



THE PHARMA LOGUE

e-magazine

BY SCHOOL OF PHARMACEUTICAL SCIENCES
SHRI GURU RAM RAI UNIVERSITY, DEHRADUN

MAJOR EVENTS

PHARMA ANVESHANA DIWAS

WORLD ENVIRONMENT DAY

JAN AUSHADHI DIWAS

WORLD MALARIA DAY

COUNCIL RE-ELECTION

PRAYAVARAM MITRA



4TH EDITION



Table of Contents



- From the Dean's Desk
- Scientific Equipments
- Council Re-election
- Pharma Spotlight
- Jan Aushadhi Diwas
- Pharma Anveshana Day
- Pharmacovigilance - Vigilance in Action
- World Environment Day
- World Malaria Day
- Decoding LinkedIn
- Prayavaran Mitra
- Plant of the Edition
- Picture Gallery
- Acknowledgement



PROF. DIVYA JUJAL

Dean-SPS, SGRR University

Dear Students,

It is with great pride and purpose that I share a few words in this special edition dedicated to the pioneers, professionals, and future leaders of the health and pharmaceutical sector. In a world that constantly evolves, where challenges are as persistent as innovation is powerful, your dedication to human well-being stands as a beacon of hope.

The pharmaceutical and healthcare industries are not just scientific or commercial domains—they are deeply human ones. Every discovery, every treatment, and every act of care is a step toward a healthier world. As healthcare professionals, researchers, and educators, we are reminded daily of our profound responsibility and unmatched potential to create impact.

As the great physician Hippocrates once said, “Wherever the art of medicine is loved, there is also a love of humanity.” That love drives everything we do. It is reflected in the quiet diligence of lab work, the courage behind clinical trials, and the resilience of front-line caregivers.

Pharma is no longer just about medicine—it is about meaning. And in that meaning, we find motivation.

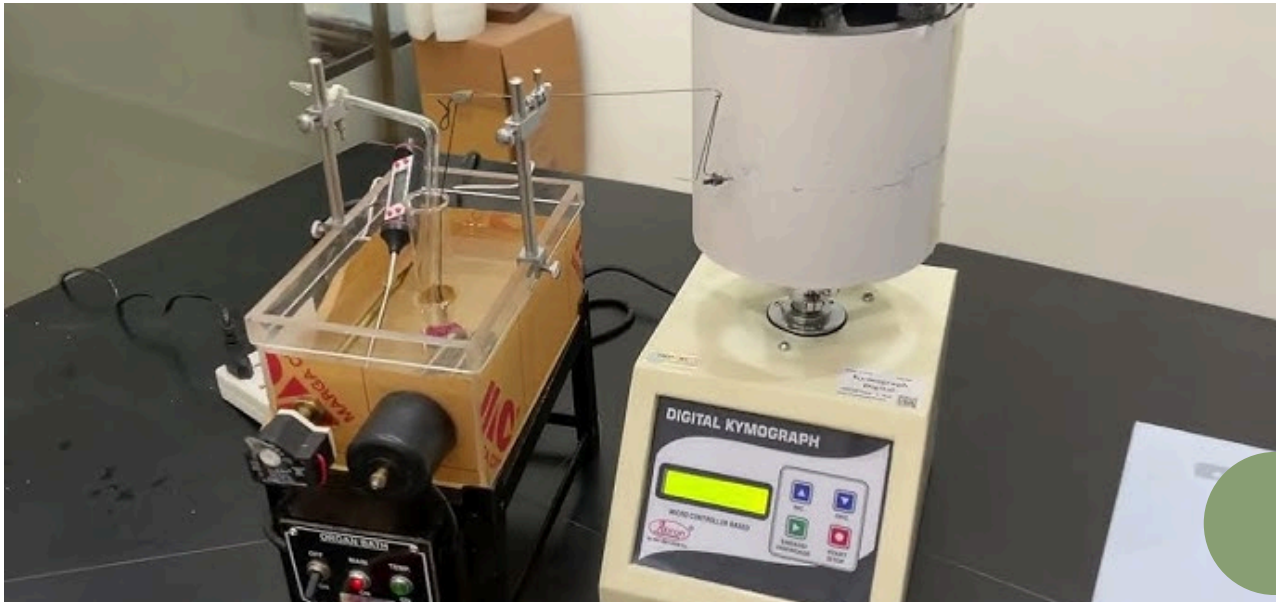
Let us continue to lead with integrity, innovate with intention, and educate with empathy. The future of global health depends not just on our science, but on our spirit.

To quote Sir Alexander Fleming, the discoverer of penicillin:

“One sometimes finds what one is not looking for. When I woke up just after dawn on September 28, 1928, I certainly didn’t plan to revolutionize all medicine by discovering the world’s first antibiotic...”

Let this remind us: even the smallest pursuit, when guided by purpose, can lead to the greatest breakthroughs.

To all contributors, readers, students, and professionals: keep striving, keep questioning, and above all, keep caring. The world needs your passion more than anything.



KYMOGRAPH INSTRUMENT

A versatile and widely used instrument
in physiological and biological
research

A kymograph is a scientific instrument used to record and visually display changes in physiological phenomena—such as motion, pressure, or muscle contractions—over time. The classic kymograph consists of a rotating drum wrapped with paper where a stylus or pen marks the measurements, producing a time-plot on the paper as the drum revolves.

