IIMT
COLLEGE OF PHARMACY
Greater Noida
— Aim For Excellence —

NEWSLETTER | SESSION 2025-26

BHESHAJA

JANUARY-MARCH

Exclusively for the IIMT Community

4th INTERNATIONAL CONFERENCE

ICHAI-2026

A HYBRID MODE CONFERENCE

09:00 AM TO 05:00 PM

2nd -3rd APRIL 2026

Healthcare and AI: Education, Research & Innovation

Managing Director's Message

Dr. Mayank Aggarwal
Managing Director

Dear Readers,
Warm greetings to everyone!
It is with great pride and joy that I congratulate Prof. (Dr.) Nakul Gupta and the esteemed faculty for their visionary leadership in bringing forth the Pharmacy Newsletter, Bheshaja. This initiative stands as a testament to IIMT College of Pharmacy's unwavering commitment to fostering knowledge, research, and innovation in the dynamic field of pharmacy.

Our Research & Development department continues to set benchmarks by collaborating with prestigious national and international institutions. These partnerships drive advancements in pharmaceutical research, drug discovery, and healthcare innovations, all while enriching the academic journey of our students. Dr. Mayank Aggarwal Managing Director IIMT Group of Colleges, Greater Noida, and U.P. Equally commendable is the role of our Training & Placement Cell, which ensures students gain valuable industry exposure through internships, specialized training and robust placement opportunities. This equips them for successful careers in pharmaceutical companies, hospitals, and research institutions, reflecting our dedication to holistic professional development. At IIMT College of Pharmacy, we strive to create a vibrant environment that nurtures excellence in education, groundbreaking research, and career advancement. The Bheshaja newsletter embodies our shared vision to remain at the forefront of this ever-evolving field. I am confident that this edition will inspire and inform, sparking ideas and igniting curiosity. My heartfelt thanks go out to all contributors for their hard work and dedication. I eagerly look forward to your valuable feedback, which will help us shape even better editions in the future.

Best Regards
Dr. Mayank Aggarwal
Managing Director
IIMT Group of Colleges,Greater Noida, U.P

Director's Message

Prof. (Dr.) Nakul Gupta
Director

Dear Readers,

Greetings to All! Welcome to the latest edition of the IIMT College of Pharmacy newsletter - BHESHAJA. I am excited to share the latest News, Research, and Developments from our college to the wider pharmacy community. Pharmacy is a dynamic and ever-evolving field, and we must stay up-to-date with the latest advancements and trends.

This newsletter provides a platform for us to share our insights and knowledge, as well as with our colleagues and peers to the wider pharmacy community. Prof. (Dr.) Nakul Gupta Professor & Director Editor-in-Chief In this edition, we have articles covering a range of topics, from the latest research on drug interactions to innovative pharmacy services and initiatives aimed at improving patient outcomes. We also feature interviews with leading pharmacy professionals, sharing their perspectives on the current state of the industry and future directions. I hope that this newsletter serves as a valuable resource for you and inspires you to continue learning and growing in your pharmacy practice. As always, we welcome your feedback and contributions to the future editions. Thank you for your immense support and dedication to the pharmacy profession.

Sincerely,
Prof. (Dr.) Nakul Gupta
Editor-in-Chief, BHESHAJA
Director
IIMT College of Pharmacy
Greater Noida. U.P

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From Editor's Desk

The editorial committee feels proud in releasing the quarterly Newsletter of IIMT College of Pharmacy, Greater Noida. This college newsletter covers information on academics and the details of Activities, Research, and Pharmacy updates. The "BHESHAJA" newsletter will provide ample knowledge to both the students and faculty. This will help them to bring up their talents and contribute significantly to the profession. For any query, suggestion, feedback, or submission of articles, please feel free to contact our team. We would like to hear from you to enhance the quality of the newsletter and to serve you better.

Happy Reading!

Mr. Vishnu Prabhakar
Managing Editor

Mr. Vishnu Prabhakar
Assistant Professor,
IIMT College of Pharmacy, Greater Noida, U.P

Ms. Anupama Katoch
Content Editor

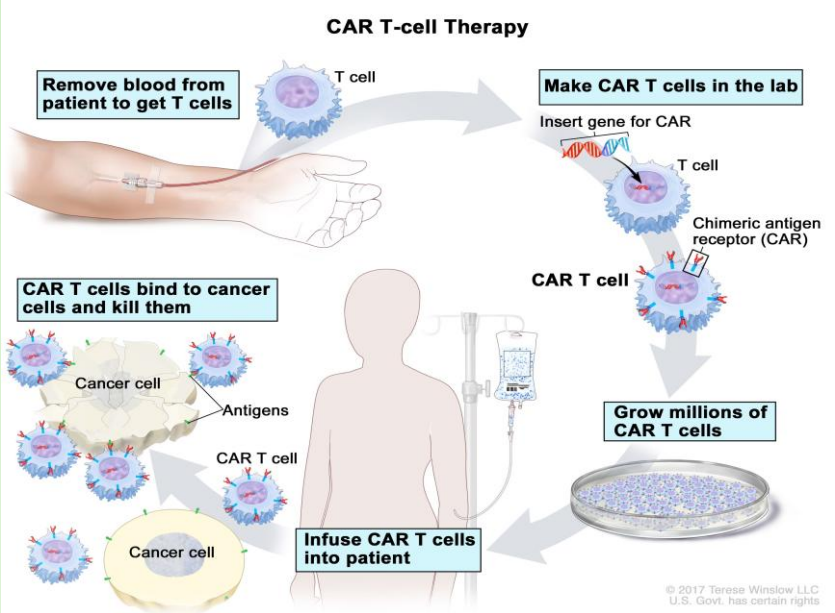
It gives me great pleasure to present this edition of BHESHAJA, the quarterly newsletter of IIMT College of Pharmacy. This issue reflects our collective efforts to share insights, achievements, and innovations shaping the world of pharmacy. We hope it inspires readers to explore new ideas, stay informed, and continue contributing to academic and professional excellence.

Happy Reading!

Ms. Anupama Katoch
Assistant Professor,
IIMT College of Pharmacy, Greater Noida, U.P.

Pharma News

Chimeric Antigen Receptor T-cell (CAR-T) Therapy



CAR-T therapy is an advanced form of cancer immunotherapy that harnesses the body's own immune system to fight cancer. In this approach, T-cells (a type of white blood cell) are collected from a patient and genetically modified in the laboratory to express special receptors called chimeric antigen receptors (CARs). These receptors enable T-cells to recognize and bind to specific proteins (antigens) present on cancer cells.

Once engineered, the CAR-T cells are multiplied and infused back into the patient. These modified cells actively seek out and destroy cancer cells with high specificity. CAR-T therapy has shown remarkable success, particularly in hematological malignancies such as acute lymphoblastic leukemia (ALL) and certain types of lymphoma.The therapy involves several steps: leukapheresis (collection of T-cells), genetic modification, expansion of cells, and reinfusion into the patient. Before infusion, patients may receive chemotherapy to prepare the body for better acceptance of CAR-T cells.Despite its effectiveness, CAR-T therapy has limitations. It can cause serious side effects such as cytokine release syndrome (CRS) and neurotoxicity, which require careful monitoring. Additionally, it is expensive and not yet widely accessible.Recent advancements are focused on improving safety, expanding its use to solid tumors, and developing "off-the-shelf" CAR-T products. Overall, CAR-T therapy represents a revolutionary step in personalized medicine, offering new hope for patients with previously untreatable cancers. In addition, ongoing research is exploring next-generation CAR-T designs such as dual-target CARs and armored CAR-T cells, which enhance efficacy and overcome tumor resistance. Scientists are also working on improving persistence of CAR-T cells in the body to achieve long-term remission.

Combination therapies with checkpoint inhibitors are being studied to further boost therapeutic outcomes. Another important area is reducing toxicity through better control mechanisms, such as "suicide genes" that can deactivate CAR-T cells if severe side effects occur. Efforts are also being made to simplify manufacturing processes, making the therapy more cost-effective and accessible.

