



VESAJA SPECTRUM

A HALF-YEARLY NEWSLETTER

MATA GUJRI COLLEGE OF PHARMACY



"Accredited by NABET with Grade B"

(A Constituent Unit of Mata Gujri University, Kishanganj, Bihar, India)

ISSUE – 3, July 2026

College at a Glance

A Landmark Achievement in Accreditation Excellence

Mata Gujri College of Pharmacy proudly celebrates a significant achievement as its Bachelor of Pharmacy (B.Pharm.) Programme has been **accredited by the National Accreditation Board for Education and Training (NABET)**, a constituent board of the Quality Council of India (QCI) with **"Grade B"**. In the latest NABET accreditation rankings, our institution has secured an impressive **103rd** rank in India and also honoured to be recognized as the **No. 1** NABET-accredited college in the state of Bihar and **6th** among colleges in East and North-East India. It is a testament to the institution's unwavering commitment to quality pharmacy education and academic excellence. This outstanding recognition reflects the dedication and collective efforts of our visionary management, committed faculty, diligent students, supportive alumni and administrative staff. This milestone inspires us to continue striving for excellence, embrace continuous improvement and strengthen our position as a leading institution in pharmacy education.

Pioneering Doctoral Education: Inaugural Ph.D Programme in Pharmaceutical Sciences

Mata Gujri College of Pharmacy (MGCP), a constituent unit of Mata Gujri University, Kishanganj has reached a significant academic milestone with the introduction of its Ph.D programme in Pharmaceutical Sciences. Following the successful commencement of its M.Pharm programmes in Pharmaceutics, Pharmaceutical Analysis and Pharmacology, the college conducted the Entrance Test and interviews for its first doctoral batch on 12th July 2026. Supported by advanced laboratories, an approved Animal House and a team of experienced faculty, MGCP provides a robust research environment that enables scholars to pursue meaningful research. The institution extends its congratulations to all successful candidates and looks forward to welcoming this inaugural Ph.D batch, whose work will contribute to the advancement of pharmaceutical research and healthcare innovation.



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Contact No.: 9262699904 / Website: www.mgcopharmacy.com

Achievements of MGCOP

1. Students' Achievements in Competitive Examinations (2026)

Sl. No.	Achiever's Name	Examination	Year	All India Rank
1	Subham Sarkar	GPAT	2026	2204
2	Saurabh Kumar Das	GPAT	2026	2831
3	Manish Rajdev	GPAT	2026	9358
		NIPER JEE	2026	2217

#GPAT – Graduate Pharmacy Aptitude Test, NIPER – National Institute of Pharmaceutical Education and Research

2. Students' Placement

In this academic session, many students of both B. Pharm and D. Pharm are successfully placed in reputed companies:

A. Govt. of Bihar

■ **17 candidates** from different batches of the Diploma in Pharmacy (D.Pharm) program were appointed as Pharmacists under the Government of Bihar. Their selection reflects the successful participation of D.Pharm graduates from various academic sessions in the state recruitment process, highlighting equal opportunities for eligible candidates irrespective of their batch year. This achievement also serves as an inspiration for current and aspiring D.Pharm students preparing for government pharmacist positions in Bihar.

B. Pharmaceutical Industry

Macleods Pharmaceuticals Ltd.				
Sl. No.	Batch	No. of Selected Candidates	Department	Total No. of Selected Candidates
1	B. Pharm (2022-2026 Batch)	3	Quality Control	18
2	B. Pharm (2022-2026 Batch)	6	Production	
3	B. Pharm (2021-2025 Batch)	1		
4	D. Pharm (2024-2026 Batch)	3		
5	D. Pharm (2023-2025 Batch)	5		

C. Community Pharmacy

MedPlus			
Sl. No.	Batch	No. of Selected Candidates	Total No. of Selected Candidates
1	B. Pharm (2022-2026 Batch)	22	45
2	D. Pharm (2024-2026 Batch)	23	

3. Publication by the Faculty Members

1. **Mrityunjay Singh**, Impact of resveratrol on aging and age-related disorders: A short review. *NRD: New Research Directions*. 2026; 11(1):a298.
2. **Sushanta Kumar Das, Saptarshi Dutta, Sabitri Pradhan**. The logarithmic phase as a therapeutic direction: evaluating pharmacological strategies against cancer progression. *Clinical and Translational Oncology*. 2026.
3. **Pranita Sunar, Sabitri Pradhan, Saumendu Deb Roy**. Flavonoids as bioactive compounds: A systematic review. *Indian Research Journal of Pharmacy and Science*. 2025; 12(4): 3441–3450.
4. Rahul Mukherjee, Vinay Kumar, Puja Pramanik, **Pranita Sunar**, Garima Kumari. Formulation and physicochemical evaluation of anti-acne face serum using *Moringa oleifera* leaves extract. *Journal of Pharmacognosy and Phytochemistry*. 2025; 14(6): 460–468.
5. **Sabitri Pradhan, Pranita Sunar**, Recent biomarkers in Alzheimer's disease: A systematic review. *International Journal of Pharmaceutical Sciences*. 2025; 3(1): 1735–1746.
6. **Subhasish Pramanik**, 4D printing innovations and the embracing of additive manufacturing transformations. *RSC Pharmaceutics*. 2026; 3: 22–42.
7. **Subhendu Dey, Didhiti De, Subhasish Saha**, Extraction and chromatographic profiling of ascorbic acid from *Emblica officinalis* root. *Journal of Pharmaceutical Research International*. 2025; 37(12): 92–100.
8. **Subhendu Dey, Didhiti De, Subhasish Saha**, In vivo modelling of human breast cancer using cell-line and patient-derived xenografts: Advances and future directions. *Current Breast Cancer Reports*. 2026; 18: 9.
9. **Subhendu Dey, Chayanika Goswami, Didhiti De, Saumendu Deb Roy, Dibyendu Shil**, Emerging breakthroughs in fusion protein technologies for the management of cancer. *Current Cancer Therapy Reviews*. 2026
10. **Sukanta Debnath**, Phytotherapeutic potential of *Azadirachta indica*: Modulating SARS-CoV-2 viral entry and the endothelial pro-inflammatory cascade. *Journal of Advances in Medical and Pharmaceutical Sciences*. 2026; 26(4): 7–18.
11. **Amrit Paul, Sukanta Debnath, Jagot Gautam**, Integrating pharmacogenomics with green-synthesized nanoparticle platforms for personalized cancer therapy. *International Journal of Drug Delivery Technology*. 2025; 16(23s): 116–123.
12. **Puja Saha**, Phytotherapeutics neuroregulation through Nasyam and Shirodhara: A short review. *Journal of Natural Remedies*. 2026; 26(2): 375–388.

