

BHESHAJA

Exclusively for the IIMT Community



KNOWLEDGE

Empowering minds
through quality
pharmacy education.



RESEARCH

Driving innovation
for better health
and a brighter future.



SERVICE

Committed to
community well-being
and professional ethics.



“

Nurturing **Excellence**,
Inspiring **Innovation**,
Transforming **Lives**.



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www.iimtindia.net



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Managing Director's Message

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.



Dr. Mayank Aggarwal
Managing Director

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

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.



Prof. (Dr.) Nakul Gupta
Director

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

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



Mr. Vishnu Prabhakar
Managing Editor



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.

Editorial Board

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Prof. (Dr.) Nakul Gupta
Director

MANAGING EDITOR
Mr. Vishnu Prabhakar
Assistant Professor

CONTENT EDITOR
Ms. Anupama Katoch
Assistant Professor

BHESHAJA | HIGHLIGHTS



AWARD OF EXCELLENCE

"Excellence Recognized Nationally"



2nd Rank in India



1st Rank in Northern Region



GHRDC-IIRF Survey 2026



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Students Corner



"From my very first day, I felt welcomed by the friendly campus atmosphere and supportive faculty. The interactive teaching methods and hands-on practical sessions have made learning enjoyable and have strengthened my interest in pharmaceutical sciences."

Mahi Banerjee
B.Pharm 1st year

The college provides excellent academic guidance along with numerous opportunities to participate in seminars, workshops, and co-curricular activities. These experiences have enhanced my communication skills, leadership qualities, and overall personality, preparing me for a successful career in pharmacy."

Monika Chauhan
B. Pharm 1st year



"My journey at IIMT College of Pharmacy has been enriching and inspiring. The institution not only focuses on academic excellence but also motivates students to participate in research, community outreach, and cultural activities, ensuring holistic development."

Harvender
M.Pharm 2nd year



IIMT College of Pharmacy has provided me with the right blend of theoretical knowledge and practical exposure. The continuous encouragement from teachers and the opportunities to participate in academic and extracurricular activities have boosted my confidence and career aspirations."

Aditi Dubey
M.Pharm 2nd year

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.

Anubhuti Mishra
IPC Ghaziabad

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.

Ankit Maurya
Alumni



Free Health Camps



Throughout the academic session, IIMT College of Pharmacy actively organized and participated in several health camps across nearby communities. These camps focused on health awareness, patient counselling, basic health screening, and medication guidance. Such initiatives strengthened the institution's social outreach while providing students with valuable opportunities for experiential learning and community engagement.

Free Health Camps



As part of its community outreach initiatives, IIMT College of Pharmacy conducted health camps aimed at providing basic healthcare services and creating awareness about disease prevention. Faculty members and students worked together to offer health screening, counselling, and medication guidance, reflecting the institution's commitment to community service, experiential learning, and public health promotion.

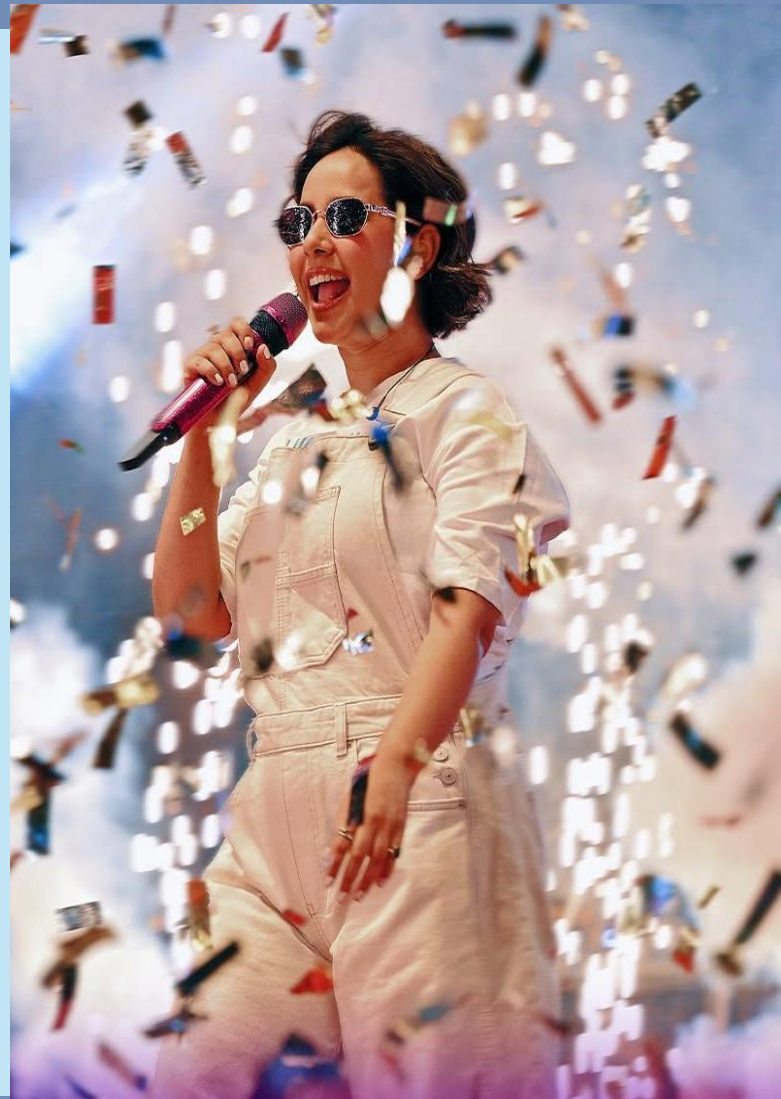
Health Camps



IIMT College of Pharmacy organized community health camps to promote preventive healthcare and enhance public awareness. Faculty members and students actively participated in patient registration, health screening, counselling, and medication guidance. These outreach initiatives provided valuable healthcare services to the community while enabling students to develop practical clinical skills and strengthen their commitment to social responsibility and compassionate patient care.

STAR NIGHT

The campus came alive with music, excitement, and celebration during the spectacular **Star Night**, one of the most anticipated events of the academic session. Renowned Punjabi singer **Sunanda Sharma** mesmerized the audience with her energetic live performance, making the evening truly unforgettable. The event witnessed enthusiastic participation from students and faculty, while the felicitation of the guest artist added a special touch. Star Night reflected the institution's commitment to promoting cultural excellence, creativity, and holistic student development beyond academics.





STAR NIGHT



MOU Signing Ceremony

IIMT
GROUP OF COLLEGES
Greater Noida • Meerut
— Aim For Excellence —



Memorandum of Understanding **SIGNING CEREMONY** Signing Today, Building Tomorrow



**MAX Hospitals (Central) and IIMT Group of Colleges Join Hands
Through an MoU for Enhanced Healthcare Benefits**

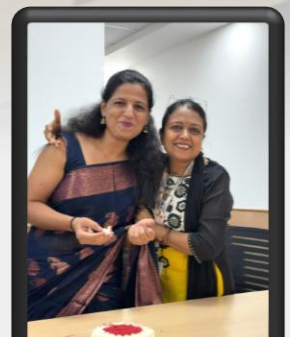
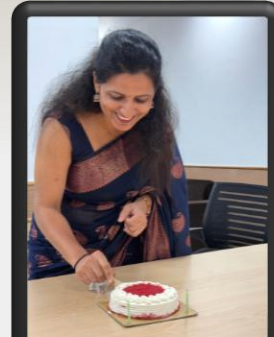
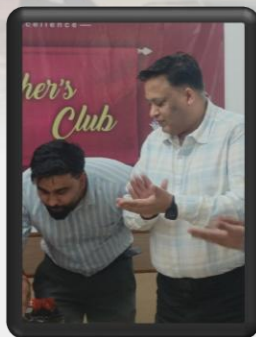


Your Health, Our Priority
Group Insurance Coverage Available at All MAX Hospitals

🌐 www.iimtindia.net |    



Happy Birthday to Our Faculty



Faculty members celebrated birthdays in a joyful gathering filled with warm wishes, cake cutting, and shared moments of happiness. Such celebrations strengthen the spirit of togetherness and reflect the institution's culture of appreciation and camaraderie.

