutical Sciences: A Transformative Shift in Drug Manufacturing and Delivery Systems. Publisher: John Wiley & Sons, Inc. 2025:175-205. Doi: 10.1002/9781394337576.ch5	Nov 2025	Scrivener Publishing LLC.	Online 978-1-394-33757-6 Print 9781394337545
2	Dr. Neha Kukreti	Chapter 8 - Herbal approaches for the treatment of glioblastoma	Jan 2026	Academic Press	978-0-443-33319-4
3	Dr. Rupesh Gautham	Chapter 5/ Opportunity and Challenges in nanofiber technology to target stem cell and immunocomponent cells for cancer treatment	Nov 2025	Elsevier B.V	978-0-443-27745-0
4	Dr. Rupesh Gautham	Ch_6 / Applications of self-assembled peptide nanofiber in cancer chemotherapy	Nov 2025	Elsevier B.V	978-0-443-27745-0
5	Dr. Rupesh Gautham	Chapter 10 - Nanotechnology-assisted therapeutic antibodies against SARS-CoV-2 variants: Current findings and future perspectives	Dec 2025	Elsevier B.V	978-0-443-33002-5
6	Dr. Saman Fatima	Quadri, S.N., Tiwari, S., Fatima, S., Siddiqui, B., Abdin, M.Z. (2025). Clinical Trials and Future Directions in Herbal Treatments Against Hepatic and Cardiovascular Disease. In: Kuca, K., Patocka, J., Kumar, V., Dhalaria, R. (eds) Medicinal Plants and Their Bioactives in Human Diseases. Springer, Cham. https://doi.org/10.1007/978-3-032-01356-9_6	Oct 2025	Springer, cham	Online 978-3-032-01356-9 Print 978-3-032-01355-2
7	Dr. Shikha Baghel Chauhan	Gupta, Charu & Chauhan, Shikha. (2025). Engineered Fungal Cell Factories: Pioneering Sustainable Protein and Peptide Production. 10.1007/978-3-032-06478-3_9.	Nov 2025	Springer Nature	Online 978-3-032-06478-3 Print 978-3-032-06477-6
8	Dr. Swati Madan	The Use of Giloy (Tinospora cordifolia) and Its Extracts Against Diabetic Foot Ulcers. Green Healing: The Role of Medicinal Plants in Diabetic Foot Care.Shresth Aarya, Munjal Kavita, Singh Damini, Naved Tanveer, Madan Swati. Green Healing the Role of Medicinal Plants in Diabetic Foot Care, pp. 169-18.	Oct 2025	Nova	
9	Dr. Viney Lather	Synthetic Polymer-Derived Drug Delivery Systems for Diseases Like Rheumatoid Arthritis, Hepatitis, Nephropathy, and Pancreatitis	Sep 2025	CRC Press	9781003477389

Ph.D Awarded /ODC/Pre-Ph.D

Ph.D. Scholars

S. No.	Name of the scholar	Guide Name	Thesis Title	Status	Date of ODC/Pre Ph.D
1	Mr ASHISH KUMAR SINGH	Dr. Rajeev Kharb	DEVELOPMENT AND EVALUATION OF NANO ENCAPSULATED OCTACOSANOL FOR LIPID LOWERING EFFECT	ODC done and degree Awarded	Oct 31, 2025
2	Mr SHOBHIT MISHRA	Dr. Hemlata Nimesh	DESIGN,SYNTHESIS AND EVALUATION OF NOVEL HYBRID MOLECULES AS ANTICANCER AGENTS	ODC done and degree Awarded	Nov 17, 2025
3	Mr VIPRESH BHARDWAJ	Dr. Kalpana Nagpal	DEVELOPMENT AND EVALUATION OF ANTICANCER FORMULATION INCORPORATING PHENOLIC COMPOUNDS FROM SELECTED WILD BERRIES	Pre PhD. Seminar	Nov 10, 2025
4	Ms AANCHAL ARORA	Dr. Neha Jain	DESIGN, DEVELOPMENT AND CHARACTERIZATION OF OCULAR IN SITU GELLING SYSTEM FOR THE THERAPY OF GLAUCOMA	Pre PhD. Seminar	Dec 10, 2025
5	Ms BHAWNA ARORA	Dr. Ramanpreet Kaur Walia	SOLUBILITY AND BIOACTIVITY ENHANCEMENT OF HESPERIDIN AND NARINGENIN	ODC done and degree Awarded	Nov 12, 2025
6	Ms SHAILJA	Dr. Neha Jain	DESIGN, DEVELOPMENT AND CHARACTERIZATION OF CUBOSOMES LOADED GEL FOR THE MANAGEMENT OF ACTINIC KERATOSIS	ODC done	Dec 26, 2025
7	Ms SONALI SUNDRAM	Dr. Neerupma Dhiman	MICROWAVE ASSISTED SOLVENT ANTI-SOLVENT APPROACH FOR THE DEVELOPMENT OF MELATONIN LOADED NANO-FORMULATION TO IMPROVE NEUROPROTECTIVE ACTIVITY.	ODC done and degree Awarded	Nov 18, 2025




Group Photographs of the Ph.D. Scholars with External Examiners and AIP Faculty Members on the day of ODC.

Sanctioned/Ongoing Funded Research Projects

#	Name of the Investigator	Project No.	Funding Agency	Title of the project and duration	Sanctioned Amount (in Rs.)
1	Dr. Maryam Sarwat	3-158/2022-ccrum/Tech	CCRUM	To study the Immunomodulatory effect of Khamira-e-Gaozaban Sada (KGS) and Sugar Free KGS (sf KGS) on D-amphetamine (AMPH) Induced Mania Model of Bipolar Disorder (BD)	3,053,690
2	Dr. Maryam Sarwat (Co-PI)		CCRUM	In-vitro evaluation of antiviral activity of Unani Drugs and their green nanoparticles against Dengue virus	2,480,000
3	Dr. Annie Gupta	2655	CST, UP	Metabolomics based bioprospection of medicinal weed plant-*Achyranthus aspera* in search of elite chemotype in Uttar Pradesh	1,300,000
4	Dr. Puneet Gupta	3-52/2022-CCRUM/Tech	CCRUM	Formulation Development and preclinical evaluation of novel Unani dispersible tablets for immunomodulatory activity and as adjuvant to Anticancer therapy	3,053,690
5	Dr. Nitin Sharma	3-85/2023-CCRUM/Tech	CCRUM	Colon targeting of unani medicine via gum(polysaccharide) based oral formulation for effective treatment of irritable bowel syndrome/clinical investigation by gamma scintigraphy	2,241,000
6	Dr. Havagiray R. Chitme	CST/D-786 Project ID 4000	CST, UP	Fractionation, Characterization and Identification of Diagnostic Biomarker from Follicular Fluid of Patients Diagnosed with Endometriosis	1,636,000
7	Dr. Navneet Sharma	Registration no. : TPN/77817	DST, IIT Delhi	Textile Based NBC Nuclear, Biological and Chemical Decontamination Handwear, Funded Technology Development Transfer by Division,	5,590,000
8	Dr. Navneet Sharma	Order No: 1/9/2024-9th MSG/10	MoT, IIT, Delhi	Fabrication and Evaluation of the Gamma Protective Clothing, Funded by National Technical Textile Mission,	10,000,000
9	Dr. Nitin Sharma	CRG/2023/006908	ANRF (SERB), Delhi	Extraction, physicochemical characterization and application of Opuntia ficusindica plant polysaccharide f Apigenin delivery through nanocarrier approach	41,38,000/-
10	Dr. Nitin Sharma (Co-PI)	CRG/2023/003432	ANRF (SERB), Delhi	"Comprehending the correlation between nanoinformatics data and mechanistic nanoformulations	3,19,000/-
11	Dr. Swati Madan	Z-18017/188/CSS/NGO/ Ashwagandha-Campaign/ UP-01/2024-25-NMPB	NMPB, AYUSH, GOI	National campaign on Ashwagandha -a Health Promoter	18,90,000/-
12	Dr. Navneet Sharma	F No TECH-21/9/2025-CCRUM-HQ	CCRUM	Novel Unani Medicine infused Organic Oil based in-soles for diabetic foot care	2,751,760
13	Dr. Maryam Sarwat	F. No.Z.18017/187/CSS/R&D/UP-01/2025-26-NMPB-IV A	NMPB, AYUSH, GOI	Enhancement of Salidroside Content through Various Means in Rhodiola imbricata Edgew. from the Cold Desert of Leh Ladakh”	4,000,000

