

## **Dr. SAURABH SRIVASTAVA**

Associate Professor & Head, Department of Pharmaceutics

Associate Dean & Chair-Board of Studies & Research

National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad

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### **EXECUTIVE SUMMARY**

Technically skilled pharmaceutical research professional; experienced in novel and innovative platform technologies, Product development, Research operations and Project management with strong understanding of all the support functions including Business needs, Intellectual property and Regulatory requirements. Proficient competency with comprehensive end to end experience of product development cycle. Proven track record of achievements in pharmaceutical product development and Technology transfer for global regulated markets. Leading the transformational novel research concepts towards industrial viability and availability of the same to the mankind through utilization of technical expertise with potential interpersonal and management skills.

### **PROFESSIONAL SYNOPSIS**

- Experienced pharmaceutical researcher with holistic formulation development understanding of various dosage forms from concept to approval including novel and differentiated platform technologies.
- Profound research and industrial experience in discrete Novel Drug Delivery Systems, Differentiated formulations 505b (2), Generic formulation development, Scale-up and technology transfer activities.
- Actively involved in industrially viable Micro and Nanotechnological targeted drug delivery systems emphasizing over Cancer therapeutics, Neurodegenerative/Dermal disorders and Nutraceuticals.
- Clear understanding of complexities around the product development cycle including IP, Regulatory, Pharmacokinetics followed by differentiation of the product to address unmet clinical needs.
- Writing and review of QbD based CMC module, IND/Pre-NDA briefing packages and IMPD documents along with identification and implementation of QTPP, CQA, CPP, CMA, FMEA and Control strategies.
- Decent awareness of appropriate legislation i.e. ICH, USFDA regulations, over product development and Stability requirements, ensuring compliance and implementation of the guidance.
- Managing and monitoring team performance through technical knowledge sharing, timely feedbacks, ensuring increased team productivity and quality.
- Proficient Communication and Project management skills, Presentation abilities, Leadership skills and Strategic approach to work.

## **INDUSTRIAL/ACADEMIC EXPERIENCE**

Over 17+ years of Academic and Industrial research experience in the establishment of Novel Drug Delivery Systems, Differentiated [505(b) (2)] & Complex generic formulations through Innovative platform technologies for Cancer, Dermal and Neurological disorders. Proven track record of establishment and technology transfer of various Oral, Dermal & N2B Drug Delivery Systems utilizing Micro/Nanostructured carriers and Nanobiology.

### **Associate Professor & Head, Department of Pharmaceutics**

**National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad (Jan 2020-Till Date)**

- Area of research interest includes development and optimization of industrially viable, feasible and scalable “Differentiated formulations” (505(b) 2 for the purpose of “Bioavailability enhancement”, “Food effect minimization”, “Repurposing/New Indication”, “Synergism for FDCs”, “Dose/Dosing frequency reduction”.
- Major therapeutic area of research includes “Neurodegenerative disorders”, “Dermal diseases”, “Colon targeting/GI disorders” and “Prostate/Breast/Skin Cancer” through Nanotechnological approaches.
- Formulation development of poorly water-soluble drugs using novel platform technologies for enhancement of solubility, bioavailability and therapeutic efficacy.
- Actively involved in research contribution through utilization of “Micro/Nanostructured” Targeted drug deliveries along with “Novel platform technologies”, including “Amorphous solid dispersion”, “Fluidized bed processing”, “Particle coating” (Wurster process), “Pellet based controlled drug deliveries” “Compression coating”, Multiple Unit Particulate Systems (MUPS), Osmotic drug deliveries and Lipid based drug carriers

### **Tech Lead, Differentiated Formulations**

**Dr. Reddy’s Laboratories Limited, Hyderabad**

**(June 2012-Dec 2019)**

- Led a team of research scientists working over projects of “Differentiated Formulations” (505(b) 2; NDA) for regulated markets with hands on experience of various “Novel/Complex Drug Delivery Systems”.
- Pivotal role player for the filling of INDs/NDAs through “Bioequivalence (BE) and Clinical Trial (CT) routes along with Pre-IND/NDA briefing package readiness.
- Instrumental in supply of “Clinical Trial Samples” for various stages of CT Studies, along with freezing of Specifications and monitoring of Stability data for the CT batches/Registration batches.
- Industrious worked on various technologies including “Compression coated (Tab-in-tab) dosage forms”, “Extended Release MUPS/Score Tablets”, “Pellet Based Controlled/Targeted Drug Deliveries” “Spray Dried Microparticulate systems”, “Lipid Based Drug Carriers” and “Gastroretentive” Systems,
- Efficiently developed and optimized “Osmotic drug delivery systems”, Oral polymeric dental gels and “Extended-release Oral suspension/Mini-tablets” for pediatric population.
- Design and execution of formulation development strategies as per “QbD design”.
- Execution of reproducible “Pilot Scale-up/Exhibit batches” of optimized formulations.

- Designed the strategies for improvement of solubility of poorly water soluble NCEs with hands on experience over “Fluid bed processor” (Glatt), “Spray drying processes”, “Granulation technologies”, “Particle coating” (Wurster process) with various Novel release controlling polymers.

### Noteworthy Credits

- Successful execution of “**Pilot Scale-up/Exhibit batches**” of optimized extended-release formulation of “Ergot alkaloid derivative” used for senile dementia at GMP manufacturing facility in **China**. (Nov. 2014)
- Successful filling of “**Clinical Trial Application**” (CTA), with “China food and drug administration” (CFDA) for extended-release dosage form. (Dec. 2015)
- Development of Extended release “Compression Coated Tablets” for Plaque Psoriasis utilizing NCE, in collaboration with Global CMOs for “**Phase-III Clinical trials**”. (Jan. 2018)
- Establishment of “**Classical Bioequivalence**” for Once-a-day Extended release, Pelletized dosage form of “**Retinoid**” for Nodular Acne through Amorphization/Supersaturation, which could be administered without regard of meals. (March 2018)
- Development optimization and “**Proof of Concept Establishment**” through “**Osmotic Drug delivery systems**” for a Novel drug treating rheumatoid arthritis (JAK Inhibitor). (September 2019)
- Development optimization of once-a-day Extended release, pelletized solid dispersion of an antifungal drug to improve the “**Bioavailability**” and reduce the “**Variability**” through Amorphization/Supersaturation. (December 2019)
- Successful completion of project titled “**Development, evaluation and characterization of hydrophobic nanoparticles impregnated fabrics to be assessed as dress materials for defense**”, funded by DRDO, Govt. of India. (April 2022)
- Successfully executed the Industrial project titled “**Development and evaluation of oral drug delivery systems for colon targeting of drugs for the local & systemic actions**”, funded by NBI Life Sciences, Gurugram. (April 2022)