Key Features and Components:

- Rotating drum: Driven at a constant speed (mechanically by clockwork or electrically), determines the time axis.
- Paper covering: Records the trace, usually smoked or glazed for visibility; modern versions use special kymograph paper.
- Stylus/pen: Connected to a sensor or lever (e.g., muscle, pressure transducer) that responds to the physiological variable, marking position or movement.
- Levers and sensors: Devices like writing levers or tambours convert biological or physical changes into movements recorded by the stylus.
- Speed and timing devices: Allow selection and accurate control of the drum's speed; modern digital versions offer precise speeds and timer functions.
- Accessories: Include stands, connecting wires, muscle chambers, tuning forks, and more for various experimental setups.

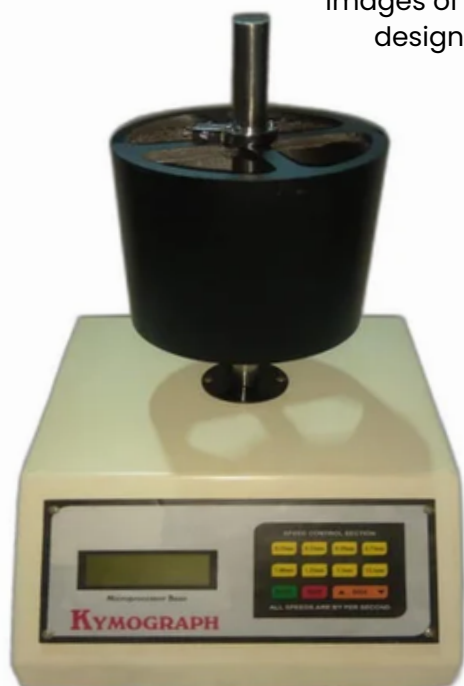
Typical Uses:

- Monitoring muscle contractions in physiology and pharmacology experiments
- Recording blood pressure, breathing, or other motion/pressure changes in medical and biological research
- Visualizing dynamic motion over time in both educational and research settings
- Used with an organ bath or other tissue setups for pharmacological studies



MA visual of a kymograph typically shows a cylindrical drum mounted on a stand, with a lever or stylus positioned to trace movements onto paper wrapped around the drum. The device often features a mechanical or electronic drive to rotate the drum steadily, with levers or sensors attached to record physiological changes.

Images of both classic and modern versions display the same fundamental design: a rotating recording surface and a writing apparatus for plotting physical or biological data over time.



The kymograph was invented by Carl Ludwig in 1847 and rapidly became a standard tool in physiology laboratories and education. Today, digital versions are still used for teaching and research, especially where an easy, visual record of change over time is needed.



Council Re-election



The new student body of the Sanjeevani Council of the SPS at SGRRU was elected on Feb 2025 for the February 2025' - February 2026' session.

This ceremony marked not only the appointment of new leaders of our institution but also restated the culture of interaction, responsibility, and service that the council brings to the institute. The event commenced in the gracious presence of eminent faculty members, administrative members, and students who witnessed the formal induction of the new council members. The event was full of anticipation as every nominated person was announced and the candidates' positions unfolded.

Every position was considered as signs of institutional respect of the students in their skills, resolute commitment, and readiness to be resourceful in their college life. Prof. Dr. Divya Juyal, Dean, SPS, interacted with the assembly with encouraging and inspiring words. By doing this, she welcomed the new members of the council by congratulating them on their achievement and made it very clear of the importance of their roles.

What was emphasized by her remarks on leadership in the Sanjeevani Council, it is the ability to guide and, to be guided. To lead, to inspire and to continue to imbibe the precepts of teamwork, integrity, and an undying dedication to the student body.

She also emphasized on the role that the council plays in bridging the gap between students and the administration in ensuring the issues raised by the students are heard and their projects are supported.

She encouraged the members to be serious, but creative and willing to work with others with the intention of setting examples for the entire group of students. Prof. Dr. Divya Juyal distributed badges to the entire Sanjeevani Council 2025-2026 as a symbol of trust and responsibility to be diligent and not drop the baton!

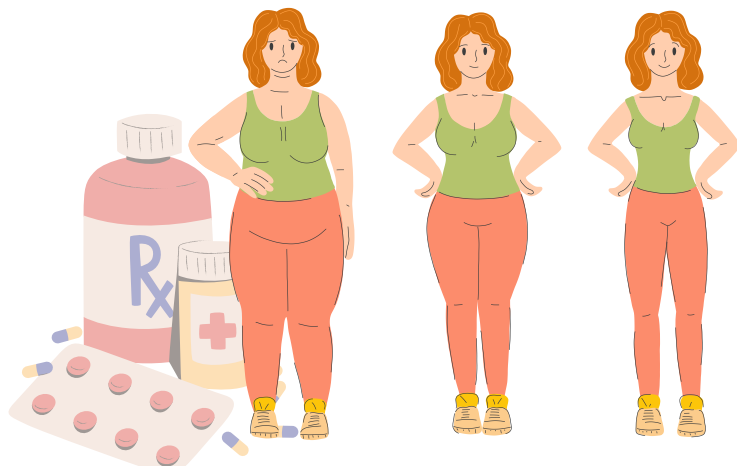
When these badges were given to the recipients, they received applause from the peers and faculty. The event ended with the newfound zeal on the part of the newly elected council.