Awards

CERTIFICATE — OF ACHIEVEMENT —



**IIMT College of Pharmacy,
Greater Noida, Uttar Pradesh**



For Participation in GHRDC B. Pharm Colleges Survey 2026

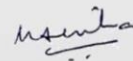
Awarded

2nd Rank of Top B. Pharm Colleges in India

1st Rank in the Northern Region

Global Human Resource Development Centre Pvt. Ltd.
New Delhi

Presented by



Mekhla Sinha
Executive Director

IIMT College of Pharmacy achieved a significant milestone by securing the 2nd Rank among Pharmacy Colleges in India and the 1st Rank in the Northern Region in the GHRDC–IIRF Colleges Survey 2026. This prestigious recognition underscores the institution's dedication to academic excellence, research, innovation, and holistic student development, reaffirming its position as one of the leading pharmacy institutions in the country.

"Excellence is not an achievement; it is a continuous journey."

Congratulations

To All For Successfully Qualifying GPAT 2026

B.PHARMA



ARYAN RAKWAL

AIR 183



WAJID AHMAD KHANDAY

AIR 968



RIYA POKHARIYA

AIR 1398

PCI CAPSULE LEADERSHIP PROGRAMME



The CAPSULE (Creating Able Pharmacists for Sustainable Leadership in Education) Leadership Programme is a landmark initiative launched by the Pharmacy Council of India (PCI). Introduced alongside the new NEP-aligned B.Pharm syllabus, this nationwide faculty development program is designed to transform pharmacy educators into visionary institutional leaders.

By hosting regional hands-on workshops for principals and senior professors, the PCI CAPSULE program ensures that the future of Indian pharmacy education is innovative, collaborative, and globally competitive. The PCI CAPSULE program reshapes pharmaceutical education through four core pillars: Strategic Leadership to implement institutional visions; Pedagogical Innovation integrating Generative AI; Industry Collaboration bridging academia with healthcare regulatory bodies; and National Impact to cultivate globally competitive, top-tier pharmacy professionals capable of driving sustainable healthcare ecosystem growth.



PCI CAPSULE LEADERSHIP PROGRAMME



Pharmacy Council of India
A Statutory Body under the Ministry of Health and Family Welfare



CAPSULE (1st Batch)

Innovative Leadership Program by Pharmacy Council of India-2026
Creating Able Pharmacists for Sustainable Leadership in Education
Venue: Pharmacy Council of India, I-Tower World Trade Centre, New Delhi
Date: 17th & 18th April, 2026



Tug of War Girls Team

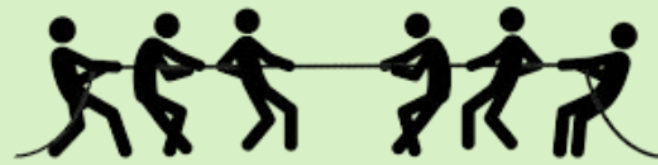
आइआइएमटी कालेज में 'स्वलक्ष्य' का शुभारंभ



आइआइएमटी कालेज में आयोजित खेल प्रतियोगिता के दौरान टग आफ वार में जोर लगाती छात्राएं • सौ. कालेज प्रबंधन

जासं, ग्रेटर नोएडा: नालेज पार्क-तीन स्थित आइआइएमटी कालेज समूह में दो दिवसीय सांस्कृतिक एवं तकनीकी महोत्सव 'स्वलक्ष्य 2026' का उद्घाटन हुआ। मुख्य अतिथि गौतमबुद्ध नगर के अपर पुलिस आयुक्त अजय कुमार का स्वागत संस्थान के प्रबंध निदेशक डा. मयंक अग्रवाल ने किया। मुख्य अतिथि ने कहा कि खेल में हार-जीत चलती रही है। प्रतियोगिता में खेल भावना का भी परिचय देना चाहिए। डा. मयंक अग्रवाल ने बताया कि प्रतियोगिता में 50 कालेज के 2800 छात्र भाग ले रहे हैं। पहले दिन सांस्कृतिक मंच पर सोलो व ग्रुप डांस, सिंगिंग, नुक्कड़

नाटक और स्टैंड-अप कामेडी में छात्रों ने शानदार प्रदर्शन किया। स्पोर्ट्स श्रेणी में वालीबाल, बैडमिंटन, टग आफ वार, कबड्डी, टेबल टेनिस, कैरम और शतरंज के मुकाबले खेल भावना के साथ खेले गए। टेक्निकल इवेंट्स में बीजीएमआई, फ्री फायर, टावर बिल्डिंग, कोडिंग मैराथन और टेक्निकल क्विज में छात्रों ने अपनी तकनीकी दक्षता का प्रदर्शन किया। वहीं डिबेट, कविता पाठ, एक्सटेम्पोर, निबंध लेखन, आर्टिस्टिक श्रेणी में स्केचिंग, रंगोली, मेहंदी, पोस्टर व कैलिग्राफी प्रतियोगिताएं हुईं।



Pharma News

Gene Therapy and mRNA Vaccines



Recent regulatory developments have highlighted significant progress in two of the most promising areas of modern biotechnology: gene therapy and mRNA-based vaccines. The U.S. Food and Drug Administration (FDA) has taken encouraging steps regarding both Regeneron's rare-disease gene therapy candidate and Moderna's influenza vaccine program, underscoring growing confidence in innovative therapeutic platforms.

In a notable shift, the FDA reversed its earlier position on Regeneron's investigational gene therapy for a rare genetic disorder and expressed support for the company's accelerated approval pathway. The decision reflects the agency's recognition of the urgent unmet medical needs faced by patients with rare diseases, where treatment options are often limited or nonexistent. Accelerated approval could enable earlier patient access to potentially life-changing therapies while additional clinical data continue to be collected. Gene therapy represents a transformative approach to medicine by targeting the underlying genetic causes of disease rather than merely managing symptoms. Positive regulatory feedback for Regeneron strengthens optimism that advanced genetic treatments may soon become more accessible to patients suffering from inherited disorders. At the same time, Moderna achieved a significant milestone when an FDA advisory committee unanimously supported its influenza vaccine candidate designed for older adults. The vaccine utilizes the company's mRNA technology platform, which gained global recognition during the COVID-19 pandemic. Experts believe that mRNA-based influenza vaccines may offer improved immune responses and faster adaptation to evolving viral strains compared with traditional flu vaccines. The unanimous endorsement demonstrates growing confidence in the versatility and long-term potential of mRNA technology beyond infectious disease outbreaks. Older adults remain particularly vulnerable to influenza-related complications, making the development of more effective vaccines a major public health priority.

Together, these regulatory milestones highlight the evolving landscape of biomedical innovation. From gene therapies that address the root causes of rare diseases to next-generation mRNA vaccines designed to enhance protection against seasonal infections, these advances illustrate how regulatory agencies are increasingly supporting cutting-edge technologies that have the potential to transform patient care and improve global health outcomes.