### Lecturer, (Pharmaceutics)

Raj Kumar Goel Institute of Technology, Ghaziabad (Uttar Pradesh)

(Jan 2007-Feb 2008)

- Worked as Lecturer (Pharmaceutics) conducting theory and practical sessions of graduate and postgraduate levels.
- Subjects Handled:
  - Post Graduate: “Novel Drug Delivery Systems (NDDS)”, “Dosage form Design”
  - Under Graduate: “Pharmaceutical Technology”, “Industrial Pharmacy”
- Successfully executed the project guidance at postgraduate level.
- Handled Pharmaceutical technology lab set-up, SOP preparations for the key equipments available and maintenance activities of the same.

- Worked on **ANDA** Projects of “**Novel Drug Delivery Systems**” (NDDS), for the prototype development of extended-release solid oral dosage forms including “**Multiple Unit Particulate System (MUPS)**” for regulated markets (USA).
- Strategy finalization/formulation development and optimization trials of “**Extended-release**” **Matrix Tablets/Pellets** based drug delivery systems.
- Stability/ Pharmacokinetic data evaluation for formulation, development and pilot scale-up batches.

## DOCTORAL RESEARCH EXPERIENCE

- Expertise in development and optimization of “**Biodegradable Polymeric Microspheres/Nanoparticles**” for Oral and Parenteral route of administration.
- Acquainted with various characterization techniques and evaluation parameters for **Polymeric Microspheres/Nanoparticles**; including SEM, DSC, Confocal Laser Scanning Microscopy (CLSM), *In-vitro* Drug release modeling along with Pharmacokinetic evaluation.
- Profound understanding of various “*Ex-vivo*” studies including “Cell-line”, “Cell-viability”, “Cellular uptake/engulfment studies”, “Hemolysis/Histopathological Studies” and “Flowcytometry”.

## INTELLECTUAL PROPERTY GENERATION

### GRANTED: 09

- **TOPICAL PHARMACEUTICAL COMPOSITION FOR TREATMENT OF PSORIASIS**  
Patent Application Number: **202041046470**  
Patent Authority: Controller General of Patents Designs and Trade Marks, Indian Patent Office, Government of India.
- **PHARMACEUTICAL COMPOSITION OF TOFACITINIB FOR THE MANAGEMENT OF ATOPIC DERMATITIS**  
Patent Application Number: **202141019173**  
Patent Authority: Controller General of Patents Designs and Trade Marks, Indian Patent Office, Government of India.
- **PHARMACEUTICAL COMPOSITIONS FOR MAJOR ADVERSE CARDIOVASCULAR EVENTS**  
International Application Number: PCT/IB2020/060548  
International Publication Number: WO2021/094902 A1  
Patent Filing Organization: Dr. Reddy’s Laboratories Limited, Hyderabad.  
Patent Authority: World Intellectual Property Organization (WIPO-International Bureau)  
International Application Published under the Patent Corporation Treaty (PCT)
- **EXTENDED-RELEASE DOSAGE FORM OF METOPROLOL OR SALT THEREOF WITHA NON SWELLABLE INERT CORE**  
Patent Application Number: **1600/MUM/2006**

Patent Authority: Controller General of Patents Designs and Trade Marks, Indian Patent Office, Government of India.

▪ **EXTENDED-RELEASE DOSAGE FORMS OF METOPROLOL**

Patent Application Number: **US 2009/0208570 A1**

Patent Authority: Bio Intellectual Property Services, LLC, Kernon CT, LORTON, VA 22079,USA

▪ **MODIFIED RELEASE NICERGOLINE COMPOSITIONS**

Patent Application Number: **WO 2017/006290 A1**

Patent Authority: World Intellectual Property Organization (International Bureau)

▪ **NOVEL SUSTAINED RELEASE PHARMACEUTICAL COMPOSITION OF BUPROPION**

Patent Application Number: **1386/MUM/2006**

Patent Authority: Controller General of Patents Designs and Trade Marks, Indian PatentOffice, Government of India.

▪ **PHARMACEUTICAL COMPOSITIONS FOR TREATING ACNE**

Patent Issuer and Number: **US 2017/0340594 A1**

Patent Authority: Bio Intellectual Property Services, LLC, Kernon CT, LORTON, VA 22079,USA

▪ **PHARMACEUTICAL COMPOSITIONS OF BUPROPION**

Patent Issuer and Number **WO/2008/026044**

Patent Authority: World Intellectual Property Organization (WIPO-International Bureau)

**FILED: 04**

▪ **PHARMACEUTICAL COMPOSITION OF ROFLUMILAST FOR THE MANAGEMENT OF PSORIASIS**

Patent Application No.: **202341007380**

Patent Filing Date: 06-02-2023

Patent Filing Organization: National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad

▪ **PHARMACEUTICAL COMPOSITIONS FOR OBESITY MANAGEMENT**

Patent Application No.: **IB2020058622**

Patent Publication No.: **2021/053542**

Patent Filing Date: 2020-09-16

Patent Publication Date: 2021-03-25

Patent Filing Organization: Dr. Reddy's Laboratories Limited, Hyderabad

▪ **TOPICAL PHARMACEUTICAL COMPOSITION FOR TREATMENT OF PSORIASIS.**

Patent Application No.: **IN 202041046470**

Patent Filing Date: 24/10/2020

Patent Filing Organization: National Institute of Pharmaceutical Education and Research (NIPER) Hyderabad

Patent Authority: Indian Patent Office-Intellectual Property India

▪ **PHARMACEUTICAL COMPOSITION OF TOFACITINIB FOR THE MANAGEMENT OF ATOPIC DERMATITIS.**

Patent Application No.: **202141019173**

Patent Filing Date: 02/04/2021

Patent Filing Organization: National Institute of Pharmaceutical Education and Research (NIPER) Hyderabad

