

## DR. KEERTI JAIN

M. Pharm., Reg. Pharm., Ph.D., Post Doc. (SERB - NPDF)

Assistant Professor

Department of Pharmaceutics

National Institute of Pharmaceutical Education and Research (NIPER) - Raebareli  
(Department of Pharmaceutics, Ministry of Chemicals and Fertilizers, Govt. of India)

Bijnor-Sisendi Road, Sarojini Nagar, Near CRPF Base Camp, Lucknow (UP)- 226002

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**Research Interest:** Biomaterials, Drug Delivery, Dendrimers, Quantum dots, Nanoparticles, Nanoemulsion, Nanobiotechnology

**AREA OF EXPERTISE:** Pharmaceutical Formulation development, Nanoparticle's fabrication, Ligand driven targeting, Glycosylation, Biocompatibility enhancement, Carbon nanotubes, Nanoemulgel, Interaction and Toxicity studies, Topical delivery systems

### Academic and Professional Qualifications

- **Ph.D. in Pharmaceutical Sciences:** Dr. H.S. Gour Central University, Sagar, M.P.  
(Thesis Submission: June, 2014; Ph.D. Defense and award: March, 2015)
- **M. Pharm. in Pharmaceutics:** Dr. H.S. Gour Central University, Sagar, M.P.  
[I Division; Merit Position: First]
- **B. Pharm.** Dr. H.S. Gour Central University, Sagar, M.P.  
[I Division; Merit Position: Third]
- Completed certificate course of Six months in Computer Fundamentals and Basic Software.
- **GATE 2007:** 99.05 percentile AIR: 173 (Indian Institute of Technology, Kanpur)
- **GATE 2006:** 88.13 percentile AIR: 1694 (Indian Institute of Technology, Kharagpur)

### Professional Experiences

- **Assistant Professor:** June, 2020 – Present; NIPER Raebareli, Lucknow, U.P.
- **Assistant Professor:** August, 2017 – June, 2020; Delhi Pharmaceutical Sciences and Research University, New Delhi, India

- **Post-Doctoral Fellow (SERB, NPDF):** April, 2017 – August, 2017; Faculty of Pharmacy, The M. S. University of Baroda, Vadodara, Gujarat
- **Lecturer:** August, 2015 – April, 2017; National Institute of Pharmaceutical Education and Research (NIPER), Raebareli, U.P.
- **Associate Professor:** July, 2014 – August, 2015; ISF College of Pharmacy, Moga, Punjab
- **Assistant Professor:** March, 2010 – June, 2011; Vedic Institute of Pharmaceutical Education and Research, Sagar, M.P.

#### Development of e-learning delivery process/material

Name of the e-learning process	Subject	Organization for which it was developed	No. of modules	Level for which it is developed UG/PG/Research etc.
e-pathshala for M.Sc. Biotechnology students approved by U.G.C	Nano-biotechnology	UGC, New Delhi	7	PG

#### AWARDS AND RECOGNITION

- Awarded with prestigious “ICMR – Shakuntala Amir Chand Award” for the year 2019. [Vide Notification No. 3/1/3/ICMR awards(3)/2019-HRD; Dated 29.12.2020]
- Won second prize in Hindi Lekhan Pratiyogita organized in Rajbhasha Hindi Pakhwada – 2020 held in NIPER Raebareli during September 14-28, 2020.
- Won Best Oral Presentation Award in International Conference [SPER-BANGKOK 2019] held at Narai Hotel, Bangkok, Thailand.
- Won MOST INNOVATIVE IDEA AWARD of the Impact Week Delhi 2019 organized by Lufthansa Group (Germany).
- Best Oral Presentation Award in APTICON – 2018.
- Ph.D. research work was selected for presentation in BioAsia Innovation Award – 2015.

- First prize for Poster Presentation in international conference NIPiCON – 2014.
- M. Pharm. research work was selected for presentation in Ranbaxy Young Scholar Award – 2013.
- Best Oral Presentation Award in National Seminar 2013.
- Best International Oral Presentation Award in ISC 2012.
- Best Poster Presentation Award in International Science Congress 2011.
- Pharmaceutical Science Alumni Award 2006.
- Indira Gandhi Pratibha Award 1999.