Patents Filed/Published/Granted

Sr. No.	Inventors	Titles	Application No.	Filing Date
1	Kanak, Dr. Prayas Singh, Ms. Farheen, Mr. Pankaj Pant, Dr. Samta Manori, Dr. Havagiray R. Chitme, Dr. K. K. Raina, Dr. Ravi K.	CARBON QUANTUM DOTS DERIVED FROM NIGELLA SATIVA SEEDS FOR ANTIBACTERIAL APPLICATIONS.	202311017718	10/8/2025
2	Nilay Biswas, Maryam Sarwat AIP, AUUP Email: msarwat@amity.edu	'JELLY AND GUMMY FORMULATIONS OF CISSAMPELOS PAREIRA L. FOR IMPROVED PALATABILITY AND THERAPEUTIC POTENTIAL'	202511120719	2/12/2025
3	Pritam Patra Amity Institute of Pharmacy Amity University, Noida Email: msarwat@amity.edu	'HERBAL FORMULATION OF TINOSPORA CORDIFOLIA EXTRACT FOR INFLAMMATORY JOINT DISORDERS AND METHOD FOR PREPARATION THEREOF'	202511123643	8/12/2025
4	Manya Bajaj Amity Institute of Pharmacy, Amity University, Noida, Uttar Pradesh Email: msarwat@amity.edu	'PLANT-BASED SKINCARE CREAM FORMULATION AND METHOD FOR PREPARATION THEREOF'	202511123646	8/12/2025
5	Sandeep Arora, Rimpy Pahwa, Navneet Sharma, Rakesh Sindhu AIP, AUUP Email: sarora2@pb.amity.edu, rpahwa@amity.edu, navneetrssharma@gmail.com, drrakeshsindhu@gmail.com,	'ETHOSOMAL NASAL IN-SITU GEL FORMULATION OF CARBAMAZEPINE AND ARIPIPRAZOLE FOR BRAIN-TARGETED THERAPY'	202511125211	11/12/2025
6	Neha Jain, Triveni, AIP, AUUP, Noida, Email: njain1@amity.edu	"TRANSFEROSOMAL GEL FORMULATION OF CICLOPIROX OLAMINE FOR ENHANCED SKIN PERMEATION IN ATHLETE'S FOOT TREATMENT AND PREPARATION METHOD THEREOF"	202411046497	6/17/2024

Starlit Masquerade: A Bollywood Gala-“Unmask the Star Within”

Freshers Party - Friday, 10th October 2025

Mr. & Ms. Freshers — B.Pharm & M.Pharm The Mr. and Ms. Freshers 2025 contest marked the highlight of the celebration, embodying the spirit of confidence, personality, and creativity. The contest featured multiple rounds including ramp walk, introduction, and a Q&A round judged by esteemed faculty members.
The winners were felicitated by the Guest of Honour and faculty coordinators during the closing ceremony. Their confidence and elegance truly reflected the theme, “Unmask the Star Within.”

B.PHARM MR. & MS. FRESHERS 2025:
1. Mr. Bastav Talukdar 2.Ms. Saanvi Dawar

M.Pharm MR. & MS. Freshers 2025:
1. Mr. Harsh Yadav 2. Ms. Prerna Varshney

Organisers & Key Contributors
- **Teacher Coordinators:** Dr. Neha Kukreti and Dr. Saman Fatima
- **Student Coordinator Heads:** Ms. Nupur Chauhan and Ms. Anshika Chaudhary
- **Judges:** Dr. Maryam Sarwat, Dr. Archana Sharma, Dr. Shreya Kaul
- **Guest of Honour:** Prof. (Dr.) Tanveer Naved – Deputy Dean, Amity Institute of Pharmacy, Noida, Prof. (Dr.) Havagiray Chitme – Head of Institution (HOI), Amity Institute of Pharmacy, Noida Along with all AIP faculty members, non-faculty staff, and Ph.D. scholars

Sangathan 2025

Inter-Amity Institutions Sports Meet

AIP Shines at the 26th Inter-Amity Institutions Sports Meet — SANGATHAN 2025

The Amity Institute of Pharmacy (AIP) proudly showcased its sporting excellence and indomitable enthusiasm at the 26th Inter-Amity Institutions Sports Meet — SANGATHAN 2025, organized from 22nd September to 28th October 2025 at Amity University, Noida. SANGATHAN, an annual celebration of athleticism, teamwork, and unity across Amity institutions, once again highlighted the integral role of sports in fostering holistic development among students.

Under the esteemed leadership of Prof. (Dr.) H. R. Chitme, Head of the Institute, AIP participants displayed remarkable discipline, dedication, and competitiveness throughout the event. The sports contingent received invaluable guidance and motivation from the Faculty Sports Coordinators — Dr. Navneet Sharma, Dr. Prakash Haloi , and Dr. Indu Singh and Mr. Rahul Tyagi — whose unwavering support and mentorship contributed immensely to AIP's strong performance.

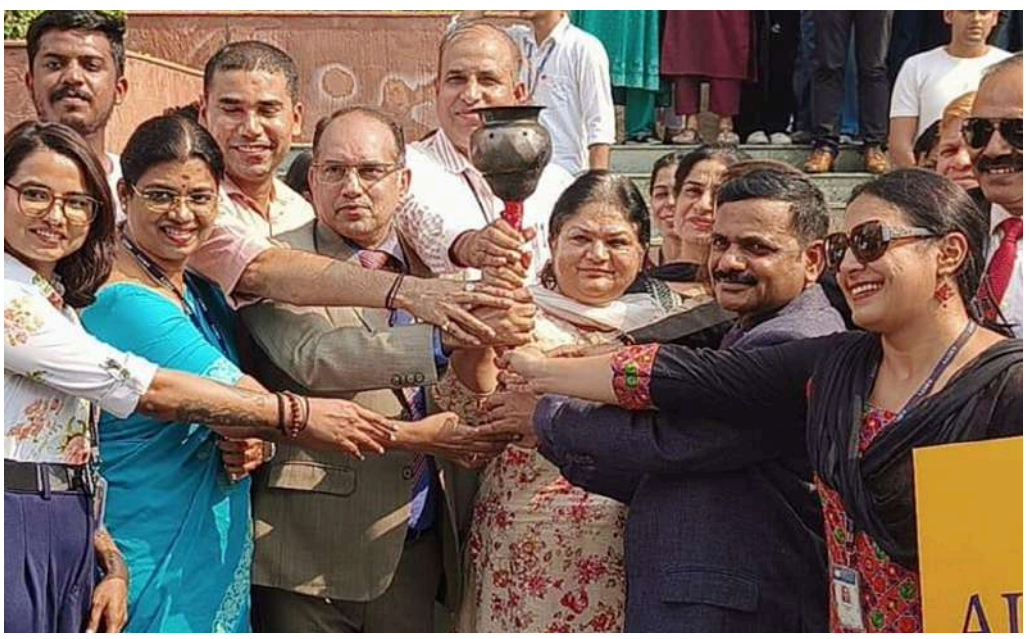
Leading the charge on the field were Boys Sports Captain Aadityavir Sharma, Girls Sports Captain Lovenya, and Vice-Captain Aditya Mishra, whose leadership inspired the entire team to strive for excellence and represent AIP with pride. Their sense of unity and sportsmanship set a shining example for all participants.

AIP athletes achieved outstanding success across multiple events, bringing home gold medals in Yoga in both boys and girls categories, a remarkable achievement reflecting poise, strength, and mindfulness. The institute further demonstrated its sporting prowess with a gold medal in Girls' Lawn Tennis, thanks to the stellar performance of Nisha Rani, Tanushree, Aditi Tiwari, and Ishanya Sharma. Their coordination, determination, and strategic play earned them well-deserved victory.

In individual events, Aadityavir Sharma secured a bronze medal in the 50-meter backstroke, showcasing both skill and dedication in the swimming category. His achievement added another proud moment to AIP's list of triumphs.

SANGATHAN 2025 was not just a competition, but a vibrant celebration of discipline, teamwork, and the Amity spirit. The accomplishments of AIP's students stand as a testament to the institute's ongoing commitment to nurturing well-rounded individuals excelling in academics and sports alike. With the continued guidance of faculty coordinators and the visionary leadership of Dr. H. R. Chitme, AIP continues to uphold its legacy of excellence, integrity, and athletic distinction.

Tanushree Upadhyay (AIP), Aditi Tiwari (AIP), Ishanya Sharma (AIP), Nisha Rani (YOGA)
Sport - Lawn Tennis , Position - First



NATIONAL PHARMACY WEEK 2025

RANGOLI COMPETITION - Thursday, 20th November 2025

Objective

The rangoli competition was conducted as part of National Pharmacy Week 2025 to visually highlight the theme “Pharmacists as Advocates of Vaccination.” The purpose of the event was to provide students with a creative platform to depict the significance of vaccination and the pharmacist’s contribution to strengthening public health. It aimed to inspire artistic expression, promote awareness, and encourage participants to engage with health-related themes in an impactful and meaningful way.

Details of the Event

The rangoli competition commenced with welcoming remarks and a brief introduction to the National Pharmacy Week 2025 theme, “Pharmacists as Advocates of Vaccination.” Participants were then allotted time to plan and create their rangoli designs, each reflecting the importance of vaccination and the pharmacist’s role in community health. A total of 6 teams took part, showcasing vibrant and thoughtful artwork. Judges evaluated the designs based on creativity, relevance to the theme, and overall presentation. The event concluded with the announcement of winners, appreciation of all participants, and a closing note thanking everyone for their enthusiastic involvement.

The judges for rangoli competition were:-

1. Dr. Shikha Saxena
Faculty of Pharmaceutical Analysis,
Amity Institute of Pharmacy, Amity University, Noida

2. Dr. Alka Lohani
Faculty of DRA,
Amity Institute of Pharmacy, Amity University, Noida

Organising team
Faculty Coordinator: -
Dr. Archana Sharma
Student Coordinators: -
Asim Rahman, Anuj Mishra, Bhumika Durgapal, Priya Jha, Tanya & Kirti Singh

Outcome

The rangoli competition encouraged participants to deepen their understanding of vaccination awareness while expressing the theme through creativity and visual communication. Students enhanced skills such as teamwork, design interpretation, and thematic presentation. The event successfully fostered a sense of responsibility toward public health promotion, motivating participants to support and advocate for vaccination initiatives. Many students expressed enthusiasm for engaging in more health-themed creative activities in the future, reinforcing the core message of National Pharmacy Week 2025.