13. **Puja Saha**, Salicin in modern drug discovery : A comprehensive review of pharmacokinetics, ethnopharmacology, and clinical applications. *Journal of Applied Pharmaceutical Research*. 2026; 14(1): 16-30
14. **Puja Saha**, Natural marine species bioactive compounds and their ethnopharmacological approach from ecological biodiversity: Sustainable therapeutic properties. *Pharmacognosy Research*. 2025; 17(3): 697–706.
15. **Puja Saha**, An overview on microneedle technology: Superior pharmaceutical transdermal delivery forms. *International Journal of Pharmaceutical Investigation*. 2026; 16(1): 77–88.
16. **Puja Saha**, Phytochemical analysis on various leaf extracts of *Aegle marmelos*. *Journal of Applied Bioanalysis*. 2025; 11: 681–684.
17. **Bishal Sarkar, Saumendu Deb Roy, Dibyendu Shil**. Nanogels as next-generation drug delivery systems: Design, advances, and biomedical applications. *Journal of Biological Methods*. 2025; 13(1).
18. Dipankar Roy, Md Osama, Nehal Reza, **Amit Samanta, Bishal Sarkar, Saumendu Deb Roy**. Synthesis and characterization of a phenyl imidazole derivative using a green chemistry method. *Indian Research Journal of Pharmacy and Science*. 2025; 12(4): 3413.
19. **Bishal Sarkar**. Aspects of 3D printing in pharmaceutical technology: Current scenario and its future perspective. *International Journal of Pharmaceutical Sciences and Research*. 2026; 17(1): 99–112.
20. Navneet Raj, Nagendra Kumar Nishad, Samlap Sutradhar, Navneet Jaiswal, **Bishal Sarkar**. Advances in pharmaceutical nanocrystals: Strategies for preparation and drug delivery applications. *Indian Research Journal of Pharmacy and Science*. 2026; 13(1): 3485.
21. **Puja Saha**, A Comprehensive Review on Network-Pharmacognosy-Based Decoding of Phytochemical Synergy in Complex Diseases. *Revista Brasileira de Farmacognosia*. 2026; 36:55.
22. **Puja Saha**, LDH as a target in antimalarials. *Pharma Times* . 2026; 58(5):9-18.
23. **Puja Saha**, Physicochemical characterization and pharmacological evaluation of *Grewia multiflora* leaf extracts: In vitro and in vivo assessment of antimicrobial and antidiabetic potentials. 2026; 12(1) : 93-103.
24. **Deboleena Dey**, N.C. Nagalakshmi. Quantitative HPLC profiling of Withanosides and adaptogenic potential of a polyherbal capsule using Zebrafish model. *Pharmacological Research-Natural Products*. 2026; 11 (100745) : 1-17.

4. Books and Book Chapters Published by Faculty

Sl. No.	Author's	Title	Book/Book Chapter	Name of Publisher	Year
1	Puja Saha	A Textbook of Basic Concept of Pharmaceutics	Book	Newredmars Education Pvt Ltd	2025
2	Puja Saha	Pharmacognosy & Phytochemistry I	Book	Evincepub Publishing	2025
3	Bishal Sarkar	Targeted Therapy and Monoclonal Antibodies	Book Chapter	Nexus Knowledge Publication	2025
4	Sibaji Sarkar, Saumendu Deb Roy, Dibyendu Shil, Jashabir Chakraborty, Sushanta Kumar Das	Phytochemistry and Pharmacology of Catharanthus: Research and Development	Book Chapter	Bentham Science	2026
5	Niladri Shekhar Dey, Sibaji Sarkar, Saumendu Deb Roy, Jashabir Chakraborty	Recycling Challenges in Pharmaceutical Nanotechnology	Book Chapter	Apple Academic Press	2026
6	Dibyendu Shil, Sibaji Sarkar, Niladri Shekhar Dey, Sanglap Mallick, Subhasish Pramanik, Subhendu Dey	Phytochemistry and Medicinal Role of <i>Boerhaaviadiffusa</i> : A Comprehensive Overview.	Book Chapter	Bentham Science	2026

5. FDP attended by the faculty

Sl No	Name of Faculty	FDP Topic	Organized by	Date
1.	Mr. Diptendu Bhowmik	Quality of Teaching, Learning & Research	ISF College of Pharmacy, Moga, Punjab	03 rd -17 th Jan 2026
2.	Ms. Sabitri Pradhan	Quality of Teaching, Learning & Research	ISF College of Pharmacy, Moga, Punjab	03 rd -17 th Jan 2026
3.	Mr. Sukanta Debnath	Quality of Teaching, Learning & Research	ISF College of Pharmacy, Moga, Punjab	03 rd -17 th Jan 2026
4.	Ms. Sabitri Pradhan	Generative & Agentic AI – Tools and Demo's	Sardar Vallabhbhai National Institute of Technology	16 th -21 st Feb 2026
5.	Mr. Tanmay Mohanta	Innovative Strategies Against Antimicrobial Resistance: Drug Design, Targeted Delivery, and AI Integration Possibilities	Brainware University, Kolkata	24 th Apr- 1 st May 2026
6.	Mr. Sukanta Debnath	Emerging Technologies in Pharmaceutical Science	UIPS, Guru Nanak University, Hyderabad	28 th Apr- 2 nd May 2026
7.	Mr. Devenjan Chakraverty	Emerging Technologies in Pharmaceutical Science	UIPS, Guru Nanak University, Hyderabad	28 th Apr – 2 nd May 2026
8.	Mrs. Sarbani Roy	Good Regulatory Practice in Regulation of Medical Products	CDSCO, WHO & BRIC.	26 th Jun 2026
9.	Mrs. Sarbani Roy	Quality Management System for National Regulatory Authorities	CDSCO, WHO & BRIC.	27 th Jun 2026
10.	Mrs. Sarbani Roy	Good Review Practices: Guidelines for National and Regional Regulatory Authorities	CDSCO, WHO & BRIC.	27 th Jun 2026
11.	Mrs. Sarbani Roy	Quality Management System for National Inspectorate	CDSCO, WHO & BRIC.	27 th Jun 2026