Mahi Banerjee
B.Pharm 1st year

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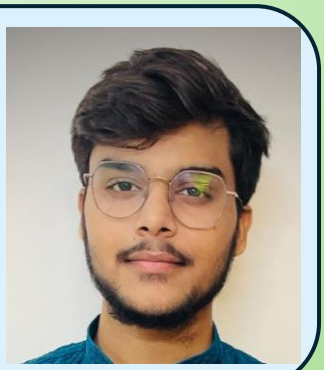
Students Corner

Being a student at IIMT College of Pharmacy has been a rewarding and inspiring experience. The college focuses on delivering quality education by combining strong theoretical concepts with hands-on practical training. The academic environment is motivating, and the exposure provided through guest lectures, conferences, and workshops has helped me stay updated with the latest developments in the field. .

Gungun
B.Pharm 1st year

The institution encourages students to think innovatively and strive for excellence in every aspect. One of the strongest pillars of the college is its faculty, who are extremely knowledgeable and continuously motivate students while providing constant support and guidance throughout our academic journey.

Aman Bhadouria
B. Pharm 1st year



My journey at IIMT College of Pharmacy has been truly enriching and has played a vital role in shaping my academic and personal growth. The institution provides an excellent balance between theoretical knowledge and practical exposure, which has strengthened my understanding of pharmaceutical sciences.

Vivek Kumar
B.Pharm 3rd year

The well-equipped laboratories, modern infrastructure, and encouraging environment have helped me build confidence and develop essential skills. The college also offers various opportunities through seminars, workshops, and academic activities that broaden our perspectives.

Mehal Sinha
B.Pharm 3rd year

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Alumni Corner

I feel proud to be an alumnus of IIMT College of Pharmacy, as it has contributed immensely to my academic and professional success. The college offered a nurturing environment where learning was encouraged through both classroom teaching and practical exposure. The regular organization of guest lectures, industrial visits, and academic activities provided valuable insights into the real-world applications of pharmaceutical sciences. The supportive faculty and disciplined atmosphere helped me develop strong technical knowledge as well as essential life skills. My experience at IIMT has been truly memorable, as it not only enhanced my understanding of the subject but also prepared me for the competitive professional world. The guidance and opportunities provided by the institution have played a significant role in shaping my career path and achieving my goals.

Rajat sharma
Founder RNA Healthcare pvt Ltd

My time at IIMT College of Pharmacy was a defining phase of my life that laid a strong foundation for my professional journey. The college provided an excellent academic environment supported by well-equipped laboratories and a curriculum that effectively balanced theory with practical learning. The exposure to seminars, workshops, and conferences helped me gain confidence and stay updated with advancements in the pharmaceutical field. The faculty members were always approachable and played a crucial role in mentoring and guiding me toward my career goals. The values, discipline, and knowledge I gained during my time here continue to benefit me in my professional life. IIMT not only shaped me as a competent pharmacy professional but also instilled in me the confidence to face challenges and grow continuously in my career.

Devangi Solanki
Clinical pharmacist (Aam Aadmi Mohalla Clinic)

DANCE-E-RANG

The Cultural Club of IIMT College of Pharmacy proudly organized “Dance E Rang”, a vibrant dance competition that celebrated talent, rhythm, and creativity among students. The event witnessed enthusiastic participation, with performers showcasing diverse dance forms ranging from classical to contemporary styles. The stage came alive with energetic performances, captivating expressions, and colourful costumes, leaving the audience mesmerized. The competition not only provided a platform for students to exhibit their artistic abilities but also promoted cultural engagement and confidence. “Dance E Rang” was a grand success, fostering team spirit, creativity, and a joyful atmosphere across the campus..

DEBATE COMPETITION

POSTER PRESNTATION

A Poster Presentation Competition was successfully organized at IIMT College of Pharmacy, providing a dynamic platform for students to showcase their knowledge, creativity, and research aptitude. The event witnessed enthusiastic participation from students across various academic years, reflecting their keen interest in scientific exploration and innovation.

Participants presented posters on diverse topics related to pharmaceutical sciences, healthcare advancements, and emerging research areas. Each presentation demonstrated not only subject knowledge but also the ability to communicate complex ideas in a clear and visually engaging manner. The competition encouraged students to think critically, conduct in-depth research, and present their findings with confidence.

A panel of esteemed faculty members evaluated the posters based on originality, clarity, presentation skills, and relevance of the topic. Their valuable feedback helped students gain insights into improving their research and presentation techniques.

The event fostered a spirit of healthy competition and academic excellence among students. It also enhanced their confidence, communication skills, and ability to work on research-oriented projects. Overall, the Poster Presentation Competition proved to be an enriching and inspiring experience, reinforcing the institution's commitment to promoting academic growth, innovation, and professional development among its students.

VISITS


SARASWATHI INSTITUTE OF MEDICAL SCIENCES
DR. J. RAMACHANDRAN COLLEGE BLOCK
SIMS
SIMS

VISITS


Reliable
Safe
Effective
Providing Dialysis
Nephro
Science


Nephro
BioScience

SPORTS TEAM

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ONLINE PROMOTION ACTIVITY

The Online Promotion Club of IIMT College of Pharmacy successfully organized an engaging **Online Promotion Activity**, aimed at showcasing the vibrant campus life and infrastructure of the IIMT Group of Colleges. Students enthusiastically participated by creating and recording creative videos that highlighted the academic environment, facilities, and unique features of the campus through their own perspectives. The activity encouraged innovation, digital skills, and a sense of pride among students while promoting the institution in a dynamic and modern way. The submissions reflected exceptional creativity and storytelling, making the event both impactful and inspiring. This initiative proved to be a remarkable blend of learning, creativity, and institutional representation.