The elected members of the Sanjeevani Council (2025-2026) are as follows:

- **President** : Sarthak Tyagi - Pharm. D. Vth Year
- **Secretary** : Rajat Rawat - Pharm. D. VIth Year
- **Joint Secretary** : Yusuf Khan - Pharm. D. IVth Year
- **Treasurer** : Divyanshu Tiwari - Pharm. D. Vth Year
- **Joint Treasurer** : Rahul Roy - Pharm. D. IIIrd Year & Priyanka - Pharm. D. IInd Year
- **Editorial Secretary** : Keshav Kishan - Pharm. D. IIIrd Year & Vikhyat Vibhu Balodi - Pharm. D. IInd Year
- **Editorial Team Members** : Astitva Chauhan & Ayush Sengupta - Pharm. D. IInd Year
- **Cultural Secretary** : Ayushi Raj Saini - Pharm. D. IIIrd Year & Manas Bobal - B. Pharm. IInd Year
- **Joint Cultural Secretary** : Priyanshi Mishra - Pharm. D. IInd Year & Mehul - B. Pharm. IInd Year
- **Sports Secretary** : Aryan Tyagi - Pharm. D. VIth Year
- **Joint Sports Secretary** : Divya Ojha & Tanish - B. Pharm. IIIrd Year
- **Senior Council Member** : Aditya Narayan Semwal - Pharm. D. VIth Year
- **Council Members** : Anushka - B. Pharm. IVth Year, Dhruv & Shibu Gond - B. Pharm. IIIrd Year

Pharma's Race to a Slimmer Tomorrow

**NO WORRIES
FOR
CALORIE COUNTS**



India is the newest stomping ground in a global drug game as leading pharmaceutical companies unleashed their blockbuster to address obesity and diabetes. The drugs, which already touted as game-changers in the western markets will help in a paradigm shift in how India treats metabolic disorders.

Novo Nordisk

Novo Nordisk's creation, Wegovy (semaglutide) is a GLP-1 receptor agonist that does not only assist in maintaining blood glucose levels but also leads to substantial weight loss.

Eli Lilly

Mounjaro (tirzepatide), developed by Eli Lilly, acts on both GLP-1 and GIP receptors, promising a two-fold advantage of Type-2 diabetes and obesity. Their Indian launch is an indication of transitioning out of the traditional model of managing diabetes to a more multifaceted treatment of metabolic wellness.

Global Statistics

With more than 100 million diagnosed diabetics and 135 million pre-diabetics, India is a hedge market that's not being served well. Obesity is looming in India and this makes it a perfect market of such therapeutics especially in conurbation areas. Although lifestyle modification is the initial intervention, these novel drugs have showed powerful impact in the treatment especially to patients with co-morbidities.

Burden on Pockets

The challenge however curtail the euphoria. Both the medicines are exorbitantly priced estimated of 10,000 - 15,000 rupees per month, making them initially accessible to higher-income patients. Being covered by the government insurance and enrolled in programs such as Ayushman Bharat are potentially crucial steps in increasing their scalability. No official capping of prices has been formalized so far but policy developments are under close observation.

Aftermath

The Indian pharmaceutical giants like Sun Pharma, Dr. Reddy and Cipla keeps a close eye on the advancement and have been watching out a possible extension to generic development, license deals or even investing in Research & Development of similar mechanism.

This arms race in therapy has not only the potential to redefine the paradigm of diabetes and obesity treatment in India, but would also precondition the emergence of a more comprehensive discussion about chronic care, low-cost care, and innovations. Succeeding in these pills, however, ushers in the possibility of a new age, in which maintaining body weight will become as pharmaceutical as maintaining blood glucose !



Jan *Aushadhi* Diwas



Affordable Medicines, Healthier Lives

With the blessings of His Highness President Maharaj Shri Devendra Dass Ji Maharaj, the School of Pharmaceutical Sciences, in association with the Internal Quality Assurance Cell (IQAC) at Shri Guru Ram Rai University, hosted a Pharmacist Awareness Seminar on 5th March 2025 to observe Jan Aushadhi Diwas. The seminar was conducted to emphasize the importance of generic drugs and their benefits as well as the vital role played by the pharmacists in the increased accessibility of healthcare among communities in the country.

The seminar included the experience of two honored guest speakers. Mrs. Dolly Arora, a School of Pharmaceutical Sciences alumna and the owner of the first Jan Aushadhi Kendra in Dehradun, shared her experience in making sure the availability of wallet-friendly medicines. The project that started with a single store now has four shops, having spread over the city and existing as an important bridge between patients and affordable treatment regimens.

Mr. Shivam Raghav, Nodal Officer, Jan Aushadhi Uttarakhand, spoke about the goals and the effect of the Pradhan Mantri Jan Aushadhi Scheme. He explained how the scheme had helped to minimize out-of-pocket medical spending by patients and uphold the stringent quality of generic drugs. Mr. Raghav also challenged the young pharmacists to take up the cause and open Jan Aushadhi Kendras and, in this way, combine professional progression and service to the community.