NATIONAL PHARMACY WEEK 2025

QUIZ COMPETITION - Thursday, 20th November 2025

Objective

The quiz competition was organized under the aegis of National Pharmacy Week 2025 to promote awareness and knowledge about the theme "Pharmacists as Advocates of Vaccination." The event aimed to educate participants on the vital role pharmacists play in vaccine advocacy, public health promotion, and evidence-based immunization practices. It was conducted to encourage active learning, sharpen decision-making skills, and inspire students to become informed, responsible healthcare professionals contributing to community well-being.

Details of the Event

The quiz competition began with warm opening remarks, welcoming the Deputy Dean, HOI, judges, faculty members, and students, followed by a brief introduction to the National Pharmacy Week 2025 theme, "Pharmacists as Advocates of Vaccination." The event featured multiple engaging rounds, including MCQs, rapid-fire, and application-based questions that kept participants actively involved throughout. The final round was Judges exclusive round where judges asked the winning questions. A total of 8 teams competed, showcasing their knowledge, teamwork, and quick-thinking abilities.

The session also included interactive moments where the audience could participate in bonus questions, creating an energetic and educational atmosphere. The program concluded with the announcement of winners, distribution of certificates, and a closing note expressing gratitude to all attendees for their enthusiastic participation.

The judges for the quiz competition were: -

1. **Dr. Ramanpreet Walia**
Professor and Centre Head Pharmaceutical Chemistry
Amity Institute of Pharmacy, Amity University, Noida
2. **Dr. Neerupma Dhiman**
Professor
Faculty of Pharmaceutical Analysis
Amity Institute of Pharmacy, Amity University, Noida
3. **Dr. Maryam Sarwat**
Professor
Faculty of Pharmacognosy and Phytomedicine
Amity Institute of Pharmacy, Amity University, Noida

Organising team

Faculty Coordinator: -

Dr. Archana Sharma

Student Coordinators: -

Asim Rahman, Anuj Mishra, Bhumika Durgapal, Priya Jha, Tanya & Kirti Singh

Outcome

The quiz competition strengthened participants' understanding of vaccination practices and the expanding role of pharmacists in public health. Students enhanced key skills such as quick decision-making, teamwork, and evidence-based thinking through the competitive yet educational quiz rounds. The event successfully motivated participants to stay informed about current vaccination guidelines and public health initiatives. Many students expressed a commitment to promoting vaccine awareness within their communities, aligning with the National Pharmacy Week 2025 theme of empowering pharmacists as advocates of vaccination.

NATIONAL PHARMACY WEEK 2025

"Pharmacists as Advocates of Vaccination."

Objective

The Power Point Presentation Competition and Guest Lecture were organized under the aegis of National Pharmacy Week 2025 to promote awareness and understanding of the theme "Pharmacists as Advocates of Vaccination." The events aimed to educate participants on the critical role of pharmacists in vaccine advocacy, public health promotion, and evidence-based immunization practices. Through expert insights and student-led presentations, the program encouraged active learning, enhanced communication and decision-making skills, and inspired participants to become informed, responsible healthcare professionals committed to improving community health and vaccination awareness.

Details of the Event

The event commenced with an inaugural session, including warm opening remarks welcoming the Deputy Dean, Head of Institution, guest speaker, judges, faculty members, and students. This was followed by an insightful guest lecture delivered on the theme of National Pharmacy Week 2025, "Pharmacists as Advocates of Vaccination." The lecture highlighted the evolving role of pharmacists in vaccine advocacy, public awareness, and evidence-based immunization practices, setting a strong academic foundation for the event.

Following the guest lecture, the presentation competition was conducted. A total of 16 participants took part in the competition and were organized into 10 teams, each working collaboratively to present their assigned topics. The competition provided an effective platform for participants to showcase their presentation skills, teamwork, and subject knowledge while emphasizing the pharmacist's role in public health promotion. The presentations encouraged critical thinking, effective communication, and professional confidence.

The program concluded with feedback from the judges, announcement of winners, distribution of certificates, and a vote of thanks expressing sincere appreciation to the guest speaker, faculty members, judges, and participants for their enthusiastic involvement.

The judges for the quiz competition were: -

1. Dr. Navneet Sharma
Faculty
Amity Institute of Pharmacy, Amity University, Noida
2. Dr. Archana Sharma
Faculty
Amity Institute of Pharmacy, Amity University, Noida
3. Dr. Puneet Gupta
Faculty
Amity Institute of Pharmacy, Amity University, Noida

Organizing team

Faculty Coordinator: -
Dr. Ramanpreet Walia and Dr. Shikha Saxena
Student Coordinators: -
Anchal Rai, Apurva Singh, Rochak Verma, Utsav Vats, Aditya Malik

Outcome

The competition strengthened participants' understanding of vaccination practices and the expanding role of pharmacists in public health. Students enhanced key skills such as critical thinking, effective communication, teamwork, and evidence-based decision-making through active participation. The event successfully motivated participants to stay informed about current vaccination guidelines and public health initiatives. Many students expressed a commitment to promoting vaccine awareness within their communities, aligning with the National Pharmacy Week 2025 theme of empowering pharmacists as advocates of vaccination.

RADAR – Regulatory Affairs & Drug Analysis Review (Part 2)

Event Title: RADAR – Regulatory Affairs & Drug Analysis Review (Part 2)

Event Name: LaunchPad 2025 – The Roadmap to Approval

Date: 26th September 2025

Organized by: INYAS & Centre of Pharmaceutical Regulatory Affairs, AIP, AUUP

Convener: Dr. Kalpana Nagpal

The RADAR (Regulatory Affairs & Drug Analysis Review) series is an academic initiative organized by the Centre of Pharmaceutical Regulatory Affairs in collaboration with INYAS. It aims to strengthen regulatory knowledge, critical thinking, and professional presentation skills among postgraduate scholars through interactive and simulation-based learning events.

The second event of the series, LaunchPad 2025 – The Roadmap to Approval, was a regulatory simulation competition designed to replicate the process of obtaining product approvals. Each team of three students represented different regulatory roles, focusing on domestic approval, trademark and intellectual property protection, and export compliance.

Event Highlights:

- Participants presented comprehensive approval roadmaps for assigned product types.
- Teams displayed sample forms, mock dossiers, and visual aids to support their presentations.
- Judges evaluated teams based on regulatory accuracy, clarity, and innovation.
- The event encouraged teamwork, analytical reasoning, and real-time problem-solving skills.

Conclusion:

The second chapter of the RADAR series successfully blended regulatory learning with practical application. Through simulation-based teamwork, students gained valuable exposure to the real-world product approval process. The event fostered analytical thinking, creativity, and collaboration, significantly enriching the academic and professional growth of budding regulatory professionals.

Departmental Lecture Series

Objective

- Encourage interdepartmental research collaboration
- Provide platform to discuss ongoing research activities.
- Promote joint supervision of UG, PG and PhD research projects.
- Identify research facilities which can be shared for mutual benefits.
- Support multi and trans-disciplinary research at AIP.
- Vitalize network with leading in-house researchers.
-

Eminent Speaker

Name: Prof. (Dr) Manoj Kumar
Organization: Amity Institute of Genome Engineering (AIGE)

Details of the Event

The event started with the opening remarks by Dr Shikha Saxena discussing about the importance of Departmental Lecture Series under the leadership and vision of Prof.(Dr) HR Chitme. The speaker of the event Dr Manoj Kumar was welcomed, and Dr HR Chitme addressed the gathering. Dr Manoj gave the interactive and interesting session on Systems Biology/Data Science and its application in translational research followed by the question answers and queries by the faculties. In the end, Dr Prakash Haloi gave vote of thanks. Faculty Members of AIP attended the event.

Organising team

1.Dr Shikha Saxena (Assistant Professor)
2.Dr Prakash Haloi (Assistant Professor)
3.Anchal Rai (Student Volunteer)
4.Apurva Singh (Student Volunteer)
5.Yashwardhan Singh Panwar (Student Volunteer)
6.Surbhi Arora (Student Volunteer)

Outcome

A.Building better multi and trans-disciplinary research capacity
B.Joint publication, patenting, research projects, student project supervision.
C.Platform for exchange of ideas and knowledge sharing

Placement Drives

The Amity Institute of Pharmacy is pleased to present a high-quality summary of the On-Campus Placement Drives conducted during October–December 2025, reflecting the Institute's continued commitment to academic excellence, professional competence, and strong industry engagement. The 2025 placement season marked a significant milestone with the participation of reputed pharmaceutical organizations offering roles across research, technical, and sales domains. These recruitment drives not only opened promising career pathways for our students but also reaffirmed the Institute's vision of nurturing industry-ready professionals equipped with sound technical knowledge, ethical values, adaptability, and leadership skills.

Through continuous interaction with industry, structured pre-placement training, and focused career guidance initiatives, the Placement Cell strives to enhance student employability in alignment with evolving pharmaceutical industry standards. The on-campus drives also facilitated meaningful dialogue between students and industry leaders, enabling students to gain insights into corporate expectations, emerging trends, and long-term professional growth opportunities.