**List of Banned Drugs as per Latest Notification
Dated 11th June, 2026**

Sl. No.	SO. No.	PRODUCT
1	S.O.3068(E)	FDC of Acetyl Salicylic Acid + Ethoheptazine
2	S.O.3069(E)	FDC of Aloe vera + Jojoba oil +Wheat germ oil + Tea tree oil
3	S.O.3070(E)	FDC of Amoxicillin +Serratiopeptidase + Lactobacillus Sporogenes
4	S.O.3071(E)	FDC of Dicyclomine +Paracetamol + Clidinium Bromide + Chlordiazepoxide
5	S.O.3072(E)	FDC of Amoxicillin +Serratiopeptidase
6	S.O.3073(E)	FDC of Aloe Extract +Allantoin + Alphotocopherol Acetate + D-Penthenol + Vitamin A
7	S.O.3074(E)	FDC of Aloe Extract +Vitamin E + Dimethicone + Glycerine
8	S.O.3075(E)	FDC of Aloe Vera + Jojoba Oil +Vitamin E
9	S.O.3076(E)	FDC of Aloe vera + Orange oil
10	S.O.3077(E)	FDC of Aloe vera + Vitamin E +Herbal
11	S.O.3078(E)	FDC of Dicyclomine +Paracetamol + Clidinium Bromide
12	S.O.3079(E)	FDC of Paracetamol +Lignocaine
13	S.O.3080(E)	FDC of Gliclazide +Chromium Picolinate
14	S.O.3081(E)	FDC of Amoxicillin +Cloxacillin + Lactic acid bacillus +Serratiopeptidase
15	S.O.3082(E)	FDC of Cefadroxyl +Probenecid
16	S.O.3083(E)	FDC of Cefuroxime +Serratiopeptidase

*FDC: Fixed Dose Combination

Sports Meet – “AAKRID”

MGCOP successfully organized its annual Sports Meet, “AAKRID,” from 5th to 8th January 2026. The event brought together students for four exciting days of competition, enthusiasm, and teamwork. Participants demonstrated their sporting talent and determination in a variety of events, including Volleyball, Badminton, Shot Put, Long Jump, Tug of War, Carrom and Chess. The meet promoted unity, healthy competition, and sportsmanship among students, creating a vibrant and energetic atmosphere across the campus. Congratulations to all the participants for their dedication, enthusiasm and remarkable performances, which contributed to the grand success of the event.



Freshers Welcome – “ECLIPSE 2K25”

Mata Gujri College of Pharmacy warmly welcomed its new batch of students through ECLIPSE 2K25, held on 9th January 2026. Organized in the college auditorium, the event commenced with a traditional lamp-lighting ceremony, symbolizing the beginning of a new academic journey. The venue was beautifully decorated, creating a vibrant and welcoming atmosphere. Faculty members and senior students extended their heartfelt greetings to the freshers, making them feel valued and encouraged as they embarked on this new chapter of their educational experience. The event was filled with enthusiasm, warmth and a spirit of togetherness.



Annual Cultural Fest – “SPANDAN 2K26”

Mata Gujri College of Pharmacy organized its much-awaited Annual Cultural Fest, “Spandan 2026,” on 10th January 2026 at the University Auditorium Hall. The event brought together students, faculty members, and distinguished guests for a memorable celebration of talent, creativity and cultural spirit. The program commenced with a prize distribution ceremony recognizing outstanding academic achievers, followed by a series of captivating performances, including singing, dancing, drama, poetry recitation, stand-up comedy and instrumental music. The festival provided a vibrant platform for students to showcase their artistic abilities and celebrated the rich cultural diversity of the college community, leaving the audience inspired and entertained.



Saraswati Puja Celebration

On 23rd January, Mata Gujri College of Pharmacy celebrated Saraswati Puja with great devotion and enthusiasm. The grand occasion witnessed the participation of nearly 1,000 devotees, creating an atmosphere of spirituality and reverence across the campus. The sacred worship of Goddess Saraswati was followed by the distribution of Prasad, where devotees were served a traditional meal comprising khichdi, sabji, chutney and papad. The celebrations continued into the evening with melodious bhajan performances and the auspicious Deep Prajwalan ceremony, which illuminated the surroundings with a divine glow. The event fostered a strong sense of unity, faith and cultural harmony among all those present.



Successful PCI Inspection

On 30th January 2026, Mata Gujri College of Pharmacy successfully completed a Pharmacy Council of India (PCI) inspection conducted by a team of two inspectors. The college's excellent preparation, well-maintained infrastructure and comprehensive presentation were highly appreciated by the inspection team. The successful inspection reaffirmed the institution's commitment to quality pharmaceutical education and strengthened its recognition for the M.Pharm, B.Pharm and D.Pharm programs.



Entrepreneurship Fair – “Youthpreneurs 2026”

On 31st January 2026, Mata Gujri College of Pharmacy organized “Youthpreneurs 2026,” an Entrepreneurship Fair at the college campus. The event featured a variety of stalls showcasing art and crafts, food and beverages and other creative products, providing students with an opportunity to demonstrate their entrepreneurial talents, creativity and business skills. The fair promoted innovation, teamwork and practical learning in an engaging and vibrant atmosphere.