Patent Authority: Indian Patent Office-Intellectual Property India

## COMMERCIAL PRODUCTS (02)

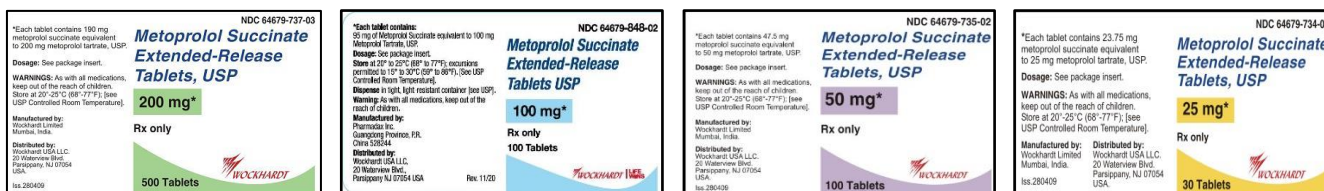
- Ketorolac Tromethamine Oral Disintegrating Tablets

✚ [Commercialized @ Dr. Reddy's Laboratories, Hyderabad for Emerging Market]



- Metoprolol Succinate Extended Release Tablets

✚ [Commercialized @ Wockhardt Research Center, Aurangabad for US Market]



## GOVERNMENT-AIDED/INDUSTRIAL PROJECTS

### COMPLETED PROJECT

- **Principal Investigator:** DRDO, Govt. of India funded project titled “Development, evaluation and characterization of hydrophobic nanoparticles impregnated fabrics to be assessed as dress materials for defence”, Sanction Order No.: DRL/1205/TC, Sanctioned Date: 03-11-2020, Amount Received (in INR): 9.9 Lakhs.
- **Principal Investigator:** Industrial project funded by NBI Life Sciences, Gurugram, titled “Development and evaluation of oral drug delivery systems for colon targeting of drugs for the local & systemic actions”, Sanction Order No.: NBI/R&D/SLIDD/011, Sanctioned Date: 10-04-2021, Amount Received (in INR): 8.26 Lakhs.
- **Co-Principal Investigator:** Industrial Project funded by Epigeneres Labs, Mumbai, entitled “Troubleshooting of Herbal Powder Formulations”, Sanctioned Date: 13-10-2021, Amount Received (in INR): 2.59 Lakhs.
- **Co-Principal Investigator:** Industrial Project funded by Epigeneres Labs, Mumbai, entitled “Design and development of herbal formulation to improve flow properties”. Sanctioned Date: 10-03-2022, Amount Received (in INR): 5.54 Lakhs.

## ONGOING PROJECTS

- **Principal Investigator:** Industrial Project funded by Incozen Laboratories, Hyderabad, entitled “Development and Evaluation of Liposomal formulation of Irinotecan”. Sanctioned Date: 14-12-2022, Amount Received (in INR): 13.28 Lakhs.
- **Principal Investigator:** Industrial Project funded by Epigeneres Labs, Mumbai, entitled “Development & Optimization of Self-nanoemulsifying Drug Delivery Systems (SNEDDS) of Resveratrol”, Sanctioned Date: 17-03-2023, Amount Received (in INR): 9.8 Lakhs.

## EXTERNAL EXAMINERSHIP

Impaneled as “**External Examiner**” for the **Ph.D. Thesis Evaluation** of various prestigious institutes.

- Indian Institute of Technology (IIT), Madras.
- Birla Institute of Technology & Science (BITS), Pilani, Hyderabad Campus, Hyderabad.
- Institute of Nanoscience and Technology (INST), Department of Science and Technology (DST), Mohali, Punjab.
- Jawaharlal Nehru Technological University (JNTU), Kakinada, Andhra Pradesh.
- NIRMA University, Ahmedabad.
- Gandhi Institute of Technology and Management (GITAM), Gandhi Nagar, Visakhapatnam, Andhra Pradesh.
- University of Hyderabad, Telangana, India
- M.S. Ramaiah University of Applied Sciences, Bangalore

## CONSULTANCY PROJECTS

- Executed Interviews as a Panel member of TTO employees for promotion/ upgradation at Dr. Reddy’s Laboratories, Hyderabad. **(October 2020)**
- Panel member of “Expert Working Group” of the “Indian Pharmacopoeia Commission” (IPC), Ghaziabad, INDIA for Anti-retroviral Drugs and Fixed Dose Combination. **(January 2023-Till Date)**

## AWARDS/RECOGNITION/APPRECIATION

- Impaneled as **Zonal Member (South Zone)** in “**Dissolution Research Presentations India (DRPI)-2022**, A Scientific Research Oral Presentation Competition for Young Pharmaceutical Researchers across Academia and Industry, organized by SPDS in association with AAPS and APTI. **(9-16 July 2022)**
- **Jury Member** for 3rd National Biomedical Research Competition, 2021. **(NBRCOM-2021)**, Under the aegis of Society of Young Biomedical Scientists, India. **(December 6-10, 2021)**

- Received **“Best Poster”** Certification from “IPDO Leadership, Dr. Reddy’s Laboratories”, for **“Outstanding Scientific Research Presentation”**. (DRL, BRaIN Science Day, December 2020)
- Received **“Certificate of Appreciation”** from “IPDO Leadership, Dr. Reddy’s Laboratories”, for **“Best Project-Robust Product/Process Development”**. (DRL, All Hands Meet-April 2019)
- Received **“Certificate of Appreciation”** from “IPDO Leadership, Dr. Reddy’s Laboratories”, for **“Successful Pre-Validation of Higher Commercial Batch Size”**. (DRL, All Hands Meet-September 2018)
- Received **“Special Recognition Award”** from “Dr. Reddy’s Laboratories”, as member of “Team Innovative Formulators, Proprietary Products” in recognition of efforts towards converting innovative product ideas into early and late stage of product development at **“Proprietary Products iAwards”** (Hyderabad, July 23, 2014)
- **Foreign Travel Grant** from “CSIR-New Delhi for presenting the research work in **“AAPS Annual Meeting and Exposition”** held at Los Angeles, CA, USA. (November 8-12, 2009)
- Awarded **“Senior Research Fellowship”** from **“Council of Scientific and Industrial Research” (CSIR), Ministry of Science and Technology, New Delhi, INDIA.** (January 2008)