Ranadev Mandal
B.Pharm 2nd year

PLANTATION DRIVE



The Plantation Drive reflected the institution's dedication to environmental sustainability and community engagement. Faculty members and students joined hands to plant saplings and spread awareness about the importance of preserving nature. The initiative encouraged responsible environmental practices and reinforced the message that every tree planted today contributes to a healthier and greener tomorrow.

"The best time to plant a tree was years ago. The next best time is today."



PLANTATION DRIVE at **IIMT**
COLLEGE OF PHARMACY
Greater Noida
— Aim For Excellence —

NASHA MUKTI ABHIYAN



IIMT
COLLEGE OF PHARMACY
Greater Noida
— Aim For Excellence —



is organizing

NASHA MUKTI ABHIYAN

"Nasha Chhodo, Jeevan Jodo"



नशा छोड़ो, जीवन जोड़ो।

📍 IIMT COLLEGE OF PHARMACY

📅 Tuesday 7th April 2026 | 2:00 PM Onwards

🌐 www.iimtindia.net |    

IIMT College of Pharmacy actively organized the Nasha Mukti Abhiyan to create awareness about the harmful effects of substance abuse and to promote a healthy, drug-free lifestyle. Through expert talks, informative presentations, interactive sessions, and student participation, the campaign encouraged responsible decision-making and reinforced the importance of prevention, self-discipline, and community well-being. The initiative reflected the institution's commitment to social responsibility and public health awareness.



SPORTS EVENT



IIMT
COLLEGE OF PHARMACY
Greater Noida
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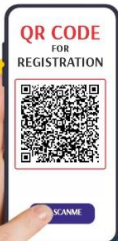
is organizing

SPORTS DAY

Table Tennis | Carrom | Ludo | Chess



FREE REGISTRATION
Winners will get certificate



 IIMT COLLEGE OF PHARMACY

 Friday, 10th APRIL 2026 | 2:00 PM Onwards

The Sports Day celebration witnessed enthusiastic participation from students in a variety of indoor games such as table tennis, chess, snooker, carrom, and board games. The event fostered teamwork, discipline, and healthy competition while offering students a refreshing break from academics and an opportunity to strengthen friendships through sports.



SPORTS DAY



Sports Day was organized to encourage teamwork, healthy competition, and recreational engagement among students. Participants enthusiastically competed in indoor games including table tennis, chess, carrom, snooker, and board games. The event promoted sportsmanship, strategic thinking, and camaraderie while providing students with an enjoyable platform to showcase their skills beyond academics.

FAREWELL



organized

Farewell PARTY 2K26

www.iimtindia.net |    

The Farewell Celebration 2K26 was organized to bid a heartfelt farewell to the graduating students. The event was filled with inspiring speeches, cultural performances, interactive activities, and memorable moments that celebrated friendships, achievements, and the journey shared at IIMT College of Pharmacy. Faculty members extended their best wishes to the outgoing batch for a successful and fulfilling future.

FAREWELL



Pharma Bulletin

Eli Lilly's Brain-Tech Bet: Shaping the Future of Neurological Care



Pharmaceutical giant Eli Lilly is making a bold move into brain technology, reflecting its commitment to addressing the growing global burden of neurological disorders. Building on its success in neuroscience and Alzheimer's disease research, the company is increasingly investing in advanced neurotechnologies that combine artificial intelligence, digital health tools, and brain-monitoring systems to improve patient care.

Neurological diseases such as Alzheimer's disease, Parkinson's disease, epilepsy, and other cognitive disorders affect millions of people worldwide. Traditional diagnostic methods often detect these conditions only after significant neurological damage has occurred. Lilly's brain-tech initiatives aim to bridge this gap by enabling earlier detection, continuous monitoring, and more personalized treatment strategies. The integration of wearable devices, digital biomarkers, and machine learning algorithms offers the potential to track subtle changes in brain function long before clinical symptoms become apparent. Such technologies could help clinicians identify high-risk individuals, monitor disease progression in real time, and evaluate treatment effectiveness more accurately than conventional approaches. Lilly's investment also highlights the growing convergence of pharmaceutical research and digital innovation. Rather than relying solely on drug development, the company is exploring a comprehensive ecosystem that combines therapeutics with advanced diagnostic and monitoring technologies. This approach aligns with the broader vision of precision medicine, where treatments are tailored to individual patient characteristics and disease profiles. As healthcare increasingly embraces digital transformation, Eli Lilly's brain-tech strategy may accelerate the development of next-generation neurological therapies while improving patient outcomes. By combining cutting-edge neuroscience with innovative technology platforms, the company is positioning itself at the forefront of a rapidly evolving field that could redefine the future of brain health and neurological care.



Vivek Kumar
B.Pharm (4th Year)

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NEWS AND MEDIA

AI और हेल्थकेयर पर हुआ सम्मेलन



■ **NBT न्यूज, ग्रेटर नोएडा :** आईआईएमटी कॉलेज ऑफ फार्मसी में अंतरराष्ट्रीय सम्मेलन आईसीएचएआई-2026 का शुभारंभ हुआ। मुख्य अतिथि डॉ. अनिल कुमार शर्मा (एमिल फार्मा) ने कहा कि आर्टिफिशियल इंटेलिजेंस हेल्थकेयर सेक्टर में क्रांतिकारी बदलाव ला रहा है। प्रबंध निदेशक डॉ. मयंक अग्रवाल ने छात्रों को आधुनिक शोध से जुड़ने के लिए प्रेरित किया। सम्मेलन में 22 राज्यों के 648 विशेषज्ञों ने हिस्सा लिया और 150 शोध पत्र प्रस्तुत किए गए। डायरेक्टर डॉ. नकुल गुप्ता ने बताया कि चिकित्सा क्षेत्र में एआई का समन्वय भविष्य की स्वास्थ्य सेवाओं को अधिक प्रभावी बनाएगा।

erut

मेरठ | शुक्रवार • 01.05.2026

अमरउजाला

06



आईआईएमटी विवि की स्टार नाइट में सुनंदा शर्मा ने मचाया धमाल

ग्रेटर नोएडा (वि.)। ग्रेनो के नॉलेज पार्क-3 स्थित आईआईएमटी विश्वविद्यालय परिसर में आयोजित स्टार नाइट कार्यक्रम में मशहूर पंजाबी सिंगर एवं अभिनेत्री सुनंदा शर्मा की दमदार प्रस्तुति से पूरा परिसर तालियों से गूँज उठा। सुनंदा ने अपने सुपरहिट गाने 'जानी तेरा ना' और 'दुजी वार प्यार होया सच्चा' की धुन पर छात्र-छात्राओं को थिरकने पर मजबूर कर दिया। इस दौरान पूरा परिसर एक मिनी कॉन्सर्ट में तब्दील हो गया। कार्यक्रम में आईआईएमटी विवि के प्रति कुलाधिपति मयंक अग्रवाल और आईआईएमटी स्कूल की प्रबंध संचालिका पिष्षु अग्रवाल ने सुनंदा शर्मा का स्वागत किया। उन्होंने सुनंदा को स्मृति चिह्न भेंट किया। मयंक अग्रवाल ने कहा कि ऐसे सांस्कृतिक आयोजन छात्रों के मनोरंजन के साथ-साथ उनकी प्रतिभाओं को मंच प्रदान करते हैं और सकारात्मक ऊर्जा का संचार करते हैं।

'चिकित्सा सेवाओं में एआइ बनेगा प्रभावी'