ON-CAMPUS RECRUITMENT DRIVE HIGHLIGHTS – 2025

Company Name: Servier

- **Date: 11 December 2025**
- **Time: 10:00 AM – 8:00 PM**
- **HR Representative: Ms. Aarti Thapar, Vice President – HR**
- **Position Offered: Scientific Officer – Trainee**
- **Venue – AIP, Amity University, Noida Campus.**

Students Selected:

- **Rudraksh (B.Pharm 8th Sem)**
- **Lovenya (B.Pharm 8th Sem)**
- **Kusuma (B.Pharm 8th Sem)**

The Servier recruitment drive focused on identifying candidates with strong scientific acumen, analytical ability, and research orientation, reflecting the Institute's emphasis on academic rigor and innovation-driven learning.

Company Name: Alembic Pharma

- **Date: 19 December 2025**
- **Time: 10:00 AM – 4:00 PM**
- **HR Representative: Mr. Nitin**
- **Position Offered: Trainee Sales Officer**
- **Venue – AIP, Amity University, Noida Campus.**

Students Selected:

- **Vishal Sharma (B.Pharm 8th Sem)**
- **Tapish Prateek (B.Pharm 8th Sem)**
- **Mohak Hans (B.Pharm 8th Sem)**

The Alembic Pharma recruitment drive emphasized communication skills, market awareness, and professional confidence, highlighting the Institute's holistic approach to student development.

Articles by Students

Dual Targeting of NLR family pyrin domain containing 3 (NLRP3) Inflammasome and Proprotein Convertase Subtilisin/kexin type 9 (PCSK9) : An Emerging Concept in Cardiovascular Therapy

Introduction

Cardiovascular diseases (CVDs) continue to be the leading cause of death worldwide, despite the widespread use of lipid-lowering and antihypertensive therapies. A major reason for this ongoing burden is that cardiovascular disease is multifactorial, involving both chronic inflammation and abnormal lipid metabolism. Addressing only one pathway often leaves a significant “residual risk.” To overcome this limitation, researchers are now exploring dual drug targeting strategies. One promising and innovative approach is the simultaneous targeting of the NLRP3 inflammasome and PCSK9, a concept that is still under research and not yet used in routine clinical practice. The NLRP3 inflammasome is a key regulator of innate immunity and vascular inflammation. Its activation leads to the release of inflammatory cytokines such as interleukin-1β, which promote endothelial dysfunction, plaque instability, and progression of atherosclerosis. Persistent NLRP3 activation has been linked to increased cardiovascular events and adverse cardiac remodeling. In contrast, PCSK9 (Proprotein Convertase Subtilisin/Kexin Type 9) plays a crucial role in cholesterol homeostasis. By enhancing the degradation of LDL receptors, PCSK9 increases circulating LDL cholesterol levels, accelerating atherosclerotic plaque formation. Recent studies also suggest that PCSK9 may directly contribute to vascular inflammation, independent of its lipid-lowering role.

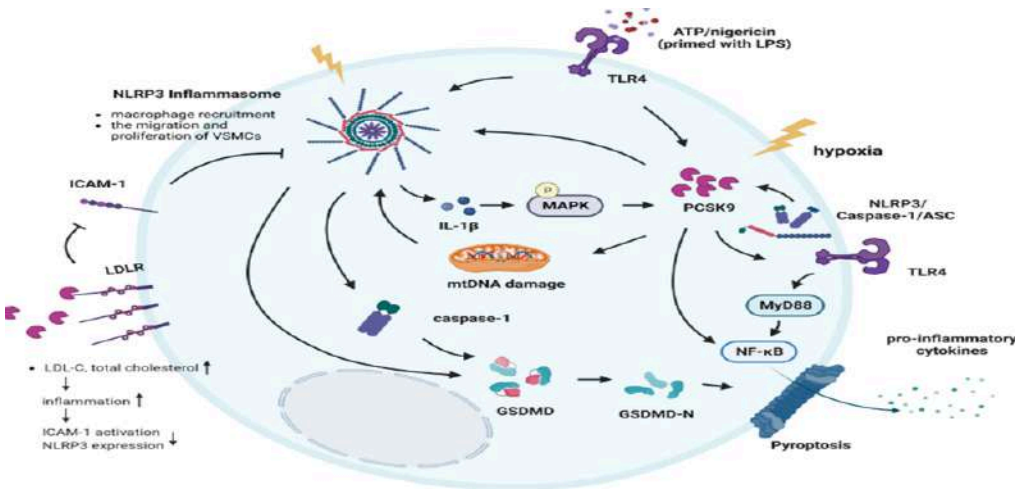


Figure 1: Interactions between PCSK9 and the NLRP3 inflammasome signaling pathway. ATP and nigericin simultaneously induced the NLRP3 inflammasome in cells primed with LPS and induced PCSK9 expression.

Conclusion

The rationale for dual targeting lies in addressing both inflammation and dyslipidemia simultaneously. While current lipid-lowering therapies effectively reduce cholesterol, they do not fully suppress vascular inflammation. Dual inhibition of NLRP3 and PCSK9 may therefore provide better plaque stabilization, reduce disease progression, and lower the risk of recurrent cardiovascular events.

At present, this strategy remains at the experimental and preclinical stage, with evidence mainly from animal and cellular studies. However, it represents an exciting future direction in cardiovascular research. In concise, dual targeting of NLRP3 inflammasome and PCSK9 highlights a next-generation approach aimed at comprehensive cardiovascular risk reduction by tackling the disease at its core mechanisms.

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Name – Ms. Kashish Chaudhary
Program – M. Pharm (Pharmaceutical Chemistry)
Enrollment No. A10655025012
Batch – 2025 - 27
Semester – 2nd Sem

Nanoparticle-Mediated Drug Delivery in Alzheimer’s Disease

Alzheimer’s disease (AD) is a progressive brain disorder and the most common cause of dementia, affecting memory, thinking, and behavior. It mainly occurs in older adults, but its impact extends to families, caregivers, and healthcare systems worldwide. In Alzheimer’s disease, two abnormal protein changes damage brain cells:

·Amyloid plaques build up between nerve cells and block communication.

·Tau Protein tangles develops inside neurons and leads to cell death. As a result the brain gradually shrinks, especially areas memory and learning.

One of the biggest challenges in Alzheimer’s treatment is the blood–brain barrier (BBB). The BBB prevents ~98% of drugs from entering the brain. Many promising anti-Alzheimer drugs fail because they cannot reach neurons in sufficient concentration. Nanoparticle-mediated drug delivery is being researched to overcome the BBB and deliver drugs directly to the brain. Nanoparticles offer fresh possibilities for enhancing drug delivery across the blood-brain barrier. These nanoscale delivery devices could be developed to encapsulate drugs, protecting them from deterioration and allowing for accurate drug delivery to the brain parenchyma.

Additionally, nanoparticles can interact with transporters or receptors expressed on BBB endothelial cells to promote transcytosis and efficient drug delivery to the central nervous system. Surface alterations and functionalization methods enable this. A range of nanoparticle-based strategies, including lipid-based, polymeric, and inorganic nanoparticles, which have shown encouraging results in boosting drug transport over the BBB, will be reviewed and examined. Nanoparticle-mediated drug delivery is a promising future strategy for Alzheimer's disease. By overcoming the blood–brain barrier and targeting disease pathways more precisely, nanoparticles may transform Alzheimer's treatment from symptom control to true disease modification.

Types of Nanoparticles Under Research for Alzheimer's

1. Lipid-Based Nanoparticles

·Can carry hydrophobic and hydrophilic drugs

·Biocompatible and biodegradable

·Used to deliver anti-amyloid drugs and antioxidants

Example: Curcumin-loaded liposomes for amyloid plaque reduction

2. Polymer-Based Nanoparticles

·Controlled and sustained drug release

·Protect drugs from enzymatic degradation

Examples: PLGA, PEG nanoparticles

3. Metal Nanoparticles

·Can bind amyloid-β peptides

·Useful for diagnosis or therapy (theranostics)

Examples: Gold, iron oxide nanoparticles

Gold nanoparticles can:

- Prevent amyloid aggregation
- Help in imaging plaques

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Name – Ms. Sanjana Mishra

Program – M. Pharm (Pharmaceutical Chemistry)

Enrollment No. A10655025007

Batch – 2025 - 27

Semester – 2nd Sem

Targeting RNA with Small Molecules: Opportunities & Challenges

Introduction

Drug discovery has mainly focused on protein targets, limiting treatment options for many diseases. Recent studies show that RNA is not just a genetic messenger but an active regulator of cellular processes such as gene regulation, splicing, and protein synthesis. The identification of functional messenger and non-coding RNAs has made RNA an important but underexplored therapeutic target. RNA forms specific structures that are essential for its function, and disruptions in these structures or abnormal RNA protein interactions are linked to diseases including cancer, neurodegenerative disorders, and viral infections. Small molecules are attractive for targeting RNA due to their good cellular uptake and drug-like properties, as demonstrated by RNA-binding antibiotics and splicing modulators. However, challenges such as RNA flexibility and limited binding pockets remain. Advances in RNA biology and drug design are now helping to overcome these limitations, opening new opportunities for RNA-targeted therapies.

