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PROFESSIONAL SUMMARY

- A competent academic and industry rich experience of **12-13 years** of in complex formulation, development, design, with novel and innovative strategies in therapeutic delivery of diagnostic and delivery purpose.
- To teach and mentor the Master of Science (MS) and PhD, Postdoctoral students for their research and dissertation projects.
- To engage the experiment, practical and classroom teaching to MS and PhD students of pharmaceutics and Biopharmaceutics including drug delivery, regulatory affairs, IPR etc.

World TOP 2% Scientist Enlisted

- Consecutively enlisting in the Top 2% World Scientist Ranking for the year 2023, 2022, 2021 conducted by the Stanford University, USA
- Consecutively enlisting by the AD Scientific Index for the year 2023, 2022, 2021.

RESEARCH AND PROFESSIONAL EXPERIENCES

(1)Assistant Professor Pharmaceutics & Biopharmaceutics NIPER, Hyderabad, INDIA	Jan 2020-continued....
(2) Manager Sentiss Research Centre Udyog Vihar, Phase-IV, Gurgaon, Haryana	Dec. 2016- JAN 2020
(3)Post-doctoral Research Associate Irma Lerma Rangel College of Pharmacy Texas A & M Health Science Center, Kingsville, TX, USA Research Advisor: Srinath Palakurthi, Ph.D (Professor, Ph.D)	July 2015- Dec. 2016
(5)Associate Professor Department of Pharmaceutics ISF College of Pharmacy Moga, Punjab INDIA	July 2014-July 2015
(6)Doctor of Philosophy (PhD) in Pharmaceutical Sciences Department of Pharmaceutical Sciences, Dr. H. S. Gour University, Sagar, India Project Title: <i>Engineered Carbon nanotubes for Targeting of Anticancer Bioactives</i> Research Advisor: Prof. N. K. Jain	2011-2014
(7)Lecturer Pharmacy College, Bhopal INDIA	Feb 2008-Dec 2010

(8) Master of Pharmacy (M Pharm) in Pharmaceutics **2005-2007**
Department of Pharmaceutical Sciences, Dr. H. S. Gour University, Sagar, India

(9) Bachelor of Pharmacy (B Pharm) **2001-2005**
Department of Pharmaceutical Sciences, Dr. H. S. Gour University, Sagar, India

SPONSORED RESEARCH PROJECTS

RG1. Research Grant “Ex Vivo and In vivo Evaluation of Novel Therapeutic Regimen of the Cyclin Dependent Kinase 4/6 Inhibitors loaded Hybrid lipid polymeric Nanoparticles Against Triple-negative Breast Cancer” from Department of Science and Technology (DST), New Delhi F. no. EEQ/2023/000038, Role: Principal Investigator (PI) Ongoing. (GAP-95) 2023-2026.

RG2. Research Grant “Overcoming the inflammatory Cascade in Neonatal Sepsis: a nanomedicines approach. IIRP-2023-7715 PI: Dr. Chandraiah Godugu Co-PI Dr. Neelesh Kumar Mehra, ICMR, New Delhi.

RG3. Research Grant on “Process scale-up, validation, preclinical and safety evaluation of intravaginal metformin hydrochloride thermosensitive gel in polycystic ovary syndrome” from ICMR New Delhi, Budget: 52 Lakh. PI: Dr. Jitender Madan, Co-PI: Dr. Neelesh Kumar Mehra.

RG4. Research grant “Pharmacological activities and pre-clinical screening of the promising unani medicines against hepatic disease” from Central Council of Research in Unani Medicine (CCRUM), New Delhi India, F. No. 3-12/2021-CCRUM/Tech (Started JUN 2021-JUN 2024). Role: Principal Investigator (PI) ongoing. (GAP-48)

Project Completed

1. RG1 “*Formulation, Development, Evaluation and Assessment of Safety and toxicity of Unani Herbal toothpaste (Sunoon-e-Mustahkam-e-Dandan)*” from CCRUM, New Delhi. (Completed; JAN 2021-JUN 2021). Role: Principal Investigator (PI) Completed (GAP-34).
2. **RG2.** Research Grant “Therapeutic Potential of the Nanoformulations for Wound Healing Activity in Diabetic Foot Ulcer” from Department of science and technology (DST), New Delhi under Start-up research grant (SRG) F. no. SRG/2021/000708, Role: Principal Investigator (PI) Ongoing. (GAP-54) 2021-2023
3. **RG3.** Research Grant “Development of Novel Eye Drops of fixed dose combination for Effective Ocular Delivery” from Department of science and technology (DST), New Delhi under Nanoscience Scheme F. no. DST/NM/NS/2021/405; Role: Principal Investigator (PI) ongoing (GAP_47) 2021-2024 Role: Principal Investigator (PI)
4. **RG4.** Research grant titled “Development and Evaluation of Functional Nanoformulations for Effective Management of Colorectal Cancer” from Department of Science and Technology (DST), New Delhi Under DST Inspire program for the duration 2021-2025. Ongoing (GAP_66) 2021-2025 Role: Principal Investigator (PI)

5. **RG5:**“Development, Evaluation and Characterization of Hydrophobic Nanoparticles Impregnated Fabrics to be Assessed as Dress Material for Defense” from DRL, DRDO, Tejpur, India (Jan 2020-Dec 2020). Co-Principal Investigator (Co-PI) Completed.

INDUSTRY SPONSORED RESEARCH PROJECT

1. **IRG1.** Research Project title “Formulation Development and analytical Characterization of N-Acetyl Cysteine with cephapirin Benzathine and Ceftiofur Sodium and Ceftiofur Hydrochloride salts Intrauterine dosage form” from HEKA Pharm Pvt. Ltd, Hyderabad FY 2023-24 (IAP-28).
2. **IRG2.** Research Project title “Development of Healthy Beverage” from QSPC Pvt Ltd, Hyderabad Completed. FY 2023-24. (IAP-27).

Technology Transfer

TT1. Technology transfer on “*Formulation, Development, Evaluation and Assessment of Safety and toxicity of Unani Herbal toothpaste (Sunoon-e-Mustahkam-e-Dandan)*” to the Central Council of Research in Unani Medicine (CCRUM), New Delhi. Role: Principal Investigator (PI) (GAP-34).

CONFERENCE GRANTS RECEIVED

1. Received conference grant to organize the international conference “International Conference on Drug Discovery, Delivery and Diagnostics (ICD4-2024). Dated 9th-10th August, 2024 from Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Government of India, Ref. no. 35025/04/2024-Scheme Rs. 10,00,000/- (ten Lakhs).
2. Received conference grant to organize the international conference “International Conference on Drug Discovery, Delivery and Diagnostics (ICD4-2024). Dated 9th-10th August, 2024 from Department of Biotechnology (DBT), Government of India, Ref.no. DBT/CTEP/01/20240456162 of Rs. 2,50,000/-.(2.5 Lakhs)
3. Received conference grant to organize the international conference “International Conference on Drug Discovery, Delivery and Diagnostics (ICD4-2024). Dated 9th-10th August, 2024 from Science and Engineering Research board (SERB), Department of science and Technology, Government of India, Ref. no. SSY/2024/000544 of Rs. 4,00,000/- .(Rs. 4.0 Lkhs)
4. Received conference grant to organize the international conference “International Conference on Drug Discovery, Delivery and Diagnostics (ICD4-2024). Dated 9th-10th August, 2024 from Council of scientific and Industrial Research (CSIR), Government of India, Ref. no. SSYM/124478/24-HRD of Rs. 50,000/- .