### **NATIONAL FELLOWSHIPS/SCHOLARSHIPS**

- SERB-National Post-Doctoral Fellowship (SERB-NPDF) for Post-Doctoral Research Work awarded in Jan., 2017 for two years.
- International travel grant from DST, New Delhi to attend “24<sup>th</sup> International Conference on Bioencapsulation – 2016” held at Lisbon, Portugal on 21<sup>st</sup> – 23<sup>rd</sup> September, 2016.
- Fellowship for Training of Young Scientists (2016, 2014 and 2013) awarded by M.P. Council of Science and Technology (MPCST) based on paper presented at M.P. Young Scientist Congress, 2016, 2014 and 2013.
- International travel grant from ICMR, New Delhi and INSA, Chennai to attend international conference “ICYRAM-2012” held at Singapore on 1<sup>st</sup>– 7<sup>th</sup> July, 2012.
- Senior Research Fellowship (CSIR-SRF) awarded from 1<sup>st</sup> April 2012 for carrying out research work at Department of Pharmaceutical Sciences, Dr. H.S. Gour Central University, Sagar.
- Junior Research Fellowship (UGC-JRF) for Post-Graduation at Dr. H.S. Gour University, Sagar for period 2007-2009.

### **INTERNATIONAL VISITS**

- **Bangkok, Thailand:** Presented research paper (Oral Presentation) entitled “Anti-angiogenic dendrimers for treatment of cancer” in **International Conference [SPER-BANGKOK**

2019] at Narai Hotel, Bangkok, Thailand, from 03 to 04 October, 2019 and **won Best Oral Presentation Award.**

- **Lisbon, Portugal:** Presented research paper (Oral Presentation) entitled “Core shell nanoparticles for oral delivery of low molecular weight heparin” in **24<sup>th</sup> International Conference on Bioencapsulation – 2016** at Lusofona Universidae, **Lisbon, Portugal** from 21 to 23 September, 2016. (Travel grant was awarded by ITS-SERB, DST New Delhi)
- **Singapore:** Presented research paper in the **International Conference of Young Researchers on Advanced Materials (ICYRAM 2012)** on the topic “Dual strategy for treatment of cancer based on development of anti-angiogenic carrier for anticancer agent” held at **Matrix, Biopolis, Singapore** from 1 to 6 July, 2012. (Travel grant was awarded by ICMR, New Delhi and CICS-INSA, Chennai)

### **ONGOING/COMPLETED EXTRAMURAL RESEARCH PROJECTS**

**Research Project 1:** Comprehensive Biological Evaluation of Different Drug-loaded Surface Engineered Dendrimer Conjugates for Treatment of Cancer

Role: Principal Investigator [PI: Dr. Keerti Jain; Co-PI: Dr. Mukesh Nandave]

Duration: 3 Years [2021-2024]

Funding Agency: ICMR, New Delhi

Funding Amount: INR 30.5 Lakhs

**Research Project 2:** Development of Dendrimers based Novel Hybrid Nanocarriers for Controlled Delivery of Anticancer Bioactives

Role: Principal Investigator [As SERB-NPDF]; Mentor: Prof. A. N. Misra

Duration: 2 Years [2017-2019]

Funding Agency: SERB, New Delhi

Funding Amount: INR 19.6 Lakhs

## PATENTS

- **Dr. Keerti Jain**, Ms. Surabhi Gupta, Ms. Teeja Suthar, Rohan Chand Sahu, Dr. U.S.N. Murty. Cost-effective antimicrobial nano-film coating/spraying solution for high traffic touch points and methods of preparation thereof. Patent Application No. 202111050865 Filed on 06.11.2021.
- **Dr. Keerti Jain**, Vishwas P. Pardhi, Dr. S.J.S. Flora. Antitubercular Cyclodextrin Complexes of Bedaquiline Fumarate and Method of Preparation Thereof. Patent Application no. 202111023193 Filed on 25.05.2021.
- **Dr. Keerti Jain**, Teeja Suthar, Anand Singh Patel, Dr. S.J.S. Flora. Micro-/nano-sized emulsions containing flavonoids, and methods of preparation and uses thereof. Patent Application No. 202111007897 Filed on 24.02.2021.
- Vishwas P. Pardhi, **Dr. Keerti Jain**, Dr. S.J.S. Flora. Antitubercular Pharmaceutical Solid Dispersion of Bedaquiline Fumarate and Method of Preparation Thereof. Patent Application No. 202011040038 Filed on 16.09.2020.