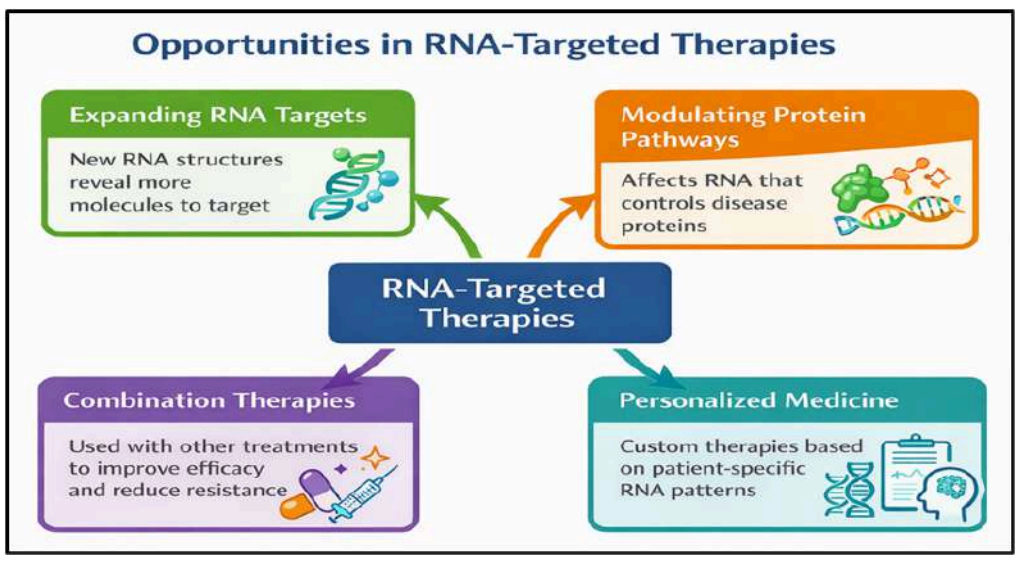

Figure 1: Key Opportunities in RNA-Targeted Drug Development

Challenges in RNA-Targeted Therapies:

Targeting RNA with small molecules faces several obstacles, primarily due to RNA's negatively charged backbone and structural flexibility, which complicate selective binding and increase off-target effects. Many RNA targets lack well-defined binding pockets, leading to weak affinity and the need for extensive optimization. Limited cellular uptake, suboptimal pharmacokinetics, and metabolic instability further restrict therapeutic efficacy. Additionally, RNA structural dynamics and mutational adaptability can reduce sustained target engagement. These challenges underscore the need for advanced design strategies, improved delivery systems, and robust screening approaches in RNA-targeted drug development.

Conclusion

Targeting RNA with small molecules offers a promising way to address previously undruggable disease pathways and enable precision therapies.

Although challenges in selectivity and delivery remain, advances in structure-guided design, AI-driven discovery, and RNA biology are rapidly expanding druggable RNA targets. These developments position RNA-targeted small molecules as a transformative strategy for treating a wide range of diseases.

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Name - Ms. Saloni Kumari
Program – M. Pharm (Pharmaceutical Chemistry)
Enrollment No. - A10655025008
Batch: 2025-2027
Semester – 02

How social media is driving the growth of the Pharmaceutical field and education

The pharmaceutical field plays a vital role in improving public health by ensuring the safe and effective use of medicines. Earlier, pharmaceutical education and drug-related information were largely confined to classrooms, textbooks, seminars, and healthcare settings. However, with the rapid expansion of digital technology, social media has emerged as one of the most powerful tools for the growth of pharmaceutical education and professional awareness. Today, social media enables pharmacy students and professionals to directly connect with people, share accurate information, and enhance learning in an innovative and accessible manner. Before the advent of social media, spreading pharmaceutical knowledge was a slow and challenging process. Pharmacy students had limited access to updated learning resources, research developments, and expert guidance. Understanding new drugs, their benefits, proper usage, and possible adverse effects was not easy for the general public, as information mainly depended on doctors or pharmacists during clinical visits. Moreover, learning complex pharmaceutical subjects required physical presence in classrooms or laboratories, which limited flexibility and depth of understanding. This gap created difficulties in both education and public awareness

With platforms such as Instagram, YouTube, Telegram, LinkedIn, and X, the pharmaceutical field has experienced a significant transformation. Social media allows instant sharing of information with a large audience, breaking geographical and academic barriers. Through short videos, infographics, live sessions, and educational posts, complex pharmaceutical concepts can be explained in a simple and engaging way. This digital shift has made pharmaceutical education more interactive, student-centered, and accessible beyond traditional learning methods. Social media has played an especially important role in the field of pharmaceutical analysis, where understanding instruments and techniques is often challenging for students. Analytical techniques such as High Performance Liquid Chromatography (HPLC), Thin Layer Chromatography (TLC), Nuclear Magnetic Resonance (NMR), UV–Visible spectroscopy, and IR spectroscopy require strong conceptual clarity and visualization. Through social media platforms, students can now learn these techniques using: Animated videos Virtual demonstrations Step-by-step experimental explanations Instrumental working animations (like youtube) These resources help students visualize internal processes such as sample injection, separation mechanisms, detector response, and data interpretation. As a result, learners gain in depth conceptual understanding, which is often difficult to achieve through textbooks alone. The availability of high-quality educational videos on social media has significantly improved analytical knowledge and confidence among pharmacy students One of the biggest advantages of social media is direct communication with the public. Whenever a new drug is introduced in the market, its therapeutic benefits, indications, precautions, and possible side effects can be explained instantly through digital platforms. This direct approach helps in spreading awareness, reducing misinformation, and promoting the rational and safe use of medicines. Pharmacy professionals and students can actively contribute to public health education by sharing scientifically accurate and easy-to-understand drug information.

Social media also plays a major role in mentoring and guiding junior students. Educational pages and channels help students understand subjects, plan their studies, and explore career options after D.Pharm, B.Pharm, and M.Pharm. Through my Instagram page (@pharm_homesci) and Telegram channel (Pharmacy Adda Official), I have personally helped many junior pharmacy students from all over India. By sharing educational content, study guidance, and career-related information, these platforms have served as a bridge between knowledge and learners, highlighting the true impact of social media in pharmaceutical education.

Despite its numerous benefits, social media must be used responsibly in the pharmaceutical field. Sharing inaccurate or unverified information can pose serious health risks. Therefore, content creators must ensure scientific accuracy, ethical communication, and reference to authentic sources to maintain credibility and public trust Social media has revolutionized the pharmaceutical field by transforming the way education, awareness, and communication are delivered. What was once limited and difficult has now become fast, interactive, and widely accessible. From drug awareness to advanced pharmaceutical analysis learning, social media has proven to be one of the most effective tools for the growth of pharma education and professional development. When used ethically and responsibly, it holds immense potential to shape the future of the pharmaceutical profession.

Name - Ritu Pandey
Course - M Pharma (Pharmaceutical analysis)
Enrollment no. - A106171925013
Semester – 2nd

3D Printing- A Platform for Polypill Development

Introduction

The evolution of pharmaceutical manufacturing has led to the development of polypills, which combine multiple drugs into a single dosage form to reduce pill burden and improve patient compliance, particularly in chronic diseases. Combining medications with various dosages and release characteristics presents difficulties for conventional production techniques. Traditional manufacturing techniques often face significant challenges when formulating polypills, especially when the combined drugs differ in dose strength, physicochemical properties or required release profiles. Three-dimensional (3D) printing offers a novel and flexible solution to these limitations by enabling digitally controlled, layer-by-layer fabrication of tablets with precise spatial placement of multiple drugs. This capability allows individual drugs to be physically separated within a single tablet and released in a controlled manner, making 3D printing a promising platform for advanced polypill design and personalized combination therapy. By permitting the precise spatial arrangement of several medications within a single tablet through digitally controlled manufacturing.

Digital Design and Dosage Planning

The foundation of 3D printing-based polypill development is digital design and dosage planning, which determines the final dosage form's structural organization, dose accuracy, release behaviour and overall therapeutic effectiveness. Using Computer-Aided Design (CAD) software, a comprehensive three-dimensional digital model of the polypill was created. This model conceptualizes the dosage form as a multilayered or multi-compartment structure rather than a homogeneous tablet. As they directly affect drug release kinetics, mechanical strength and disintegration behaviour, design factors such as layer thickness, compartment size, porosity and infill density are systematically tuned . To guarantee printability, stability and controlled medication release, suitable drug–excipient combinations are chosen for every compartment after digital designing. For instance, medications that need sustained or delayed release can be incorporated in denser inner compartments or polymer-rich matrices, whereas medications meant for instant release can be placed in extremely porous exterior layers to enable quick fluid penetration as shown in Figure 1. During fabrication, the printing method is designed to allow for the sequential or simultaneous deposition of many drug-loaded materials. According to the digital blueprint, these materials are deposited in a controlled layer-by-layer fashion during the actual printing process, with each layer being precisely positioned and stabilized before the subsequent layer is placed. Strong interlayer bonding and the structural integrity of the polypill are ensured by the solidification of each layer by processes like cooling, solvent evaporation.

In addition to guaranteeing precise dosage consistency for every medication, the layer-by-layer construction keeps incompatible medications physically apart, improving stability and therapeutic efficacy. Drying and curing are two post-printing procedures used to improve mechanical strength and stabilize the structure. Drying is performed to remove these residual solvents or moisture through controlled exposure to air, heat or vacuum. This stage enhances dimensional stability and keeps the printed structure from deforming, breaking or collapsing. In contrast, curing is the process of finishing polymer crosslinking or solidification, which further hardens or strengthens the printed dosage form.