आइसीएचएआई-2026 के शुभारंभ के मौके पर शामिल अतिथि व शिक्षक •

जासं, ग्रेटर नोएडा : नालेज पार्क स्थित आईआईएमटी कॉलेज ऑफ फार्मसी में दो दिवसीय अंतरराष्ट्रीय सम्मेलन आइसीएचएआई-2026 का बृहस्पतिवार को शुभारंभ हुआ। सम्मेलन में देश के 22 राज्यों से 648 विशेषज्ञों, शोधार्थी व छात्र शामिल हुए। पहले दिन आयोजित विभिन्न तकनीकी सत्रों में आर्टिफिशियल इंटेलिजेंस, डिजिटल हेल्थ, दवा अनुसंधान व तकनीकी नवाचार जैसे विषयों पर

विस्तृत चर्चा हुई। विदेशी विशेषज्ञों ने भी अपने शोध प्रस्तुत कर सम्मेलन को अंतरराष्ट्रीय स्वरूप दिया। सम्मेलन के दौरान 150 शोध पत्र प्रस्तुत किए गए। मुख्य अतिथि एमिल फार्मास्युटिकल्स (इंडिया) लिमिटेड के उपाध्यक्ष डा. अनिल कुमार शर्मा ने कहा कि एआइ हेल्थकेयर सेक्टर में तेजी से बदलाव ला रहा है। आने वाले समय में यह चिकित्सा सेवाओं को और अधिक प्रभावी एवं सुलभ बनाएगा।

NEWS AND MEDIA

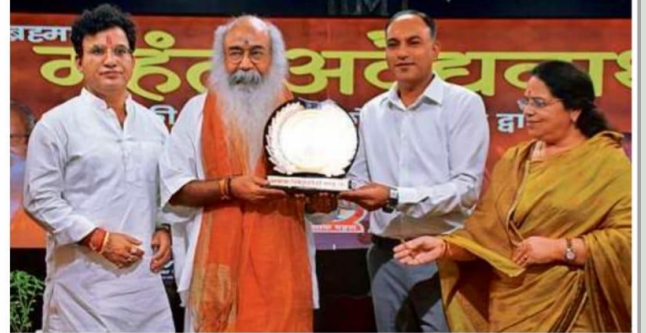
आईआईएमटी विवि ग्रेनो परिसर में महंत अवैद्यनाथ जयंती पर संगोष्ठी



ग्रेटर नोएडा (वि)। आईआईएमटी विश्वविद्यालय ग्रेनो परिसर स्थित कृष्णा सभागार में ब्रह्मलीन महंत अवैद्यनाथ की जयंती पर बौद्धिक संगोष्ठी का आयोजन किया गया। संगोष्ठी का मुख्य विषय महंत अवैद्यनाथ एवं सामाजिक समरसता रहा। कार्यक्रम में आचार्य प्रमोद कृष्णम मुख्य अतिथि के रूप में उपस्थित रहे।

आईआईएमटी कॉलेज समूह के प्रबंध निदेशक डॉ. मयंक अग्रवाल ने पुष्पगुच्छ भेंट कर आचार्य प्रमोद कृष्णम का स्वागत किया। आचार्य कृष्णम ने कहा कि महंत अवैद्यनाथ का जीवन समाज को एकता और राष्ट्रहित का मार्ग दिखाता है। उनके विचार आज भी समाज को जोड़ने और समरसता स्थापित करने में सहायक हैं। डॉ. मयंक अग्रवाल ने कहा कि महंत अवैद्यनाथ जैसे संतों के आदर्शों को अपनाकर ही सशक्त समाज का निर्माण संभव है। ऐसे आयोजन युवाओं को सही दिशा देते हैं और उन्हें अपनी जिम्मेदारी समझने के लिए प्रेरित करते हैं। वह उत्तर प्रदेश के मुख्यमंत्री योगी आदित्यनाथ के गुरु भी रहे हैं।

महंत अवैद्यनाथ जयंती पर दिया समरसता का संदेश



आईआईएमटी कॉलेज में आयोजित कार्यक्रम में आचार्य प्रमोद कृष्णम को स्मृति चिह्न देते कॉलेज समूह के प्रबंध निदेशक डा. मयंक अग्रवाल ● सौ. कॉलेज प्रबंधन जासं, ग्रेटर नोएडा : ब्रह्मलीन महंत अवैद्यनाथ की जयंती के अवसर पर नालेज पार्क स्थित आईआईएमटी विश्वविद्यालय कैपस परिसर स्थित कृष्णा सभागार में एक बौद्धिक संगोष्ठी हुई। कार्यक्रम का मुख्य विषय 'महंत अवैद्यनाथ एवं सामाजिक समरसता' रहा। इसमें बड़ी संख्या में विद्यार्थियों, शिक्षाविदों आदि ने भाग लिया। कार्यक्रम में मुख्य अतिथि आचार्य प्रमोद कृष्णम रहे। कॉलेज समूह के प्रबंध निदेशक डा. मयंक अग्रवाल ने उन्हें पुष्पगुच्छ भेंट किया। आचार्य प्रमोद कृष्णम ने कहा कि महंत अवैद्यनाथ का जीवन समाज को एकता, धर्म और राष्ट्रहित के मार्ग पर चलने की प्रेरणा देता है। उनके विचार आज भी समाज को जोड़ने व समरसता स्थापित करने में मार्गदर्शक हैं। डा. मयंक अग्रवाल ने कहा कि महंत अवैद्यनाथ जैसे महान संतों के आदर्शों को अपनाकर ही हम एक सशक्त व समरस समाज का निर्माण कर सकते हैं। महंत अवैद्यनाथ उत्तर प्रदेश के मुख्यमंत्री योगी आदित्यनाथ के गुरु रहे हैं, जिनके मार्गदर्शन में सामाजिक और सांस्कृतिक मूल्यों को आगे बढ़ाने की प्रेरणा मिलती रही है।

अमरउजाला

भविष्य ज्योति

2026

आपकी प्रतिभा ने बढ़ावा स्कूल, शहर और जिले का मान। हम करेंगे आपकी मेहनत और मेधा का सम्मान। आपकी इस शानदार उपलब्धि पर अमर उजाला आयोजित कर रहा है 'भविष्य ज्योति' समावेह। इसमें श्रेष्ठ छात्र छात्राओं के साथ शिक्षकों शिक्षिकाओं का भी होगा सम्मान।

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Student Papers



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Review Article

International Journal Research Publication Analysis

Page: 01-10

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN PHARMACEUTICAL FORMULATIONS

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Knowledge Park 3, Greater Noida. Gautam Budha Nagar – 201310, U.P, India.

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ABSTRACT

Artificial Intelligence (AI) and Machine Learning (ML) are rapidly transforming the pharmaceutical industry, particularly in the field of pharmaceutical formulations. Traditional formulation development is often expensive, time-consuming, and dependent on repeated trial-and-error experimentation. Scientists must optimize numerous variables such as excipient selection, drug release profile, stability, manufacturing parameters, and patient acceptability before achieving a successful product. AI and ML provide a powerful data-driven alternative by analysing large datasets, identifying hidden relationships, and predicting outcomes with high precision. These technologies can significantly reduce development timelines, lower costs, improve product quality, and accelerate innovation.