National Science Day Celebration – 2026

Mata Gujri University celebrated National Science Day on 28th February 2026 under the theme “Women in Science: Catalysing Viksit Bharat.” Organized by the Faculty of Pharmacy and the Faculty of Allied Health & Paramedical Sciences, the event featured inspiring keynote lectures by Dr. Asima Bhattacharyya, HOD, Department of Anatomy, MGMMC & LSK Hospital and Mr. Joni Dutta, Formulation & Development Officer, Zuentus. The program promoted scientific awareness, innovation and the vital role of women in advancing science and nation-building.



Placement Drive by Macleods – 2026

Mata Gujri University successfully conducted a placement drive for Macleods Pharmaceuticals on 1st March 2026 at the University Building. The drive witnessed enthusiastic participation from 35 students of Mata Gujri College of Pharmacy. Following a comprehensive selection process, 19 students were successfully selected, marking an important achievement in their professional journey and reinforcing the University's commitment to providing excellent career opportunities for its students.



Pharma Anveshan 2026 – “National Pharmacy Education Day”

On 6th March 2026, Mata Gujri College of Pharmacy celebrated National Pharmacy Education Day through Pharma Anveshan 2026, commemorating the birth anniversary of Prof. Mahadeva Lal Schroff, the pioneer of pharmacy education in India. The event was held in the Seminar Hall (4th Floor) and featured insightful keynote lectures by Dr. Sibaji Sarkar, HOD, Department of Pharmaceutical Chemistry and Mr. Jagjot Gautam, Assistant Professor, Department of Pharmaceutical Chemistry. The program highlighted the importance of pharmaceutical education, research and innovation, inspiring students to excel in the field of pharmacy.



International Women's Day Celebration – 2026

On 8th March 2026, Mata Gujri College of Pharmacy celebrated International Women's Day by organizing a menstrual hygiene awareness campaign led by female students and faculty members. The event included interactive workshops, expert talks and the distribution of over 500 sanitary pads to students and nearby schoolgirls. The initiative promoted menstrual health awareness, women's empowerment and personal well-being, receiving an enthusiastic response from participants.



QCI Inspection – 2026

On 19th and 20th March 2026, Mata Gujri College of Pharmacy welcomed the Quality Council of India (QCI) inspection team for a comprehensive assessment of its academic and institutional standards. The inspection covered various aspects, including infrastructure, laboratory facilities, academic processes, documentation and quality management practices. The team appreciated the college's organized approach, well-equipped facilities and commitment to delivering quality pharmacy education. The successful completion of the inspection reaffirmed the institution's dedication to excellence, continuous improvement and maintaining high educational standards.



12th International Yoga Day 2026

The 12th International Yoga Day was celebrated with great enthusiasm at Mata Gujri College of Pharmacy on 21st June 2026. The theme for this year's celebration was "Yoga for Healthy Ageing." Students, faculty members and staff actively participated in a variety of yoga practices, including Pranayama (breath control), Asanas (yoga postures), Anulom Vilom (alternate nostril breathing), Bhramari (humming bee breathing) and Surya Namaskar (sun salutation). The session highlighted the importance of incorporating yoga into daily life to promote physical fitness, mental well-being and emotional balance. The event encouraged participants to adopt a healthy lifestyle while emphasizing the vital role of yoga in reducing stress, improving concentration, and fostering overall wellness. It reflected the global message of holistic health, harmony and healthy ageing through the regular practice of yoga.



Farewell "HAYA SHALOM" – July 2026

Mata Gujri College of Pharmacy organized a grand farewell ceremony, "HAYA SHALOM," on 10th July 2026 to bid a heartfelt farewell to the outgoing batch of students. The event brought together students, faculty, and staff in a celebration filled with cherished memories, gratitude and best wishes. The program began with a warm welcome address by the faculty, acknowledging the achievements and contributions of the graduating students. The celebration featured vibrant cultural performances, including dance, music and skits presented by the junior students, creating a joyful and memorable atmosphere. The event concluded with heartfelt messages, the presentation of mementos and wishes for the graduates' bright and successful future.

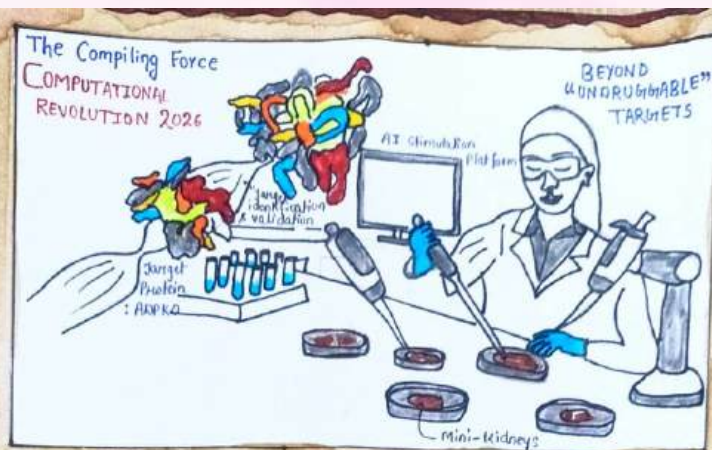


Placement Drive by MedPlus – July 2026

Mata Gujri University successfully organized a placement drive for MedPlus on 11th July 2026 at the University Building. A total of 55 students from Mata Gujri College of Pharmacy participated enthusiastically in the recruitment process. Following a comprehensive selection procedure, 45 students were selected. The placement drive marked another significant milestone in enhancing career opportunities for pharmacy students and reflected the University's continued commitment to supporting student employability and professional growth.