#### KEYNOTE SPEAKERS/INVITED TALKS/PANEL DISCUSSIONS

- Delivered a talk as **‘Invited Speaker’** at the **“2nd IndiGlobal Education Festival (IGEF)”**, sponsored by IndiGlobal Media Network; in Hyderabad on September 16 & 17, 2022.
- Delivered a talk on the topic titled **“Overview of Formulation Development Approaches”** in Novartis India, Hyderabad on 14<sup>th</sup> September 2022.
- Delivered a talk as **“Invited Speaker”** for Technical seminar titled **“Nanomedicines: Bench-to-Bedside Challenges”**, organized by Gangwal part of Barentz on 15th July 2022 at Hotel Sitara Grand.
- Delivered a talk as **“Invited Speaker”** titled **“Nanomedicine: Academia, Industry and Regulatory Bridging”** for High end workshop (Karyashala) on **“Solid State Characterization of Pharmaceuticals: Theory and Hands-on Experience”** Sponsored by SERB-DST under Abhyaas Scheme, 6-15 June 2022.
- Delivered a talk on **"Reconnecting Physiology and Nature for Healthy Life"** in 9th International e-Conference of Federation of Indian Physiological Societies (FIPS)-2022. March 25-27, 2022.
- Delivered a talk in the Symposium titled **“NIPER-Industry Connect”**, to showcase the potential and capabilities of NIPER Hyderabad and further bridging the relationship between NIPER and various Industries. October 18, 2021.
- Delivered a talk titled **“Bridging the gap: Academia, Industry and FDA Convergence for Nanomaterials”** in Faculty Development Program (FDP) on **“New Dimensions of Teaching Learning Practices in Pharmaceuticals”** conducted by GITAM University, Vishakhapatnam & sponsored by AICTE-ATAL Academy, New Delhi. 20-24 September 2021.



## RESEARCH PUBLICATIONS

1. Multifaceted applications of ulvan polysaccharides: Insights on biopharmaceutical avenues. Saurabh Shah, Paras Famta, Syed Shahrukh, Naitik Jain, Ganesh Vambhurkar, Dadi A. Srinivasarao, Rajeev Singh Raghuvanshi, Shashi Bala Singh, Saurabh Srivastava. International Journal of Biological Macromolecules, Volume 234, 15 April 2023, 123669.
2. Paradigm of Lyotropic Liquid Crystals in Tissue Regeneration. Saurabh Shah, Ramesh Joga, Tejaswini Kolipaka, Chetan Sabnis Dushyantrao, Pooja Khairnar, Simran, Vivek Phatale, Giriraj Pandey, Sandeep Kumar and Saurabh Srivastava. International Journal of Pharmaceutics. Volume 634, 5 March 2023, 122633.
3. The portrayal of macrophages as tools and targets: A paradigm shift in cancer management. Naitik Jain, Dadi A. Srinivasarao, Paras Famta, Saurabh Shah, Ganesh Vambhurkar, Syed Shahrukh, Shashi Bala Singh, and Saurabh Srivastava. Life Sciences, January 2023. Volume 316, 1 March 2023, 121399.
4. Nanomedicine based strategies for oligonucleotide traversal across the blood–brain barrier. Etikala Amulya, Anupama Sikder, Ganesh Vambhurkar, Saurabh Shah, Dharmendra Kumar Khatri, Rajeev Singh Raghuvanshi, Shashi Bala Singh and Saurabh Srivastava. Journal of Controlled Release, January 2023. Volume 354, February 2023, Pages 554-571.
5. Strategic combinatorial delivery of tranilast and paclitaxel using differently functionalized PLGA nanoparticles for enhanced penetration and accumulation in Breast tumor. Paras Famta, Saurabh Shah, Naitik Jain, Syed Shahrukh, Shashi Bala Singh, Saurabh Srivastava. Medical Hypotheses, Volume 169, 2022, 110981.
6. Immune cell–camouflaged surface-engineered nanotherapeutics for cancer management. Naitik Jain, Syed Shahrukh, Paras Famta, Saurabh Shah, Ganesh Vambhurkar, Dharmendra Kumar Khatri, Shashi Bala Singh, Saurabh Srivastava. Acta Biomaterialia, 2022.
7. Tumor-promoting aftermath post-chemotherapy: A focus on breast cancer. Paras Famta, Saurabh Shah, Naitik Jain, Kondasingh Charan Kumar, Deepkumar Bagasariya, Dharmendra Kumar Khatri, Rajeev Singh Raghuvanshi, Shashi Bala Singh, Saurabh Srivastava. Life Sciences, Volume 310, 2022, 121125.
8. Albumin-hitchhiking: Fostering the pharmacokinetics and anticancer therapeutics. Paras Famta, Saurabh Shah, Naitik Jain, Dadi A. Srinivasarao, Aditya Murthy, Tausif Ahmed, Ganesh Vambhurkar, Syed Shahrukh, Shashi Bala Singh, Saurabh Srivastava. Journal of Controlled Release, Volume 353, 2023, Pages 166-185.
9. Topical delivery of Bruton’s tyrosine kinase inhibitor and curcumin-loaded nanostructured lipid carrier gel: Repurposing strategy for the psoriasis management. Harsha Jain, Geetanjali Devabattula, Aditi Bhat, Harshita Dalvi, Nagarjun Rangaraj, Chandraiah Godugu & Saurabh Srivastava. Pharmaceutical Development and Technology. 2022 Nov; 27(9): 975-988.
10. Quality by design (QbD) assisted Fabrication & evaluation of Simvastatin loaded Nano-Enabled thermogel for melanoma therapy. Paras Famta, Saurabh Shah, Valencia Fernandes, Kondasingh Charan Kumar, Deepkumar