Patent Filed

P1: Shantimoy Kar, Neelesh Kumar Mehra, Sachin Chandankar, Abesh Barman, Bhavana Valamla. A Marker Clip for The Identification of Tissue Abnormalities And Method Thereof". Indian Patent Application No. 202441101799. filed on December 23, 2024.

P2: Ekta Pardhi, Rahul Khemchandani, S Ganadhamu, Neelesh Kumar Mehra. Nanocrystal for the Bioavailability enhancement of androgen receptor inhibitor: Pharmaceutical composition and method thereof. **202541003359**.

Patents Granted

P1.Valamla B.; Panwar P.; Kumar A.; Thakor.; Singh SB.; Mehra NK.; (2020). Stable Pharmaceutical Composition of Ferulic Acid and Essential Oil Particulate Emulsified Systems and Method thereof. Indian Patent **202041049335** (Granted 06 Jan 2023).

P2.Pratik K Kharat.; Dalvi M.; Valamla B.; Thakor P.; Geetanjali.; Godugu C.; Singh SB.; Mehra NK.; (2020). Pharmaceutical Composition of Thymoquinone and Essential Oil Particulate Emulsified Systems and Method Thereof. Indian Patent: IN202041054610 Granted 09 March, 2023

P3. Srivastava V.; Nair V.S.; Yadav R.; Valamla B.; Rajana N.; Singh SB.; Mehra NK.; Enhanced Permeation and Pharmaceutical Composition of Carbonic Anhydrase Inhibitor Loaded Ultradeformable Bile Salts Stabilized Vesicular System. Indian Patent. 202341004305 (Granted Date August 04, 2023).

P4. Naveen Rajana, Yeruva Sri Pooja, Bhavana Valamla, Sandeep P Chary, Shashi Bala Singh, Neelesh Kumar Mehra. Pharmaceutical Composition of BCL-2 Inhibitor Loaded Self-Nano-Emulsifying Drug Delivery System for Cancer Therapy. Indian Patent 2023. Published Appl. No. 202341027783).

BOOKS EDITED/PUBLISHED

EB1: Dendrimers in Nanomedicine: Concept, Theory and Regulatory Perspectives. Publisher: CRC Press, UK. Editor(s) **Dr. Neelesh Kumar Mehra** & Dr. Keerti Jain. First Edition. 03 Feb, 2021. ISBN no.: 9780367466053.

EB2:Micro- and Nano-technologies: Concept, advancement and applications. Publisher: CRC Press, UK. Editor(s) **Dr. Neelesh Kumar Mehra** & Dr. Arvind Gulbake. First Edition. 2022.

EB3:Multifunctional Nanocarriers". Editor(s). **Dr. Neelesh Kumar Mehra**, Dr, Jitender Madan, Dr Saurabh Srivastava, Dr Pankaj Kumar Singh. Publisher: Elsevier Pvt. Ltd. First Edition. 2022.

EB4: Ophthalmic Drug Delivery: Advancement, Industrialization Prospect and Applications. **Dr. Neelesh Kumar Mehra**. Publisher: Elsevier Pvt. Ltd. Academic Press. First Edition. Aug. 01, 2025. ISBN 0443337829, 9780443337826.

EB5: Carbon Nanotubes Mediated Bioactives Delivery. Editor: **Dr. Neelesh Kumar Mehra & Prof. N.K. Jain.** Publisher: CRC Press, UK. 2025.

EB6: Complex Ophthalmic Dosage Form: Advancement, Future Perspectives and Biomedical Application. **Dr. Neelesh Kumar Mehra.** Publisher: Springer Pvt. Ltd. 2025.

EB7: Nanocrystal Technologies in Biomedical Sciences. **Dr. Neelesh Kumar Mehra.** Publisher: Springer Pvt. Ltd. 2025.



PEER REVIEWED PUBLICATIONS

h-index: 44; i-10 index: 87 (as on April, 2025) Total citation >5200

Cumulative impact factor >600 Note: *Indicate for corresponding author

1. Ekta Pardhi, Devendra Singh Tomar, Rahul Khemchandani, Vaibhavi Srivastava, Avinash Pawar, Rati Yadav, Divya Goud, Chandraiah Godugu, Gananadhamu Samanthula, **Neelesh Kumar Mehra***. Enhancing Solubility, Bioavailability and Anti-Cancer Efficacy of Aprepitant through a Naringin-Based Co-Amorphous System. *Journal of Molecular Liquids*. 2025; 425: 127225 (Impact factor 6.0).
2. Sitaram Jati#, Ekta Pardhi#, , Rahul Khemchandani, Ravindra Vasave, Pankaj Kumar Singh, Gananadhamu Samanthula, **Neelesh Kumar Mehra***. Enhanced Bioavailability and Therapeutic Efficacy of Ibrutinib and Naringenin-Loaded Self-Nanoemulsifying Drug Delivery System . *J Drug Deliv Science Technol*. 2025, In press (Impact Factor 4.5).
3. Samia Shaikh, Padakanti Sandeep Chary, **Neelesh Kumar Mehra***. Development and Evaluation of Nilotinib-loaded Bovine Serum Albumin Nanoparticles: In-Vitro and In-Silico Insights. *International Journal of Biological Macromolecules*. 2025; 308; 142185 (impact factor 7.7).
4. Naveen Rajana, Lakshmi Tulasi Narahariseti, Nalla Usha Kumari, Ravindra Vasave, Sri Pada Datta Chigurupati, Anamika Sharma, Chandraiah Godugu, **Neelesh Kumar Mehra***. Fabrication and Characterization of Teriflunomide-loaded Chondroitin Sulfate Hybridized Zein Nanoparticles for the Management of Triple Negative Breast Cancer. *Int Journal of Biological Macromolecules*. 2025; 300:140316(impact factor 7.7).
5. Samia Shaikh, Padakanti Sandeep Chary, **Neelesh Kumar Mehra***. Tyrosine Kinase Inhibitor Lenvatinib based Nano Formulations and Cutting-Edge Scale-Up Technologies in revolutionizing Cancer Therapy. *ACS Appl. Bio Mater*. 2025, 8, 3, 1749–1784 2025. (Impact factor 4.7).
6. Rahul Khemchandani, Ekta Pardhi, Sridivya Goud, Devendra Singh Tomar, Pravin Medtiya, Bhoopendra Singh Khushwaha, Vivek Dhiman, Vijaya Madhyanapu Golla, Nadeem Shaikh, Chandraiah Godugu, **Neelesh Kumar Mehra**, Gananadhamu Samanthula. Multi-method coamorphous systems of lumefantrine with alpha ketoglutaric acid: Comprehensive characterization, biological evaluation and stability analysis. *International Journal of Pharmaceutics*. 2025; 669: 125056, doi: <https://doi.org/10.1016/j.ijpharm.2024.125056>. (Impact factor 5.5).
7. Padakanti Sandeep Chary, Urati Anuradha, Shaikh Samia, Rati Yadav, Valmala Bhavana, Naveen Rajana, **Neelesh Kumar Mehra***. Nanotechnology-Enabled Approaches for Combating Diabetic Foot Ulcer. *Journal of Drug Delivery Science and Technology*. 2025; 105:106593,(Impact factor 5.062).
8. Vijaya Madhyanapu Golla, Padakanti Sandeep Chary, Dhanavath Dattu Nai, Pushpa Pilli, Hema Sree Kommalapati, Aman Ramteke, **Neelesh Kumar Mehra** Gananadhamu Samanthu. Separation, Identification, and Characterization of Transformation Products Related to Relugolix Upon Subjecting to In Vitro Gastrointestinal Fluids Utilizing Liquid Chromatography, Mass Spectrometry, and Nuclear Magnetic Resonance Spectroscopy. *Separation Science Plus*.2025; 8(1): e202400195 (Impact factor 1.9).
9. Samia Shaikh, Padakanti Sandeep Chary, Neelesh Kumar Mehra*. Nano-Interventions for Dengue: A Comprehensive Review of Control, Detection and Treatment Strategies. *Inflammopharmacology*. 2025;33:979–1011 (impact factor 4.6).
10. Nalla Usha kumari, Ekta pardhi, Jitender Madan, Pankaj Kumar Singh, **Neelesh Kumar Mehra**. Non-vesicular nanocarriers for Breast cancer management: current advances, challenges, and future perspective. *International Journal of*