Prof. Dr. Divya Juyal, Dean of the School of Pharmaceutical Sciences, attended the session along with the Director of IQAC, the heads of the departments, the faculty members, and the students. This activity was one of the events that occurred during the Jan Aushadhi Week across India, aiming to spread awareness on the Jan Aushadhi Pariyojana and its role in the creation of affordable healthcare.



This week witnessed numerous initiatives to prepare for the celebration of the International Pharmacist Day. Such activities comprised the promotion of awareness, health camps, and interactive educative programs, all geared towards the promotion of generic medicines and emphasizing the role of a pharmacist in supporting and promoting the health of the population. With such interactions, the students are prompted to become entrepreneurs in the pharmaceutical industries by also serving the community directly.

By organizing this seminar, the School of Pharmaceutical Sciences reinstated its purpose to educate and to play a social role as well as to provide affordable solutions to all matters related to public health. Not only did the gathering enlighten participants, but it also created a drive to be actively engaged in the development of a dream where quality medicines can be available to all regardless of their financial background.





Pharma *Anveshana* Day



Innovating Minds - Advancing Health

On the momentous occasion of the 146th birth anniversary of our dear Professor Mahadeva Lal Schroff, fondly remembered by the whole pharmaceutical community of India as the father of pharmacy education in India, the School of Pharmaceutical Sciences at Shri Guru Ram Rai University hosted Pharma Anveshan 2025 on 6th March 2025.

This event was envisaged and organized by the school, with the assistance and financial support of the Pharmacy Council of India (PCI) and the Hon'ble President Mahant Shri Devendra Dass Ji Maharaj.

The event witnessed more than 250 attendees, including students, faculty members, industrial professionals, and dignitaries present from the academia and pharmaceutical world, who were welcomed by Prof. Dr. Divya Juyal, Dean, SPS, and Director IQAC, who addressed the contribution of Prof. M.L. Schroff in the historical development of pharmacy education in India.

She urged students to take up opportunities that emerge as they get ready to grapple with the challenges that keep evolving in the pharmaceutical industry. Prof. Kumud Saklani, Vice Chancellor, SGRRU, also praised the effort of the SPS staff in their continued endeavours to uphold pharmaceutical sciences.

Mr. Sandeep Narayan of Planet Herb was the keynote speaker at the event, and he spoke about the significance of patents and intellectual property rights in protecting pharmaceutical innovations since this is the only way to safeguard the results of the research work. We gained practical knowledge in the seminar through sessions aimed at equipping students with the respective skills.

The Placement Coordinator of SGRRU, Mrs. Manisha Maiduly, offered some tips on how to use interviewing techniques in order to equip students with future job possibilities. The discussion then proceeded as Mr. Tribhuvan Semwal of Unimedico Labs addressed the various career tracks and avenues of work in the pharmaceutical field and how the world still continues to call upon the constant need to remain flexible and continuously develop their skills.

Dr. Yogesh Joshi, Head of the Department of Pharmacy Practice, told the audience about the rapid proliferation of pharmaceutical startups and how entrepreneurship is driving innovation and innovation is creating new ways of employment to which our graduates can lead to. The next session was delivered by Dr. Meenu Chaudhary on the need for an incubation center in nurturing creativity and how this plays a critical role in transforming raw conceptual ideas into a viable product ready to take on the market.



Pharma Anveshan 2025 was a well-planned event by Dr. Manish Mishra, Ms. Shaffi Khurana, Dr. Jyoti Kalra, Dr. Bhawna, and the Sanjeevani Council. The efforts of each of them made the event a successful one. What is more significant, this event was made in dedication to the memory of Prof. Schroff, which encouraged all participants to be innovative and entrepreneurial in their own activities and engaged in lifelong learning as a part of their work.



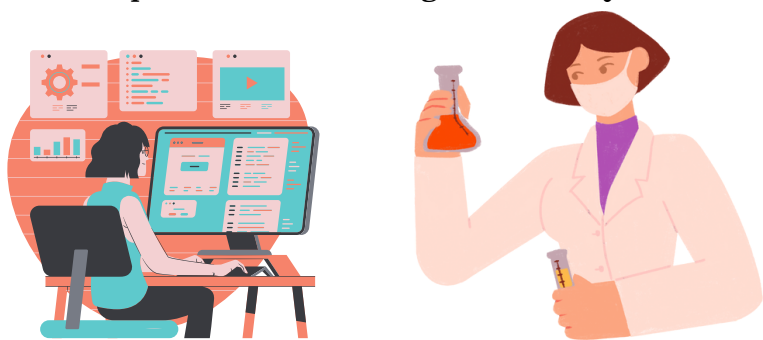
Hawk Eye on Every Step

Pharmacovigilance: Safeguarding Medicines, Protecting Lives

The path followed by a drug in the pharmacy world does not cease when the drug leaves the gate of the manufacturer. To a large extent, that is where its real trial starts. Pharmacovigilance (PV) defines the science and actions involved in the identification, evaluation, recognition, and deterrence of adverse effects or other medicine-related issues. In a nutshell, it is our shield against fallbacks; it guarantees our medicines of choice to remain safe, reliable, and effective in their application.

Why It Matters?