MEDICAL CODING CERTIFICATION

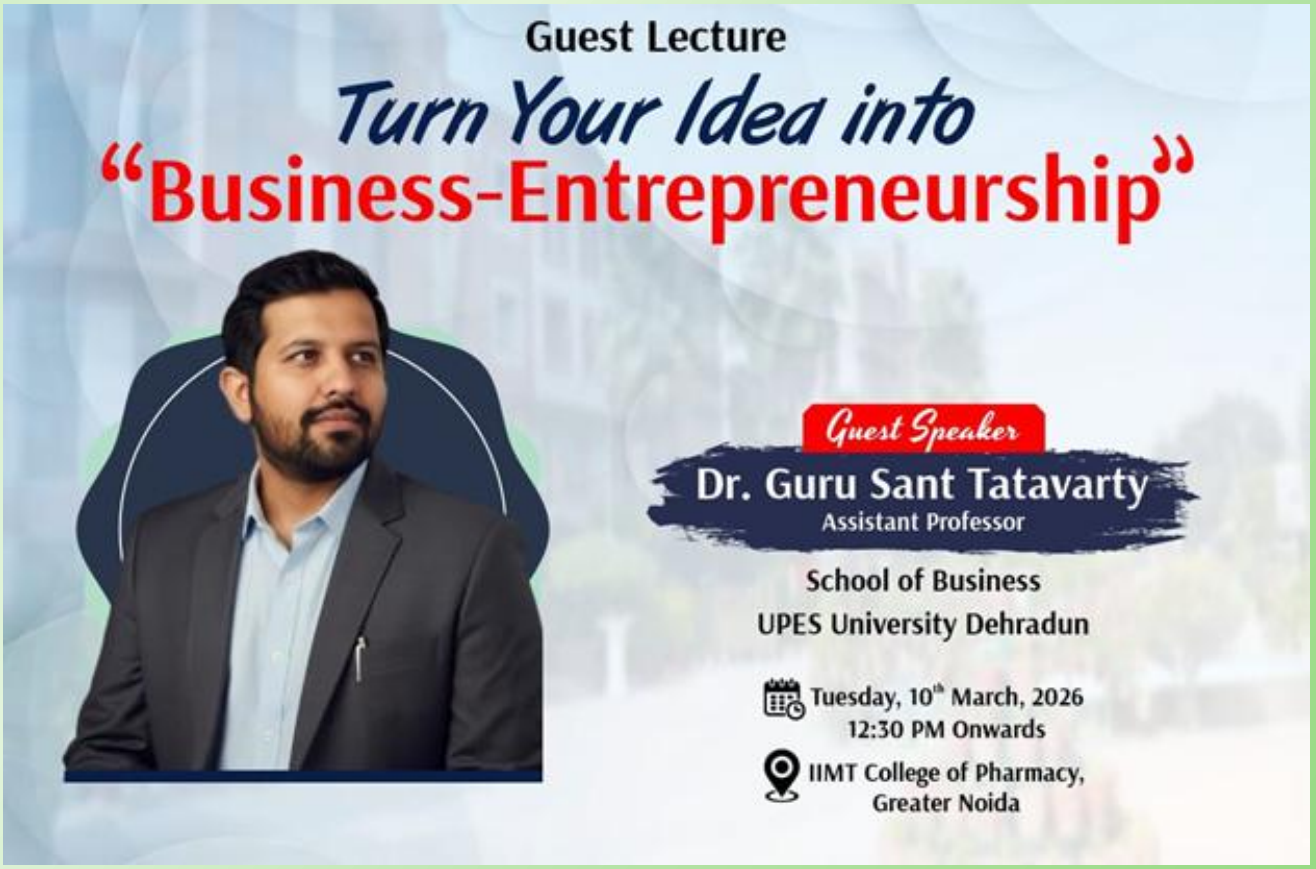
GUEST LECUTRE

GUEST LECUTRE BY TURN YOUR IDEA INTO BUSINESS ENTREPRENEURSHIP:

The IIMT College of Pharmacy, Greater Noida, under its dynamic Idea Club, organized an inspiring guest lecture titled “Turn Your Idea into Business–Entrepreneurship.” The session aimed to ignite entrepreneurial thinking among students and encourage them to transform innovative ideas into successful ventures.

The lecture featured Dr. Guru Sant Tatavarty, Assistant Professor at the School of Business, UPES University, Dehradun, as the esteemed guest speaker. With his expertise and practical insights, Dr. Tatavarty provided valuable guidance on the fundamentals of entrepreneurship, startup development, and the importance of innovation in today’s competitive world. Held on Tuesday, 10th March 2026, at 12:30 PM onwards, the event took place at the IIMT College of Pharmacy campus in Greater Noida. Students actively participated and gained a deeper understanding of how to identify opportunities, develop business strategies, and overcome challenges in the entrepreneurial journey.

The session proved to be highly engaging and motivational, aligning with the institution’s vision of fostering excellence and nurturing future leaders. It left attendees inspired to think creatively and take confident steps toward building their own entrepreneurial paths.



GUEST LECUTRE

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GUEST LECUTRE

Surya Hospital
A Unit of Vedansh Medicare Pvt. Ltd.

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is organizing

GUEST LECTURE ON

"HEALTH CARE AND DAILY ROUTINE"

Guest Speaker

Dr. B.S.Akhila

MBBS, DNB OBGY, Laparoscopic,
Gynaecology Surgeon
Surya Hospital
A unit of Vedansh Medicare Pvt.Ltd

IIMT College of Pharmacy
Friday March 27, 2026 | 2:30 PM - 3:30 PM

WINNERS

congratulations

WINNERS

congratulations

WINNERS

congratulations

WINNERS

congratulations

PLACEMENTS

congratulations

FOR BEING PLACED IN

CORIZO
Empowering Tomorrow's Leaders

6.5 LPA

Ms. Lavanya Saini
Business Development Associate
Batch 2025-26

Ms. Shruti Singh
Business Development Associate
Batch 2025-26

Manali and Kasol Tour

IIMT College of Pharmacy organized an exciting and refreshing educational tour for the 4th year students to Manali and Kasol. The trip was planned as a 3 days and 4 nights excursion, offering students a perfect blend of relaxation, exploration, and bonding.

The scenic beauty of Manali and the serene environment of Kasol provided students with a much-needed break from their academic routine. Surrounded by majestic mountains, lush greenery, and flowing rivers, students enjoyed nature at its best. The tour included visits to popular tourist spots, local markets, and picturesque landscapes, making the experience truly unforgettable.

Apart from sightseeing, the trip also strengthened the bond among students, encouraging teamwork, friendship, and shared experiences. The joyful moments, group activities, and lively interactions added great value to the overall journey.

The tour was successfully coordinated under the guidance of faculty members Mrs. Pooja Chausraiya and Mr. Preet Sagar, who accompanied the students and ensured their safety and well-being throughout the trip.

Overall, the Manali and Kasol tour was a delightful and enriching experience, leaving students with cherished memories that they will treasure for a lifetime.

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Manali Diaries

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Splash into Adventure

Zee News Visit

Students of IIMT College of Pharmacy had the enriching opportunity to visit the Zee News studio, making it a truly memorable and insightful experience. During the visit, the students met Mr. Indresh Malik, a distinguished personality in the media industry, whose interaction added great value to the learning experience.

The highlight of the visit was a panel discussion conducted by Zee News on the important topic “Milawat Bharat Chhodo,” where eminent medical experts shared their views and knowledge. This session provided students with a deeper understanding of real-world issues related to public health and awareness.

Students were also given a guided tour of the modern studio and newsroom, where they witnessed how major news stories are created, managed, and broadcast. This exposure helped them understand the working environment of the media industry.

The visit was highly interactive, as students had the opportunity to ask questions and gain insights into various aspects of media and communication. Overall, the experience proved to be both educational and inspiring, motivating students to explore new career perspectives and broaden their horizons.

In addition, the visit enhanced students’ communication skills and boosted their confidence as they interacted with professionals and observed live media practices. It also broadened their understanding of how healthcare topics are presented to the public through media platforms. Such practical exposure plays a crucial role in shaping well-rounded professionals.

Overall, the visit proved to be highly educational and motivating, encouraging students to explore broader career opportunities and gain real-world perspectives beyond academics.

ZEENEWS

PCI AEBAS WORKSHOP

PCI AEBAS WORKSHOP

WORKSHOP CHIEF GUEST

Tug of War Girls Team

Pharma News

Weight-Loss & Diabetes Drug Surge (GLP-1)

The recent surge in the use of GLP-1 (glucagon-like peptide-1) receptor agonists marks a transformative shift in the management of type 2 diabetes and obesity. Originally developed for glycemic control, these drugs have gained widespread attention for their significant weight-loss benefits. GLP-1 is an incretin hormone that enhances insulin secretion, suppresses glucagon release, slows gastric emptying, and promotes satiety, thereby reducing food intake.

Drugs such as semaglutide and liraglutide have demonstrated remarkable clinical outcomes. Patients not only achieve better blood glucose control but also experience substantial and sustained weight loss. This dual benefit has positioned GLP-1 receptor agonists as a cornerstone therapy, especially in patients with obesity-related metabolic disorders. The approval of higher-dose formulations specifically for weight management has further accelerated their popularity.The rising demand for these medications reflects a broader shift toward addressing obesity as a chronic disease rather than a lifestyle issue. Clinically, GLP-1 therapies have also shown cardiovascular benefits, including reduced risk of major adverse cardiac events, which is particularly important in diabetic populations.However, the surge comes with challenges. High cost and limited availability remain significant barriers, especially in developing countries. Common side effects include nausea, vomiting, and gastrointestinal discomfort, which may affect patient compliance. Additionally, concerns about long-term safety and misuse for cosmetic weight loss are being actively discussed. Pharmaceutical innovation is rapidly advancing, with newer agents such as dual and triple agonists (targeting GLP-1, GIP, and glucagon receptors) under development, offering even greater efficacy. Oral formulations are also being explored to improve convenience and adherence.

In conclusion, the GLP-1 drug surge represents a major breakthrough in metabolic disease management. By addressing both diabetes and obesity simultaneously, these therapies are reshaping treatment paradigms and paving the way for more integrated and effective healthcare solutions.

Laxmi Joshi & Barsha Samanta
B.Pharm 2nd year

Holi 2026

The vibrant festival of colors, Holi, was celebrated with immense enthusiasm and joy at IIMT Group of Colleges, 2026. The entire campus was filled with energy, positivity, and a spirit of togetherness as students and faculty came together to celebrate this auspicious occasion. The presence and encouragement of Dr. Mayank Agarwal added great significance to the celebration, inspiring students to participate wholeheartedly.