Polymeric Materials and Polymeric Biomaterials. 2025. 74(5): 424-444 doi:
<https://doi.org/10.1080/00914037.2024.2338135> (Impact factor 3.2)

11. Rushikesh K. Patil, Vaibhavi Srivastava, Rohit Bhawale, Kamatham Pushpa Tryphena, Dharmendra Kumar Khatri, Nandkumar Doijad, **Neelesh Kumar Mehra***. Revamping the Corneal Permeability and Anti-glaucoma Potential of Brinzolamide Loaded Transniosomes: Optimization, In vitro and Pre-clinical Studies. *Future Medicine*. 2024;19(11):947-964 Impact factor 5.5.
12. Urati Anuradha, Valamla Bhavana, Padakanti Sandeep Chary, Naveen Rajana, Kishan Kumar Parida, Nitin Pal Kalia, Dharmendra Kumar Khatri, **Neelesh Kumar Mehra***. Thymoquinone loaded nanoemulgel in streptozotocin induced diabetic wound. *Nanomedicine*. 2024; 19(30): 2577-2604.(Impact factor 4.5).
13. Anuradha Urati, Valamla Bhavana, Padakanti Sandeep Chary, Nitin Pal Kalia, **Neelesh Kumar Mehra***. Exploration of the Topical Nanoemulgel bearing the with Ferulic Acid and Essential oil for Diabetic Wound Healing. *Pathophysiology*. 2024. **2024**, 31(4), 680-698 (Impact actor 2.5).
14. Aishwarya Mammella, Valamla Bhavana, Padakanti Sandeep Chary, Urati Anuradha, **Neelesh Kumar Mehra***. Modulation of Chondroprotective Hyaluronic acid and poloxamer gel with Ketoprofen loaded transethosomes: Quality by Design-based Optimization, Characterization, and Preclinical Investigations in Osteoarthritis. *International Journal of Biological Macromolecules*. 2024; 280 (4): 135919 (impact factor 7.7).
15. Vaibhavi Srivastava, Rushikesh K. Patil, **Neelesh Kumar Mehra***. A One-Platform Comparison Study of Brinzolamide-loaded Liposomes, Niosomes, Transfersomes, and Transniosomes for Better Management of Glaucoma. *International Journal of Pharmaceutics*. 2024; 666:124741 (impact factor 6.5).
16. Omar Khan, Rohit Bhawale, Ravindra Vasave, **Neelesh Kumar Mehra***. Ionic liquids-based formulation approaches for enhanced transmucosal drug delivery. *Drug Discovery Today*. 2024; 29(9): 104109 (impact factor 8.2).
17. Padakanti Sandeep Chary†, Samia Shaikh†, Valmala Bhavana, Naveen Rajana, Ravindra Vasave, **Neelesh Kumar Mehra.*** Emerging role of nanocrystals in pharmaceutical applications: A review of regulatory aspects and drug development process. *Applied Material Today*. 2024; 40: 102334 (impact factor 7.2).
18. Arti Shettiwar, Ujala Gupta, Priti Paul, Rahul Nair, Mayur Aalhate, Srushti Mahajan, Indrani Maji, Santosh Kumar Guru, **Neelesh Kumar Mehra**, Pankaj Kumar Singh. Oral linalool-based nanoemulsion of acalabrutinib for ameliorating its oral bioavailability and in vitro anticancer potential in T lymphoblast cell lines. *Colloids and Polymer science*. 2024; 302: 1491-1511 (Impact factor 2.2).
19. Padakanti Sandeep Chary, Samia Shaikh, Naveen Rajana, Valamla Bhavana, **Neelesh Kumar Mehra**. Unlocking Nature's Arsenal: Nanotechnology for Targeted Delivery of Venom Toxins in Cancer Therapy. *Biomaterials Advance*. 2024;162: 213903. <https://doi.org/10.1016/j.bioadv.2024.213903> (impact factor 8.0)
20. Atul Mourya, Shristi Arya, Ayush Singh, Gopal Bajad, Soham Loharkar, Shubhra, Pawan Devangan, **Neelesh Kumar Mehra**, Rahul Shukla, Ramesh Chandra, Jitender Madan. Gold Nanoparticles as a tool to detect biomarkers in osteoarthritis: New Insights. *Indi J Microbiol*. 2024. <https://doi.org/10.1007/s12088-024-01331-5> impact factor 3.0.
21. Priti Paul, Harithasree Veerabomma, Ujala Gupta, Divya Atram, Pankaj Kumar Singh, **Neelesh Kumar Mehra**, Chandraiah Godugu, Ashish Baldi, Jitender Madan. Implication of colloidal therapeutics in the treatment of vitiligo: Portray of signaling cascade, current drug-targets and preclinical and clinical evidences. *Journal of Drug Delivery Science and Technology*. 2024, 105666, <https://doi.org/10.1016/j.jddst.2024.105666>. (Impact factor 5.062).

22. Padakanti Sandeep Chary, Ankush Bansode, Naveen Rajana, Valmala Bhavana, Siva Singothu, Anamika Sharma, Santosh Kumar Guru, Vasundhra Bhandari, **Neelesh Kumar Mehra**. Enhancing Breast Cancer Treatment: Comprehensive Study of Gefitinib-Loaded Poloxamer 407/TPGS Mixed Micelles through Design, Development, In-Silico Modelling, In-Vitro Testing, and Ex-Vivo Characterization. *International Journal of Pharmaceutics*. 2024. 657: 124109. doi: <https://doi.org/10.1016/j.ijpharm.2024.124109> Impact factor 6.51.
23. Rachana Yadav, Srushti Mahajan, Hoshiyar Singh, **Neelesh Kumar Mehra**, Jitender Madan, Nandkumar Doijad, Pankaj Kumar Singh, Santosh Kumar Guru. Emerging In Vitro and In Vivo Models: Hope for the Better Understanding of Cancer Progression and Treatment. *Review Adv Biol (Weinh)*. 2024 Apr 5:e2300487. doi: 10.1002/adbi.202300487. Impact factor 7.3.
24. Nalla Usha Kumari,, Padakanti Sandeep Chary, Ekta Pardhi, **Neelesh Kumar Mehra**. Tailoring Micellar Nanocarriers for Pemetrexed in Breast Cancer: Design, Fabrication, and *In Vitro* Evaluation. *Future Medicine*. 2024. doi: <https://doi.org/10.2217/nnm-2024-0013> Impact factor 5.5.
25. Vaibhavi Srivastava, Ekta R. Pardhi, Rati Yadav, Vivek Singh, Dharmendra Khatri, **Neelesh Kumar Mehra**. QbD- driven Thymoquinone Laden Nanoemulsion for Glaucoma Management: in vitro, ex vivo, and pre-clinical evaluation. *Journal of Drug Delivery Science and Technology*. 2024; 94: 105493 doi: <https://doi.org/10.1016/j.jddst.2024.105493> in press (Impact factor 5.062).
26. Shaikh Samia, Padakanti Sandeep Chary, Omar Khan, **Neelesh Kumar Mehra**. Recent Trends and Advances in Novel Formulations as an armament in Bcl2/Bax Targeted Breast Cancer. *International Journal of Pharmaceutics*. 2024; 653:123889; doi: <https://doi.org/10.1016/j.ijpharm.2024.123889>. Impact factor 6.51.
27. Ekta Pardhi, Devendra Singh Tomar, Rahul Khemchandani, Mohd Rabi Bazaz, Manoj P. Dandekar, Gananadhamu Samanthula, Shashi Bala Singh, **Neelesh Kumar Mehra**. Monophasic Coamorphous Sulpiride: A Leap in Physicochemical Attributes and Dual Inhibition of GlyT1 and P-glycoprotein, Supported by Computational and Experimental Insights. *Journal of Biomolecular Structure and Dynamics*. 2024 Feb 1:1-30. doi: 10.1080/07391102.2024.2308048 (Impact factor 4.4).
28. Baddipadige Raju, Gera Narendra, Himanshu Verma, Manoj Kumar, Bharti Sapra, Gurleen Kaur, Subheet Kumar Jain, Padakanti Sandeep Chary, Neelesh Kumar Mehra, Om Silakari. Scaffold hopping for designing of potent and selective CYP1B1 inhibitors to overcome docetaxel resistance: synthesis and evaluation. *Journal of Biomolecular Structure and Dynamics*. 2024, IN press. (Impact factor 4.4).
29. Ekta Pardhi, Yojana Bhora, Pankaj Kumar Singh, Neelesh Kumar Mehra. An Apprise on Novel Drug Delivery Systems for Management of Diabetes Mellitus. *Journal of Drug Delivery Science & Technology*. 2024;94: 105473. Doi: <https://doi.org/10.1016/j.jddst.2024.105473> (Impact factor 5.062).
30. Rati Yadav, Rohit Bhawale, Vaibhavi, Ekta Pardhi, **Neelesh Kumar Mehra**. Current Trends and Future Perspectives of Irinotecan Nanomedicines: A Stepping Stone in the Safe Treatment of Colorectal Cancer. *AAPS PharmSciTech*. 2024 (Impact factor 3.4).