## PUBLICATIONS (INTERNATIONAL): Selected Peer-reviewed International Publications

(Last five years only: 2016-2021)

**Total citations: 3812; Cumulative impact factor: 215.942; h-index: 26; i10-index: 37**

**(Source: <https://scholar.google.co.in/citations?user=E-9sCmYAAAAJ&hl=en>)**

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1. Rizwanullah Md., Ahmad MZ, Ghoneim, Alshehri S, Imam SS, Shadab Md, Alhakamy NA, **Jain K**, Ahmad J. Receptor-Mediated Targeted Delivery of Surface-Modified Nanomedicine in Breast Cancer: Recent Update and Challenges. **Pharmaceutics (MDPI)**. 2021;13(12):2039. DOI: <https://doi.org/10.3390/pharmaceutics13122039>. **(Impact Factor: 6.321)**
2. Ojha B<sup>#</sup>, Jain VK<sup>#</sup>, Gupta S, Talegaonkar S, **Jain K\***. Nanoemulgel: A Promising Novel Formulation for Treatment of Skin Ailments. **Polymer Bulletin**. 2021; DOI: <https://doi.org/10.1007/s00289-021-03729-3>. **(Impact Factor: 2.87)**

3. **Jain K\***, Patel AS, Pardhi VP, Flora SJS\*. Nanotechnology in Wastewater Treatment. **Molecules**, 2021;26(6):1797. DOI: <https://doi.org/10.3390/molecules26061797>. (**Impact Factor: 4.411**)
4. Gauro R, Nandave M, Jain VK, **Jain K\***. Advances in dendrimers mediated targeted drug delivery to brain. **Journal of Nanoparticle Research**. 2021;23(3). DOI: <https://doi.org/10.1007/s11051-021-05175-8>. (**Impact Factor: 2.253**)
5. **Jain K**, Shukla R, Yadav A, Ujjwal RR, Flora SJS. 3D Printing in development of nanomedicines. **Nanomaterials**, 2021;11(420):1-24. DOI: <https://doi.org/10.3390/nano11020420>. (**Impact Factor: 5.076**)
6. Pardhi VP, **Jain K\***. Impact of Binary/Ternary Solid Dispersion Utilizing Poloxamer 188 and TPGS to Improve Pharmaceutical Attributes of Bedaquiline Fumarate. **Journal of Drug Delivery Science and Technology**, 2021;62(102349):1-13. DOI: <https://doi.org/10.1016/j.jddst.2021.102349>. (**Impact Factor: 3.981**)
7. Khan MA, Jain VK, Md. Rizwanullah, Ahmad J, **Jain K\***. PI3K/Akt/mTOR pathway inhibitors in triple-negative breast cancer: A review on drug discovery and future challenges. **Drug Discovery Today**, 2019;24(11):2181-2191. DOI: <https://doi.org/10.1016/j.drudis.2019.09.001>. (**Impact Factor: 7.851**)
8. Joshi K, Chandra A, **Jain K**, Talegaonkar S. Nanocrystalization: An emerging technology to enhance the bioavailability of poorly soluble. **Pharmaceutical Nanotechnology**, 2019;7(4):259-278. DOI: <https://doi.org/10.2174/2211738507666190405182524> (**Impact Factor: 2.069**)
9. Afsana, Jain VK, Haider N, **Jain K\***. 3D Printing in Personalized Drug Delivery. **Current Pharmaceutical Design**, 2018;24(42):5062-5071. DOI: <https://doi.org/10.2174/1381612825666190215122208>. (**Impact factor: 3.116**)
10. **Jain K\***. Nanohybrids of Dendrimers and Carbon Nanotubes: A benefaction or forfeit in drug delivery? **Nanoscience and Nanotechnology-Asia**, 2019;9(1),21-29. DOI: <https://doi.org/10.2174/2210681208666171204163622>. (**Impact Factor: 0.431**)
11. Ahmad J, Gautam A, Komath S, Bano M, Garg A, **Jain K**. Topical nano-emulgel for skin disorders: Formulation approach and characterization. **Recent Patents on Anti-Infective Drug**

