

Two-days National Conference on Drug Delivery Approaches

Introduction:

Sachdeva College of Pharmacy in Gharuan recently hosted a prestigious two-day National Conference focused on the theme of “**Current and Future Prospects in Drug Delivery Approaches: Elevating Quality Parameters**” under aegis of Scott-Edil Pharmacia Ltd. The conference was supported by esteemed Society of Pharmaceutical Education and Research (SPER), the event took place on April 5th and 6th, drawing a distinguished audience from across the nation. This conference aimed to provide a dynamic platform for academia and industry to converge, exchange ideas, and explore innovative solutions in drug delivery methodologies.

Engaging Speakers and Collaborators:

We extend our sincere appreciation to the Society of Pharmaceutical Education and Research (SPER) and Scott Edil Pharmacia Ltd for their unwavering support and collaboration, which played a pivotal role in making the National Conference on Drug Delivery Approaches a resounding success. Their commitment to excellence and advancement in pharmaceutical sciences has significantly enriched the conference experience and contributed to its success.

About SPER:

SPER stands as a beacon of excellence in the pharmaceutical sciences arena, dedicated to fostering education, innovation, and research. With a robust member base of around 3,500

professionals spread across the country and 13 state branches, SPER is a leading pharmaceutical association in India. Through its conferences, seminars, and publications, SPER promotes innovation, disseminates cutting-edge research, and fosters excellence in pharmaceutical education. By facilitating networking opportunities and providing resources, SPER plays a crucial role in shaping the future of pharmaceuticals, ultimately contributing to global healthcare improvement.

About Scott Edil Pharmacia Ltd:

Established in 1996, Scott Edil Pharmacia Ltd is a pioneering Indian pharmaceutical company



committed to making quality health care quitable and affordable. With three WHO-GMP-certified manufacturing plants, Scott Edil has established itself as a trusted name in the industry. Their dedication to quality assurance, research-driven approach, and societal well-being make them a formidable force in the healthcare sector. Scott Edil's support and collaboration have been instrumental in advancing pharmaceutical research and development, thereby enhancing the quality and safety standards of medicines for the benefit of society.

Conference Highlights

Inaugural Address by Chief Guest: The conference commenced with an inaugural address by Professor Indu Pal Kaur from the University Institute of Pharmaceutical Sciences, Punjab University, Chandigarh. Mrs. Baljit Kaur Monga, Managing Director, extended felicitations to the esteemed dignitaries.

Guest of Honor: Mr. Sushil Kumar Bansal, President of the Punjab Pharmacy Council, because of some unforeseen circumstances could not grace the event. His absence created a void in our agenda, and we truly missed the opportunity to benefit from his valuable perspective. We extend our heartfelt thanks for his willingness to participate in the conference.

Eminent Speakers: Representatives from leading pharmaceutical entities such as Sun Pharmaceutical Industries Ltd., Nectar Lifesciences Ltd., and Scott Edil Advanced Research Laboratories and Education Ltd. shared their invaluable insights and expertise.

Speaker Talks and Topics:

The conference featured an impressive lineup of speakers who delivered insightful presentations on various aspects of drug delivery approaches:

Prof (Dr) Indu Pal Kaur: Keynote Speaker

Professor Indu Pal Kaur, an eminent figure in the field of pharmaceutical sciences from the University Institute of Pharmaceutical Sciences, Punjab University, Chandigarh, delivered the keynote address. With her decades-long experience and profound knowledge, she eloquently articulated the pivotal role of innovative drug delivery approaches in modern healthcare systems. She shared her life's experiences and lessons learnt. She highlighted how her journey began in Pharmacy although not a subject of her choice. Her address also encapsulated the wide scope in Pharmacy Profession and evolution of drug delivery technologies, from conventional formulations to advanced nanomedicine platforms, emphasizing their transformative impact on patient care and treatment outcomes. Prof Kaur's insightful analysis shed light on the intersection of scientific innovation, clinical efficacy, and patient-centric care, setting a dynamic and forward-looking tone for the conference.



Prof (Dr) Anil Kumar: "Targeted Drug Delivery: Exploring the Transition from Magic Bullet to Nanomedicine"

Professor Anil Kumar, Chairperson of the University Institute of Pharmaceutical Sciences, Punjab University, Chandigarh, presented a comprehensive discourse on targeted drug delivery. Drawing upon his extensive research and academic expertise, Prof Kumar elucidated the intricate journey of drug delivery systems from the conceptualization of the "magicbullet" concept to the cutting-edge realm of nanomedicine. His talk navigated through the principles of site-specific drug delivery, molecular targeting, and personalized medicine, showcasing the transformative potential of nanotechnology in optimizing therapeutic outcomes while minimizing adverse effects. Prof Kumar's presentation not only highlighted the scientific advancements but also underscored the imperative for interdisciplinary collaboration and translational research in realizing the promise of targeted drug delivery for precision medicine applications.