31. Ekta Pardhi, Ravindra Vasave, Vaibhavi Srivastava, Rati Yadav, **Neelesh Kumar Mehra**. Nanocrystals technologies in biomedical science: bench to beside the clinic. *Drug Discovery Today*. 2024. In press. (Impact factor 8.32).
32. Bhavana Valamla, Sandeep Chary, Naveen Rajana, Anuradha Urati, Geetanjali Devabattula, Shashikanta Sau, Chandraiah Godugu, Nitin Pal Kalia, **Neelesh Kumar Mehra**. Multifunctional Wound Curation Dressing Material FemuFrost- An antioxidant Loaded Nanoemulsion Frosted Patch of Polyvinyl Alcohol and Hyaluronic Acid. *ACS Appl. Bio Mater.* 2024, 7, 2, 1028–1040. Doi: <https://doi.org/10.1021/acsabm.3c00996>. impact factor 4.2.
33. Smalant Kishor Patil, Padakanti Sandeep Chary, Sarvan Maddipatla, Y.V. Madhavi, Siva Singothu, Vasundhra Bhandari, Ekta Pardhi, Kuldeep Kumar Bansal, Neelesh Kumar Mehra. Development of Venetoclax with 2-Hydroxypropyl-Beta-Cyclodextrin inclusion complex for improved bioavailability. *Journal of Biomolecular Structure and Dynamics*. 2024:1-18 doi: 10.1080/07391102.2024.2305695. (Impact factor 4.4).
34. Nalla Usha Kumari, Ekta Pardhi, Padakanti Sandeep Chary, **Neelesh Kumar Mehra**. Exploring Contemporary Breakthroughs in Utilizing Vesicular Nanocarriers for Breast Cancer Therapy. *Therapeutic Delivery*. 2024. In press (Impact factor 4.2).
35. Naveen Rajana, Padakanti Sandeep Chary, Valamla Bhavana, Rajeshwari Deshmukh, Komalatha Dukka, Anamika Sharma, Neelesh Kumar Mehra. Targeted Delivery and Apoptosis Induction of CDK-4/6 inhibitor Loaded Folic Acid Decorated Lipid-Polymer Hybrid Nanoparticles in Breast Cancer cells *International Journal of Pharmaceutics*. 2024;:651:123787. doi: 10.1016/j.ijpharm.2024.123787. Impact factor 6.51.
36. Urati Anuradh, **Neelesh Kumar Mehra**, Dharmendra Kumar Khatri. Understanding molecular mechanisms and miRNA-based targets in diabetes foot ulcers. *Molecular Biology Reports* (2024) 51:82 <https://doi.org/10.1007/s11033-023-09074-0>. Impact factor 2.8.
37. Samiksha Thote, Priyanka Gorella, Shristi Arya, Atul Mourya, Pawan Dewangan, Vaskuri G.S. Sainaga Jyothi, Chantibabu Katta, Shashi Bala Singh, **Neelesh Kumar Mehra**, Jitender Madan. Synergy between cyclooxygenase-2 inhibitors and hyaluronic acid in the treatment of osteoarthritis: Illumination of signaling cascade, nanotechnology-driven delivery strategies and future prospects. *J Drug Deliv Sci Technol*. 2024;92: 105380 (Impact factor 5.062).
38. Ekta Pardhi, Devendra Singh Tomar, Rahul Khemchandani, Gananadhamu Samanthula, Pankaj Kumar Singh, **Neelesh Kumar Mehra***. Design, Development and Characterization of the Apremilast and Indomethacin Coamorphous system. *Journal of Molecular Structure*. 2023, 137045, ISSN 0022-2860, <https://doi.org/10.1016/j.molstruc.2023.137045>. (Impact factor 3.8).
39. Yeruva Sri Pooja 1, Naveen Rajana1, Rati Yadav1, Tulasi, Chandraiah Godugu, **Neelesh Kumar Mehra***. Design, Development, and Evaluation of CDK-4/6 inhibitor loaded 4-carboxy phenyl boronic acid conjugated pH-sensitive chitosan lecithin nanoparticles in the management of Breast cancer. *Int. J. Biol. Macromolecules*. 2024: 258 part 1: 128821 (Impact factor 8.2).
40. P. Jayapriya, Ekta Pardhi, Ravindr Vasave, Santosh Kumar Guru, Jitender Madan, **Neelesh Kumar Mehra***. A review on Stimuli-pH responsive liposomal

formulation in cancer therapy. *J Drug Deliv Sci Technol.* 2023. 90, 101572 (Impact factor 5.062).