**Discovery**, 2019;14(1):36-48. DOI: <https://doi.org/10.2174/1574891X14666181129115213>.  
(**Impact Factor: 1.088**)

12. Sharma A, **Jain K**, SJS Flora. Vitamins Based Novel Target Pathways/Molecules as Possible Emerging Drug Targets for Management of Tuberculosis. **Medicinal Chemistry**, 2018;14(3):212-224. DOI: <https://doi.org/10.2174/1573406413666171103093235>. (**Impact factor: 2.745**)
13. Jain VK, **Jain K**. Molecular targets and pathways for treatment of visceral leishmaniasis. **Drug Discovery Today**, 2018;23(1):161-170. DOI: <https://doi.org/10.1016/j.drudis.2017.09.006>. (**Impact factor: 7.851**)
14. Kesharwani P, Gothwal A, Iyer AK, **Jain K**, Chourasia MK, Gupta U. Dendrimer nanohybrid carrier systems: an expanding horizon for targeted drug and gene delivery. **Drug Discovery Today**, 2018;23(2):300-314. DOI: <https://doi.org/10.1016/j.drudis.2017.06.009>. (**Impact factor: 7.851**)
15. Sharma P, **Jain K**, Jain NK, Mehra NK. *Ex vivo* and *in vivo* performance of anti-cancer drug loaded carbon nanotubes. **Journal of Drug Delivery Science and Technology**, 2017; 41:134–143. DOI: <https://doi.org/10.1016/j.jddst.2017.07.011>. (**Impact factor: 3.981**)
16. Kaur S, Mehra NK, **Jain K**, Jain NK. Development and evaluation of targeting ligand anchored CNTs as prospective targeted drug delivery system. **Artificial Cells, Nanomedicine and Biotechnology**, 2017;45(2):242-250. DOI: <https://doi.org/10.3109/21691401.2016.1146728>. (**Impact factor: 5.678**)
17. Kaur A, **Jain K**, Mehra NK, Jain NK. Development and characterization of surface engineered PPI dendrimers for targeted drug delivery. **Artificial Cells, Nanomedicine and Biotechnology**, 2017;45(3):414-425. DOI: <https://doi.org/10.3109/21691401.2016.1160912>. (**Impact factor: 5.678**)
18. Kaur D, **Jain K**, Mehra NK, Kesharwani P, Jain NK. A review on comparative study of PPI and PAMAM dendrimers. **Journal of Nanoparticle Research**, 2016;18:146. DOI: <https://doi.org/10.1007/s11051-016-3423-0>. (**Impact factor: 2.253**)
19. Mansuri S, Kesharwani P, **Jain K**, Tekade RK, Jain NK. Mucoadhesion: A Promising Approach in Drug Delivery System. **Reactive and Functional Polymers**, 2016;100:151-172. DOI: <https://doi.org/10.1016/j.reactfunctpolym.2016.01.011>. (**Impact factor: 3.975**)

20. Singh J, **Jain K**, Mehra NK, Jain NK. Dendrimers in anticancer drug delivery: mechanism of interaction of drug and dendrimers. **Artificial Cells, Nanomedicine and Biotechnology**, 2016;44(7):1626-34. DOI: <https://doi.org/10.3109/21691401.2015.1129625>. (**Impact factor: 5.678**)
21. Sharma S, Mehra NK, **Jain K**, Jain NK. Effect of functionalization on drug delivery potential of carbon nanotubes. **Artificial Cells, Nanomedicine and Biotechnology**, 2016;44(8):1851-1860. DOI: <https://doi.org/10.3109/21691401.2015.1111227>. (**Impact factor: 5.678**)
22. Bajwa N, Mehra NK, **Jain K**, Jain NK. Targeted anticancer drug delivery through anthracycline antibiotic bearing functionalized Quantum Dots. **Artificial Cells, Nanomedicine and Biotechnology**, 2016;44(7):1774-82. DOI: <https://doi.org/10.3109/21691401.2015.1102740>. (**Impact factor: 5.678**)
23. Sharma P, Mehra NK, **Jain K**, Jain NK. Biomedical application of Carbon Nanotubes: A Critical Review. **Current Drug Delivery**, 2016;13(6):796-817. DOI: <https://doi.org/10.2174/1567201813666160623091814>. (**Impact factor: 2.565**)