- Bagasariya, Khan Sabiya Samim, Dharmendra Kumar Khatri, Shashi Bala Singh, *Saurabh Srivastava*. International Journal of Pharmaceutics, Volume 628, 2022, 122270.
11. Quality by design steered development of Niclosamide loaded liposomal thermogel for Melanoma: In vitro and Ex vivo evaluation. Saurabh Shah, Paras Famta, Valencia Fernandes, Deepkumar Bagasariya, Kondasingh Charankumar, Dharmendra Kumar Khatri, Shashi Bala Singh, *Saurabh Srivastava*. European Journal of Pharmaceutics and Biopharmaceutics, Volume 180, 2022, Pages 119-136.
  12. Emerging insights of peptide-based nanotherapeutics for effective management of rheumatoid arthritis. Vrushali Pathade, Shweta Nene, Shreya Ratnam, Dharmendra Kumar Khatri, Rajeev Singh Raghuvanshi, Shashi Bala Singh, *Saurabh Srivastava*. Life Sciences, Volume 312, 1 January 2023, 121257.
  13. NLRP3 inflammasomes: A potential target to improve mitochondrial biogenesis in Parkinson's disease. Mayuri Khot, Anika Sood, Kamatham Pushpa Tryphena, Sabiya Khan, *Saurabh Srivastava*, Shashi Bala Singh, Dharmendra Kumar Khatri. European Journal of Pharmacology. Volume 934, 5 November 2022, 175300.
  14. Proteostasis in Parkinsons Disease: Recent Development and Possible Implication in Diagnosis and Therapeutics. Ageing Research Review. Amrita Kulkarni, Kumari Preeti, *Saurabh Srivastava*, Dharmendra Khatri. Volume 84, February 2023, 101816.
  15. Epigenetics in depression and gut-brain axis: A molecular crosstalk. Begum N, Mandhare A, Tryphena KP, *Srivastava S*, Shaikh MF, Singh SB and Khatri DK. Frontiers in Aging Neuroscience. (2022) 14:1048333.
  16. Instigation of the epoch of nanovaccines in cancer immunotherapy. Shah, S., Famta, P., Tiwari, V., Kotha, A. K., Kashikar, R., Chougule, M. B., Chung, Y. H., Steinmetz, N. F., Uddin, M., Singh, S. B., & *Srivastava, S*. (2022). WIREs Nanomedicine and Nanobiotechnology, e1870. <https://doi.org/10.1002/wnan.1870>.
  17. Role of gut microbiota in depression: Understanding molecular pathways, recent research, and future direction. Deepak Rathour, Shruti Shah, Sabiya Khan, Pankaj Kumar Singh, *Saurabh Srivastava*, Shashi Bala Singh, Dharmendra Kumar Khatri. Behavioural Brain Research, Volume 436, January 2023, 114081.
  18. Tuning Mesoporous Silica Nanoparticles in Novel Avenues of Cancer Therapy. Saurabh Shah, Paras Famta, Deepkumar Bagasariya, Kondasingh Charankumar, Anupama Sikder, Rama Kashikar, Arun K. Kotha, Mahavir Bhupal Chougule, Dharmendra Kumar Khatri, Amit Asthana, Rajeev Singh Raghuvanshi, Shashi Bala Singh, and *Saurabh Srivastava*. Molecular Pharmaceutics 2022 19 (12), 4428-4452.
  19. Nanomedicine based Potentially Transformative Strategies for Colon Targeting of Peptides: State-of-the-art. Ganesh Vambhurkar, Etikala Amulya, Anupama Sikder, Saurabh Shah, Paras Famta, Dharmendra Kumar Khatri, Shashi Bala Singh, *Saurabh Srivastava*. Colloids and Surfaces B: Biointerfaces. 2022 Aug 31; 219:112816. doi: 10.1016/j.colsurfb.2022.112816. Epub ahead of print. PMID: 36108367.
  20. Exploration of Novel Drug Delivery Systems in Topical Management of Osteoarthritis. Pratiksha Patil, Shweta Nene, Saurabh Shah, Shashi Bala Singh, *Saurabh Srivastava*. Drug Delivery and Translational Research. 2023 Feb;13(2):531-546. doi: 10.1007/s13346-022-01229-z. Epub 2022 Aug 28. PMID: 36031671.

21. Nanotechnology based drug delivery systems: Does shape really matter? Saurabh Shah, Paras Famta, Deepkumar Bagasariya, Kondasingh Charankumar, Etikala Amulya, Dharmendra Kumar Khatri, Rajeev Singh Raghuvanshi, Shashi Bala Singh, Saurabh Srivastava. International Journal of Pharmaceutics. Volume 625, 25 September 2022, 122101.
22. Advancements in Redox-sensitive Micelles as Nanotheranostics: A New Horizon in Cancer Management. Anupama Sikder, Ganesh Vambhurkar, Etikala Amulya, Deepkumar Bagasariya, Paras Famta, Saurabh Shah, Dharmendra Kumar Khatri, Shashi Bala Singh, V.R. Sinha, and Saurabh Srivastava. Journal of Controlled Release. Volume 349, September 2022, Pages 1009-1030.
23. Therapeutic potential of quercetin in diabetic foot ulcer: Mechanistic insight, challenges, nanotechnology driven strategies and future prospects. Parimal Hagde, Purva Pingle, Atul Mourya, Chanti Babu Katta, Saurabh Srivastava, Rahul Sharma, Kamalinder K. Singh, Rupinder Kaur Sodhi, Jitender Madan. Journal of Drug Delivery Science and Technology. Volume 74, August 2022, 103575.
24. Biomimetic Nanotherapeutics: Employing Nanoghosts to fight Melanoma. Deepkumar Bagasariya, Kondasingh Charan Kumar, Saurabh Shah Paras Famta, Dharmendra Khatri, Rajeev Singh Raghuvanshi, Shashi Bala Singh, Saurabh Srivastava. European Journal of Pharmaceutics and Biopharmaceutics, Volume 177, August 2022, Pages 157-174.
25. Forging Ahead the Repositioning of Multitargeted Drug Ivermectin. Atmakuri Srividya, Nene Shweta, Khatri Dharmendra, Singh Bala Shashi, Sinha V.R. and Srivastava Saurabh. Current Drug Delivery, 2022.
26. Polymer nanotherapeutics: A versatile platform for effective rheumatoid arthritis therapy. Rimsha Nooreen, Shweta Nene, Harsha Jain, Velpula Prasannanjaneyulu, Palak Chitlangya, Shivam Otavi, Dharmendra Kumar Khatri, Rajeev Singh Raghuvanshi, Shashi Bala Singh, Saurabh Srivastava. Journal of Controlled Release, Volume 348, August 2022, Pages 397-419.
27. Understanding the involvement of Micro RNAs in mitochondrial dysfunction and their role as potential biomarkers and therapeutic targets in Parkinson's disease. Tryphena K P, Urati Anuradha, Rohit Kumar, Shruti Rajan, Saurabh Srivastava, Shashi Bala Singh, Dharmendra Khatri. Journal of Alzheimer's Disease. 2022.
28. Old drugs, new tricks: Emerging role of drug repurposing in the management of atopic dermatitis. Velpula Prasannanjaneyulu, Shweta Nene, Harsha Jain, Rimsha Nooreen, Shivam Otavi, Palak Chitlangya, Saurabh Srivastava. Cytokine & Growth Factor Reviews. Volume 65, June 2022, Pages 12-26.
29. Nanotechnological Advances for Nose to Brain Delivery of Therapeutics to Improve the Parkinson Therapy. Khatri DK, Preeti K, Tonape S, Bhattacharjee S, Patel M, Shah S, Singh PK, Srivastava S, Gugulothu D, Vora L, Singh SB. Current Neuropharmacology. 2022.
30. Advances in Nanoparticle mediated Targeting of RNA Binding Protein for Cancer. Rama Kashikar, Arun K Kotha, Saurabh Shah, Paras Famta, Shashi Bala Singh, Saurabh Srivastava, Mahavir Bhupal Chougule. Advanced Drug Delivery Reviews. Volume 185, June 2022, 114257.