41. Rati Yadav, Rohit Bhawale, Deepak N. Kapoor, Shashi Bala Singh, **Neelesh Kumar Mehra***. Experimental design approach for Development of Carboplatin Loaded Chitosan Modified Liposomal formulation with Improved topical vaginal Therapeutic Potential. *Pharmaceutical Development and Industrial technology.* 2024 29(1):1-12. doi: 10.1080/10837450.2023.2289133 In press (Impact factor 3.4).
42. Naveen Rajana, Yeruva Sri Pooja, Valamla Bhavana, Padakanti Sandeep Chary, Komalatha Dukka, Rajeshwari Deshmukh, **Neelesh Kumar Mehra***. Design of Experiment-oriented Development and Validation of Novel Bioanalytical RP-HPLC Method of Palbociclib in Rat Plasma and Tissues, its Application in Pharmacokinetic Studies. *Biomedical Chromatography.* 2024; 38(4):e5815. doi: 10.1002/bmc.5815. (impact factor 1.7).
43. Yirivinti Hayagreeva Dinakar, Naveen Rajana, Vikas Jain, **Neelesh Kumar Mehra***. Recent Advances of Multifunctional PLGA Nanocarriers in the Management of Triple-Negative Breast Cancer. *AAPS PharmSciTech.* 2023; 24:258 (Impact factor 3.4).
44. Vishnumaya S Nair, Vaibhavi Srivastava, Naveen Rajana, Valamla Bhavana, Rati Yadav, Shashi Bala Singh, **Neelesh Kumar Mehra***. Exploring Penetration Ability of Carbonic Anhydrase Inhibitor Loaded Ultradeformable Bilosome for Effective Ocular Application. *AAPS PharmSciTech.* 2023; in press 10.1208/s12249-023-02617-5 (Impact factor 4.026).
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10. Rahul Gauro, Vineet Kumar Jain, Harvinder Popli, **Neelesh Kumar Mehra**, Keerti Jain. Macromolecular Architecture and Molecular Modeling of Dendrimers. In Edited book Dendrimers Nanomedicine: Concept, Theory and Regulatory Perspectives. CRC Press, UK, 2021, Editor(s): Dr. Neelesh Mehra and Dr. Keerti Jain(Published).

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12. Satish Shilpi, Kapil Khatri, Umesh Dhakad, **Neelesh Kumar Mehra**, and Arvind Gulbake Resealed Erythrocytes: A biological carrier for drug delivery. Micro and Nanotechnologies Based Product Development. Ed. Mehra NK, Gulbake A. CRC Press, UK. 2021(Published)
13. Anamika Sahu Gulbake, Ankit gaur, Aviral Jain, **Neelesh Kumar Mehra**, Satish Shilpi, and Arvind Gulbake. Multifunctional carbon nanotubes in Drug Delivery. Micro and Nanotechnologies Based Product Development. Ed. Mehra NK, Gulbake A. CRC Press, UK. 2021. (Published).
14. Satish Shilpi, Umesh Dhakad, Rajkumari Lodhi, Sonal Dixit, **Neelesh Kumar Mehra**, Kapil Khatri. Role of Polymers in Formulation Design and Drug Delivery. Micro and Nanotechnologies Based Product Development. Ed. Mehra NK, Gulbake A. CRC Press, UK. 2021. (Published)
15. Arvind Gulbake, Ankit Gaur, Anamika Sahu, and **Neelesh Kumar Mehra**. Validation, Scale up and Technology Transfer in Product Development. Micro and Nanotechnologies Based Product Development. Ed. Mehra NK, Gulbake A. CRC Press, UK. 2021. (Published)
16. Sonali Batra, Sumit Sharma, **Neelesh Kumar Mehra**. Carbon nanotubes for Drug Delivery Applications. Handbook of Carbon Nanotubes Edited by J Abraham et al., Springer Nature, Switzerland. 2021 In press.
17. Bhavana, V.; Chary, S.; Rajana, N, **Neelesh Kumar Mehra***. Nanomedicine for targeting breast cancer stem cells. Targeted Nanomedicine for Breast Cancer Therapy. 2021 Editor(s): Dr Shivani Rai Paliwal & Dr Rishi paliwal. 2022; 281-301. ISBN: 0128244763, 9780128244760.
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20. Harsha Jain, Harshita Dalvi, Aditi Bhat, Aashruti Agrawal, Jitender Madan, Pankaj Kumar Singh, **Neelesh Kumar Mehra**, Saurabh Srivastava^{*} Nanomaterials in Nose to Brain Delivery: A Synergistic Breakthrough in Meeting the Unmet. Edited Book "Multifunctional nanocarriers" Elsevier Pvt. Ltd. 2022.
21. Indrani Maji[#], Srushti Mahajan, anitha Sriram, **Neelesh Kumar Mehra**, Saurabh Srivastava, Jitender Madan, Shashi Bala Singh, ^{*}Pankaj Kumar Singh^{*} Nanotoxicology: Toxicity and Safety Issue of Nanoparticles. 1st Edition. Ed Book. Multifunctional nanocarriers. 2022. ISBN 9780323852944. In press

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24. Indrani Maji#, Srushti Mahajan#, Anitha Sriram, **Neelesh Kumar Mehra** and Pankaj Kumar Singh. Polymeric Nanomaterials for therapeutic applications. Edited Book Nanomaterials-based Drug Delivery Systems-Pharmaceutical, Biomedical and Biotechnological Applications. Editor CV Pardeshi Springer Pvt Ltd. In press. 2023 First Edition: 33-64.
25. Srushti Mahajan#, Indrani Maji#, **Neelesh Kumar Mehra** and Pankaj Kumar Singh*. Vesicular Nanomaterials for therapeutic applications. Edited Book Nanomaterials-based Drug Delivery Systems-Pharmaceutical, Biomedical and Biotechnological Applications. Editor CV Pardeshi Springer Pvt Ltd. In press. 2023 First Edition: 99-145.
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33. Padakanti Sandeep Chary, Valamla Bhavana, Naveen Rajana, Shashi Bala Singh, **Neelesh Kumar Mehra**. Commercialized Nano-Biosystems: An Overview. 2025. In Press.
34. Rohit Bhawale, Vaibhavi Srivastava, Neelesh Kumar Mehra. Advances in Ophthalmic Formulation Development. Springer Pvt Ltd. 2025. K. Jain, A. K. Yadav (eds.), Advances in Pharmaceutical Product Development, https://doi.org/10.1007/978-981-97-9230-6_12.
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40. Soyal Sayyed, Saptarshee Bhattacharjee, Jitendra Kumar, Abhijeet Chinchane, Pankaj Kumar, Sagar Kulkarni, Shubham Gajdhane, Roshani Jaiswal, Atreyee Bhattacharyya, Spandana Gollapalli, Pawan Devangan, Anju Katyal, Snigdha Singh, Ramesh Chandra, Neelesh Kumar Mehra, Jitender Madan. Carbon nanotubes (CNTs) fundamental and physicochemical properties. Carbon Nanotubes Mediated Bioactive Delivery. Editor. N.K. Mehra & N.K. Jain. CRC Press. 2025.
41. Sumedh Bahadure, Omar Khan, **Neelesh Kumar Mehra***. Synthesis and Critical Characterization Aspects of Carbon Nanotubes. Carbon Nanotubes Mediated Bioactive Delivery. Editor. N.K. Mehra & N.K. Jain. CRC Press. 2025.
42. Nalla Usha kumari, Chigurupati Sri Pada Datta, Naveen Rajana, Jitender Madan, and **Neelesh Kumar Mehra***. Hybrid Carbon Nanotubes: A New Approach in Biopharmaceuticals. Carbon Nanotubes Mediated Bioactive Delivery. Editor. N.K. Mehra & N.K. Jain. CRC Press. 2025.