The celebration began with a lively atmosphere, enriched with music, laughter, and cheerful greetings. Students actively engaged in applying colors to one another, symbolizing unity, friendship, and the essence of togetherness. The event beautifully reflected the cultural richness and diversity of the institution, where everyone celebrated beyond differences.

Various cultural activities, music, and dance performances added vibrance to the event. Students expressed their joy through energetic dance performances, creating a festive environment across the campus. Faculty members also joined the celebrations, strengthening the bond between teachers and students and making the occasion even more special.

Special emphasis was placed on maintaining a safe and eco-friendly environment. Students were encouraged to use organic colors and celebrate responsibly. Proper arrangements and supervision ensured that the event was conducted smoothly, maintaining discipline and decorum throughout.

The celebration also served as a refreshing break from academic routines, allowing students to relax and connect with their peers and mentors. The joyful environment fostered positivity and created a sense of belonging among all participants.

Holi 2026 at IIMT Group of Colleges was not just a festival but a celebration of unity, happiness, and cultural harmony. It left behind beautiful memories filled with colors, laughter, and togetherness. The event successfully strengthened relationships, uplifted spirits, and highlighted the importance of celebrating traditions with enthusiasm and mutual respect.

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Holi 2026

Holi 2026

ALUMNI SESSION

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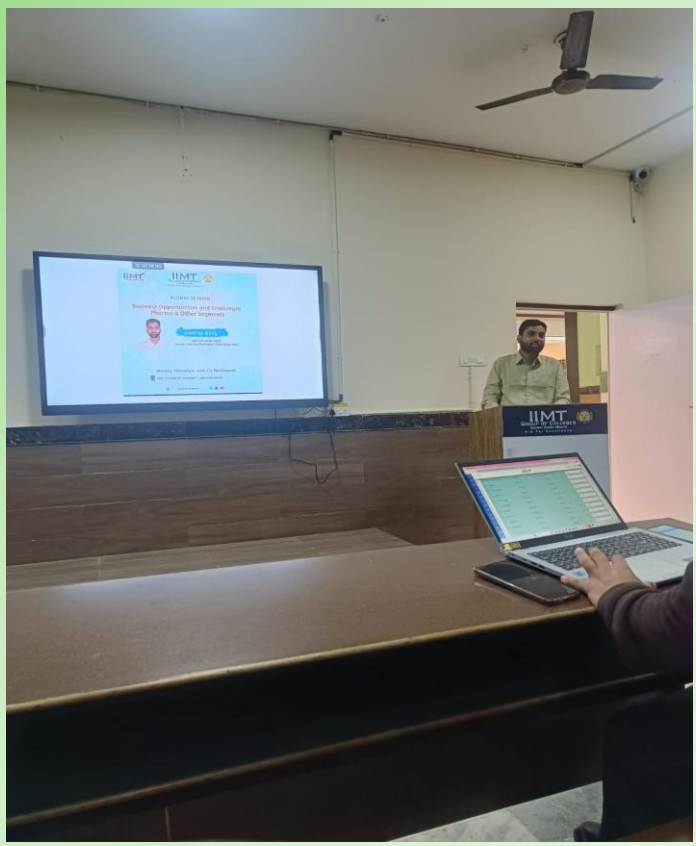
ALUMNI SESSION



WORKSHOP

Faculty Achievement in Research Methodology Workshop

IIMT College of Pharmacy proudly acknowledges the academic achievement of its faculty members, Dr. Shweta Sharma and Ms. Anamika Kulshreshtha, who successfully participated in the “Systematic Review Methodology and Data Handling Workshop” organized by the Technical Resource Centre (TRC), Department of Health Research (DHR), in collaboration with NIPER Mohali, from 2nd to 5th February 2026.

This prestigious workshop focused on enhancing research skills, particularly in systematic review methodologies, data analysis, and evidence-based practices. The participation of our faculty members reflects their commitment to continuous learning and professional development in the field of pharmaceutical research.

Their involvement in such a reputed program not only enriches their knowledge but also contributes to improving the academic and research environment within the institution. The insights gained from this workshop will benefit students by integrating advanced research techniques into teaching practices.

The college congratulates them on this accomplishment and appreciates their dedication towards academic excellence and innovation.

A Moment of Pride for IIMT Parivar

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Pharma Bulletin

New Trial Data: Advancements in Next-Generation Weight-Loss Therapies

Recent clinical trial data have further accelerated excitement around next-generation anti-obesity drugs. Eli Lilly reported that its experimental drug retatrutide, a novel triple agonist targeting GLP-1, GIP, and glucagon receptors, demonstrated substantial weight loss in Phase 3 trials. Patients achieved unprecedented reductions in body weight, in some cases approaching levels typically seen with bariatric surgery.

This positions retatrutide as a potential breakthrough in obesity management, with enhanced metabolic effects compared to earlier GLP-1 therapies. Simultaneously, Novo Nordisk announced promising results for its new oral obesity drug, marking a significant step toward more convenient treatment options. Unlike injectable GLP-1 receptor agonists, oral formulations improve patient compliance and accessibility, potentially expanding the reach of obesity pharmacotherapy to a broader population. These developments highlight a shift toward multi-targeted therapies that not only suppress appetite but also increase energy expenditure and improve metabolic regulation. Retatrutide's triple mechanism represents a new frontier, addressing obesity through multiple physiological pathways simultaneously. However, despite encouraging efficacy data, long-term safety, cost considerations, and real-world accessibility remain key challenges. As these drugs move closer to regulatory approval, healthcare systems must prepare for increased demand and ensure appropriate clinical use.

Overall, the latest trial outcomes reinforce the rapid evolution of obesity treatment, with pharmaceutical innovation paving the way for more effective, patient-friendly, and comprehensive therapeutic options.

Monika Yadav &
Anshika Chaudhary
B.Pharm (2nd Year)

Student Certificates

Student Certificates

Student Certificates

NITI Aayog | Supported By AIM ATAL INNOVATION MISSION | ATAL INCUBATION CENTRE - BIMTECH | Tathagat Innovest | BIMTECH BIRLA INSTITUTE OF MANAGEMENT TECHNOLOGY

AICBIMTECH/2026/041

CERTIFICATE OF PARTICIPATION

Proudly Presented To

Vovan

In recognition of his/her sincere and dedicated participation during
Tathagat Innovest 2026 | Startup World Cup Regional India Edition,
organized by AIC BIMTECH on 12th March 2026 at BIMTECH, Greater Noida.

Mr. Surya Kant
CEO, AIC-BIMTECH

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AICBIMTECH/2026/040

CERTIFICATE OF PARTICIPATION

Proudly Presented To

Vivek Pandey

In recognition of his/her sincere and dedicated participation during
Tathagat Innovest 2026 | Startup World Cup Regional India Edition,
organized by AIC BIMTECH on 12th March 2026 at BIMTECH, Greater Noida.

Mr. Surya Kant
CEO, AIC-BIMTECH

Student Certificates

NITI Aayog | AIM | ATAL INCUBATION CENTRE - BIMTECH | Tathagat Innovest | BIMTECH BIRLA INSTITUTE OF MANAGEMENT TECHNOLOGY

AICBIMTECH/2026/052

CERTIFICATE OF PARTICIPATION

Proudly Presented To

Aditya Dev

In recognition of his/her sincere and dedicated participation during **Tathagat Innovest 2026 | Startup World Cup Regional India Edition,** organized by AIC BIMTECH on 12th March 2026 at BIMTECH, Greater Noida.

Mr. Surya Kant
CEO, AIC-BIMTECH

NITI Aayog | AIM | ATAL INCUBATION CENTRE - BIMTECH | Tathagat Innovest | BIMTECH BIRLA INSTITUTE OF MANAGEMENT TECHNOLOGY

AICBIMTECH/2026/053

CERTIFICATE OF PARTICIPATION

Proudly Presented To

Abhiraj

In recognition of his/her sincere and dedicated participation during **Tathagat Innovest 2026 | Startup World Cup Regional India Edition,** organized by AIC BIMTECH on 12th March 2026 at BIMTECH, Greater Noida.