Reader's Corner



Written By: **ANUSHKA**

Course: **D-PHARM 2nd YEAR**

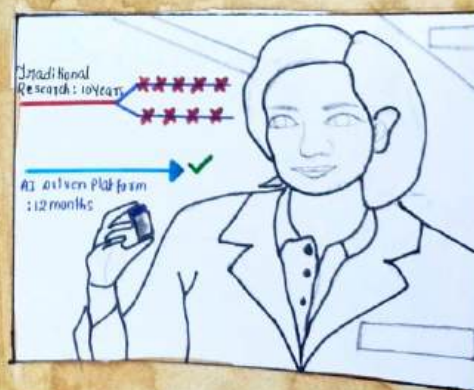
The COMPUTATIONAL REVOLUTION: BEYOND "UNDRUGGABLE TARGETS"

By 2026, Artificial Intelligence (AI) has dismantled the high-risk, high-cost barriers of traditional drug development. Leading entities like Novartis and Isomorphic Labs now utilize generative AI and large-scale stimulations to navigate biological complexities that once resulted in frequent clinical failures.

The collapse of a decade-long research cycle into a 12-month sprint marks the end of clinical guesswork. By replacing trial and error with predictive stimulation, the industry is effectively turning drug discovery into a programmable science. As the "undruggable" label fades into history, we enter an era where time is no longer the primary barrier to healing—it is simply a variable we've learned to optimize.

• BREAKTHROUGH

A Primary breakthrough involves "undruggable" protein targets. In the study of Autosomal Dominant Polycystic Kidney Disease (ADPKD), AI-driven platforms recently bypassed a decade of traditional research. By stimulating gene activation across thousands of digital cell models and mining single-cell experimental data, researchers identified viable gene candidates and validated them using "mini-kidney" organoids in under twelve months. This compression of time—from ten years to one—defines the new standard for target identification.



होसलियों की उड़ान

मत रक्कना तू राही में,
चाहे कितनी रात अँधेरी हो,
मेहनत की लौटी ली चिंता से,
एक दिन जीत सुनहरी हो।

सपनी को आँखों में रखकर
आगे कदम बढ़ाना है,
अपने दम की ताकत से,
नया इतिहास बनाना है।

सुरज बनकर चमक उठी,
अंधियारी को मिटाना है,
धुवा हो तुम भारत के,
देश का मान बढ़ाना है।

हर मुश्किल असान बनेगी,
आगे इशारे सच्चे हो,
मंजिल खुद पास आ जाएगी
जब सपने दिल से अचढ़े हो।

गिरना भी एक सीख यहाँ,
संदर्भ ही पहचान बने,
जो तूफानी से लड़ जाए,
वही इंसान महान बने।

दुनिया नाने दे चाहे,
आगे हिम्मत मान हार कभी,
मेहनत करने वाले की,
रुकती नहीं उड़ान कभी।

नफरत की दीवार गिराकर
लघार की दीप जलाएँ हम,
अपने अचढ़े कर्मों से
नई सुबह ले आएँ हम,

चले आज यह प्रण करें,
फली किसी से डेंगी नहीं,
सच और मेहनत के बल पर,
जीवन में जीदें हरेंगी नहीं।

Bittu Kumar
B.pharm 6th Sem,
3rd Year
Roll-no - 029.

Artificial Intelligence :- The Pharmacist's New Helper

By Mehak Nay: D. Pharm, 2nd Year

Artificial Intelligence is changing medicine today. It's not just in movies anymore. Pharmacists now use AI every day to help take better care of patients.

HOW AI HELPS

The biggest job of AI in a pharmacy is keeping people safe. Before pharmacists had to check all patient records by hand. Now, AI can look through a person's full medical history in just seconds. It helps spot bad drug mixes or allergies that someone might miss.

AI is also used in hospitals to handle medicines. Special robots, powered by AI, can count, pack, and label pills. These robots do not get tired or distracted, so they work with near-perfect accuracy. That means patients are much more likely to get exactly the right medicine, with the right label, every single time.

When robots take care of these repeated tasks, pharmacists get something very valuable: more time. Instead of spending hours counting pills, they can talk to patients, answer questions, and give personal health advice. This makes the human side of pharmacy even stronger.

Challenges We Need to Face:

Of course, new technology brings new worries. Many people ask two big questions. First, will robots take jobs from human pharmacists?

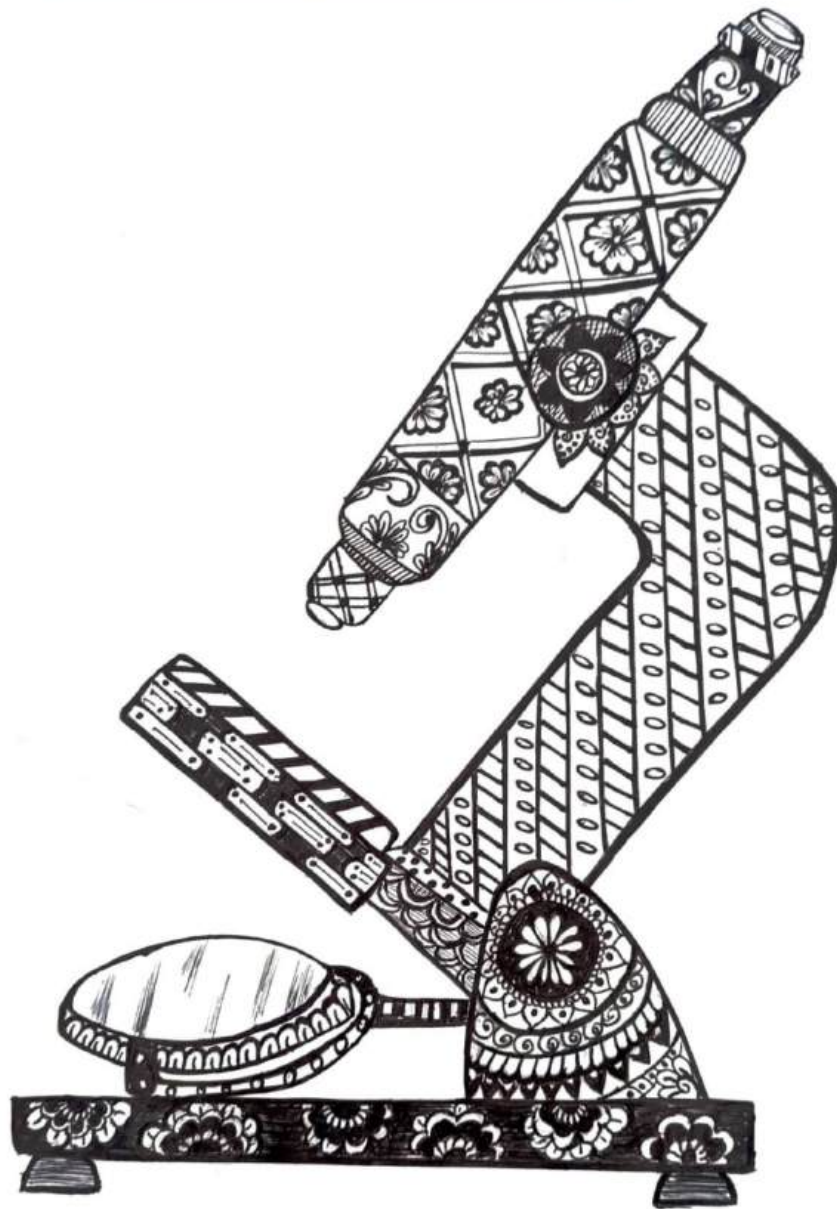
Second, is our private health information safe with AI system?