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Full

Text Views



Abstract

Document Sections

I. Introduction

II. Related Works

III. Research Methodology

IV. Results and Discussion

V. Conclusions

Abstract:

The paper discusses the implementation of Convolutional Neural Networks (CNNs) into a Computer Vision-Integrated Surgical Navigation System that is used to provide precision medicine. The proposed system works with the help of CNNs which are applied to medical images, including CT and MRI scans to find and mark the anatomical structures and abnormalities in a correct way during the surgery. The CNN model is paramilated on an enormous number of annotated medical images to acquire the main features which are then provided to the surgeon in real-time. This technique improves accuracy of surgery as it can provide a more accurate visualization of the internal organs which will help make better decisions. The system is also connected to the Augmented Reality (AR) technology that allows to position these insights on the body of the patient during surgery to provide a comprehensive technology and interactive experience of navigation. The use of CNNs to analyze images and AR to visualize objects in real-time, in turn, enhances the accuracy of surgery and reduces the chance of error significantly, which makes the method of work an important tool in precision medicine and contemporary surgery.

Authors



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Natural Language Processing-Enabled Patient Record Analysis Framework for Treatment Planning

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Text Views



Abstract

Document Sections

I. Introduction

II. Related Works

III. Research Methodology

IV. Results and Discussion

V. Conclusions

Abstract:

The given paper describes a model of Natural Language Processing (NLP)-based patient records analysis and its possibility to improve the treatment planning. With the help of further developed transformer models like BioBERT that is fine-tuned on medical text, the proposed structure is capable of extracting valuable information out of unstructured clinical language, e.g., EHRs, discharge summaries, and diagnostic reports automatically. The framework is centered on determining the major medical entities including symptoms, diagnosis and treatment history, which makes the analysis of the conditions of patients more precise and efficient. With the help of those insights built into the systems of treatment planning, clinicians will be able to make decisions based on the data, anticipate patient outcomes, and tailor care plans more efficiently. The system is measured in terms of such metrics as precision, recall, and F1-score, which illustrate that the system effectively improves the accuracy of decision support in comparison with the manual-based traditional techniques. Our strategy demonstrates how NLP can transform healthcare by enhancing planning and reducing errors in the treatment process, as well as delivering maximum patient care.

Authors



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Research Article

Formulation and Evaluation of Mucoadhesive Microspheres of Desloratadine for Nasal Delivery in Allergy Management

Author(s): Beer Singh*, Nakul Gupta, Md Sarfaraz Alam and Satyendra Kumar Mishra

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Chinese Journal of Cardiology



Formulation, Optimization and Evaluation of Polyherbal Topical Cream Incorporating Curcuma Caesia And Clitoria Ternatea Extracts for Antioxidant and Antibacterial Activity

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ABSTRACT:

Formulation, Optimization and Evaluation of Polyherbal Topical Cream Incorporating Curcuma Caesia And Clitoria Ternatea Extracts for Antioxidant and Antibacterial Activity

Skin is the largest human body organ and forms the main physical and immunological barrier against all the threats of the external environment such as microbial invasion, ultraviolet radiation, and exposure to chemicals. Dermatological ailments continue to be a global health problem, particularly in terms of infections caused by microbes and oxidative stress. In tropical and subtropical areas, the incidence of skin diseases is much greater than in temperate climates, due to the more favourable environment for the development of pathogenic microorganisms and the production of reactive oxygen species (ROS) in the epidermal and dermal tissues. Skin infections are also one of the most common health issues worldwide and are one of the main health issues that cause primary healthcare burden

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Formulation and Preliminary Evaluation of a Piroxicam Nano-Emulgel Containing Arnica and *Clitoria ternatea* Oils

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REVIEW ARTICLE

Targeting approaches for *H. pylori* infection

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¹Department of pharmacy, IIMT College of Pharmacy, Greater Noida, 201310

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Abstract: The ubiquitous bacterial disease known as *Helicobacter pylori* (*H. pylori*) is linked to a number of gastrointestinal conditions, such as gastritis and peptic ulcers. This presentation addresses the difficulties caused by antibiotic resistance while giving a summary of current targeted strategies for *H. pylori* treatment. *H. pylori* eradication relies heavily on traditional antibiotic therapy like amoxicillin and clarithromycin, but increasing resistance rates need further research into other tactics. Proton pump inhibitors (PPIs) and bismuth-containing regimens combined in novel ways have shown improved effectiveness and decreased recurrence risks. Probiotics and prebiotics, which alter the gut microbiota to make it less conducive to *H. pylori* growth, are becoming more and more popular as adjuvant treatments in addition to conventional antibiotics. Moreover, phytotherapeutics show encouraging anti-*H. pylori* action, especially polyphenols derived from plants like cranberries and green tea.

Vaccination tactics are difficult, but they may help eliminate microorganisms or stop an illness from happening in the first place. This field of study investigates a variety of vaccination candidates and delivery systems. Derivatives of nitroimidazole are a unique family of drugs that have activity against *H. pylori*, possibly providing an alternative to existing antibiotics and overcoming resistance. Medication delivery methods based on nanoparticles are becoming more and more popular because of their capacity to increase medication bioavailability and stability. These technologies could be a game-changer in reducing the adverse effects of antibiotics without sacrificing their intended effectiveness against *H. pylori*. To sum up, this abstract highlights the need for an all-encompassing and dynamic strategy for attacking *H. pylori*, combining conventional antibiotics with cutting-edge tactics to tackle the many problems caused by bacterial resistance and enhance treatment results.

Keywords: Infections, *H. pylori*, peptic ulcer, targeted, gastric.

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INTERNATIONAL RESEARCH JOURNAL OF PHARMACY
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THERAPEUTIC USES OF KARANJ IN VARIOUS DISORDERS

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Doi: <http://doi.org/10.56802/irjp.2025.v16.i06.pp47-67>

ABSTRACT

Pongamia Pinnata (karanj) is an ancient plant described in veda, samhita and almost in all Nighantu. It is one of the significant herbal plants with different therapeutic medicinal properties. The oil, leaves and bark of the pongamia pinnata tree have remarkable medicinal properties. While showing the promising therapeutic potential, standardization of the preparations, rigorous clinical trials, and safety profiling remain a critical research priorities. This review aims to bridge the old medicinal knowledge with contemporary pharmacological understanding, highlighting the pongamia pinnata potential in developing novel therapeutic interventions. In contrast oil cakes have broad pesticidal applications due to the presence of various bioactive constituents (e.g., Karanjin and Pongamol). It has an alternative source of energy, which is renewable, safe and non-pollutant. Pongamia pinnata is used in many diseases viz Diabetes, diarrhea, skin disease as scabies. In review article reveals the overall information about the therapeutic use of pongamia pinnata (karanj) in various disorders.

Keywords: Pongamia pinnata, Therapeutic uses, Ayurveda, Disorders



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A REVIEW ON NUTRACEUTICALS WITH ITS RECENT ADVANCEMENT (AN OVER VIEW)

1. Abstract -

In the current scenario people are deeply concerned about their health because of lifestyles have changed drastically due to increase in working hours and various psychological pressures, which have led to an increased incidence of various life-threatening diseases.[1] In addition to this they are frustrated with the expensive, high-tech, disease-treatment and management approach. The demand for nutraceuticals and phytonutrients has increased over the past few years and they are being used by people for various outcomes. Nutraceuticals have also found considerable trust in treating headaches and migraines resulting from stress. Other related nutraceutical products are touted as cures for thinning hair, lack of confidence poor complexion, varicose veins, alcoholism, depression, and lethargy. In this chapter we made an attempt to classify all types of nutraceuticals with examples followed by their application in the treatment of various disorders. Furthermore, the implantation of the designing and development of dosage forms for offering better delivery nutraceuticals carrier of the importance and challenges have also been enumerated. Products known as nutraceuticals can be used as medication in addition to being nutritional. A substance that has physiological benefits or offers protection against chronic disease may be referred to as a nutraceutical product. Nutraceuticals can be used to boost wellbeing, slow down aging, stop