Any drug, however well-established, poses a risk. Although they are very strict in their approaches, clinical trials are performed on limited numbers of subjects in a controlled environment. As soon as a drug is in the larger population, variables increase exponentially. There are different age groups, health conditions, genetic factors, and drug interactions that can show side effects that were hitherto unknown. Pharmacovigilance comes in as a measure to continually observe, detect, and act on such problems in the long-term safety.



Core Objectives

- Identify new adverse drug reactions (ADRs) that can develop subsequent to marketing.
- Evaluate the risk-benefit ratio of medicines as time and population go by.
- Encourage safe and rational use of medicines in various healthcare facilities.
- Report the discovery at a timely rate and share the results with healthcare practitioners, patients, and regulators.

How It Works

The effectiveness of pharmacovigilance depends on the use of spontaneous reporting, in which the healthcare workers and, at times, patients report perceived ADRs. National PV centers collate and analyze these reports, examples of which include the Pharmacovigilance Programme of India (PvPI), which is run by the Indian Pharmacopoeia Commission. More developed tools such as signal detection, statistical modelling, and data mining assist in the detection of potential patterns that can signal a safety issue that requires intervention.

The role of Pharmacists and Students

Pharmacists pose a bridge between medicines and patients and cannot be left out in PV. Through observation, documenting ADRs, and encouraging patients to complain about any peculiar effects, pharmacists contribute to the establishment of an effective safety database. Pharmacy students, too, can do their bit through learning ADR reporting protocols, participating in PV awareness activities, and instilling a culture of high vigilance at the very beginning of their careers.



Challenges Ahead

Underreporting is the greatest obstacle. Some of the ADRs remain unreported or unnoticed due to ignorance, time factors, or fear of being blamed. Overall, such limitations can be overcome by enhancing PV education, simplifying reporting procedures, and promoting a no-fault culture in the long run.

Conclusion

Pharmacovigilance is not only a regulatory measure but a moral one as well. Even a single report or a single observation may be decisive between safety and harm. Our responsibility is clear. Being future and current pharmacy professionals: we must be aware, engaged, and devoted to preserving patient safety at all times.



World *Environment* Day



Health & Nature Go Together

Under the gracious blessings of our Hon'ble President, Mahant Shri Devendra Das Ji Maharaj, School of Pharmaceutical Sciences (SPS) celebrated World Environment Day with great fervour and enthusiasm on 5th June 2025.

The universal theme for this year, "Combating Plastic Pollution", was taken up with whole-hearted commitment, encompassing the world's environmental issue as well as the institution's values. The activity was created to promote awareness of sustainable behaviour, responsible action, and the involvement of students in nature preservation.



One of the day's highlights was a plantation drive of medicinal plants in the University's herbal garden. The event was organized by Dean, Dr. Divya Juyal, along with faculty members and volunteer student representatives from the Sanjeevani Council. By planting a number of medicinal herbs, the drive not only added to the greenery of the campus but also reemphasized the significance of medicinal plants in pharmaceutical studies, traditional medicine, and contemporary research.

In the ceremony, Dr. Juyal welcomed the audience and highlighted the vital role played by plants in preserving ecological balance and good health among people. She told the students that saving the environment is not a single-day activity but a lifelong commitment.

Her message motivated the budding pharmacists to become active players of green living, to minimize the use of plastics, and adopt green measures in their lives. She also encouraged the students that whenever they have the chance, they need to make an effort to sow seeds and take care of them, as every little sapling counts towards a sustainable and healthy future.

The occasion also underscored SPS's larger mission of balancing pharmaceutical education with environmental stewardship. Through a combination of education, research, and community service, the school continues to weave environmental responsibility into its culture of learning. The celebration was a living testament to how professional education could coexist with ecological stewardship.



The World Environment Day activity was organized in a smooth manner by the student members of the Sanjeevani Council and the Department of Pharmacognosy, providing active participation from throughout the School. Special appreciation was given by the Dean to the School of Agricultural Sciences, who provided medicinal plants for free under the plantation drive. Their gesture represented interdepartmental collaboration in realizing the common objective of sustainability.

In essence, the celebration reiterated the School of Pharmaceutical Sciences' undying commitment to creating a positive difference on the planet. Through bringing together ancient wisdom and contemporary education, SPS continues to foster ecologically aware professionals who are devoted to being of service to mankind as well as nature.



World *Malaria* Day



Together Against Malaria : Commit, Care, Conquer



April 25, 2025, World Malaria Day was celebrated with much zest in the School of Pharmaceutical Sciences (SPS) to raise awareness on the mosquito-borne disease prevention and control. The purpose of the event was to bring the focus to the key issues of taking proactive actions in prevention of malaria spread that remains a key healthcare burden impacting most part of the world especially developing nations.

Dr. Kanishk Kala, Assistant Professor, Department of Pharmacy Practice presented a participatory and educative lecture as part of the awareness drive. He highlighted community involvement in the eradication of malaria, preventive measures, and early diagnosis according to the WHO statistics. The students and faculty actively engaged in the session acquiring the valuable strategies of disease transmission and its prevention.

In a bid to cement the activity on ground, the Internal Quality Assurance Cell (IQAC) and the Registrar Office initiated fogging operation within the SGRR University campus. This was meant to curb the breeding of the mosquitoes and the chance of malarial transmission.