43. Sri Pada Datta Chigurupati, Rohit Bhawale, Nalla Usha Kumari, **Neelesh Kumar Mehra***. Cellular Trafficking Mechanism of Carbon Nanotubes in Drug Delivery. Carbon Nanotubes Mediated Bioactive Delivery. Editor. N.K. Mehra & N.K. Jain. CRC Press. 2025.
44. Vaibhavi Srivastava, Neelesh Kumar Mehra*. Chapter 1: Introduction to Ocular Drug Delivery: Core Principles and Fundamental Concepts. Ophthalmic Drug Delivery: Advancement, Industrialization Prospect and Applications. Edited by Dr. Neelesh Kumar Mehra. Elsevier Pvt Ltd. 2025 first edition. ISBN ISBN: 9780443337819.
45. Rameshroo Kenwat, Vijay Kumar Singh, Shivani Rai Paliwal, Vaibhavi Sriavastava, **Neelesh Kumar Mehra**, Rishi Paliwal. CHAPTER 6: Reverse Engineering Strategy in Complex Ophthalmic Product. Ophthalmic Drug Delivery: Advancement, Industrialization Prospect and Applications. Edited by Dr. Neelesh Kumar Mehra. Elsevier Pvt Ltd. 2025 first edition. ISBN ISBN: 9780443337819.
46. Omar Khan#, Rohit Bhawale#, Kshitiz Luthra, Vaibhavi Sriavstava, Vivek Gupta, Kuldeep Bansal, **Neelesh Kumar Mehra***. Chapter 1: Ocular drug delivery: Introduction and fundamental concept. Complex Ophthalmic Dosage Form: Advancement, Future Perspectives and Biomedical Application. Edited by: Dr. Neelesh Kumar Mehra. Publisher: Springer Pvt Ltd. 2025. First Edition.

AWARDS AND ACHIEVEMENTS

1. Received “**ICMR Shakuntala Amir Chand Award**” for the year 2021 from Indian Council of Medical Research (ICMR), New Delhi in the drug discovery in clinical research.



ICMR-SHAKUNTALA AMIR CHAND PRIZE

**2020
CITATION**



DR. NEELESH KUMAR MEHRA

ICMR-Shakuntala Amir Chand Prize was instituted in 1953 by (Late) Major General Amir Chand for significant research contribution by young scientists in biomedical sciences. This prize is awarded for the best published research work on any subject in the field of biomedical science including clinical research. The award for the year 2020 is being presented to Dr. Neelesh Kumar Mehra, Assistant Professor, Department of Pharmaceutics, National Institute of Pharmaceutical Education & Research (NIPER), Hyderabad, Telangana, for the research work in the field of "Biomedical Sciences including Clinical Research"

Dr. Mehra has explored the targeted drug delivery systems for the effective management of the Breast Cancer including topical nano-formulations for selective delivery of bioactive(s) to the target site(s) or the right cells/tissue in a controlled and sustained manner.



2. Received **"TEAM AWARD"** for Complex Brinzolamide Ophthalmic Suspension 1% Product (Brinex M), Russia Launch on time, from Sentiss Pharma Pvt. Ltd, Gurgaon July, 19, 2019.



3. Prof M.L. Schroff Pharma Recognition Award from Pharma team Lok in 2023 for excellent contribution in pharmaceutical Sciences disciplines.
4. Department of Science and Technology, New Delhi awarded travel grant award to participate in International conference on Bioencapsulation at Amboise, Paris, France 2011.
5. **Best Poster Presentation Award** on a National Seminar Targeting of Bioactives for Therapeutics Benefits at Adina Institute of Pharmaceutical Sciences, Sagar Dated March 09, 2014.
6. **“Best Poster Presentation Award** in Bioengineering and Nanotechnology (BEN) discipline in the Frontier Discoveries and Emerging Opportunities in Life Sciences (FDEOLS-2014) at Department of Biotechnology, Dr. H. S. Gour University, Sagar, 2014, 13-15 Feb.
7. **International Young Scientist Award** at 2nd International Science Congress Association held at Bon Maharaj Engineering College, Vrindavan Mathura Dated 8-9 December 2012.
8. **Best Poster Presentation Award** at Lakshmi Narain College of Pharmacy, LNCP, Bhopal
9. **Best Poster Presentation Award** at Indian Pharmaceutical Association (IPA) Indore by Prof. S. N. Sharma at Devi Ahilya Bai University, Indore INDIA 17 February 2013.
10. **Young Scientist Award** DBT sponsored National Seminar on Advances in Molecular Pharmaceutics, Nanomedicine, Nanobiotechnology and Drug Research, at Columbia Institute of Pharmacy, Raipur CG INDIA Dated 17th March 2013.

PhD RESEARCH SCHOLAR

S No.	Name of the PhD Scholar	Reg. No.	Status
01	Dr. Bahvana Valamla	PE-PHD-2019-303	Awarded
02	Dr. Naveen Rajana	PE-PHD-2020-308	Awarded
03	Dr. Padakanti Sandeep Chary	PE-PHD-2020-306	Awarded
04	Ms. Anuradha Urati	PE-PHD-2021-305	Thesis submitted
05	Ms. Vaibhavi Sriavstava	PE-PHD-2021/01-EMR	Thesis submitted
06	Mr. Avinash Panwar	PE-PHD-2021-307	Running
07	Ms Ekta Pardhi	PE-PHD-2021-305	Running
08	Ms. Rati Yadav	PE-PHD-2021/DST-IF/301	Running
09	Mr. Rohit Bhawale	PE-PHD-2022-301	Running
10	Mr. Ravindra Vasave	PE-PHD-2022-312	Running
11	Mr. Omar Khan	PE-PHD-2022-307	Running
12	Mr. Sumedh bahadure	PE-PHD-2023-301	Running
13	Mr. ChigurapdiDutta	PE-PHD-2023-304	Running
14	Ms. Nalla usha Kumari	PE-PHD-2023-307	Running
15	Mr. Kshitij	PE-PHD/2024-301EMR	Running

MASTER (M.S.) STUDENTS SUPERVISION

S. No.	Name of Students	Title of Thesis
01	Ms. Neha Bajwa	Targeted anticancer drug delivery through anthracycline antibiotic bearing functionalized quantum dots
02	Ms. Sonam Sharma	
03	Ms. Priyanka Sharma	Ex vivo and in vivo performance of anti-cancer drug loaded carbon nanotubes
04	Ms Sumandeep Kaur	Development and Evaluation of Targeting Ligand Anchored CNTs as Prospective Targeted Drug Delivery System.
Batch 2018-2020		
05	Miss Deepa Nakmode Reg.no. PE/2018/310	To Evaluate The Impact Of Different Pharmaceutical Binders on Sustained Release Matrices of Compritol® 888 ATO.
06	Miss Pratheeksha KR Reg. no. PE/2018/311	Optimization of suspension formulation of bcs class ii drug using design of experiments.
07	Miss Arpita Bairagi Reg. no. PE/2018/305	Formulation and Characterization of Inhalable Liposomes for The Treatment of Asthma.