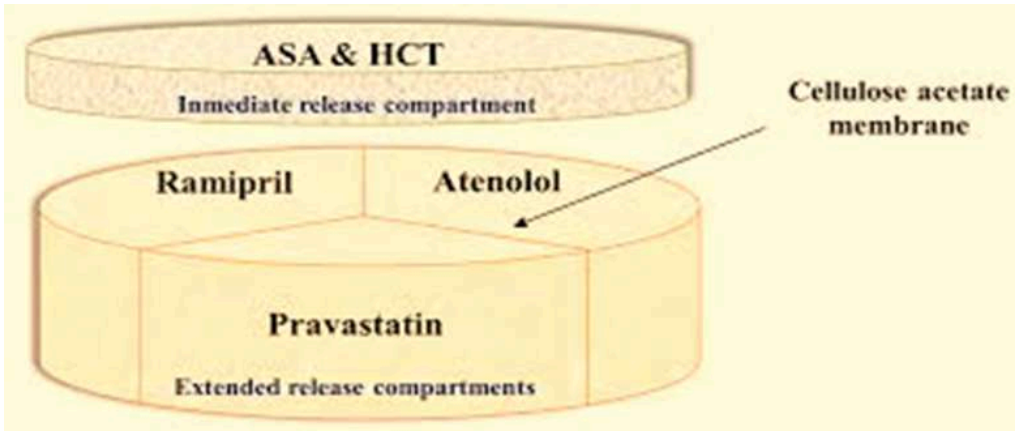

Figure 1: 3D-Printed Polypill with Immediate and Extended-Release Compartments

Drying and curing work together to ensure that the printed pharmaceutical product has the necessary performance qualities, stability and structural integrity for safe and efficient drug delivery.

A well-documented research example of this approach is the development of a 3D printed cardiovascular polypill containing drugs such as aspirin, atenolol, ramipril and pravastatin, where each drug was incorporated into a separate layer with a distinct release profile. Research showed that 3D printing reduced medication-drug interactions, allowed for precise dosage management and produced sequential drug release within a single tablet—a result that was challenging to accomplish with traditional production techniques.

Advantages and Challenges

The capacity of 3D printing to create customized medications with precise dosages suited to each patient's needs is one of the technology's main benefits in the pharmaceutical industry. Additionally, it makes it possible to create polypills, which improves patient compliance by combining many medications with various release profiles into a single dose unit. Rapid prototyping speeds up formulation development and reduces material waste. Customized medication delivery systems, orphan drug development and paediatric- geriatric care are areas where pharmaceutical 3D printing are mostly employed.

Despite its benefits, the development of 3D printed polypills has been impeded by issues such as a shortage of pharmaceutical-grade materials that can be printed, the possibility of drug deterioration during printing and the challenges of increasing production. Regulatory guidelines for quality assurance and commercialization are still evolving and high equipment costs may limit widespread adoption.

Conclusion

3D printing offers a versatile and inventive platform for polypill creation, by providing accurate digital planning, spatial separation of various medications and controlled layer-by-layer fabrication. Reduced pill burden may enhance medication adherence, particularly in long-term therapies. By overcoming limitations of conventional manufacturing, 3D printing supports the creation of complex, customized multidrug formulations. Additionally, digital fabrication enables rapid prototyping and formulation flexibility. The broader use of 3D-printed polypills in customized and combination medication therapy is anticipated to be supported by ongoing developments in printing technologies and formulation strategies, despite ongoing difficulties with material availability, large-scale manufacturing and regulatory approval.

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Name- Mr Abhinav Babu
Program- M.Pharm(Industrial Pharmacy)
Batch- 2025-2027
Semester-1st

Herbal-Nanoparticle Hybrid Therapy: Illuminating a New Path in Sickle Cell Anemia Treatment

Introduction

Sickle cell anemia (SCA) is a hereditary blood disorder caused by a single mutation in the β-globin gene, leading to the formation of abnormal hemoglobin S. This altered hemoglobin causes red blood cells to adopt a rigid, sickle-like shape, which obstructs blood flow, triggers painful vaso-occlusive crises, and damages vital organs. Current treatment options such as hydroxyurea therapy, blood transfusions, and bone marrow transplantation can reduce disease severity, but they are often associated with side effects, high costs, and limited availability. These limitations have driven the search for safer, more accessible therapeutic alternatives.

Herbal Therapeutics: Nature's Gentle Power

Herbal medicine has long been valued for its therapeutic potential. Bioactive compounds such as curcumin, quercetin, and resveratrol exhibit antioxidant, anti-inflammatory, and hemoglobin-modulating properties that are particularly relevant to SCA management. Another notable herbal formulation is Niprisan, a clinically studied anti-sickling agent shown to reduce the frequency of painful crises.

These compounds help reduce oxidative stress, protect blood vessels, and improve red blood cell flexibility. However, their clinical effectiveness is often limited by poor solubility, instability, and low bioavailability.

Nanoparticles: Precision Crafted at the Nanoscale

Nanotechnology offers innovative solutions to overcome the limitations of herbal therapeutics. Nanoparticles such as liposomes, polymeric nanoparticles, and solid lipid carriers can encapsulate herbal compounds, protecting them from degradation and enhancing their absorption. These delivery systems allow targeted and controlled release of therapeutic agents, increasing efficacy while reducing systemic side effects. As a result, nanoparticles significantly improve the therapeutic potential of herbal compounds in SCA treatment.

Hybrid Therapy: Where Nature Meets Technology

The integration of herbal therapeutics with nanotechnology represents a promising hybrid approach. For example, curcumin-loaded nanoparticles can circulate efficiently in the bloodstream, reach affected red blood cells, and reduce oxidative damage while enhancing cellular stability. Preliminary studies indicate that such hybrid therapies may be more effective than standalone treatments, potentially reducing vaso-occlusive episodes, improving blood flow, and enhancing overall patient quality of life.

Challenges and Future Horizons

Despite its promise, herbal-nanoparticle hybrid therapy faces several challenges. Ensuring long-term stability of herbal compounds, preventing immune reactions to nanoparticles, and conducting extensive clinical trials are essential for successful translation into clinical practice. Addressing these challenges through continued research and technological refinement will be crucial in establishing this approach as a viable complement to existing therapies.

Conclusion

Sickle cell anemia remains a life-altering condition, but advances in therapeutic innovation offer renewed hope. The fusion of herbal medicine with nanotechnology presents a novel and effective strategy that bridges traditional knowledge with modern science. By improving drug delivery and therapeutic precision, herbal-nanoparticle hybrid therapy has the potential to provide safer, more effective, and accessible treatment options for individuals living with SCA.

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Name- Shifa Akhtar
Enrollment No.- A4513325096
Semester-2
Course- B.Pharmacy

Nanotechnology Based Targeted Drug Delivery in Cancer Therapy

1. **Introduction**

Cancer remains one of the leading causesof mortality worldwide. Conventional chemotherapy lacks selectivity and damages rapidlydividing healthy cells, leading to systemic toxicity.Nanotechnology enables nanoscale drug delivery systems that enhance solubility, stability, biodistribution, and site-specific targeting of anticancer agents.

2. Tumor Targeting and the Enhanced Permeation and Retention (EPR) Effect

Tumor tissues show abnormal vasculature and poor lymphatic drainage, allowing nanoparticles to accumulate at tumorsites through the EPR effect.However, patient-to-patient variability limits its universal effectiveness.

3. Types of Nanocarriers Used in Cancer Therapy

Nanocarriers include liposomes, polymeric nanoparticles, dendrimers, metal and metal oxide nanoparticles, and polymeric micelles, each offering specific advantages for drug delivery.

4. Active Targeting Strategies

Active targeting involves surface modification of nanoparticles with ligands such as antibodies, peptides, aptamers, or small molecules that bind tumor-specific receptors, improving cellular uptake and therapeutic efficacy.

5. Stimuli-Responsive Nanocarriers

These nanocarriers release drugs in response to internal stimulilike pH or enzymes, or external triggers such as heat, light, or magnetic fields, ensuring site-specific drug activation.

6. Clinical Applications and Challenges

Several nanotechnology-based formulations are clinically approvedand show reducedtoxicity. Challenges include manufacturing scalability, regulatory hurdles, and biological variability.

7. Advantages and Limitations

Nanotechnology-based drug deliveryimproves drug stability, solubility, and targetingbut faces limitations such as tumor heterogeneity, high cost, and long-term safety concerns.

8. Future Perspectives

Future research focuseson personalized nanomedicine, integration with diagnostics, and artificial intelligence-driven nanoparticle design.

9. Conclusion

Targeted drug delivery usingnanotechnology represents a major advancement in cancer therapyby improving selectivity and minimizing adverse effects, thereby enhancing patient outcomes.

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Name – Pragati
Enrollment No - A4513325116
Course – B Pharm
Semester - 2nd

QCI-NABET Inspection

The QCI–NABET inspection was successfully conducted at AIP on 29th and 30th December. The inspection process was carried out in a systematic and professional manner, focusing on the evaluation of institutional processes, documentation, infrastructure, and overall compliance with the prescribed QCI–NABET standards. The inspection team interacted with the concerned personnel and reviewed relevant records to assess the quality and effectiveness of ongoing practices.

During the inspection, various academic, administrative, and operational aspects of AIP were examined in detail. The cooperation and preparedness of the staff and stakeholders contributed positively to the smooth conduct of the inspection. The visit provided an opportunity to showcase the institution's commitment to quality assurance, continuous improvement, and adherence to national accreditation norms.

Overall, the QCI–NABET inspection marked an important milestone for AIP. The observations and feedback received during the inspection will serve as valuable inputs for further strengthening institutional performance and enhancing quality standards. The institution looks forward to utilizing these insights for sustained growth and excellence in its future endeavors.