The answer is about balance. Pharmacy colleges now teach "digital literacy."

This means students learn how to use AI tools the right way. They learn that AI should handle the data and the counting, while humans handle the caring. A robot can follow rules perfectly, but it cannot listen to a worried patient, show empathy, or make a judgment call in a tough situation. Those human skills are still the heart of pharmacy.

The Main Points/Conclusion.

AI is a helpful tool, not a replacement for people. When pharmacists use AI, they can work faster and give better care. The future of pharmacy will use more technology, and that can help everyone live a healthier life.



Compound Microscope

Done by
Anyali Paswan
MGCP/BP/23/016

CHILDHOOD

Childhood days, so full of fun,
playing outside in the sun.

Running, laughing, feeling free,
climbing up the tallest tree.

Tiny hands & little feet,
Everyday a special treat.

The world was big, so much to see,
everywhere a mystery.

Games & stories friends to share,
so much love in everywhere.

The happy times so bright & true,
childhood dreams, come into view.

Hold these memories in my heart,
They are a precious, special part.

For childhood days, full of joy,
are meant for every girl & boy.

Kayenal Tahan
MGCP / BP / 23 / 01

Profession: From *Alchemist* to *Pharmacist*.



The evolution of the pharmacist is a journey from the mystical to molecular. It is a story of how the ancient 'alchemist' driven by a mix of philosophy and experimentation, paved the way for the modern clinical experts now called as the pharmacist the world recognize today.

The word "Alchemist" carried a lot of its profile, depending on whether looking at it through a historical, literary, or scientific lens. The Historical lens defines him Protoscientist which means a practitioner of protoscience, a researcher working on areas that are not yet fully scientific but are precursors to formal scientific disciplines, often involving early, empirical laboratory experimentation based on philosophy and mysticism. The Literary lens recognized famous novel 'The Alchemist' by Paulo Coelho's, here the Alchemist is visualized as Alchemy a metaphor for personal growth and finding one's 'Personal Legend'. It suggests that the process of healing is actually about the transformation of the self pursuit to one's destiny. The scientific lens describes an "alchemist" as someone who transforms something mediocre (not very high quality) into something extraordinary in Business, Art or in Science.

Ancient State: The earliest chapters of human civilization recognize the era of the 'Alchemist' and designate their roles as physician, priest, and chemist. They viewed the body as a chemical system and believed that by purifying these substances, they could restore balance to the human spirit. In these era alchemist were masters of botany, mineralogy, and mysticism dealing in distillation, sublimation, and extraction. They began to document formulas and healing methodology for their extracts, sublimates and distillates from herbs and minerals.

Developing State: The stage was the transformation of Alchemy to Apothecary: by the scientific revolution marked with from magic to material science. In 1240, German emperor Frederick II was to verdict the separation of the professions of physician and pharmacist, ensuring that those who prescribed medicine were not the same people making a profit from selling it. This era saw the birth of the *Pharmacopoeia* an official books containing lists of

medicinal drugs and their preparation methods. In this stage the dark, smoky lab of the medieval alchemist evolved into the organized dispensing shop.

Developed Scenario as Pharmacist: Today, the profession recognises Pharmacist who has moved out of the mere dispensing into the heart of the healthcare team. While the modern pharmacist no longer identifies as an alchemist, still they carry forward the same fundamental pursuit of the mastery of matter to improve life. Modern era of Pharmacist renders him role as Medication Therapy Manager (MTM) and clinical consultant. Pharmacist now efficiently use AI for drug-interaction screening and robotic dispensing in chronic specializations such as Oncology, Nuclear Pharmacy and Genomic medicine. Pharmacists have entered the age of Pharmacogenomics, where drugs are tailored to an individual's genetic makeup.

In conclusion the transformation is profound, where the 'alchemist' of old looked at a bubbling flask and saw the secrets of the universe while the modern pharmacist looks at a digital molecular model and sees a pathway to saving a life. Though the robes have been traded for white coats, the essence remains: the expert transformation of substances into healing.

Written by

Dr. Anil Parasnath Sao

**Associate Professor, Department of Pharmaceutical Chemistry,
Mata Gujri College of Pharmacy, Kishanganj, Bihar.**

আজকের বাস্তবতা

আজকের সকালটা একটু আলাদা—
সূর্যের আলোও যেন ক্লান্ত,
মোবাইলের পর্দায় আটকে আছে
আমাদের সব স্বপ্ন আর শান্ত।

বন্ধুত্ব এখন অনলাইন স্ট্যাটাস,
হাসি ইমোজির আড়ালে লুকানো,
ভিড়ের মাঝে থেকেও আমরা
নিজেকেই খুঁজি, একা হয়ে যাওয়া।

জ্ঞান আজ গুগলের সার্চ বক্সে,
চিন্তা হারায় তাড়াহুড়োর ভিড়ে,
সময় নেই থেমে ভাবার—
কোথায় যাচ্ছি, কোন নীড়ে?