Faculties Journal Publications



Exploring Quantum Dots for Diagnosis and Treatment of CNS Disorders: Toxicity, Biodistribution, and Emerging Challenges

Buy this Article

Authors: Krishana Kumar Sharma¹, Sumit Durgapal², Bhakti Sudha Pandey³, Vaibhav Rastogi⁴, Prashant Kumar⁵, Gauree Kukreti⁶ and Gajendra Kumar⁷

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Source: Current Pharmaceutical Design

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Received: 15 Mar 2025 **Accepted:** 10 Jul 2025 **Available online:** 11 Mar 2026

REVIEW ARTICLE

Microneedle-based Transdermal Patch: A Novel Strategy for Hyperpigmentation Treatment

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Abstract: Excess melanin deposition causes hyperpigmentation, a common dermatological disorder that leads to skin discoloration and an uneven skin tone. Traditional therapies such as topical creams and chemical peels have limitations due to insufficient skin penetration, lengthy treatment durations, and potential adverse effects. Transdermal drug administration has emerged as a viable alternative, offering improved therapeutic effectiveness, sustained release, and enhanced drug absorption. Among transdermal systems, microneedle-based patches have gained significant interest because of their ability to deliver active compounds directly through the skin, bypassing the stratum corneum. This study examines recent advancements in transdermal delivery for hyperpigmentation treatment, with a focus on dissolving microneedle (DMN) patches. Research indicates that DMN patches containing niacinamide, glabridin, and tranexamic acid exhibit greater skin-lightening effects than traditional topical formulations. Clinical studies have validated their safety, efficacy, and ability to reduce melasma and post-inflammatory hyperpigmentation with minimal side effects. Furthermore, novel polymeric formulations enhance drug absorption and stability, optimizing therapeutic outcomes. The use of multifunctional components, targeting tyrosinase inhibition, oxidative stress reduction, and melanin transfer, further improves depigmentation efficacy. The paper also highlights how emerging carriers, such as tetrahedral framework nucleic acids (tFNAs), may enhance drug delivery efficiency. As transdermal technologies continue to advance, microneedle-based approaches hold strong potential to transform hyperpigmentation treatment by providing a highly effective, non-invasive, and patient-friendly therapeutic option. Future research should focus on expanding clinical applications and refining formulation parameters to maximize benefits across diverse skin types.

Keywords: Transdermal, patch, hyperpigmentation, novel, dermatological, disorder.

Faculties Journal Publications

Anti-Injunctive Agents, AAAAA, AA, AAAAA

REVIEW ARTICLE

Nanogel Formulation for Enhanced Fungal Infection Treatment

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ARTICLE HISTORY

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Abstract: Fungal infections pose a significant global health burden, affecting millions annually, particularly in resource-limited regions. Traditional antifungal therapies, while effective, often present challenges such as limited skin penetration, systemic toxicity, and undesirable side effects, necessitating frequent application of high drug doses. Nanogel formulations offer a promising solution by integrating advanced nanotechnology with enhanced drug delivery systems. These innovative formulations combine the benefits of nanocarriers and hydrogel matrices, ensuring improved drug stability, controlled release, and targeted delivery to infection sites. Nanogels enhance therapeutic efficacy by facilitating deeper penetration into skin layers and maintaining localized drug concentration, thereby minimizing systemic exposure and associated toxicities. They are versatile in encapsulating both hydrophilic and hydrophobic antifungal agents, addressing a wide spectrum of fungal infections, from superficial conditions like tinea versicolor to invasive subcutaneous mycoses. Additionally, the non-greasy, lightweight texture and reduced risk of irritation improve patient compliance, which is crucial for effective treatment outcomes.

Recent advancements in nanogel technology include the incorporation of natural oils, combination therapies, and stimuli-responsive systems, further broadening their therapeutic potential. Research into optimizing particle size, zeta potential, and formulation stability continues to enhance their clinical applicability. Moreover, nanogels show promise in overcoming antifungal resistance and exploring applications for systemic and neurological fungal infections. In conclusion, nanogel formulations offer a safer, more effective, and patient-friendly alternative to traditional antifungal treatments. With continued innovation and standardization, they hold the potential to significantly reduce the global burden of fungal diseases and revolutionize dermatological therapy.

RESEARCH ARTICLE

Formulation and Preliminary Evaluation of a Piroxicam Nano-Emulgel Containing Arnica and *Clitoria ternatea* Oils

Rahul Singh^{1,*}, Nakul Gupta¹, Md. Sarfaraz Alam² and Satyendra Kumar Mishra¹

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ARTICLE HISTORY

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Abstract: Introduction: Oral and injectable formulations of piroxicam are associated with systemic adverse effects, including gastrointestinal toxicity and renal impairment. Topical nano-emulgel systems can mitigate these limitations by enabling localized, sustained drug delivery with reduced systemic exposure.

Methods: Piroxicam nanoemulsions were formulated using high-speed homogenization followed by probe sonication and subsequently incorporated into a Carbopol 940 gel base. Four batches containing different concentrations of Arnica and *Clitoria ternatea* oils were prepared and evaluated for particle size, zeta potential, drug loading, encapsulation efficiency, rheological behavior, pH, spreadability, *in vitro* drug release, and stability.

Results: Among all formulations, Batch 4 demonstrated optimal performance with a particle size of 195 nm, zeta potential of -43 mV, drug loading of 10.3%, and encapsulation efficiency of 92%. The formulation exhibited sustained release, achieving 89.2% piroxicam release over 12 hours. It also showed favorable physicochemical characteristics, including suitable pH (6.6), excellent spreadability (7.4 g/cm/sec), and absence of phase separation, indicating stability and skin compatibility.

Discussion: The incorporation of herbal oils enhanced the nanoemulsion stability and drug entrapment, likely contributing to prolonged drug release and improved topical performance. The nanoscale droplet size improved surface area and facilitated better permeation, while the negative zeta potential supported long-term dispersion stability. The synergistic anti-inflammatory properties of Arnica and *Clitoria ternatea* may further strengthen therapeutic outcomes. Overall, the optimized batch demonstrates a promising balance between efficacy, safety, and patient acceptability.

Conclusion: The developed piroxicam nano-emulgel enriched with herbal oils offers a stable, effective, and patient-friendly topical alternative with enhanced drug release and reduced systemic side effects.

Keywords: Piroxicam, nano-emulgel, arnica oil, *Clitoria ternatea*, anti-inflammatory therapy, gastrointestinal toxicity.

Faculties Journal Publications



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FORMULATION AND OPTIMIZATION OF HESPERIDIN IN-SITU NASAL GEL FOR THE MANAGEMENT OF NEUROINFLAMMATION

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⁷ Teerthanker Mahaveer College of Pharmacy, Teerthanker Mahaveer University, Moradabad.