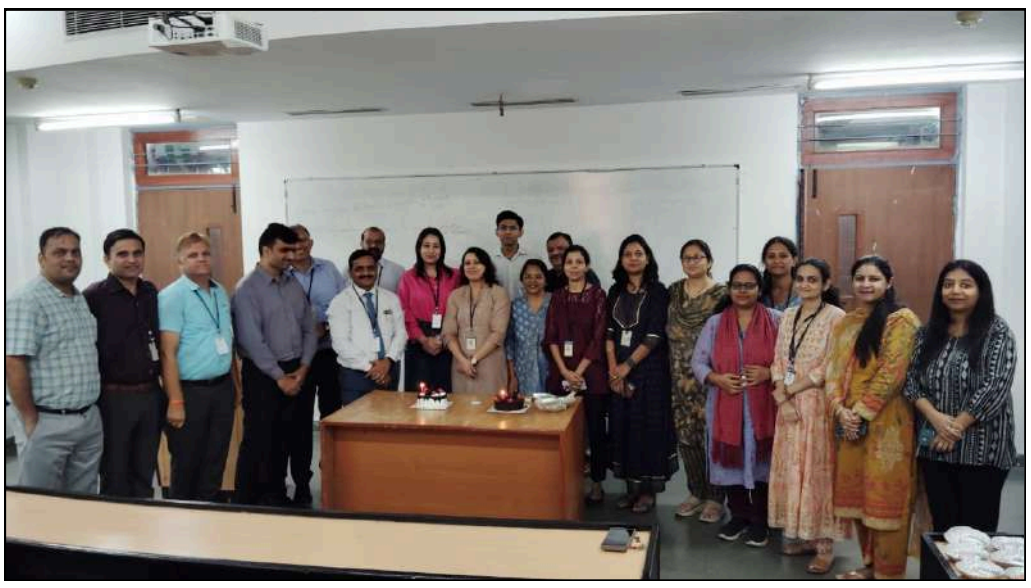
Student Achievements

Name	Programme	Details	Profile Photo	Certificate
Jivika Gupta	**1st Year B. Pharm**	Participated in "Ganga Utsav" organized under the aegis of National Workshop on "Riverathon 1.0" - A National Level Hackathon held on 3rd 4th November, 2025		
Shashwat Sharma	**3rd Year B. Pharm**	Attended the 9th National Webinar organized by Scientistic Era on the theme "In-silico drug design, Modern Strategies for Organic Molecule Synthesis and Characterization. on the Scientistic Era Platform for the Life Sciences and Pharmaceutical Sector.		
Krishnajit Malakar	**2nd Year M. Pharm**	I secured the First Position in Oral Presentation at the 2nd PHARMAINNOVATE SUMMIT 2025, an International Conference on "From Molecule to Medicine: Drug Development, Drug Delivery and Lifesaving Therapies." The event was held on 22nd–23rd November 2025 in hybrid mode at Galgotias College of Pharmacy, Greater Noida.		
Lakshya Agarwal	**2nd Year M. Pharm**	I secured the Second Prize in BioSpark at GENESIS 2025, an Inter-Institutional Science Fest organized by the Department of Biosciences, IMS Ghaziabad (University Courses Campus). The event was held on 31st October 2025.		
Sayra Taneja	**2nd Year B. Pharm**	I have successfully completed a 12 weeks course on Product & Brand Management by NPTEL SWAYAM & IIT Roorkee with a Score of 75%.		

Alumni Achievement

Ms. Meenakshi Gupta	**AIP Alumni**	Heartiest congratulations to our PhD scholar **Dr. Meenakshi Gupta** for crossed the mark of 1000 citations of her publications. Gupta, Meenakshi Amity University, Noida, India • Scopus ID: 57214789291 • Connect to ORCID Show all information 1,000 Citations by **946** documents 28 Documents 14 h-index	

Faculty Birthday Celebration



CONVOCATION 2025

Outgoing batches of B. Pharm and M. Pharm (all specializations) received their degrees on the day of Convocation (9th December 2025) in the presence of Vice Chancellor, Dean (Health & Allied Science), HOI & AIP Faculties. A total of 136 students successfully awarded their degrees.













CONVOCATION 2025

"Education is the key to unlocking the world, a passport to freedom."

List Of UG Students received degree in 2025 Convocation			
S.No.	**Enrollment No.**	**Student name**	**Result Status**
1	A4513321001	Ms SAHIN PRABIN	First Division
2	A4513321002	Mr VINEET SINGH	First Division
3	A4513321005	Mr SHADAN HASNAIN ZAIDI	First Division
4	A4513321006	Mr GUJJENTI SHASHIKANT	First Division
5	A4513321007	Ms SANSKRITI BHARDWAJ	First Division with Distinction
6	A4513321008	Mr UDIT CHATURVEDI	First Division with Distinction
7	A4513321009	Ms PRIYA PANDEY	First Division
8	A4513321010	Ms ANISHA ALLAUDDIN	First Division
9	A4513321011	Ms KHUSHI JAISWAL	First Division with Distinction
10	A4513321012	Ms MANSI AGGARWAL	First Division
11	A4513321013	Ms MOULI SARKAR	First Division
12	A4513321014	Mr HAYYAN KHAN	First Division
13	A4513321015	Mr VISHAL BHARDWAJ	First Division
14	A4513321016	Mr HARSH	First Division
15	A4513321017	Ms TEJASWANI TIWARI	First Division with Distinction
16	A4513321018	Mr AMAN SAURAV	First Division
17	A4513321019	Mr KUNDAN KUMAR	First Division
18	A4513321020	Mr RAHUL SAIKIA	First Division
19	A4513321021	Mr PRAYUSH KUMAR	First Division
20	A4513321022	Mr MOHIT RAJORIYA	First Division
21	A4513321023	Ms AAYUSHI KASHYAP	First Division
22	A4513321024	Mr VAIBHAV BHARDWAJ	First Division
23	A4513321025	Mr RITIK NAGAR	First Division
24	A4513321028	Ms PRIYANKA SHARMA	First Division
25	A4513321029	Mr ANSH SRIVASTAVA	First Division
26	A4513321030	Ms APOORVA SURESH	First Division with Distinction
27	A4513321034	Mr SARANSH GUPTA	First Division
28	A4513321035	Ms ANAM ARORA	First Division with Distinction
29	A4513321037	Ms AASHNA D RAI	First Division
30	A4513321038	Mr VANSH VIJ	Second Division
31	A4513321041	Mr GAURAV ASWAL	First Division
32	A4513321043	Ms RACHANA KUMARI	First Division

List Of UG Students received degree in 2025 Convocation			
S.No.	**Enrollment No.**	**Student name**	**Result Status**
33	A4513321044	Ms KUMKUM CHAUHAN	First Division
34	A4513321045	Ms GAURVI NEGI	First Division with Distinction
35	A4513321048	Mr KRITIK VASHISTHA	First Division
36	A4513321050	Ms PALLAVI SINGH	First Division
37	A4513321051	Mr ADWITAY ATREJA	First Division
38	A4513321052	Ms OJASWANI SHARMA	First Division
39	A4513321053	Ms ANANYA SHUKLA	First Division
40	A4513321054	Mr TUSHAR SHARMA	Second Division
41	A4513321055	Mr DHRUBAJYOTI SEN	First Division with Distinction
42	A4513321059	Ms SANJANA RAI	First Division
43	A4513321061	Ms MYEISHA ANAND	First Division with Distinction
44	A4513321063	Mr NISHANT SARASWAT	First Division
45	A4513321064	Mr ADITYA SINGH	First Division
46	A4513321067	Mr MANAV	First Division
47	A4513321068	Ms KAVERI JOSHI	First Division
48	A4513321069	Mr NIKHIL SHARMA	Second Division
49	A4513321071	Mr NITISH KUMAR TIWARI	First Division with Distinction
50	A4513321072	Ms BHUMIKA KUMARI	First Division
51	A4513321073	Mr TUSHAR SETH	First Division
52	A4513321076	Mr ASHMEET SINGH	First Division
53	A4513321077	Mr AMAAN KHAN	First Division
54	A4513321078	Mr SYED AREEB ALI	First Division
55	A4513321081	Ms OJASVI SINGH	First Division
56	A4513321084	Ms SIMRAN SOLANKI	First Division
57	A4513321088	Mr PRAHARSH BHARDWAJ	First Division
58	A4513321089	Mr SAMEER JHA	First Division
59	A4513321090	Ms TANISHKA TAELA	First Division
60	A4513321091	Ms SHREYA CHATURVEDI	First Division
61	A4513321092	Mr SUYASH OCHWANI	First Division
62	A4513321094	Ms RIYA SINDHWAL	First Division
63	A4513321095	Ms AASTHA TIWARI	First Division with Distinction
64	A4513321099	Mr SANYAM TYAGI	First Division

List Of UG Students received degree in 2025 Convocation			
S.No.	**Enrollment No.**	**Student name**	**Result Status**
65	A4513321100	Mr HARSH KUMAR	First Division
66	A4513321102	Ms RAMNIKA SHARMA	First Division with Distinction
67	A4513321104	Mr RISHABH GOEL	First Division
68	A4513321107	Mr RUDRAKSH SINGH	First Division
69	A4513321110	Ms SHIBANGI RAWAT	First Division with Distinction
70	A4513321111	Mr MRIDUL GUPTA	First Division
71	A4513321112	Mr AKRAM KHAN	Second Division
72	A4513321113	Ms MANSI KHARI	First Division