31. Chondroitin Sulfate: Emerging biomaterial for biopharmaceutical purpose and tissue engineering. Reena Sharma, Kaushik Kuche, Pradip Thakor, Valamla Bhavana, **Saurabh Srivastava**, Neelesh Kumar Mehra, Sanyog Jain. Carbohydrate Polymers. Volume 286, 2022, 119305.
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33. Lipid Polymer Hybrid Nanocarriers: Insights into Synthesis Aspects, Characterization, Release Mechanisms, Surface Functionalization and Potential Implications. Saurabh Shah, Paras Famta, Rajeev Singh Raghuvanshi, Shashi Bala Singh, **Saurabh Srivastava**. Colloid and Interface Science Communications. Volume 46, 2022, 100570.
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40. Exploring the unexplored avenues of surface charge in nano-medicine. Saurabh Shah, Nagarjun Rangaraj, Shashi Bala Singh, **Saurabh Srivastava**. Colloids and Interface Science Communications. Volume 42, May 2021, 100406.

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43. Perspective insights and application of exosomes as a novel tool against neurodegenerative disorders: An expository appraisal. Amey Kadbhane, Monica Patel, Saurabh Srivastava, Pankaj Kumar Singh, Jitender Madan, Shashi Bala Singh, Dharmendra Kumar Khatri. Journal of Drug Delivery Science and Technology. Volume 63, June 2021, 102526.
44. Lipid based nanocarriers: A novel paradigm for topical antifungal therapy. Shweta Nene, Saurabh Shah, Nagarjun Rangaraj, Neelesh Kumar Mehra, Pankaj Kumar Singh, Saurabh Srivastava. Journal of Drug Delivery Science and Technology. Volume 62, April 2021, 102397.
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46. Bridging the gap: academia, industry and FDA convergence for nanomaterials. Saurabh Shah, Shweta Nene, Nagarjun Rangaraj, Rajeev Singh Raghuvanshi, Shashi Bala Singh and Saurabh Srivastava. Drug Dev Ind Pharm. 2020 Nov; 46 (11): 1735-1746.
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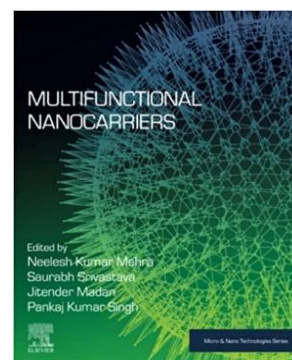
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57. Paradoxical effect of coating on natural guar gum blended carbomer matrix systems for the neurological depressive disorders. V.R. Sinha, Vinay Jindal, Saurabh Srivastava, Honey Goel. International Journal of Drug Delivery. 2010; 2:113-124.
58. Solid Lipid Nanoparticles (SLN's): Trends and Implications in drug targeting. V.R Sinha, Saurabh Srivastava, Honey Goel, Vinay Jindal. International Journal of Advances in Pharmaceutical Sciences. 1(3): 212-238 (2010).
59. Influence of operational variables in multi particulate delayed release systems for colon targeted drug delivery of celecoxib using extrusion spherization. V.R. Sinha, A. Aggarwal, S. Srivastava, H. Goel. Asian Journal of Pharmaceutics. Vol. 4, Issue 2, pp 102-109, April - June 2010.
60. Role of CDs and Safety Aspects In Drug Delivery Systems: Trends and Implications. V.R Sinha, Amita, Honey Goel, Saurabh Srivastava. "The Pharmstudent". Vol. XXV, 1-14, 2010.

## EDITED BOOK/BOOK CHAPTERS

### 1. Multifunctional Nanocarriers: Concept, Theory and Applications. (Edited Book)

Editors: Neelesh Mehra, Saurabh Srivastava, Jitender Madan, Pankaj K Singh.

- **Publisher:** Elsevier - Health Sciences Division (25 August 2022)
- **ISBN-10:** 0323850413
- **ISBN-13:** 978-0323850414
- **Purchase Link @ Amazon e-commerce:** <https://amzn.eu/d/7qTzmlp>