MrVikas Kumar: Interactive Session

Mr Vikas Kumar, Manager, F&D, a representative from Scott Edil Advanced Research Laboratories and Education Ltd, Baddi, facilitated an engaging and interactive session during the conference. Leveraging their collective expertise and industry insights, they navigated through the intricate landscape of drug delivery research and development. Through real-world case studies, interactive demonstrations, and audience participation, Mr Vikas elucidated the multifaceted challenges and opportunities inherent in the pharmaceutical industry. The session served as a catalyst for stimulating discussions, knowledge exchange, and networking opportunities, fostering a dynamic ecosystem of learning and collaboration among academia, industry professionals, and aspiring researchers.



Dr Suresh Kumar: "Novel Drug Delivery Systems for Herbal Products with Low Bioavailability"

Dr Suresh Kumar, an esteemed Associate Professor at DPSDR, Punjabi University, Patiala, and Secretary of APTI Punjab, offered profound insights into novel drug delivery systems tailored for herbal products with low bioavailability. With his rich academic background and research acumen, Dr Kumar delved into the complexities of herbal medicine formulations, emphasizing the challenges posed by their inherent limitations in bioavailability and therapeutic efficacy. His presentation explored innovative strategies, such as nanoencapsulation, lipid-based carriers, and novel excipients, aimed at overcoming the barriers to effective drug delivery and enhancing the pharmacokinetic profile of herbal remedies. Dr Kumar's talk underscored the transformative potential of interdisciplinary research and innovation in harnessing the therapeutic benefits of herbal medicines for improved patient care and public health outcomes.



Mr Amit Maji: "Students' Prospective in Pharmaceutical Industries"

Mr Amit Maji, a distinguished Plant Head at Sun Pharmaceutical Industries Ltd, Baddi, could not attend the conference due to some unexpected work. We deeply missed his presence and expertise during the conference. We extend our heartfelt thanks for his willingness to participate in the conference.

Mr AN Mishra: "Basic Concept of Quality by Design (QbD) and Current Good Manufacturing Practices (cGMP)"

Mr AN Mishra, an esteemed Plant Head at Nectar Lifesciences Ltd, Baddi, offered a comprehensive elucidation of the fundamental principles of Quality by Design (QbD) and Current Good Manufacturing Practices (cGMP). Drawing upon his extensive expertise in pharmaceutical manufacturing and regulatory compliance, Mr Mishra navigated through the intricate terrain of quality assurance, process optimization, and risk management in drug development and production.



His presentation underscored the imperative for systematic and science-based approaches to ensure product quality, safety, and efficacy throughout the pharmaceutical lifecycle. By demystifying the core concepts of QbD and cGMP, Mr Mishra empowered the audience with practical insights and best practices to foster a culture of quality excellence and regulatory compliance within the pharmaceutical industry ecosystem.

Theme Focus and Platform for Engagement:

The conference underscored the critical role of drug delivery approaches in maintaining the quality and safety standards of medicines, aligning with the evolving pharmaceutical landscape in India. It provided a pivotal platform for students and industry stakeholders to engage in discussions regarding advancements, challenges, and future trajectories in drug delivery methodologies.

Poster Presentation:

The poster presentation session showcased cutting-edge research and innovation in drug delivery approaches. **Ritu Rathi from Chitkara University** won the first prize for her poster on "**Enhancing Solubility and Dissolution of Piperine via Cocrystals: A Comprehensive Investigation.**" **Palak from Sachdeva College of Pharmacy** secured the second prize for her poster on "**Formulation and Evaluation of Herbal Face Serum.**" Their exemplary research contributions were recognized with cash prizes, mementoes, and certificates.

Vote of Thanks:

Prof. S.P. Goel, the Conference Convener, and Dr. Vandana Kharb, the Organizing Secretary, expressed gratitude to the collaborators, supporters, guests, speakers, resource persons for poster evaluation, team members, and all participants for their invaluable contributions towards furthering the shared mission of enhancing quality and safety within pharmaceutical manufacturing systems.

Conclusion:

The Two-day National Conference on Drug Delivery Approaches at Sachdeva College of Pharmacy served as a significant milestone in fostering dialogue and collaboration among academia, industry, and regulatory bodies. Through insightful discussions and shared expertise, the conference aimed to contribute towards advancements in drug delivery methodologies, ultimately benefitting the healthcare sector and society at large.