প্রতিযোগিতার এই অন্ধ দৌড়ে
মানুষ যেন সংখ্যার মতো,
ডিগ্রির ভারে নুয়ে পড়ে মন,
হারিয়ে ফেলে নিজের যত।

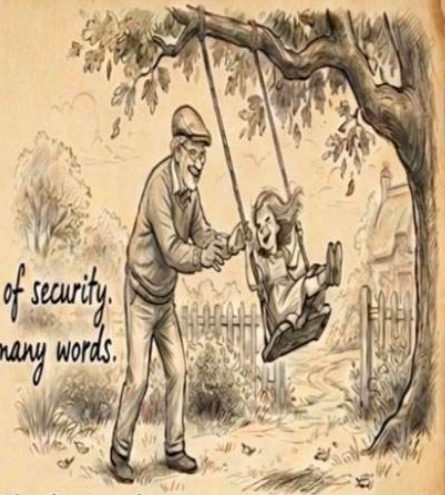
তবুও কোথাও এক টুকরো আশা—
ক্যাম্পাসের সবুজ ঘাসে,
বন্ধুর ডাকে, চায়ের কাপে,
জীবন এখনও হাসে।

আজকের বাস্তবতা কঠিন বটে,
তবু স্বপ্ন দেখার অধিকার আছে—
এই তরুণ হৃদয়েই লুকিয়ে আছে
আগামীর সবচেয়ে বড় আকাশ।

— বিশাল সরকার
সহকারী অধ্যাপক

THE QUIET LIGHT

He was her anchor in an ever-changing world.
A man full of stories who provided her with a deep sense of security.
Their connection was quiet, language that didn't require many words.
For a long time, they existed in a peaceful bubble.
Insulated from the sadness of the outside world.
However, time acted as a thief and took him away while she was far away.
Missing the chance to hold his hand or say a final goodbye
left her in a silent, lonely grief.
The distance between them felt like an impassable wall.
Leaving her with nothing but an empty sky and a heavy heart.
In her sorrow, she realized her love wouldn't vanish—it would simply evolve.
He remains a guiding light in her memory.
She finds comfort in the belief that he is still part of her world.
Present in the rustle of the trees and the sound of the rain.
That enduring bond remains with her like a constant tide.



By- Ms Sabitri Pradhan (Assistant Professor)

The Silent Revolution: The Emotional Landscape of New Fatherhood



Rida Eshal Reja

The transition into fatherhood is a profound, internal revolution. While a mother's journey is visible and celebrated, a man undergoes a parallel emotional rebirth the exact moment I hold my daughter. This phase is a complex, beautiful mix of overwhelming love, sudden vulnerability and a fierce, instinctual urge to protect her.

For a Bengali man, this emotional awakening is deeply tied to the literary soil of Bengal. When I hold her, it naturally aligns with the rhythm of Bengali poetry.

"Janmakatha" perfectly captures a father's awe. When the child asks, *"Where did I come from?"*, the father replies, *"You were hidden in my heart as a desire."* For a new father, looking at my daughter feels exactly like witnessing a long-cherished dream suddenly taking physical form. In Bengali culture, fathers are often seen as emotionally reserved. A new father stays awake at night, translating his anxiety into quiet prayers for his child's future.

For a man, reality sets in during the first skin-to-skin contact. Holding a fragile, microscopic life in broad hands triggers an instant flood of devotion. It is a terrifying yet beautiful realization that an entire human being now depends on your strength.

Fatherhood instantly reshapes a man's identity. Personal ambitions naturally step back to accommodate a baby's erratic sleep schedule. The exhaustion of sleepless nights is instantly erased by a single, involuntary daughter smile. It is an evolutionary shift from living for oneself to living entirely for another.

Personally Experienced by

Md. Masud Reja

**Assistant Professor, Department of Pharmaceutical Chemistry,
Mata Gujri College of Pharmacy, Kishanganj, Bihar.**

AI in Drug Discovery

The pharmaceutical sector has reached a clear turning point as of May 2026. An AI-driven paradigm change is upending the "Eroom's Law" era, in which the cost of drug discovery increases exponentially over time. Artificial intelligence has evolved from a speculative tool to the industry's "operating system," with R&D expenses for conventional companies hovering around \$2.8 billion.

The integration of generative modeling and deep learning has compressed the timeline from target identification to Investigational New Drug (IND) filing from an average of five years to just 12-18 months. Financial projections indicate that AI adoption is currently delivering a 15%-22% reduction in overall R&D costs, with high-maturity platforms reaching up to 40 % in savings. This efficiency is evidenced by major 2025-2026 collaborations, including Eli Lilly's 2.75 billion partnership with In silico Medicine.

Scientific accuracy has reached new heights with **AlphaFold 3**. By utilizing diffusion-based architectures, it can now predict interactions across the "multimodal interactome"-proteins, DNA, RNA, and ligands-with 50% greater accuracy than traditional physics-based methods.

Crucially, AI-designed molecules are showing a "Phase I Success" rate of 80%-90%, nearly double the historical average of 52%. A landmark success was recorded in June 2025 with **Rentosertib (ISM001-055)**, the first fully AI-designed drug to demonstrate Phase II a clinical efficacy in lung function improvement for idiopathic pulmonary fibrosis.

Despite these gains, challenges remain in data quality and the "black box" nature of deep learning. As the **EU AI Act** takes effect in August 2026, the industry is pivoting toward "Explainable AI" (XAI) to meet high-risk regulatory standards. The focus is no longer on whether AI works, but on how fast it can scale to address "undruggable" targets and global health crises.

Written by

Mr. Subhasish Saha

Assistant Professor, Department of Pharmaceutics

Mata Gujri College Of Pharmacy

Kishanganj Bihar- 855107

How Computers are Changing Pharmaceutical Research: From Algorithms to Cures

In the past, creating a new medication required more than ten years, billions of dollars, and a great deal of manual trial and error. Artificial intelligence and supercomputers are currently transforming pharmaceutical research by significantly reducing costs and speeding up timelines.