The Department of Pharmacognosy under the guidance of Prof. Dr. Divya Juyal, Dean, SPS, in a unique and eco-friendly manner, prepared and distributed herbal-based mosquito repellent sprays. The sprays were developed by students and faculty using extracts of medicinal plants with natural repelling effects on insects. It truly showcased the commitment of School of Pharmaceutical Sciences to research, sustainability, and practice of the traditional knowledge. The sprays were given as gifts to the University officials at the campaign in an effort to promote green and eco-friendly approach, rather than harmful chemical products. The gesture received much affection and was a good innovation as far as the School was concerned.



The Hon'ble Vice Chancellor, Prof. Kumud Saklani acknowledged the initiative taken by the School of Pharmaceutical Sciences team and congratulated the faculty and students on their contribution. She applauded the effort as an ideal combination of scientific expertise, social responsibility and environmental concern.

The event concluded with an uplifting note, reinforcing the SPS' undeterred dedication towards health education, innovation, and community welfare, which is in line with the global aim to eradicate malaria.

WORLD MALARIA DAY.



Why LinkedIn Matters for Medical Students

LinkedIn helps build a professional online presence, enables networking with mentors and peers, and offers access to research and job opportunities within and beyond medicine. A strong LinkedIn profile gives increased visibility among healthcare professionals and recruiters, opening pathways for future career growth.

LinkedIn is a powerful professional networking platform that helps medical students and young doctors build their careers by connecting with peers, mentors, and employers in the healthcare field. By maintaining a strong LinkedIn profile, students can showcase their achievements, explore research and job opportunities, and stay updated with the latest developments in medicine. Early engagement on LinkedIn not only boosts visibility but also opens doors to valuable collaborations and guidance from experienced professionals.

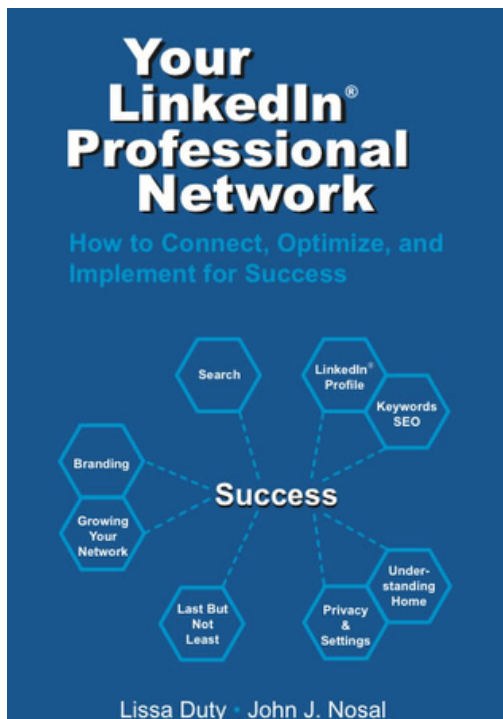
Essential Tips for LinkedIn Success

- Profile Photo: Use a clear, professional headshot.
- Headline: Reflect interests and aspirations (e.g., “Medical Student | Research Enthusiast”).
- Summary: Briefly introduce yourself, highlighting personal interests in medicine.
- Experience and Education: List clinical rotations, internships, relevant coursework, and honors.
- Skills and Endorsements: Add medical, teamwork, and communication skills; encourage endorsements.
- Networking: Connect with classmates, faculty, doctors, and join medical groups to expand reach.
- Professional Conduct: Keep posts and interactions respectful and patient information confidential.

Suggested Content Ideas for LinkedIn

- Share medical milestones (exam results, publications, conferences attended).
- Write articles reflecting on clinical experiences or research.
- Join discussions in groups related to specialties of interest.
- Follow notable medical leaders and organizations to stay updated.
- Use LinkedIn as a digital CV for applying to internships and research positions

LinkedIn is much more than just a digital resume for students and young professionals, especially in the medical field. It offers a dedicated space to build a professional brand, network with doctors, faculty, and alumni, and increase visibility for future opportunities such as internships, research projects, and residencies. Students can use LinkedIn to join professional groups, follow medical journals, attend virtual conferences, and showcase their achievements, all while staying updated on industry news and trends.



A well-maintained LinkedIn profile acts as a gateway for recruiters and mentors to discover emerging talent and gives students the chance to receive endorsements, recommendations, and personalized career guidance. Additionally, LinkedIn Learning provides access to thousands of courses that help students continuously improve their skills and stand out to employers. Starting early helps form productive professional habits and builds a lifelong network essential for success in the competitive world of medicine.

There are indeed medical students on LinkedIn who are considered revolutionary or influential for their exceptional contributions and leadership in medical education, research, and healthcare advocacy. One example is **Nicholas Cozzarelli**, featured for his role in "Revolutionizing Medical Education" campaigns promoting transformative care and education initiatives. Another notable individual is **Hamaad Khan**, a graduate medical student who has made an impact globally through health policy research, social prescribing advocacy, and medical education innovation. He is recognized for co-founding national campaigns, hosting podcasts, and winning prestigious awards for healthcare leadership and patient-centered care.