Batch 2019-2021		
08	Mr. Ankaj Kumar Reg. No. PE/2019/303	Development and Evaluation of Nanocrystals Loaded Hydrogel for Topical Application of Repurposed Drug
09	Ms. Mayuri Dalvi Reg. No. Reg. No. PE/2019/308	Development and Evaluation of Cubosomes for Topical Drug Delivery
10	Mr. Pratik K Kharat Reg. No. PE/2019/313	Formulation and Evaluation of Essential Oil based Nanoemulsion Loaded Gel for Effective Treatment of Psoriasis
11	Mr. Dilip M. Panwar Reg. No. PE/2019/316	Design, Development and Evaluation of Hyaluronic Acid modified nanocrystals for Acute Myeloid leukemia
12	Ms. Rashmi R Phushe Reg. No. PE/2019/319	Preparation and Characterization of BCL-2 Protein Inhibitor loaded Liposomal Formulation using Thin Film Hydration method
13	Ms. Mounika Aare Reg. No. PE/2020/301	Development and Evaluation of the Surface Modified PLGA Nanoparticles for Effective Cancer Therapy
Batch 2020-2022		
14	Vaishnavi A. Bhosale Reg. No. PE/2020/305	Development and evaluation of modified nanoparticles for fungal keratitis
15	Suooyg Mhetre Reg No. PE/2020/313	Development and Evaluation of the Long-acting nanoformulation for the Endometriosis.
16	Smalant K Patil Reg. No. PE/2020/317	Design, development and characterization of bcl-2 inhibitor loaded cyclodextrin complex
17	Visnumaya S. Nair Reg. No. PE/2020/327	Development and evaluation of brinzolamide loaded ultradeformable bilosomes for glaucoma therapy
18	Safiya Sultana Reg. No. PE/2020/322	Development and Evaluation of Proteins Stabilized Emulsion for Topical application
Batch 2021-2023		
19	Ms Kavi (Intern)	Development and evaluation of novel formulation for ocular delivery
20	Pooja Reddy Reg. No. PE/2021/327	Design, Development, and Evaluation of CDK 4/6 Inhibitor Loaded Ligand Conjugated Stimuli Responsive Hybrid Nanoparticles for the Treatment of Breast Cancer
21	Nalla Usha Kumari Reg No. PE/2020/312	Design, Development, and Characterization of Antimetabolite Loaded Nano-Formulation for Cancer Therapy
22	Rushikesh Patila Reg. No. PE/2020/314	Formulation, Development, and Evaluation of Transniosomes for Effective Treatment of Glaucoma
23	Ms. Aishwarya Reg. No. PE/2021/309	Design, Development and Evaluation of NSAID-loaded fatty acid vesicles for osteoarthritis
24	JayaPriya P Reg. No. PE/2020/307	Formulation Development and Optimization of Immediate Release Tablet Using Novel Polymorphic Form of A Model Drug
25	Aarti Shettiwar	Design and development of Oil based nanocarrier for improved oral delivery of Acalabrutinib for treatment of Mantle cell lymphoma and Chronic lymphocytic leukemia
26	Priyam Thakur (intern)	Development, Optimization & Characterization of Polymeric Mixed Micelles for the Treatment of Glioblastoma
Batch 2022-2024		
27	Komlatha Dukka PE/2022/309	Design, Development and Evaluation of BCL-2 Inhibitor Loaded Stimuli Responsive Surface modified Hybrid Nanoparticles for Effective Management of Breast Cancer
28	Rajeshwari Deshmukh PE/2022/303	Surface Modified Dual Stimuli Responsive Dual Drug Loaded Core-Shell-Shell Hybrid Nanoparticles for Breast Cancer treatment
29	Busiraju Manisha PE/2022/302	Development of Transferosomes Loaded Scaffold For The Treatment Of Breast Cancer
30	Sonawane Pankaj Prakash PE/2022/320	Development and Evaluation of Mixed Micellogel Platform for Co-delivery of Anti-cancer and Anti-inflammatory Drugs for Ocular Delivery
31	Sitaram Jati PE/2022/319	Development of Self-Nano Emulsifying Drug Delivery Systems for the Co-Administration of Cytotoxic Drugs with Nutraceutical Agent for the Treatment of Breast Cancer
32	Shaikh Samia Sultana	Design Development And Evaluation of Multi-Tyrosine Kinase Inhibitor Loaded

	Shanavass PE/2022/316	Nanoparticles
33	Kashish Joshi (intern)	---
Batch 2023-205		
34	Ayushi Pandey PE/2023/301	TBD
35	Kunal Pandey PE/2023/310	TBD
36	Sanskriti Sarode PE/2023/319	TBD
37	Pallavi Kumari PE/2023/313	TBD
38	Ruchita Patil PE/2023/315	TBD

KEYNOTE SPEAKER/WEBINAR DELIVERED

Year 2025

- Invited speaker on titled “Novel formulation for Ocular Disorder” in the Future is Here: Part organized by LV Prasad Eye Institute (LVPEI), Hyderabad dated 10-12 January, 2025.
- Invited speaker and giving talk on “Research Paper Writing in Pharmaceutical Sciences” in a Faculty Development Program “Transforming Pharmacy Education with Emerging technologies” organized by Dattakala College of Pharmacy, Bhigwan, Pune, Maharashtra Dated on 26th March, 2025.
- Attended and presented research work in Current Trends in Drug Discovery Research (CTDDR-2025)”, which will be organized by CSIR-Central Drug Research Institute, Lucknow on February 22-23, 2025.

Year 2024

- Resource person/Expert speaker on titled “Advancing in Cancer Nanomedicine: Product Development” in the National Conference on “Recent Advances & Innovation in Drug Discovery to Drug Discovery and Drug Product Development Stages” Organized by Indo-American School of Pharmacy, Narasaropet, Andhra Pradesh, India Dates Date 12 February, 2024.
- Resource person/Expert speaker on titled “Advancing in Nanomedicine: Product Development” organized by College of Pharmaceutical Sciences, Dr. Dayananda Sagar University, Bengaluru dated March, 15, 2024.
- Speaker on titled “Ophthalmic Product Development: From Bench to Bedside” in the UGC Sponsored National Seminar on “Contemporary Strategies in Drug Product Design, Research, and Development” Organized by University College of Pharmaceutical Sciences, Acharya Nagarjun University, Nagarjuna Nagar, Guntur, Andhra Pradesh Dated 15 the February,
- Speaker on titled “Ophthalmic Product Development: From Bench to Bedside” in the One Day National Seminar on Innovative Strategies in Drug Design for Infectious

Disease at Organized by Rungta College of Pharmaceutical Sciences, Raipur, Chhattisgarh, Raipur, India Dated 20 February, 2024.

YEAR 2023

- ❑ Expert speaker on titled “Nanomedicines in Ophthalmic” in the workshop on in Aegis of IQAC-ISFCP organized by ISF College of Pharmacy, Moga, Punjab Dates Date June 13, 2023.
- ❑ Keynote speaker in workshop entitled “Exploration of In-silico approach in Formulation Development” in the workshop on In-Silico Formulation Development & ADMET Profiling of New Delhi APTI organized by DBT-Bioinformatics Centre, Department of Pharmaceutical Sciences and Drug Research at Punjabi University, Patiala. Date Feb 28, 2023.

YEAR 2022

- ❑ Keynote speaker on title “Complex Ophthalmic Product Development” Faculty Development program at Department of Pharmacy, Indira Gandhi National Technical University (IGNTU), Amarkantak, India Dated April, 12, 2022.
- ❑ Keynote speaker on title “An overview of Product Development” at one-day international webinar at Parul University, Vadodara, India Dated June, 06 2022.
- ❑ Keynote speaker on title “Nanoenabled complex Product Development” at High End Workshop (Karyashala) on Solid State Characterization of Pharmaceutical Theory and Hands on Experience in NIPER Hyderabad from June, 06-15th 2022.

YEAR 2021

- ❑ Expert Speaker on topic “Current Landscape of Bioanalytical Tools In Product Development” in AICTE sponsored Quality Improvement Programme on Bioanalytical techniques and Tools for Drug Discovery Process organised by the department of Pharmaceutical sciences & Technology, BITS MESRA Date 21-26, June 2021.
- ❑ Keynote Speaker to delivered on “Quality by Design (QbD) Approach in Complex Product Development” in AICTE Sponsored Short Term Training Programme (STTP) at Annamcharya College of Pharmacy, New Boyanapallio, Rajampet, A.P. Dated 17 June 2021
- ❑ Keynote speaker on “Artificial Intelligence in Pharmaceuticals: Contemporary Status & Impending Prospect in AICTE-RGPV Joint Teachers Training Program, at Chameli devi Institute of Pharmacy, Indore Dated 18 Feb 2021.