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ABSTRACT

This study aimed to develop and optimize a nose-to-brain drug delivery system for hesperidin to enhance its therapeutic efficacy against neuroinflammation. **Methods:** Hesperidin-loaded poly (lactic-co-glycolic acid) nanoparticles (HSP-NPs) were formulated and subsequently incorporated into a thermoresponsive mucoadhesive in-situ gel (HSP-NPs-gel). The formulation was characterized for its physicochemical properties, including gelation temperature, viscosity, mucoadhesive strength, and in-vitro drug release. Ex-vivo permeation studies were conducted using nasal mucosa. The therapeutic potential was evaluated in a lipopolysaccharide (LPS)-induced rat model of neuroinflammation, assessing oxidative stress markers, pro-inflammatory cytokine levels, acetylcholinesterase (AChE) activity, and behavioral deficits. **Results:** The optimized HSP-NPs in-situ gel demonstrated favorable characteristics, including an optimal gelation temperature suitable for nasal application, appropriate viscosity, high mucoadhesive strength, and a sustained drug release profile. Ex-vivo studies confirmed significantly enhanced permeation of HSP across the nasal mucosa from the formulation. In-vivo studies revealed that intranasal administration of HSP-NPs-gel effectively mitigated LPS-induced behavioral deficits. This neuroprotection was mediated through a multi-modal mechanism involving a significant reduction in oxidative stress, suppression of pro-inflammatory cytokines, and inhibition of AChE activity in the brain. **Conclusion:** The developed hesperidin-loaded nanoparticle in-situ gel represents a promising, non-invasive, and effective nose-to-brain delivery platform for the management of neuroinflammatory disorders. Further studies on biodistribution and long-term toxicity are warranted to support its clinical translation.

REVIEW ARTICLE

Herbal Hydrogels for Ophthalmic Drug Delivery in the Management of Dry Eye

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ARTICLE HISTORY

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Abstract: Dry eye disease (DED) is a common and multifactorial disorder that adversely affects vision and quality of life. Conventional treatments, such as artificial tears and topical medications, are often limited by poor ocular bioavailability and rapid drug clearance. To overcome these barriers, herbal hydrogel systems have gained attention as innovative drug-delivery platforms. These hydrogels, prepared from natural polymers like hyaluronic acid and chitosan, combine excellent biocompatibility, high water retention, and tunable drug release with the therapeutic benefits of herbal extracts. By enhancing corneal permeability and prolonging ocular residence time, they provide both symptomatic relief and anti-inflammatory or antioxidative effects. Recent advances in smart hydrogels, including temperature-, pH-, and ion-responsive systems, further enable controlled drug release and extended contact with the ocular surface. In addition, applications such as hydrogel-laden contact lenses and biosensor-integrated hydrogels demonstrate their potential for both therapy and real-time monitoring. By mimicking the physiological tear-film environment, these systems enhance comfort, improve treatment efficacy, and may reduce dosing frequency. Future progress in polymer engineering, clinical trials, and clearer regulatory pathways will be essential for clinical translation. Overall, herbal hydrogel systems represent a promising strategy to advance DED management and improve long-term patient outcomes.

Keywords: Dry eye disease, herbal hydrogel, topical medications, hyaluronic acid, ocular residence time, tear-film environment.

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REVIEW

Open Access

Advances in genetic and pharmacological therapeutic strategies for fibrodysplasia ossificans progressiva

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Abstract

A very rare, severe genetic condition known as fibrodysplasia ossificans progressiva (FOP) is characterized by progressive heterotopic ossification of soft tissues caused on by mutations in the ACVR1 gene, particularly R206H, which results in abnormal BMP signalling. This condition causes severe mobility limitations and life-threatening complications. The goal of this review is to thoroughly examine current developments in stem cell, pharmacologic, and genetic therapy for FOP and assess their potential for translation in clinical settings. Current understanding highlights that mutant ACVR1 receptors respond abnormally to Activin A, triggering pathological ossification. Innovations such as CRISPR-Cas9 gene editing, antisense oligonucleotides, and RNA interference show promise in correcting or silencing these mutations. Several Pharmacological advances include saracatinib (evaluated in Phase II studies), garetosmab (anti-Activin A antibody with early clinical data), and palovarotene which received FDA approval in August 2023 for reducing HO in FOP. Though post-marketing data highlight ongoing concerns regarding growth-plate toxicity and long-term skeletal safety. However, significant translational challenges persist, including limited long-term safety data, heterogeneous patient responses, and gaps between preclinical success and clinical efficacy. Stem cell therapies using MSCs and iPSCs offer regenerative potential and personalized modeling platforms. Smart drug delivery devices and precision medicine techniques guided by biomarkers improve therapy targeting and monitoring. Although there are still issues with delivery, safety, and long-term effectiveness, a mix of targeted medications, gene-based treatments, and cutting-edge technology is opening the door to precision and combination therapies, which provide patients with FOP fresh hope for better results.

Keywords ACVR1 mutation, Bone morphogenetic protein signaling, CRISPR-Cas9, Fibrodysplasia Ossificans Progressiva, Heterotopic ossification, RNA interference

RESEARCH PAPER

Adaptogenic Herbs in Stress-Induced Neuropsychiatric Disorders: Mechanistic Insights, Therapeutic Potential, and Translational Perspectives

Ms. Tripti Padalia^{1*}, Ms. Neha Gupta², Ms. Priya Pandey³, Mr. Aaditya Pratap Singh⁴, Dr. Ashish Pandey⁵, Ms. Neha Tamta⁶, Dr. Angesh Kumar⁷, Dr. Hemendra Gautam⁸, Dr. Pankaj Mishra⁹

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⁹Principal and Professor, Rohilkhand College of Pharmacy, Bareilly International University, Rohilkhand, Bareilly, Uttar Pradesh, India.

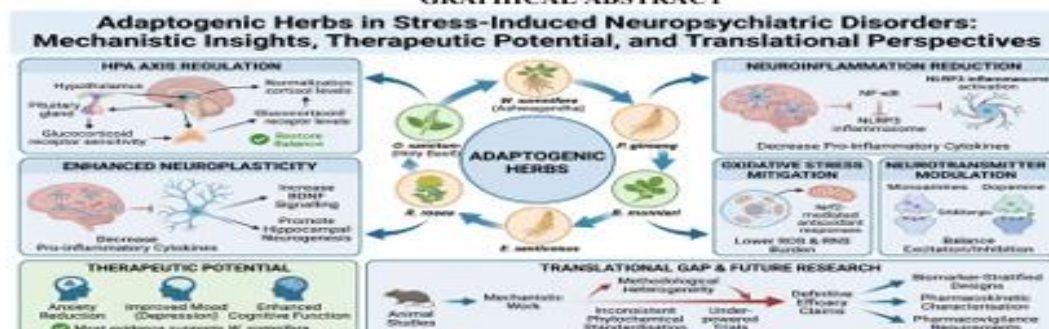
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GRAPHICAL ABSTRACT