Mr. Surya Kant
CEO, AIC-BIMTECH

Certificate

Of Achievement

Pharma Lesson Masterclass

This is to certify that

Pratyush Raj

has successfully completed the course of

Introduction to Pharmaceutical Regulatory Affairs

on January 29, 2026

Credential ID 1eb1c1951842d54a

Pharma Lesson

Authorized By

Pharma Lesson

Student Certificates

ASIAN EDUCATION GROUP

ATHLEEMA - 2026

13th Annual Sports Meet

27th, 28th & 30th March 2026

CERTIFICATE

This is to certify that Mr./Ms. HARSHIT PANDEY

student of IIMT Group of colleges

participated in Tug of war - BOYS

held as a part of ATHLEEMA 2026 - 13th Annual Sports Meet Organized from 27th, 28th & 30th March 2026

and secured Winner position.

Akshay Kumar
EVENT COORDINATOR

DIRECTOR - ASIAN EDUCATION GROUP

Associate By

Sponsored By

NCVET
कौशल गुणवत्ता प्रगति

Skill India
कौशल भारत-कुशल भारत

लाइफ साइंसेज सेक्टर स्किल डेवलपमेंट काउंसिल
Life Sciences Sector Skill Development Council
राष्ट्रीय व्यावसायिक शिक्षा एवं प्रशिक्षण परिषद द्वारा मान्यता प्राप्त
Recognised by NCVET
कौशल योग्यता प्रमाणपत्र
Certificate for Skill Competency

प्रमाणपत्र संख्या Certificate No. : 2023110117222493-092031
APAAR ID : 176964263612

प्रमाणित किया जाता है कि श्री / सुश्री / एमएक्स This is to certify that Mr./Ms./Mx. Aditya Saurav

पुत्र / पुत्री / प्रतिपालित Son/Daughter/Ward of -- जन्म तिथि Date of Birth 21/12/2003 नामांकन संख्या Enrolment No 2023110117222493

द्वारा has been assessed by Embedded Assessment और कार्य भूमिका / अहर्ता का and cleared the assessment

मूल्यांकन in the job role/qualification AI in Pharma: Transforming Life Sciences Through Technology एनएसक्यूएफ स्तर at NSQF Level 5

अवधि of Duration 5 Hours अर्जित किया having earned 0.15 क्रेडिट प्रशिक्षण केन्द्र पर Credits at Training Centre Online

जिला District New Delhi राज्य State Delhi प्रतिशत / श्रेणी के साथ उत्तीर्ण किया। with NA %/Grade

जारी करने का स्थान Place of Issue New Delhi जारी करने की तिथि Date of Issue 27/02/2026

LSSSDC

ई-सत्यापन लिंक e-Verification link
Digitally Generated Certificate NSQF - National Skills Qualification Framework

Goutam Bhattacharya
Chief Executive Officer, LSSSDC

Faculties Journal Publications

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Synergistic combinatorial anticancer potential of Tamoxifen with Naringin and Diosmetin in MCF-7 breast cancer cells and their liposomal delivery

Priyanka Uniyal[1], Siddhartha Das Pramanik[2], Swadha Pandey[3,4], Prashant Shukla[1], Partha Roy[2], Deepak Parashar[3], Saurabh Gupta[4], Ravi Rawat[1,5✉], Anand Gaurav[1,6,7✉] & Vannajan Sanghiran Lee[8,9✉]

Breast cancer continues to remain a significant issue due to resistance to endocrine therapies, including tamoxifen. Naringin and Diosmetin (natural flavonoids) have anticancer effects that may synergistically enhance therapeutic efficacy when used with Tamoxifen. However, their inadequate solubility and bioavailability require the formulation of specialised delivery systems. This research aimed to determine the synergistic anticancer potential of dual (Tamoxifen + Naringin, Tamoxifen + Diosmetin) and triple (Tamoxifen + Naringin + Diosmetin) combinations, followed by evaluation of their liposomal co-delivery as a formulation strategy. The MTT test evaluated cytotoxic activities in breast cancer cell lines (MCF-7, T47D). IC_{50} values were obtained for Tamoxifen (9.38 ± 1.87 µM), Naringin (12.34 ± 1.23 µM), and Diosmetin (22.7 ± 1.76 µM). The combination index study showed a more significant synergism when Tamoxifen was combined with Naringin than with Diosmetin. Protein expression analysis revealed significant downregulation of Bcl-2 ($p < 0.01$) and Bcl-xL ($p < 0.01$) and upregulation of cleaved caspase-3 ($p < 0.01$) in the combination-treated groups. Liposomal formulations were developed and characterized based on the identified synergistic effects of combinations and showing particle sizes ranging from 150 to 210 nm, with a PDI of less than 0.3. Zeta potential readings ranging from −19 to −29 mV indicated stability, whereas FE-SEM pictures revealed a spherical shape. In vitro release conformed to the Higuchi kinetics for both dual and triple liposomal delivery systems ($r^2 \geq 0.98$). The findings reveal that dual and triple combinations of Tamoxifen with flavonoids synergistically improve cytotoxicity, decrease anti-apoptotic signaling, and activate caspase-dependent pathways. Therefore, the results indicate the synergistic biological effects of Tamoxifen–flavonoid combinations and suggest that nanocarrier-based co-delivery may serve as a beneficial formulation approach for future therapeutic development.

Keywords Tamoxifen, Naringin, Diosmetin, Liposomal drug delivery, Combination therapy, Breast cancer

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Research Article

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Comprehensive profiling of phenolics in *Citrus medica* Leaves: Isolation, characterization, HPLC-DAD method development, and antioxidant evaluation

Priyanka Uniyal[1] | Ankit Pandey[2,3] | Suddhasattya Dey[4] | Deepanmol Singh[1*] | Ravi Rawat[1,5*]

Citrus medica L. (Rutaceae), or citron, is a medicinally important plant rich in bioactive phenolic chemicals. Several studies have focused on the occurrence of phenolic compounds in citrus fruits and peels, but their presence in citrus leaves remains a remnant. The present study included the extraction of phenolic compounds from *C. medica* leaves using a Soxhlet apparatus. Isolation was performed using column chromatography with a chloroform:ethyl acetate solvent system. It gives the phenolic compounds diosmin, naringenin, hesperidin, quercetin, umbelliferone, and *p*-coumaric acid. Structural characterization was conducted by UV, IR, NMR, and HR-MS spectroscopy. A significant antioxidant property of the ethanolic extract was established through *in vitro* analysis using DPPH and hydrogen peroxide radical scavenging assays. The IC_{50} values were found to be 239.3 µg/mL for the DPPH radical scavenging assay and 416.7 µg/mL for the hydrogen peroxide scavenging assay. The phenolic compounds in the extract are responsible for its antioxidant activity. A new isocratic high-performance liquid chromatography technique with a diode-array detector has been established and confirmed for the simultaneous quantification of six separated phenolic substances. The optimized approach achieved comprehensive separation in 22 minutes and was validated as per ICH Q2 guidelines. Unlike existing gradient elution methods, the isocratic method offers advantages for HPLC systems equipped with isocratic pumps, ensuring reproducibility and efficiency. This study presents a validated isocratic HPLC–DAD technique for the quantitative analysis of phenolic chemicals in *C. medica* leaves, offering a novel analytical approach to current phytochemical research.

Keywords: *Citrus medica L.*, Phenolic compound, Isolation, HPLC method development, Antioxidant activity

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Medicinal Chemistry, XXXX, *XX*, XX-XX 1

REVIEW ARTICLE

BENTHAM SCIENCE

Benzimidazole and Benzimidazole Derivatives as Anticancer Scaffolds: A Review of Synthetic Approaches

Pushkar Kumar Ray[1,*], Shubham Verma[1], MD. Sarfaraz Alam[1], Satyendra Kumar Mishra[1] and Vikas Chauhan[1]

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Abstract: ***Introduction*:** The objective of exploiting benzimidazole, a chemical compound with the molecular formula $C_7H_6N_2$, varies depending on its application. In this review, articles published between 2001 and 2025 were analyzed. Its adaptability and multiple chemical properties make it valuable in fields such as pharmaceuticals, materials science, and chemical research. The structural characteristics of benzimidazole allow for a wide range of modifications and applications.