M.Pharm- Pharmaceutics			
S.NO.	**Enrollment No.**	**Name**	**Result Status**
1	A10647023001	Ms GULPREET MEHRA	First Division with Distinction
2	A10647023002	Ms PRAGYA SINGH	First Division with Distinction
3	A10647023004	Ms AIMAN USMANI	First Division with Distinction
4	A10647023005	Mr SHUBHAM KUMAR	First Division with Distinction
5	A10647023006	Mr NEERAJ GUPTA	First Division with Distinction
6	A10647023007	Ms SRISTI	First Division with Distinction
7	A10647023008	Mr VISHAL	First Division with Distinction
8	A10647023009	Mr SARVESH KUMAR	First Division with Distinction
9	A10647023010	Mr RAHUL SARATHEE K	First Division
10	A10647023012	Mr YASH ROHIL	First Division
11	A10647023014	Ms RAKSHITA	First Division with Distinction
12	A10647023015	Ms PRACHI MUSKAN	First Division with Distinction
13	A10647023016	Ms TOOBA ZAINAB KAZMI	First Division
14	A10647023017	Mr KABIL MALHOTRA	First Division with Distinction

M.Pharm-Industrial Pharmacy			
S.NO.	**Enrollment No.**	**Name**	**Result Status**
1	A106171823001	Mr CHIRAG JAIN	First Division with Distinction
2	A106171823002	Mr ANIKET BHARDWAJ	First Division with Distinction
3	A106171823003	Ms TEENA GARG	First Division with Distinction
4	A106171823005	Mr DHRUV PRATAP SINGH JAITAWAT	First Division with Distinction
5	A106171823006	Ms LIKHA YALAM	First Division

M.Pharm- Phytopharmacy & Phytomedicine			
S.NO.	**Enrollment No.**	**Name**	**Result Status**
1	A106178623001	Mr ALISHAN	First Division with Distinction

M.Pharm-PRA			
S.NO.	**Enrollment No.**	**Name**	**Result Status**
1	A10651923001	Ms AFIFA AKRAM	First Division with Distinction
2	A10651923002	Ms SIMRAN DIXIT	First Division with Distinction
3	A10651923003	Ms SIMRAN YADAV	First Division with Distinction
4	A10651923004	Mr UTKARSH VASHISHTHA	First Division with Distinction
5	A10651923005	Ms SHUBHANGINI CHAUHAN	First Division with Distinction
6	A10651923006	Ms SIMRAN KAUR	First Division with Distinction
7	A10651923007	Mr RADHAKRISHAN GAUR	First Division with Distinction
8	A10651923008	Ms PRACHI SHARMA	First Division with Distinction
9	A10651923009	Ms MANSI SHARMA	First Division with Distinction
10	A10651923010	Mr MANAN GROVER	First Division with Distinction
11	A10651923011	Mr VISHESH SAHU	First Division with Distinction
12	A10651923013	Ms CHAHAT TYAGI	First Division with Distinction
13	A10651923014	Ms SONAL SHARMA	First Division with Distinction
14	A10651923015	Mr DEEPAK DHANDIA	First Division

M.Pharm-Pharmacology			
S.NO.	**Enrollment No.**	**Name**	**Result Status**
1	A10654923001	Mr SARTHAK DAHIYA	First Division with Distinction
2	A10654923002	Mr VISHAL RASTOGI	First Division
3	A10654923004	Mr ABHINAV KUMAR TIWARI	First Division
4	A10654923005	Ms VERSHA	First Division with Distinction
5	A10654923006	Ms SHAIFALI JOSHI	First Division with Distinction
6	A10654923008	Ms SONIA BISHT	First Division with Distinction
7	A10654923009	Ms AQSA NADEEM	First Division with Distinction
8	A10654923010	Ms KRISHNA MISHRA	First Division with Distinction
9	A10654923011	Ms PRERNA BHATI	First Division with Distinction
10	A10654923012	Mr PRAKSHAL JAIN	First Division
11	A10654923014	Ms POOJA SAXENA	First Division
12	A10654923015	Ms VARSHA	First Division
13	A10654923016	Ms ARIBA KHAN	First Division with Distinction
14	A10654923017	Ms RICHI GOEL	First Division with Distinction

M.Pharm-Pharmaceutical Chemistry			
S.NO	**Enrollment No.**	**Name**	**Result Status**
1	A10655023002	Ms DOLLY NIRWAN	First Division with Distinction
2	A10655023003	Ms BHANVI	First Division with Distinction
3	A10655023004	Ms CHANDNI SHARMA	First Division with Distinction
4	A10655023005	Mr DIMPY	First Division with Distinction
5	A10655023006	Ms MANI SINGH	First Division with Distinction
6	A10655023007	Ms SHAYA THAKUR	First Division
7	A10655023008	Ms KHUSHI SHARMA	First Division with Distinction
8	A10655023009	Mr SIDHANT BERA	First Division with Distinction
9	A10655023010	Mr ANKIT RAJ	First Division
10	A10655023011	Mr ROHIT PAUL	First Division
11	A10655023012	Mr GAURAV KUMAR	First Division
12	A10655023013	Ms ANSHIKA	First Division
13	A10655023014	Mr SHUBHAM SHARMA	First Division

M.Pharm-Pharmacautical Analysis			
S.NO.	**Enrollment No.**	**Name**	**Result Status**
1	A106171923001	Mr SHAYANTAN GHOSH	First Division with Distinction
2	A106171923002	Mr SYED MUSTEHASAN JAFRI	First Division
3	A106171923003	Mr HARSH RATHOR	First Division with Distinction
4	A106171923004	Ms AISHWARYA REDDY	First Division with Distinction

Recipients of Award/ Medal/ Trophy

Gold Medalist			
S.No.	**Name**	**Enrollment No.**	**Discipline**
1	Anam Arora	A4513321035	B. Pharmacy
2	Aqsa Nadeem	A10654923009	M. Pharm (Pharmacology)
3	Dolly Nirwan	A10655023002	M. Pharm (Pharmaceutical Chemistry)
4	Neeraj Gupta	A10647023006	M. Pharm (Pharmaceutics)
5	Simran Kaur	A10651923006	M. Pharm (DRA)

Shri Baljit Shastri Award for Best in Human & TRaditional Values			
S.No	**Name**	**Enrollment No.**	**Discipline**
1	Kabil Malhotra	A10647023017	M. Pharm (Pharmaceutics)
2	Mansi Sharma	A10651923009	M. Pharm (DRA)
3	Nitish Kumar Tiwari	A4513321071	B. Pharmacy
4	Sarthak Dahiya	A10654923001	M. Pharm (Pharmacology)

Silver Medalist			
S.No.	**Name**	**Enrollment No.**	**DIscipline**
1	Aastha Tiwari	A4513321095	B. Pharmacy
2	Ariba Khan	A10654923016	M .Pharm (Pharmacology)
3	Kabil Malhotra	A10647023017	M. Pharm (Pharmaceutics)
4	Khushi Sharma	A10655023008	M. Pharm (Pharmaceutical Chemistry)
5	Simran Yadav	A10651923003	M. Pharm (DRA)

Bronze Medalist			
S.No	**Name**	**Enrollment No.**	**Discipline**
1	Apoorva Suresh	A4513321030	B. Pharmacy

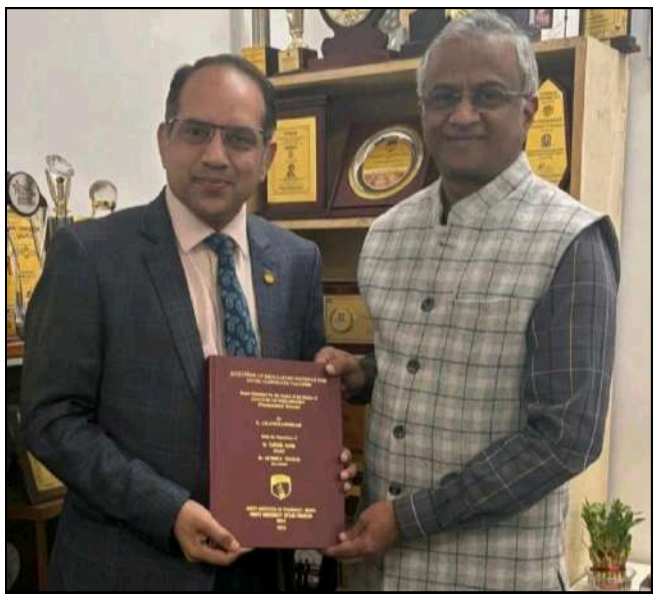
CONVOCATION 2025

PHOTOGRAPHS OF AWARDEES RECEIVING THEIR AWARDS, MEDALS & CERTIFICATES

Convocation of Ph.D Students 2025

A TOTAL OF 14 STUDENTS COMPLETED THEIR PH.D AND RECEIVED DEGREE IN THE CONVOCATION 2025

Sr. No	Enrollment No	Name
1	A10631220008	Bhawna Arora
2	A10631217008	Divya Singh
3	A10631220001	Komal Chaudhary
4	A10631220004	R Chandrashekar
5	A10631217004	Sanjeev Kumar
6	A10631117001	Roohi Mirza
7	A10631121002	Triveni
8	A10631120002	Nidhi Sharma
9	A10631122001	Poonam Sharma
10	A10631219004	Ashish Kumar Singh
11	A10631218004	Shobhit Mishra
12	A10631221011	Sonali Sundram
13	A10631218002	Boyapati Isaiah
14	A10631217003	Prashant Kumar Chaturvedi



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