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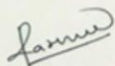
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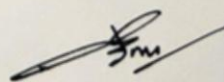
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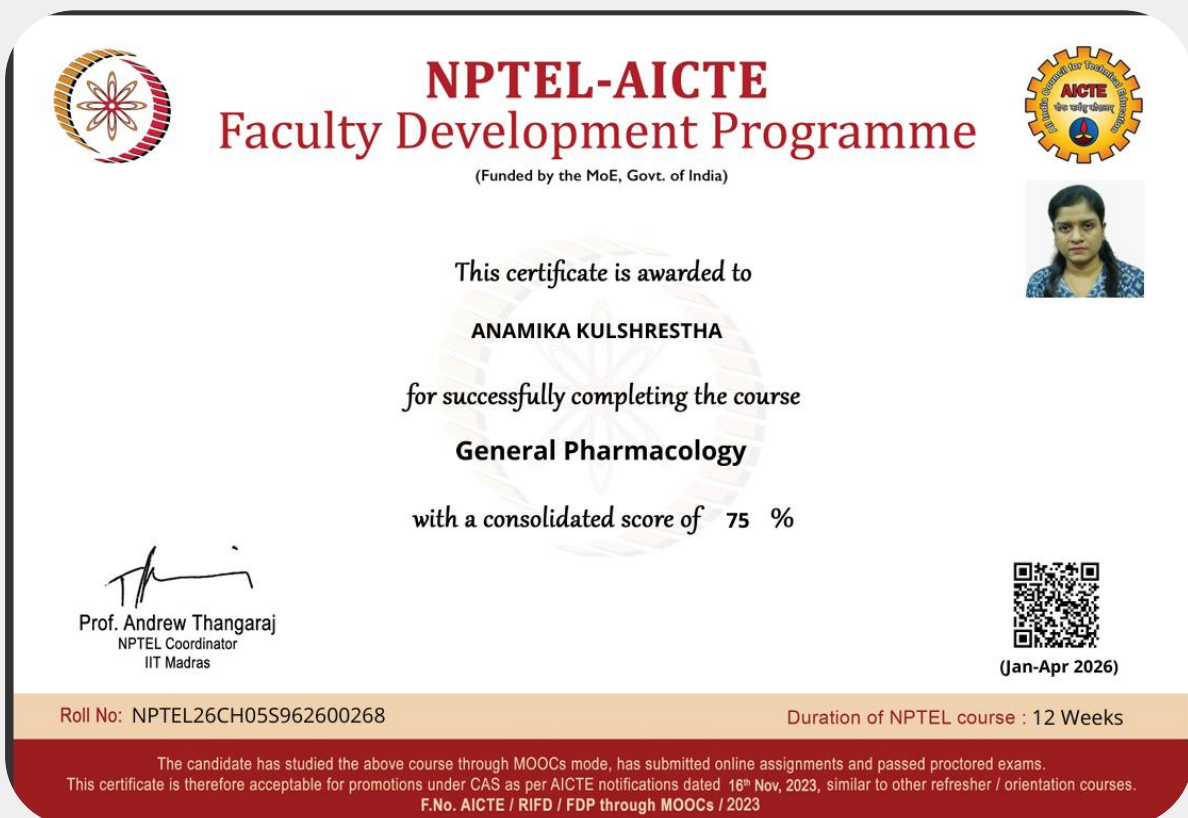


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प्रमाणित किया जाय है कि संलग्न प्रति में वर्णित डिजाइन जो *NON-INVASIVE DEVICE TO SUPPRESS PARKINSON'S TREMORS* से संबंधित है, का पंजीकरण, तारीख 24-02 ने 1.Miss. Shreeya M Chippa 2. Mr. Syed Siraj Alam Hussaini 3.Miss. Jyotsana Surendra Uplanchi 4.Ms. Anamika Kulshrestha 5.Sayali Ashok Chougule 6.Miss. Priyanka shinde 7.Miss. Nandini Maroti Ratne 8.Miss. Mitali Pawar 9.Miss Sakshi Shivanand Hiremath 10.Mr. Swapnil Dalve के नाम से उक्त संख्या और तारीख में कर लिया गया है।

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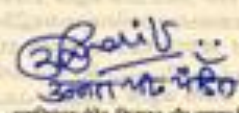
डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रवधानों के अनुसरण में।
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Invention Title	NOVEL BIOACTIVE PHYTO-SYNTHETIC FORMULATIONS AND THEIR PHARMACOLOGICAL APPLICATIONS IN DRUG DELIVERY SYSTEMS	
Publication Number	04/2026	
Publication Date	23/01/2026	
Publication Type	INA	
Application Number	202511122439	
Application Filing Date	05/12/2025	
Priority Number		
Priority Country		
Priority Date		
Field Of Invention	CHEMICAL	
Classification (IPC)	A61K 9/14, A61P 35/00, A61K 9/51, A61K 9/16, A61K 31/192	
Inventor		
Name	Address	Country
Dr. Pawan Singh	Associate Professor, Pharmacy Academy, IFTM University, Moradabad, Uttar Pradesh, India, Pin Code- 244001	India
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Ms. Priya Pandey	Assistant Professor, IIMT College of Pharmacy, Gautam Budha Nagar, Uttar Pradesh, India, Pin Code- 201310	India

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Options in Medicines: Sources in Alternative-Based Therapeutics for Modern Diseases | Mantra Publication | 2026

Chapter 4: Marine-Derived Polysaccharides: Immunomodulation and Therapeutic Insights in Autoimmune Disorders

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Abstract

Autoimmune disorders arise from dysregulated immune responses that lead to chronic inflammation and progressive tissue damage, often requiring long-term immunosuppressive therapy. While conventional treatments such as corticosteroids, disease-modifying antirheumatic drugs, and biologics have improved disease management, their prolonged use is associated with significant adverse effects and incomplete therapeutic efficacy. This has prompted growing interest in alternative immunomodulatory agents with improved safety profiles. Marine-derived polysaccharides, including fucoidan, alginate, carrageenan, chitosan, and laminarin, have emerged as promising bioactive compounds due to their unique structural features and broad immunoregulatory activities. These polysaccharides exhibit the ability to modulate both innate and adaptive immune responses by regulating cytokine production, immune cell activation, and inflammatory signaling pathways involved in autoimmune pathogenesis. Preclinical studies suggest that marine polysaccharides can restore immune balance by suppressing excessive inflammation while preserving essential immune functions. This chapter highlights the immunomodulatory mechanisms of marine-derived polysaccharides and explores their therapeutic potential in autoimmune disorders, emphasizing recent experimental evidence, safety considerations, and future translational prospects.

CHAPTER: 13

GREEN EXTRACTION AND SUSTAINABLE UTILIZATION OF NATURAL PRODUCTS

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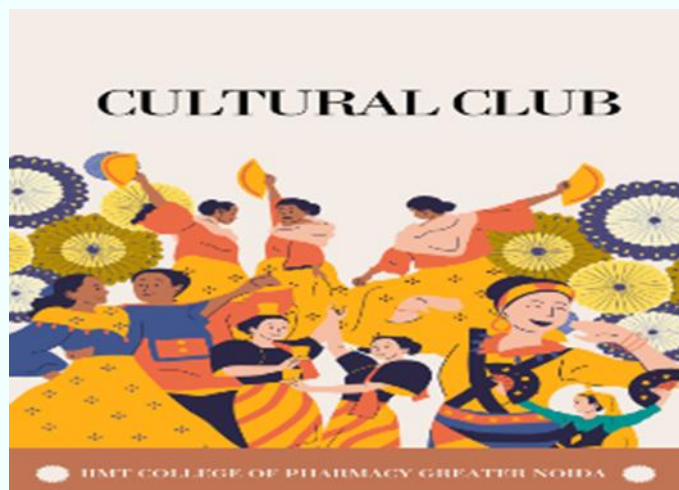
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Abstract

Natural products derived from plants, microorganisms, and marine organisms have long served as sources of pharmaceuticals, nutraceuticals, cosmetics, and functional materials. However, conventional extraction techniques often rely on toxic solvents, high energy input, and inefficient processing methods that generate environmental pollution and significant waste. In response, green extraction has emerged as an environmentally responsible approach that integrates the principles of green chemistry, sustainable engineering, and circular economy frameworks. This chapter provides a comprehensive discussion of green extraction technologies, sustainable solvent systems, industrial applications, waste valorization strategies, and future prospects. Advanced techniques such as ultrasound-assisted extraction, microwave-assisted extraction, supercritical fluid extraction, subcritical water extraction, enzyme-assisted extraction, and pressurized liquid extraction are examined in detail. Furthermore, sustainability assessment tools, life cycle analysis, and integration into biorefinery models are discussed. The chapter highlights current challenges in scaling up green technologies and emphasizes the role of innovation in achieving sustainable natural product utilization.

Keywords: Green extraction, sustainable solvents, natural products, supercritical fluid extraction, ultrasound-assisted extraction, circular economy, biorefinery, sustainable chemistry

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