### **INTERNATIONAL BOOKS**

- Mehra NK, **Jain K** (Eds) *Dendrimers Nanomedicine: Concept, Theory and Regulatory Perspectives*. CRC Press, UK. ISBN 9780367466053; 2021; Pages: 1-328. [Published in March, 2021]
- **Jain K**, Ahmad J (Eds) “*Nanotheranostics for Treatment and Diagnosis of Infectious Diseases*” Academic Press, Elsevier, ISBN: 9780323912013. [In press]
- **Jain K**, Jain NK (Eds) “*Multifunctional and Targeted Theranostic Nanomedicines - Formulation, Design and Applications*” Springer Nature [Proposal accepted, and Agreement signed with publisher]

## ❖ INVITED CHAPTERS IN INTERNATIONAL BOOKS

1. Bagre A, Patel P, Naqvi S, **Jain K\*** “Dendrimers and its theranostic applications in infectious diseases” in International Book “Nanotheranostics for Infectious Diseases: Design, Characterization and Application” **Elsevier**, 2022; ISBN: 9780323912013 (In press).
2. Chauhan S, **Jain K**, Naqvi S “Emerging concerns of infectious diseases and drug delivery challenges” in International Book “Nanotheranostics for Infectious Diseases: Design, Characterization and Application” **Elsevier**, 2022; ISBN: 9780323912013 (In press).
3. Suthar T, Navneet, **Jain K\***. “Ch.08 Nutraceuticals against neurodegenerations: understanding the mechanistic pathways” in International Book “Nutraceuticals for Aging and Anti-Aging: Basic Understanding and Clinical Evidence” **CRC Press, USA**, 2021; ISBN: 9780367614942 (In press).
4. Yadav S, Jain VK, **Jain K\***. “Chapter 5: Marine Biopolymers for Gene Delivery” in International Book “Marine Biomaterials: Drug delivery and therapeutic potential” **Springer Nature Publisher**, 2021; ISBN: 9789811647864. DOI: 10.1007/978-981-16-5374-2. (In press)
5. Kumar D, Yadav S, Ujjwal RR, **Jain K\***. “Interfacial Characterization of Nanoemulsion” in International Book “Nanoemulsions in Food Technology: Development, Characterization and Applications” **CRC Press, USA**, 2021; ISBN: 9780367614928.
6. Patel AS, **Jain K\***. “Ch.11 Nanostructured Hydrogels-Based Biosensor Platform” in International Book “Micro and Nanotechnologies Based Product Development” **CRC Press, USA**, 2021; ISBN: 9780367488451. 177–85. DOI:10.1201/9781003043164-11
7. **Jain K**, Jain NK, Kesharwani P. “Ch.7 Type of Dendrimers” in International Book “Dendrimers –based Nanotherapeutics” **Elsevier**, 2021; ISBN: 9780128212509, 1-28.
8. Ojha B, Jain VK, Mehra NK, **Jain K\***. “Ch.1 Nanotechnology: introduction and basic concepts” in International Book “Dendrimers Nanomedicine: Concept, Theory and Regulatory Perspectives” **CRC Press, USA**, 2021; ISBN: 9780367466053, 1-18. DOI:10.1201/9781003029915-1.
9. Gauro R, **Jain K\***, Jain VK, Mehra NK, Popli H. “Ch.5 Macromolecular architecture and molecular modeling of dendrimers” in International Book “Dendrimers Nanomedicine: Concept, Theory and Regulatory Perspectives” **CRC Press, USA**, 2021; ISBN: 9780367466053, 77-88. DOI:10.1201/9781003029915-5.