2. Nanotechnology: advanced drug-targeting concepts, fundamentals, and strategies. (Book Ch.), Chary PS, Rajana N, Bhavana V, Singh PK, *Srivastava S*, Madan J, Singh SB, Mehra NK. Multifunctional Nanocarriers, Elsevier Publishers, 2022, (pp. 1-24).
3. Needle-free technology for biomedical applications. (Book Ch.), Pingle P, Joshi I, Sodhi RK, Madan J, Mehra NK, Singh PK, *Srivastava S*, Khatri DK, Singh SB. Multifunctional Nanocarriers, Elsevier Publishers, 2022, (pp. 149-173).
4. Brain targeting drug delivery systems for the management of brain disorders: molecular targets and nanotechnological strategies. (Book Ch.), Kaur M, Sodhi RK, Jyothi VG, Sree VH, Singh PK, Mehra NK, Khatri DK, *Srivastava S*, Singh SB, Madan J, Sardana S. Multifunctional Nanocarriers, Elsevier Publishers, 2022, (pp. 289-345).
5. Nanomaterials in nose-to-brain delivery: a synergistic breakthrough in meeting the unmet. (Book Ch.), Jain H, Dalvi H, Bhat A, Agrawal A, Madan J, Singh PK, Mehra NK, Singh SB, *Srivastava S*. Multifunctional Nanocarriers, Elsevier Publishers, 2022, (pp. 379-400).
6. Nanotoxicology: toxicity and safety issues of nanoparticles. (Book Ch.), Maji I, Mahajan S, Sriram A, Mehra NK, *Srivastava S*, Madan J, Singh SB, Singh PK. Multifunctional Nanocarriers, Elsevier Publishers, 2022, (pp. 461-474).
7. COVID-19 outbreak: comprehensive update on epidemiology, transmission, and treatment opportunities. (Book Ch.), Shah S, Rangaraj N, Ravi PR, Raghuvanshi RS, Singh SB, *Srivastava S*. Coronavirus Drug Discovery, Elsevier Publishers, 2022, (pp. 17-36).
8. Roles of online social media platforms and artificial intelligence in diffusing the impact of COVID-19 as scientists find a cure. (Book Ch.), Dalvi H, Bhat A, Jain H, Singh SB, *Srivastava S*. Coronavirus Drug Discovery, Elsevier Publishers, 2022, (pp. 349-362).
9. Nanomaterials Mediated Diagnosis of Lung Cancer. (Book Ch.), Kotha AK, Kashikar R, Famta P, Shah S, *Srivastava S*, Chougule MB. Nanomaterials for Cancer Detection Using Imaging Techniques and Their Clinical Applications, Springer Publishing House, 2022 (pp. 225-259).
10. Roles of nanoparticles in drug discovery and delivery. (Book Ch.), Shah S, Sinha VR, Singh SB, *Srivastava S*. Applications of Nanotechnology in Drug Discovery and Delivery, Elsevier Publishers, 2022, (pp. 3-26).
11. SARS-COV-2 Ingress - Triggering COVID-19 Infection. (Book Ch.), Anitha Sriram, Yojana Bhor, Srushti Mahajan, Rahul Kumar, *Saurabh Srivastava*, Dharmendra Kumar Khatri, Shashi Bala Singh, Pankaj Kumar Singh. An Update on SARS-CoV-2: Damage-response Framework, Potential Therapeutic Avenues and the Impact of Nanotechnology on COVID-19 Therapy. Bentham Science Publishers, 2022, (pp. 43-66).
12. Epidemiology of COVID-19. (Book Ch.), Anitha Sriram, Yojana Bhor, Srushti Mahajan, Rahul Kumar, *Saurabh Srivastava*, Dharmendra Kumar Khatri, Shashi Bala Singh, Pankaj Kumar Singh. An Update on SARS-

CoV-2: Damage-response Framework, Potential Therapeutic Avenues and the Impact of Nanotechnology on COVID-19 Therapy. Bentham Science Publishers, 2022, (pp. 67-90).

13. Etiology of COVID-19. (Book Ch.), Anitha Sriram, Balram Prajapati, Srushti Mahajan, Dharmendra Kumar Khatri, Shashi Bala Singh, Saurabh Srivastava, Pankaj Kumar Singh. An Update on SARS-CoV-2: Damage-response Framework, Potential Therapeutic Avenues and the Impact of Nanotechnology on COVID-19 Therapy. Bentham Science Publishers, 2022, (pp. 91-112).
14. Immunotherapeutic Approaches to Combat COVID-19. (Book Ch.), Anitha Sriram, Ekta Pardhi, Indrani Maji, Rahul Kumar, Dharmendra Kumar Khatri, Shashi Bala Singh, Saurabh Srivastava, Pankaj Kumar Singh. An Update on SARS-CoV-2: Damage-response Framework, Potential Therapeutic Avenues and the Impact of Nanotechnology on COVID-19 Therapy, Bentham Science Publishers, 2022, (pp. 176-191).
15. Nanotechnology Impact and It's Future Perspectives on COVID-19 Therapy. (Book Ch.), Anitha Sriram, Rahul Kumar, Indrani Maji, Dharmendra Kumar Khatri, Shashi Bala Singh, Saurabh Srivastava, Pankaj Kumar Singh. An Update on SARS-CoV-2: Damage-response Framework, Potential Therapeutic Avenues and the Impact of Nanotechnology on COVID-19 Therapy. Bentham Science Publishers, 2022, (pp. 192-203).
16. Potential targeting sites to brain through nasal passage. (Book Ch). Saurabh Shah, Paras Famta, Arun Kumar Kotha, Mahavir Bhupal Chougule, and Saurabh Srivastava, Springer, Publication Target: 2023.
17. Silica Nanoparticles: An Emerging Tool to Target Cancer Cells. (Book Ch). Saurabh Shah & Saurabh Srivastava. Springer, Switzerland, Publication Target: 2023.
18. Chitosan nanoparticles: Integration of computational simulation, modeling and Artificial Neural Network techniques for augmenting drug delivery in biomedical applications. (Book Ch). Aashruti Agrawal, Purva Pingle, Saurabh Srivastava, Jitender Madan. Elsevier, Publication Target: 2023.
19. Factors affecting the choice for nanoparticles in drug discovery. (Book Ch). Saurabh Shah & Saurabh Srivastava. Elsevier Publication Target: 2023.

#### SEMINARS/CONFERENCES/WORKSHOPS

(ORGANIZED & ATTENDED)

- Conducted and attended Workshop on “**Hands-on Experience on Instrument and Techniques for 3D Bio-Printer, Cell culture and Nanotechnology Based Drug Delivery**”. March 2-4, 2022.
- Organized and attended an International Conference on “**NextGen Therapeutics & Diagnostics Concept to Commercialization**”, conducted by NIPER Hyderabad, 20-22 April 2022.
- Organized and attended the Symposium “**NIPER-Industry Connect**”, to showcase the potential and capabilities of NIPER Hyderabad and further bridging the relationship between NIPER and various Industries. October 18, 2021.
- Attended a seminar titled “**Drugs for Rare Diseases: Contribution to Developing Countries**” has been attended. December 8, 2021.