YEAR 2021

- ❑ Keynote speaker in *Drug Delivery & Nanoformulation*” session under Pharmaceutical Sciences and Biotechnology Vertical Dated 19 October, 2020 for VAIBHAV summit 2020 initiated from Govt of India.
- ❑ Keynote speaker on topic “Current Understanding and Possible Therapeutic Options for Covid-19 Outbreak Of Global Health Concern” in the e-faculty development

programme in School of Pharmacy and IQAC ARKA JAIN University, Jamshedpur, Jharkhand, India Date, May 28, 2020.

- ❑ Keynote speaker on topic “Role of Nanomedicine in COVID-19, in the National webinar (live) on Innovative research methodology to develop drug or vaccine for COVID-19 in Khajuraho Institute of Pharmaceutical Sciences, Chhatarpur, MP INDIA date 29 May, 2020
- ❑ Keynote speaker on topic “Overview of complex generic Ophthalmic Formulation development” as Guest Speaker at Lakshmi Narain College of Pharmacy, Bhopal, MP INDIA, dated 12 June 2020.
- ❑ Keynote speaker on topic “Treatment option for COVID-19 pandemic: Current Scenario and Future Perspectives” in Department of Pharmacy, Shri Krishna University, Chhatarpur, INDIA dated 12 May 2020

WORKSHOP/CONFERENCES ORGANIZATION

- ❑ Organized the “International Conference on Drug Delivery, Diagnostic (ICD4-2024) at NIPER Hyderabad August 2024, Organizing Secretary.
- ❑ Organized the hands on Workshop on “Hands-on Experience on Instrument and Techniques for 3D BioPrinter, Cell culture and Nanotechnology Based Drug Delivery”. March 2-4, 2022, NIPER Hyderabad.
- ❑ Attended an International Conference on “NextGen Therapeutics & Diagnostics Concept to Commercialization”, conducted by NIPER Hyderabad, 20-22 April 2022.
- ❑ Organized two day’s workshop entitled “Hands on experience on instrument and techniques for nanotechnology based drug delivery” sponsored by pharmaceutical promotion development scheme (PPDS). March 22-23, 2021, NIPER Hyderabad.
- ❑ Organized the “**INDO-US International Webinar**” on Topic “Personal perspectives on what does it take to run a Skin Delivery Systems Laboratory with graduate students: The Science and the Rest” by Prof. Ajay K. Banga, Department of Pharmaceutical Sciences at the College of Pharmacy, Mercer University, Atlanta, GA, USA
- ❑ Organized the **INDO-EU Webinar** with gracious presence and invited talk of **Prof. Jessica Rosenholm** Faculty of Science and Engineering Abo Akademi University BioCity, Turku, Finland and **Prof. Thomas Rades**, University of Copenhagen, Department of Pharmacy, Copenhagen, Denmark on March 02, 2021.
- ❑ Moderating and organizing the “**Drug Delivery & Nanoformulation**” session under Pharmaceutical Sciences and Biotechnology vertical Dated 19 October, 2020 for VAIBHAV summit 2020 in the field of pharmaceutical sciences initiated from Govt. of India by across globe with distinguished scientist/professor.
- ❑ Organized an Online [*e-Workshop*](#) on “Industrial Implication of Artificial intelligence, Machine learning, Data Analytics and Nanomedicine in R&D innovations” Dated 30 & 31 July 2020 with international speakers from across globe.
- ❑ Conducted and organized the **INDO-US International Webinar** on Topic “Personal perspectives on what does it take to run a Skin Delivery Systems Laboratory with

graduate students: The Science and the Rest” by Prof. Ajay K. Banga, Department of Pharmaceutical Sciences at the College of Pharmacy, Mercer University, Atlanta, GA, USA

- Organizing the International Conference ICAPNN at ISF College of Pharmacy, Moga Punjab, 2015

OTHER ACADEMIC DUTIES AND RESPONSIBILITIES

- | | |
|--|-----------------------|
| 1. SC/ST & Minority Cell- | Co-chair |
| 2. Store and Purchase committee SPC-I | CO-CHAIR |
| 3. Academic Advisory & Student Affairs Committee (AA & SAC) | Co-chair |
| 4. Rajbhasha Prakoshtha (cell) | Member |
| 5. Safety & Security of Campus & Hostel | Member |
| 6. Industry interaction & International Collaboration Cell (IIC) | Member |
| 7. Internal Complaints Committee under The Sexual Harassment of Women at Workplace, (Prevention, Prohibition and Redressal) Act 2013 | Member |
| 8. Avishkaran; BioNest Incubator | Advisory Board member |

MEMBERSHIP OF PROFESSIONAL

1. India Pharmaceutical Education Society. Membership No. IPES/ALM/20/648
2. Life Membership of Association of Pharmaceutical Teachers of India (APTI) : TL/LM-1326, dated - 17/Oct/2 024

EXTERMANL EXAMINER

1. JSS College of Pharmacy, Mysore, India as an external PhD examiner
2. School of Pharmaceutical Sciences, Rajiv Gandhi Technical University, Bhopal, MP India as an PhD external examiner
3. School of Pharmaceutical Sciences, JNTU, Hyderabad India as an PhD external examiner.
4. MS examiner at Department of Pharmaceutics, National Institute of Pharmaceutical Education & Research (NIPER), Hajipur.

PHD in OTHER COUNTRIES

1. Safiya sultana Secured fully funded PhD position at ST John State University, NY, USA
2. Deepa Nakmode Secured PhD position in Australia.
3. Monika Aare secured PhD Position in Florida A& M University with complete funding.

PhD Lab Alumini

4. Dr. Bhavana Valamla secured Lead position in Pharmaceutical R &D, Hyderabad, India
5. Dr. Padakanti Sandeep Chary Secured Postdoctoral position in Florida A & M University, USA
6. Dr. Naveen Rajana secured Postdoctoral position in St John State University, New York, USA

AWARDS/ACHIEVEMENTS FROM LAB

- ❑ **Naveen Rajana**, SRF won the “Young Researcher Award” I Pharmaceutical Sciences Disciplines in Oral Presentation at the “Science Conclave Cum 4th National Biomedical Research Competition (NBRCOM)” organized by the Society of young biomedical scientists, India
- ❑ **Ms Vaibhavi Srivastava** SRF received best oral presentation award at NIPER Students Research Symposium (NSRS), NIPER, Mohali, INDIA 2023; 10-12, August 2023
- ❑ **Ms Rajeshwari Deshmukh**, MS received the Best Poster Presentation award at Research Showcase Presentation on two-day National Conference on HealthCare Tech Revolution: Pharma IT insights: at St Pauls College of Pharmacy, Hyderabad India Date 22-23 Dec. 2023.
- ❑ **Ms Anuradha Urati**, PHD-JRF received the Best second oral Presentation award in Life Sciences at Research Showcase Presentation on two-day National Conference on HealthCare Tech Revolution: Pharma IT insights: at St Pauls College of Pharmacy, Hyderabad India Date 22-23 Dec. 2023.
- ❑ **Ms Bhavana Valamla**, PHD-SRF received the Best Oral Presentation award in Life Sciences at Research Showcase Presentation on two-day National Conference on HealthCare Tech Revolution: Pharma IT insights: at St Pauls College of Pharmacy, Hyderabad India Date 22-23 Dec. 2023.
- ❑ **Ms Komalatha**, MS received the Best Poster Presentation award at Panacea 2023 (Pharmacy Association), BITS PILANI, Hyderabad Telangana.
- ❑ **Ms Bhavana Valamla**, received second oral presentation award in online international seminar on Current Trends in Chemical and Pharmaceutical Sciences (CTCPS-2021) organized by Department of Chemistry, Dr. Hari Singh Gour Vishwavidyalaya, sagar (MP) INDIA dated January 20-22, 2021.

Neelesh Kumar Mehra

Place: HYDERABD

Dr. Neelesh Kumar Mehra