***Methods*:** The benzimidazole derivatives were synthesized and analyzed. An extensive literature search was conducted using databases such as Google Scholar, PubMed, ScienceDirect, SpringerLink, Wiley Online Library, RSC Publishing, and Eureka Select. Key synthetic methods, including Philip's reaction, oxidative/reductive cyclization, multicomponent reactions, and microwave-assisted synthesis, were illustrated using ChemDraw Ultra.

***Results*:** This review outlines synthetic strategies for developing potent benzimidazole-based anticancer agents, highlighting their therapeutic potential through a summary of *in vitro* efficacy in inducing apoptosis and cell cycle arrest across various cancer cell lines.

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Lariciresinol: a potent natural compound with diverse therapeutic and health benefits

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ABSTRACT

Scientific research has identified lariciresinol among lignan types, which shows potential against cancer development and bacterial infections in addition to serving as an antioxidant that affects oestrogen activity while blocking inflammation. The review analyses the detailed medical and biological properties of lariciresinol. The two Brassicaceae plant genera *Isatis indigotica* and *Brassica oleracea* contain this substance, which exists in various plant types. The compound demonstrated anticancer properties through its mechanisms of stopping cancer cell multiplication and triggering programmed cell death. Recent research found that lariciresinol can block the function of the virus that causes COVID-19 by reducing its ability to enter the cells and proliferate. Lariciresinol antiviral actions have been shown to reduce RNA and viral protein production. The diverse impacts indicate that lariciresinol is a potential compound for novel health solutions and future therapeutic innovations.

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KEYWORDS
Lignans; natural products; lariciresinol (LSR); anticancer; anti-inflammatory; antioxidants; natural molecules entities (NMEs)

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RESEARCH ARTICLE

In Silico ADMET Studies, Molecular Docking and Molecular Dynamics Simulation of Thiadiazole Derivatives for the Identification of Putative HsaA Monooxygenase Inhibitors

Min Zheng[1,#], Ankush Kumar[2,#], Vishakha[2], Tapan Behl[3,*], Ravi Rawat[4,£], Pranay Wal[5], Ketki Rani[6], Mohit Agarwal[7], Raghwendra R. Waghmode[8], Monica Gulati[9,10], Azmat Ali Khan[11], Amer M. Alanazi[11], Seema Ramniwas[12], Bairong Shen[1,*] and Rajeev Kumar Singla[1,9,*]

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RESEARCH ARTICLE

In Silico Identification of Antihypertensive Phytoconstituents in *Terminalia arjuna via* Molecular Docking, MD Simulation, and DFT Analysis

Pankaj Verma[1], Sanjeev Kumar Sahu[1], Ravi Rawat[2,£], Volkan Eyupoglu[3], Preeti Patel[4], Palwinder Kaur[1], Pratibha Pandey[5] and Manish Vyas[1,6,*]

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Abstract: ***Introduction***: Hypertension is a major global health concern, and the exploration of natural compounds as potential antihypertensive agents has been a recent area of study.. The ancient medicinal tree *Terminalia arjuna* is very potent for treating cardiovascular conditions. Its bark is rich in bioactive compounds, such as flavonoids, tannins, and triterpenoids, which exhibit cardioprotective properties.

Methods: This research focused on identifying and characterizing antihypertensive phytoconstituents of *Terminalia arjuna* through molecular docking, dynamic simulations, and DFT studies. We systematically screened bioactive compounds from the plant for their ability to interact with key targets (PDB:2X96), which are involved in the regulation of blood pressure using AutoDock Tools 1.5.7. The dynamic behavior of the complexes was evaluated using molecular dynamics (MD) simulation in the GROMACS package program (version 2022.2). DFT calculations were performed using DMol3 (Discovery Studio Client) to determine molecular electronic properties.

Results: We identified Quercetin and Ellagic acid as promising ligands with strong binding affinities and significant pre-ADMET analysis database. Further, molecular dynamics simulations (500 ns) provided insights into the stability and binding modes of these selected compounds, highlighting their potential for long-term efficacy. DFT calculations were employed to evaluate the electronic properties, such as frontier molecular orbital analysis and electrostatic potential mapping, revealing the reactivity and interaction profiles of the compounds. The docking scores and MMGBSA binding free energy value of Ellagic acid with AnCE-RXPA380

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Tathagat Innovest 2026

IIMT College of Pharmacy marked a significant presence at Tathagat Innovest 2026 | Startup World Cup Regional India Edition, organized by AIC-BIMTECH on 12th March 2026 at Birla Institute of Management Technology (BIMTECH), Greater Noida. The event served as a dynamic platform for innovation, entrepreneurship, and the exchange of groundbreaking ideas among students and academicians from various institutions.

From IIMT College of Pharmacy, Prof. (Dr.) Nakul Gupta, Dr. Nisha Gupta, and Ms.Anupama Katoch actively participated in the event, representing the institution with enthusiasm and dedication. Their participation was formally recognized with certificates awarded by the organizing body, AIC-BIMTECH, under the leadership of CEO Mr. Surya Kant.

The event provided valuable exposure to the participants, enabling them to explore the startup ecosystem, interact with innovators, and gain insights into entrepreneurial opportunities in the pharmaceutical and healthcare sectors. It also encouraged the spirit of innovation and critical thinking among students and faculty alike.

The participation of IIMT College of Pharmacy in such a prestigious event highlights the institution's continuous efforts to promote research, innovation, and entrepreneurial mindset among its academic community. This experience will undoubtedly inspire students to pursue innovative ideas and contribute meaningfully to the field of pharmacy and beyond.


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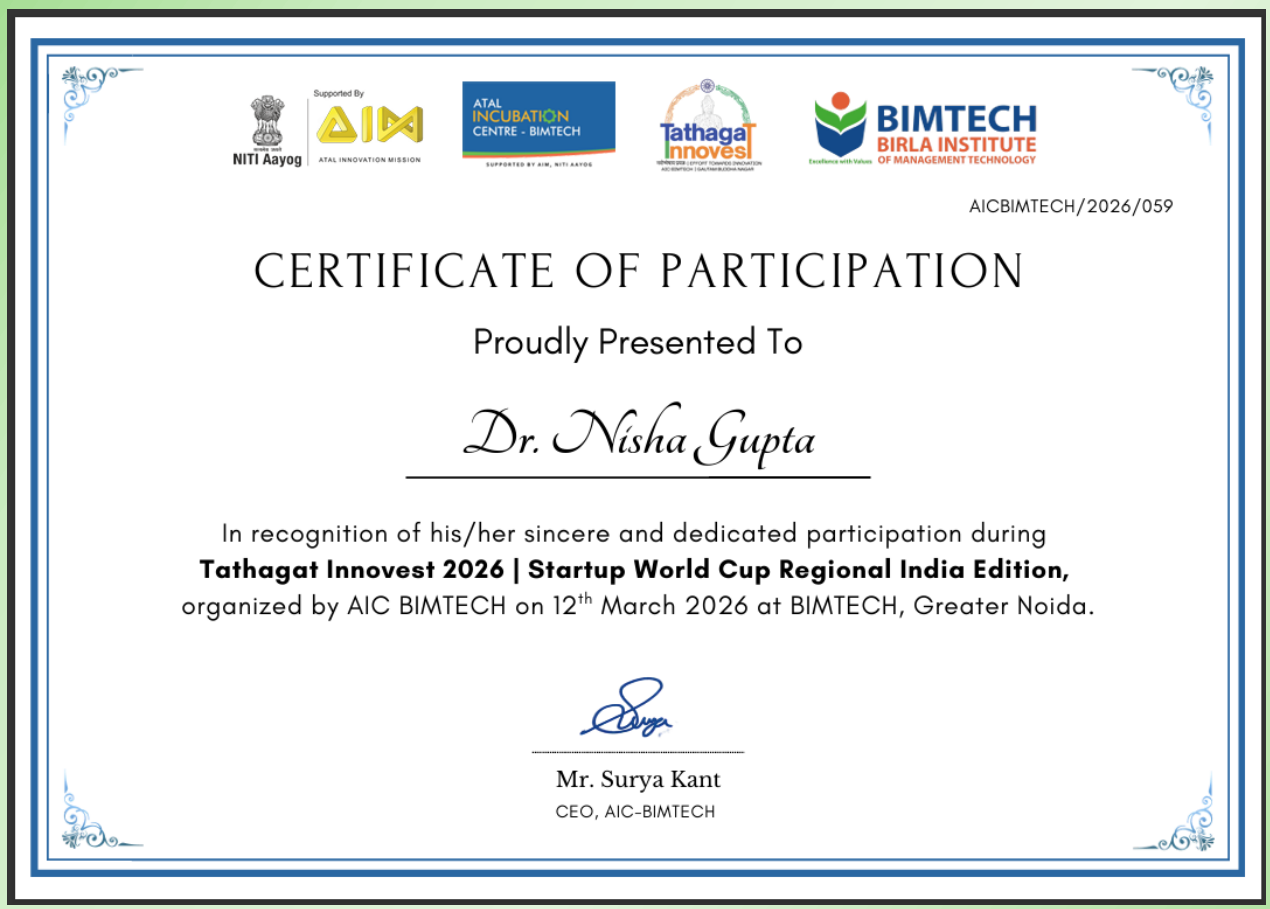