- A Symposium on **“NIPER-Academia connect”** has been Organized/Attended to cater out the bridging between NIPER Hyderabad and other potential academic institutions. January 07, 2022.
- Organized and attended 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.
- Organized and attended a Webinar on **“Molecules to Therapeutic Discoveries Development of Non-addictive and Safer Pharmacotherapy for Treating Neuropathic Pain”**. From Northeastern University, Located in Boston, Massachusetts, USA. March 4th, 2021.
- Organized and attended the guest talk on **“Indian Pharmacopoeia commission and Indian Pharmacopoeia’s relevance in the present context”**. December, 28, 2021.
- Organized and attended an Online Workshop on **“Industrial Implication of Artificial intelligence, Machine learning, Data Analytics and Nanomedicine in R&D innovations”**. July 30 & 31, 2020.
- Organized and attended the Guest talk on **“Lead Self to Survive and Thrive”**, 7th March, 2020.
- Organized and attended the Guest talk on **“Journey & Experiences of Entrepreneurship”**, 7th March, 2020.
- Organized and attended the Guest talk on **“Driving Innovation in R&D through Data Analytics”**, 28th February, 2020.
- Participated in **Two day National Conference** of **“Applied Pharmaceutical Analysis (APA)-India”**, Held at Goa, India. (Feb. 24-26, 2019)
- Participated in **Three-day Coating Workshop** of **“Evonik India”** on **“Usage and Applications of EUDRAGIT Polymers”** Held at Mumbai. (November 23-25, 2016)
- Attended **Two-day Workshop** of **“Colorcon Formulation School”**, Held at Verna, Goa. (August 10-12, 2015).
- Participated in One day National Semiar of **“Evonik India”** for **“The Therapeutic Future withPharma Polymers”** at Hyderabad. (August 03, 2012)
- Presented Poster entitled **“Biodegradable Polymeric Microspheres for Prolonged Release ofStavudine”** at 2009 Annual Meeting and Exposition, in Los Angeles, CA, USA. Organized by **“American Association of Pharmaceutical Scientists” (AAPS)**. (November 8-12, 2009), (Abstract No. AM-09-02046, Published in **AAPS Journal, 2009, Vol. 11, Supplement S2**)
- Presented Psoter entitled **“Micro-structured Biodegradable Polymeric Matrix System for Prolonged Release of Stavudine”** at Polymer Congress (APA-2009) on **“Polymer Science and Technology: Vision & Scenario”** IIT Delhi, INDIA. (Abstract No. A-407)
- Participated in **“Seminar on Intellectual Property Rights”**, Organized by IPR cell of Centre for Industry Institute Partnership Programme (CIIPP), Panjab University, Chandigarh. (April 28, 2009)
- Presented poster entitled **“Multiple Unit Particulate System (MUPS) Based Drug Delivery for Colon**

**Targeting**” at “**National Conference on Innovations in Drug Discovery and Research**”, Punjabi University, Patiala, INDIA. ( March 3-5, 2009)

- Delivered oral presentation entitled “**Inclusion Complexation of Etodolac with Cyclodextrins: Formulation, physicochemical Characterization and Evaluation**” at “**National Conference on Innovations in Drug Discovery and Research**”, Punjabi University, Patiala, INDIA. ( March 3-5, 2009)
- Presented poster entitled “**Hydrophillic Matrix Based Controlled Drug Delivery of Duloxetine Hydrochloride**” at 13<sup>th</sup> **ISCB International Conference**, at University of Delhi, INDIA. (February 26<sup>th</sup> - March 1<sup>st</sup> 2009)
- Presented poster entitled “**Pharmacokinetic Evaluation of Controlled Release (CR) Parenteral Depot Systems of Ketorolac Tromethamine in Rabbits**” at 9<sup>th</sup> International Symposium of **Controlled Release Society (CRS-Indian Chapter)**, at Mumbai, INDIA. (February 25-26, 2009)
- Participated in the 78<sup>th</sup> “**Annual Session of The National Academy of Sciences**”, India, at Panjab University, Chandigarh. (November 21-23, 2008)
- Attended National “**Seminar for Lecturers and Senior Lecturers**”, at Panjab University, Chandigarh. (March 29<sup>th</sup> 2008)
- Participated in Second National “**Chandigarh Science Congress**” (**CHASCON**), at Panjab University, Chandigarh. (March 14 & 15, 2008)
- Participated in National Seminar of U.S. Pharmacopeial Forum, for “**Effectively Using the USP-NF & Fundamentals of Dissolutions**” at GOA. (October 4-5, 2006).

#### **THESIS SUPERVISION @ NIPER HYDERABAD**

##### **Ph.D. Thesis Supervision:**

Ongoing: 10, Completed: 01

##### **MS Thesis Supervision:**

Ongoing: 06, Completed: 15

#### **ADMINISTRATIVE ROLES & RESPONSIBILITIES @ NIPER HYDERABAD**

- Member; Board of Governors (BoG), NIPER, Hyderabad: November 2022-Till Date
- Additional Director of Avishkaran- Foundation for Pharma Innovation;  
A BioNEST Incubator of DBT: October 2022-Till Date
- Member; Senate, NIPER, Hyderabad: December 2021-Till Date
- Head of Department (Pharmaceutics): September 2021-Till Date
- Associate Dean (Academics): March 2020-Till Date

- Chairperson: Board of Studies & Research: March 2020-Till Date
- Chairperson: Laboratory, Building & Works Technical Committee: October 2020-Till Date
- Co-Chair: Industry Interaction & International Collaboration: March 2020-Till Date
- Member: Placement Committee: September 2020-Till Date
- Member: Scientific Advisory Committee  
Andhra Pradesh MedTech Zone (AMTZ-Vizag): October 2020-Till Date
- Member: Academic Monitoring Council (AMC): November 2020-Till Date

## EDUCATIONAL QUALIFICATION

- **Ph.D. (Pharmaceutics): UIPS, Panjab University, Chandigarh. 2008-2012**
- **M. Pharm.: Birla Institute of Technology and Science (BITS), Pilani, Rajasthan. 2003-2005**
- **B. Pharm.: Ram-Eesh Institute of Technology, Greater Noida. 1999-2003**

## REFERENCES

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Central Drugs Standard Control Organization (CDSCO)  
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