Computers function as extremely effective sieves through Computer-Aided Drug Design(CADD). Scientists utilise computers to virtually mimic how millions of molecules interact with disease targets rather than physically synthesising and testing thousands of chemical compounds. Only the most promising individuals are quickly selected for in-person assessment.

Advanced AI is even more sophisticated. These days, algorithms are able to quickly find novel therapeutic applications for already-approved drugs, forecast possible toxicity before human trials ever start, and create completely new compounds from scratch.

Clinical trials, the most costly stage of development, are being revolutionised by computers outside of the lab. AI aids in trial design optimisation and real-time patient response monitoring by evaluating genetic markers and real-world data from medical records.

Even if quantum computing holds the potential for even more significant advancements, human interaction is still essential. Scientists are being supercharged by computers, not replaced by them. Technology frees researchers to concentrate on problem-solving by removing data bottlenecks, allowing patients to get life-saving treatments in months rather than decades.

Written by-
Mr. Sukanta Debnath
Assistant Professor
Department of Pharmaceutical Chemistry
Mata Gujri College of Pharmacy
Kishanganj Bihar, 855107

The evolution of the Durga Idol in Bengal's Heritage with sessional festival arrangements.

Introduction Durga Puja is the biggest and most popular festival of Kolkata and West Bengal. Celebrated in September or October, it is dedicated to Goddess Durga, symbolizing the victory of good over evil. More than a religious festival, it is a grand celebration of Bengali culture, art and unity. During the festival, Kolkata is beautifully decorated with lights, themed pandals, music and cultural events. The celebration lasts for five days—from **Shashti to Dashami**.

History & Importance Durga Puja has been celebrated in Bengal for centuries. According to Hindu mythology, Goddess Durga defeated the demon **Mahishasura**, symbolizing the triumph of righteousness over evil. Grand household pujas by zamindars later evolved into **Barowari (community) and Sarbojanin** pujas, making the festival accessible to everyone.

Akaal Bodhon According to the *Ramayana*, Lord Rama worshipped Goddess Durga in autumn before fighting Ravana. Since Durga was traditionally worshipped in spring, this untimely worship became known as **Akaal Bodhon**, which inspired today's autumn Durga Puja.

Religious & Cultural Significance

- Symbol of **strength, courage, justice and righteousness**.
- Represents **women's power, protection, leadership and motherhood**.
- Durga is worshipped with **Lakshmi, Saraswati, Kartikeya and Ganesha**.

Festival Preparation Preparations begin months in advance. Skilled artisans create clay idols, while magnificent themed pandals and decorative lighting transform the city.



Religious Rituals

- **Shashti**: Unveiling of the idol.
- Daily worship with prayers, chanting, flowers, fruits, and sweets.
- **Saptami**: Nabapatrika ritual using nine sacred plants.

Dashami: Sindoor Khela, idol immersion, and farewell to the Goddess

Cultural Celebrations People wear new clothes, visit pandals, enjoy Bengali food and sweets and participate in music, dance, drama and cultural programmes. The rhythmic sound of the **Dhak** adds to the festive atmosphere.

Bonedi Bari & Barowari Puja The first grand autumn Durga Puja is believed to have been organized by **Raja Kangshanarayan Roy** in the 16th century. Later, community-based **Barowari and Sarbojanin** pujas made the festival a celebration for all.

Celebration in Kolkata Kolkata becomes a city of lights during Durga Puja. Clubs compete with creative pandals and idols, attracting millions of visitors. The festival showcases Bengal's art, culture, hospitality and creativity.

Present-Day Importance Durga Puja is celebrated worldwide by Bengali communities. In **2021**, **UNESCO** recognized **Durga Puja in Kolkata** as an **Intangible Cultural Heritage of Humanity**, giving the festival global recognition. Today, virtual darshan, digital promotions and social media have expanded its reach across the world.

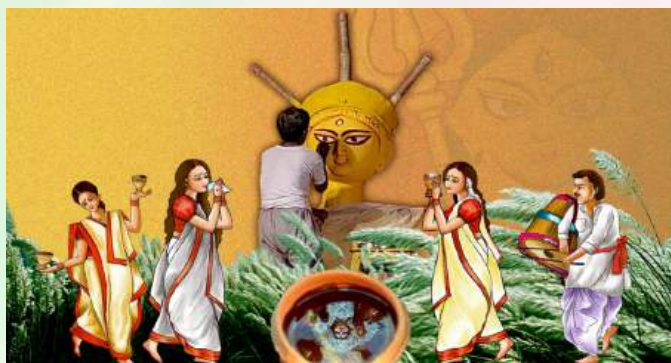
Goddess Shakambhari is a form of Adya Shakti who nourishes the world through vegetables, grains, plants and nature.

Nabapatrika On **Saptami**, nine sacred plants—Banana, Colocasia, Turmeric, Jayanti, Bel, Pomegranate, Ashoka, Giant Taro and Paddy—are tied together and worshipped as **Nabapatrika**.

The Ten-Armed Goddess (Dashabhuja) Durga's ten arms represent her infinite power. Each weapon was gifted by different gods, including the **Trident, Chakra, Conch, Mace, Bow, Arrow, Sword, Thunderbolt, Lotus and Shield/Snake**. These symbolize **knowledge, strength, courage, justice, patience, self-control, compassion, devotion, sacrifice and protection**.

Mahishasuramardini The most popular form of Goddess Durga is **Mahishasuramardini**, where she rides a lion and slays Mahishasura, symbolizing the victory of good over evil.

Conclusion Durga Puja is the heart of Kolkata and West Bengal. It is a unique blend of religion, culture, art, and social harmony. The festival spreads devotion, happiness and unity while reminding us that truth and righteousness always triumph over evil.



Written by
Mr. Sourav Kole
Assistant Professor, Department of Pharmacognosy
Mata Gujri College of Pharmacy, Kishanganj, Bihar- 855107



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