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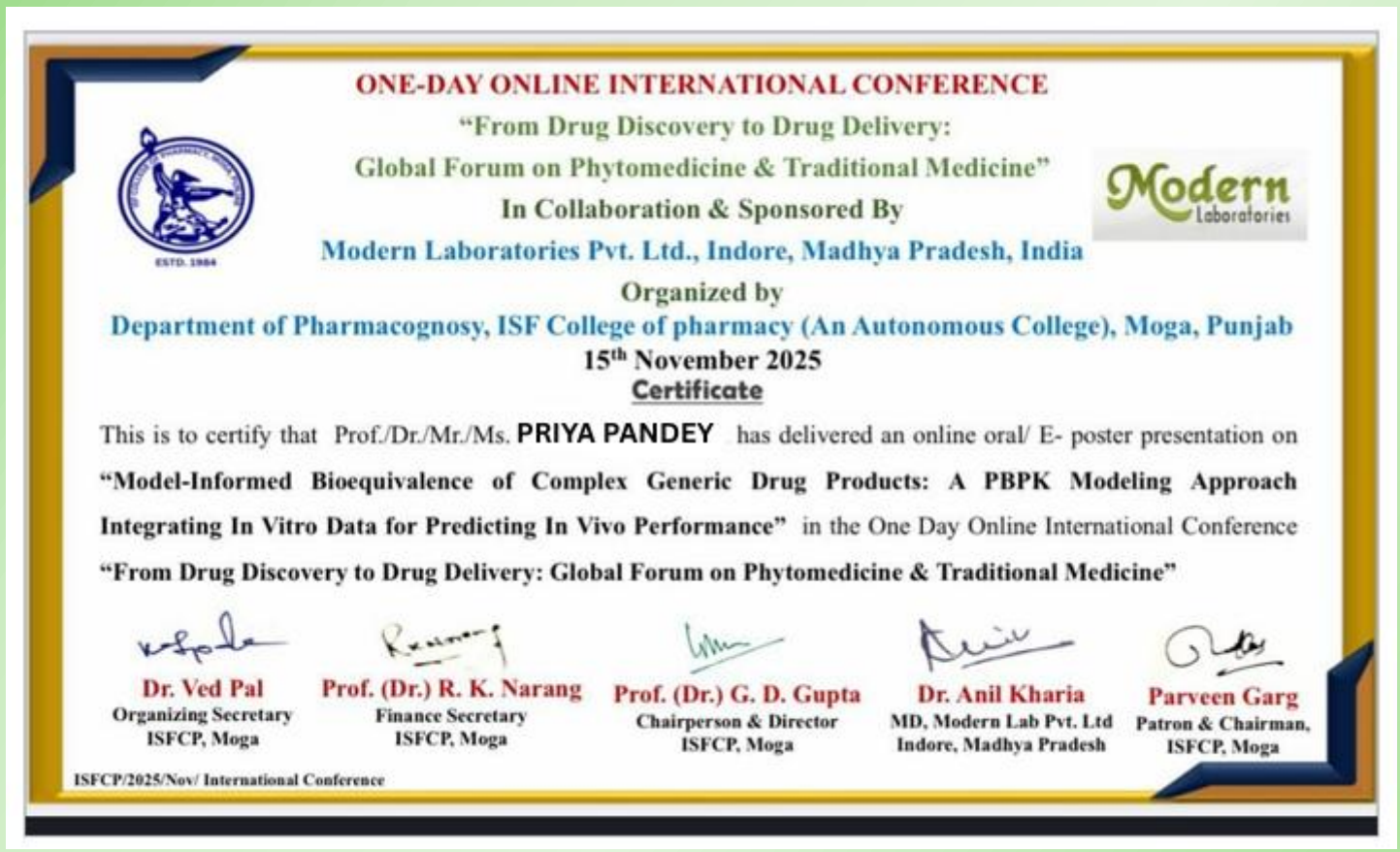

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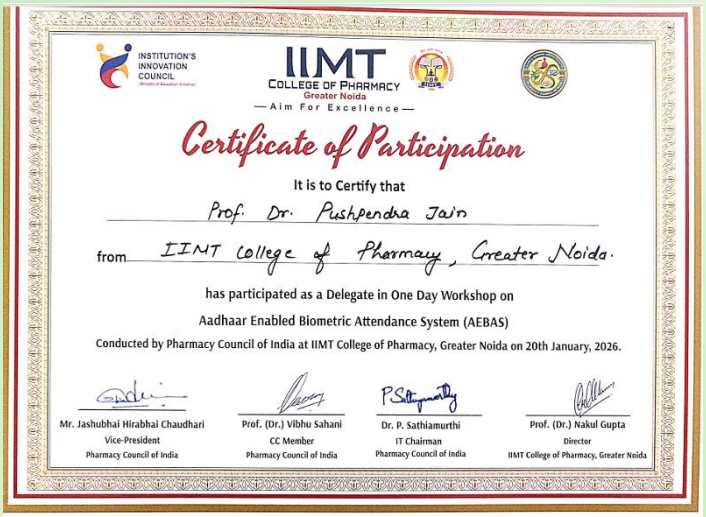

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प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *COLD STORAGE TEMPERATURE MONITORING DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 10-05 में 1.Pushpendra Kumar Jain 2. Nitin Kumar 3.Bhakti Pandey 4.Sudhir Kumar Arora 5.Sapna 6.Nisha Gupta 7.Vikas Chauhan 8.Ravi Kumar 9.Nakul Gupta के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 10-05 in respect of the application of such design to *COLD STORAGE TEMPERATURE MONITORING DEVICE* in the name of 1.Pushpendra Kumar Jain 2. Nitin Kumar 3.Bhakti Pandey 4.Sudhir Kumar Arora 5.Sapna 6.Nisha Gupta 7.Vikas Chauhan 8.Ravi Kumar 9.Nakul Gupta.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि / Date of Issue : 24/12/2025

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The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

ORIGINAL
क्रम सं/ Serial No. : 216637

INTELLECTUAL PROPERTY INDIA

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डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 475551-001
तारीख / Date : 01/10/2025
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *DRUG INTERACTION ANALYSIS DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Bhakti Pandey 2. Sudhir Kumar Arora 3.Sapna 4.Nisha Gupta 5.Vikas Chauhan 6.Ravi Kumar 7.Nakul Gupta 8.Pushpendra Kumar Jain 9.Nitin Kumar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to *DRUG INTERACTION ANALYSIS DEVICE* in the name of 1.Bhakti Pandey 2. Sudhir Kumar Arora 3.Sapna 4.Nisha Gupta 5.Vikas Chauhan 6.Ravi Kumar 7.Nakul Gupta 8.Pushpendra Kumar Jain 9.Nitin Kumar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि / Date of Issue : 18/12/2025