Medical students can build professional credibility on LinkedIn by sharing content that demonstrates their knowledge, experiences, and engagement with the medical community. Effective posts include:

- *Introducing themselves with their background, training, and motivations for pursuing medicine.*
- *Sharing insights and summaries of recent medical research, innovations, or case studies.*
- *Posting health tips, preventive care advice, or awareness about mental health and wellness.*
- *Reflecting on clinical experiences, medical conferences, or academic achievements.*
- *Participating in discussions and sharing professional opinions on trending healthcare topics.*
- *Sharing educational content such as infographics, videos of medical procedures, or articles that debunk medical myths.*



BOTANICAL AND CHEMICAL CONTENT

Argemone mexicana, commonly known as Mexican prickly poppy, is a thorny herbaceous plant belonging to the Papaveraceae family. Botanically, it features spiny stems, lobed leaves, and yellow or white flowers with orange pollen. Chemically, it is rich in diverse bioactive compounds including alkaloids such as sanguinarine, berberine, protopine, and chelerythrine. Additionally, it contains flavonoids, terpenoids, steroids, and phenolic compounds. These phytochemicals contribute to its notable pharmacological activities, including antimicrobial, anti-inflammatory, anticancer, and hepatoprotective effects, making the plant a significant source of natural medicinal compounds in traditional and modern therapies.



ARGEMONE MEXICANA

A valuable medicinal plant utilized in various traditional medicine practices. It offers an updated overview of the chemical properties and pharmacological applications of *Argemone Mexicana*, which is recognized for its therapeutic benefits. This plant is a member of the Papaveraceae family, commonly referred to as the 'poppy' family, which encompasses 42 genera and approximately 730 species of flowering plants, all of which hold significant ethnopharmacological relevance. Globally, *Argemone Mexicana L.* is employed in the treatment of numerous ailments, including cancer, bacterial and microbial infections, peptic and oral ulcers, as well as fungal infections, inflammation, malaria, jaundice, and various skin disorders.





MEDICINAL USES AND PHARMACOLOGICAL PROPERTIES

- Traditional medicine utilizes all plant parts (roots, leaves, seeds, latex) for ailments like skin diseases, jaundice, leprosy, tumors, wounds, malaria, rheumatism, and infections in both Ayurvedic and folk practices.
- Demonstrated activities include: Antibacterial and antifungal properties against common pathogens. Anti-inflammatory, analgesic, and antipyretic actions, effective in experimental animal models.
- Anticancer and cancer-preventive effects, notably in liver and skin cancer models, where extracts have been shown to delay tumor development and modulate inflammation pathways.
- Hepatoprotective potential, particularly in preventing or mitigating liver damage and supporting liver health.
- Antidiabetic, antimalarial, anti-urolithiatic (against urinary stones), and antioxidant properties have also been reported.

Toxicological Concerns and Public Health

- Argemone seeds can contaminate edible oils such as mustard oil, causing epidemic dropsy—a potentially fatal disease characterized by edema and heart failure. Recent news highlights continued public health risks and fatalities related to argemone oil poisoning in some regions, emphasizing the need for vigilance in food safety and regulatory practices.
- Both the therapeutic potential and risk profiles are actively studied, with a need for improved public health communication and stricter controls.

Importance in Pharmacy Academics

- The synergistic action of multiple phytochemicals found in Argemone compared to single-agent synthetic drugs.
- Education regarding identification, proper extraction techniques, and dosage forms, as well as evaluation of efficacy and safety.
- Notable ethnopharmacology emphasis on and of evidence-based analysis traditional herbal therapies.

LATEST RESEARCH AND UPDATES

- RECENT STUDIES (2023-2025) FURTHER EVALUATE THE ANTICANCER, HEPATOPROTECTIVE, AND ANTIMICROBIAL EFFECTS OF VARIOUS ARGEMONE MEXICANA EXTRACTS.
- THERE IS CONTINUED INTEREST IN ELUCIDATING SPECIFIC MOLECULAR MECHANISMS, ISOLATING AND TESTING PHYTOCONSTITUENTS, AND DEVELOPING STANDARDIZED EXTRACTS FOR SAFER MEDICINAL USE.
- ACADEMIC REVIEWS AND META-ANALYSES ENHANCE UNDERSTANDING OF ITS CLINICAL RELEVANCE AND SAFETY MONITORING IN MEDICINAL AND PHARMACY SETTINGS

- **Student Orientation Program by School of Pharmaceutical Sciences (2025)**

Orientation program for newly admitted students at School of Pharmaceutical Sciences, Shri Guru Ram Rai University. The Objectives of the program was overall development and to provide guidance to newly enrolled students taking admission in 2025-2026. A grand event of the 3-day initiation program was held in the University auditorium. The program was inaugurated by Prof. Divya Juyal, Dean, School of Pharmaceutical Sciences.

- **Celebration of World Environment Day 2025**
- **Theme: "COMBATING PLASTIC POLLUTION"**

With the Divine Blessings of our Honourable President Mahant Shri Devendra Das Ji Maharaj, School of Pharmaceutical Sciences celebrated World Environment Day on 5 June 2025 with the theme "COMBATING PLASTIC POLLUTION". The event featured a plantation drive of medicinal plants in the herbal garden, led by the Dean Dr. Divya Juyal, along with faculty members and students from the Sanjeevani Council. This initiative not only aimed to enhance the green cover but also to promote the use of medicinal plants in pharmaceutical studies and practices.