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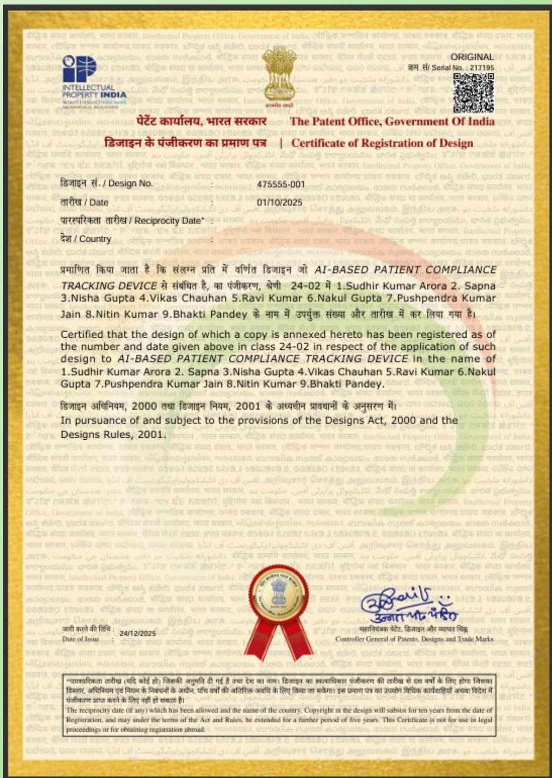
The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.



ORIGINAL
क्रम सं/ Serial No. : 217195

INTELLECTUAL PROPERTY INDIA

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डिजाइन सं. / Design No. : 475555-001
तारीख / Date : 01/10/2025
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *AI-BASED PATIENT COMPLIANCE TRACKING DEVICE* से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Sudhir Kumar Arora 2. Sapna 3.Nisha Gupta 4.Vikas Chauhan 5.Ravi Kumar 6.Nakul Gupta 7.Pushpendra Kumar Jain 8.Nitin Kumar 9.Bhakti Pandey के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-02 in respect of the application of such design to *AI-BASED PATIENT COMPLIANCE TRACKING DEVICE* in the name of 1.Sudhir Kumar Arora 2. Sapna 3.Nisha Gupta 4.Vikas Chauhan 5.Ravi Kumar 6.Nakul Gupta 7.Pushpendra Kumar Jain 8.Nitin Kumar 9.Bhakti Pandey.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि / Date of Issue : 24/12/2025

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

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ORIGINAL
क्रम सं/ Serial No. : 219671

INTELLECTUAL PROPERTY INDIA

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 475557-001
तारीख / Date : 01/10/2025
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो VOICE-ACTIVATED MEDICINE IDENTIFICATION DEVICE से संबंधित है, का पंजीकरण, श्रेणी 10-05 में 1.Sapna 2. Nisha Gupta 3.Vikas Chauhan 4.Ravi Kumar 5.Nakul Gupta 6.Pushpendra Kumar Jain 7.Nitin Kumar 8.Bhakti Pandey 9.Sudhir Kumar Arora के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 10-05 in respect of the application of such design to VOICE-ACTIVATED MEDICINE IDENTIFICATION DEVICE in the name of 1.Sapna 2. Nisha Gupta 3.Vikas Chauhan 4.Ravi Kumar 5.Nakul Gupta 6.Pushpendra Kumar Jain 7.Nitin Kumar 8.Bhakti Pandey 9.Sudhir Kumar Arora.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि Date of Issue : 08/01/2026

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The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

ORIGINAL
क्रम सं/ Serial No. : 218790

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डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 475556-001
तारीख / Date : 01/10/2025
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो INHALER से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Vikas Chauhan 2. Ravi Kumar 3.Nakul Gupta 4.Pushpendra Kumar Jain 5.Nitin Kumar 6.Bhakti Pandey 7.Sudhir Kumar Arora 8.Sapna 9.Nisha Gupta के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-02 in respect of the application of such design to INHALER in the name of 1.Vikas Chauhan 2. Ravi Kumar 3.Nakul Gupta 4.Pushpendra Kumar Jain 5.Nitin Kumar 6.Bhakti Pandey 7.Sudhir Kumar Arora 8.Sapna 9.Nisha Gupta.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि Date of Issue : 05/01/2026

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The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

ORIGINAL
क्रम सं/ Serial No. : 215743

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डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 475553-001
तारीख / Date : 01/10/2025
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो NON-INVASIVE DRUG DELIVERY DEVICE से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Ravi Kumar 2. Nakul Gupta 3.Pushpendra Kumar Jain 4.Nitin Kumar 5.Bhakti Pandey 6.Sudhir Kumar Arora 7.Sapna 8.Nisha Gupta 9.Vikas Chauhan के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to NON-INVASIVE DRUG DELIVERY DEVICE in the name of 1.Ravi Kumar 2. Nakul Gupta 3.Pushpendra Kumar Jain 4.Nitin Kumar 5.Bhakti Pandey 6.Sudhir Kumar Arora 7.Sapna 8.Nisha Gupta 9.Vikas Chauhan.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि Date of Issue : 11/12/2025

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The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

ORIGINAL
क्रम सं/ Serial No. : 217965

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डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 475653-001
तारीख / Date : 03/10/2025
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो UNUSED DRUG DISPOSAL BIN से संबंधित है, का पंजीकरण, श्रेणी 09-09 में 1.Nakul Gupta 2. Pushpendra Kumar Jain के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 09-09 in respect of the application of such design to UNUSED DRUG DISPOSAL BIN in the name of 1.Nakul Gupta 2. Pushpendra Kumar Jain.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि Date of Issue : 01/01/2026

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The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

Faculties Patents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/12/2025
(21) Application No.202511122439 A
(43) Publication Date : 23/01/2026

(54) Title of the invention : NOVEL BIOACTIVE PHYTO-SYNTHETIC FORMULATIONS AND THEIR PHARMACOLOGICAL APPLICATIONS IN DRUG DELIVERY SYSTEMS

(51) International classification	:A61K 9/14, A61P 35/00, A61K 9/51, A61K 9/16, A61K 31/192
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	: :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to novel bioactive phyto-synthetic formulations comprising plant-derived bioactive compounds integrated with synthetic polymeric carriers for enhanced drug delivery systems. The formulations utilize phytochemicals extracted from medicinal plants combined with biodegradable synthetic polymers to create hybrid nano-particulate systems exhibiting superior bioavailability, controlled release kinetics, and targeted therapeutic action. The invention encompasses methods of preparing these formulations through green synthesis techniques, resulting in stable colloidal dispersions with particle sizes ranging from 50 to 500 nanometers. The phyto-synthetic composites demonstrate enhanced solubility of hydrophobic drugs, improved cellular uptake, reduced toxicity, and prolonged circulation time in biological systems. The formulations find applications in treating various diseases including cancer, diabetes, inflammatory disorders, and microbial infections. The invention provides pharmaceutical compositions with improved therapeutic efficacy compared to conventional drug delivery systems while maintaining biocompatibility and environmental sustainability through the use of natural plant-based components and biodegradable synthetic materials.

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The IIMT College of Pharmacy was established in 2006 under the IIMT group of colleges, and it has an incredible reputation for providing high-quality educational services to diploma, graduate, and postgraduate students in the Delhi NCR region. Numerous talented students who have passed out from the institution have proved to be a boon for the healthcare and pharmaceutical sectors.

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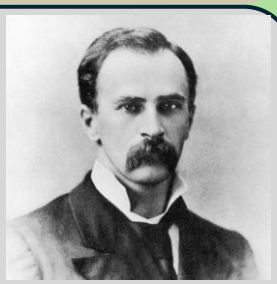

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"Bheshaja" (भेषज) is a profound word from Sanskrit that translates to "medicine," "a remedy," or "a cure."

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