- **Industrial Visits Offer Valuable Industry Exposure to Pharmacy Students**

The School of Pharmaceutical Sciences recently organized a series of industrial visits for students of D. Pharm. These visits provided students with invaluable real-world exposure and hands-on learning experiences, effectively bridging the gap between academic knowledge and practical industry. Throughout the visits, students had the opportunity to observe various processes in action, including production, quality control, and research & development.



In a unique and eco-friendly initiative, the Department of Pharmacognosy, under the guidance of Prof. Divya Juyal, prepared and distributed herbal-based mosquito repellent sprays. These natural repellents were developed by students and faculty using medicinal plant extracts known for their insect-repelling properties. The sprays were gifted to University officials as a part of the awareness campaign, promoting sustainable alternatives to chemical repellents.



On 21st august 2025 a recorded message was conveyed to the fresher from one of the esteemed alumnus of SPS Mr. Deshraj Singh (Asst. Drug Controller, CDSCO, Govt. of India). A guest Lecture was organized by SPS, the Guest speaker invited was Mr. Vinod Jaguri, alumnus, School of Pharmaceutical Sciences currently working as Drug Inspector in Dehradun region, he shared his experience with students and congratulated them for being a part of SGRR University. The Disciplinary Policies were then discussed by Chief Proctor Dr. G. Gnanarajan, followed by a session of Library rules and regulations by, Dr. Amita Saklani, Sr. Librarian, SGRR University. Students have been introduced about the NSS Activities by Dr. Naveen Gaurav (NSS Coordinator). Mr. S.P. Joshi (Sport Officer) talked over, about the sports facilities provide by the University.



The School of Pharmaceutical Sciences recently organized a series of industrial visits for students of D. Pharm . These visits provided students with invaluable real-world exposure and hands-on learning experiences, effectively bridging the gap between academic knowledge and practical industry application. Throughout the visits, students had the opportunity to observe various processes in action, including production, quality control, and research & development.

Celebration of World Environment Day 2025



During the drive, Dr. Juyal emphasized on the critical importance of plants in sustaining the environment and promoting health, she also conveyed the message to students that whenever you get the opportunity, you should put efforts in planting the seeds for a healthier future. The School of Pharmaceutical Sciences remains dedicated to promoting environmental sustainability through education, research, and community engagement. The World Environment Day celebration was a testament to the institution's ongoing efforts to make a positive impact on the planet. The event was well coordinated by student members of Sanjeevani council and department of Pharmacognosy. Dean of the School conveyed special thanks to School of Agriculture Sciences for providing medicinal plants.

Celebration of PCI sponsored Pharma Anveshan 2025



The event saw words of appreciation from Vice Chancellor Prof. Kumud Saklani, who congratulated the SPS team for their continued efforts in advancing the field of pharmaceutical sciences.

The celebration was attended by over 250 participants, which included students, faculty members, industry experts, and distinguished personalities from both academia and the pharmaceutical industry. Prof. Divya Juyal, Dean SPS and Director IQAC, took the stage to highlight the monumental contributions of Prof. M.L. Schroff to the field of pharmacy education. She also offered guidance to students regarding the evolving opportunities and challenges in the pharmaceutical industry.

ACKNOWLEDGEMENT

We offer our deepest thanks to all contributors, readers, and supporters of "The PharmaLogue." Your unwavering dedication and enthusiasm have been instrumental in making this magazine a success. We are deeply appreciative of the valuable insights, experiences, and knowledge shared within its pages. Your continued support fuels our commitment to delivering informative and inspiring content to the pharmacy community. Together, we embark on a journey of exploration, learning, and growth in the dynamic world of pharmacy. Thank you for being an integral part of "The PharmaLogue" family. We extend our heartfelt gratitude to Dean Professor Divya Juyal for her invaluable guidance and support in curating the content of this magazine. Her wisdom and expertise have truly enriched every page. We sincerely thank our Literary Adviser Mrs. Shaffi K. Tangri, whose keen insights and recommendations have shaped the narrative of this publication. Special appreciation is reserved for Sarthak Tyagi, President of the Sanjeevani Student Council, whose leadership has been instrumental in overseeing the management aspects of the magazine. We would also like to express our appreciation to the editorial team comprising Keshav Kishan, Vikhyat Vibhu Balodi, Astitva Chauhan and Ayush Sengupta. Their dedication and hard work have been evident in every aspect of the magazine's production. Each individual mentioned above has played a crucial role in bringing this magazine to fruition, and their contributions are deeply appreciated.

CREDITS



PROF. DIVYA JUHAL
DEAN-SPS, SGRRU



MRS. SHAFFI K. TANGRI
LITERARY ADVISOR



SARTHAK TYAGI
President



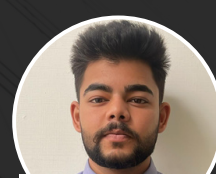
KESHAV KISHAN
Editorial Secretary



VIKHYAT VIBHU BALODI
Editorial Secretary



ASTITVA CHAUHAN
Editorial Team Member



AYUSH SENGUPTA
Editorial Team Member

& All the Sanjeevani Council Members