10. Bhavana V, Mehra NK, **Jain K**. “Ch.9 Dendrimers-Guest Interaction Chemistry and Mechanism” in International Book “Dendrimers Nanomedicine: Concept, Theory and Regulatory Perspectives” **CRC Press, USA**, 2021; ISBN: 9780367466053, 171-186.
11. **Jain K\***, Mehra NK, Jain VK, Jain NK. “Ch.6 IPN Dendrimers in Drug Delivery” in International Book “Interpenetrating Polymer Network: Biomedical Applications” Springer Nature Publisher, 2020; ISBN: 978-981-15-0283-5,143-182. DOI: 10.1007/978-981-15-0283-5\_6
12. Joshi K, Jain VK, Dhankhar K, Popli H, **Jain K\***. “Respiratory Tract Function and Nutraceuticals” in International Book "Nutraceuticals for Prenatal, Maternal and Offspring's Nutritional Health: Recent Trends and Clinical Evidence" **CRC Press, USA**, 2020; ISBN: 9781138345829, 289-310. DOI: 10.1201/9780429437632-19
13. Tandel H, Bhatt P, **Jain K**, Shahiwala A, Misra A. “*In-Vitro* and *In-Vivo* Tools in Emerging Drug Delivery Scenario: Challenges and Updates” in International Book “*In-Vitro* and *In-Vivo* Tools in Drug Delivery Research for Optimum Clinical Outcomes” **CRC Press, USA**, 2018; ISBN: 9781351368728, 1-24. DOI: 10.1201/b22448-1
14. **Jain K\*** “Dendrimers: Emerging anti-infective nanomedicines” in Sequel volume of Multivolume International Book “NanoBioMaterials”, **CRC Press, USA**, 2018; ISBN: 9781351138666, 121-138. DOI: <https://doi.org/10.1201/9781351138666>
15. **Jain K\*** “Dendrimers: smart nanoengineered polymers for bioinspired applications in drug delivery” in International Book "Biopolymer-Based Composites" **Elsevier**, 2017; ISBN: 9780081019146, 169-220. DOI: <https://doi.org/10.1016/B978-0-08-101914-6.00007-7>.
16. **Jain K**, Jain NK “Dendrimers as Nanomedicine in Cancer Chemotherapy” in International Book “Dendrimers in Nanomedicine”, **Pan Stanford Publishing**, 2016; ISBN: 9789814745499.
17. Mehra NK, **Jain K**, Jain NK (2016) in “Multifunctional carbon nanotubes in cancer therapy and imaging” in Volume VIII: NanoBioMaterials in Medical Imaging of Multivolume International Book “Applications of NanoBioMaterials (Volume I-XI)”. **Elsevier**, 2016; ISBN: 978-0-323-41736-5; 421-453 DOI: <http://dx.doi.org/10.1016/B978-0-323-41736-5.00014-5>.
18. **Jain K**, Jain NK (2015) “Dendrimers as Nanobiopolymers in Cancer Chemotherapy” in Volume III: Drug Nano-Carriers of Multivolume International Book “NanoBioMedicine (Volume I-VI)”, **Studium Press LLC, USA**; ISBN: 9781626990500.

19. Mehra NK, **Jain K**, Jain NK “Ethosomes in transdermal delivery applications” in “Encyclopedia of biomedical polymers and polymeric biomaterials”. 2015; **CRC Press**, 8062-8073. ISBN: 9781439898796; DOI: 10.1081/E-EBPP-120049280.
20. Mehra NK, **Jain K**, Jain NK “Novel triazine dendrimer” in “Encyclopedia of biomedical polymers and polymeric biomaterials”. 2015 **CRC Press**, ISBN: 9781439898796; DOI: 10.1081/E-EBPP-120049287.

#### **MEMBERSHIP OF PROFESSIONAL BODIES**

- LIFE MEMBER OF “SOCIETY OF PHARMACEUTICAL EDUCATION AND RESEARCH (SPER)” **MEMBERSHIP NO. SPER/LM/DL/031**
- LIFE MEMBER OF “THE ASSOCIATION OF PHARMACEUTICAL TEACHERS OF INDIA (APTI)” **MEMBERSHIP NO. MP/LM-423**
- STATE PHARMACY COUCIL REGISTRATION DETAILS:  
REGISTRATION NO. (M.P. State Pharmacy Council): 21864

#### **INVITED SPEAKER/CHAIRPERSON/ RESEARCH PRESENTATIONS**

1. Delivered an invited lecture “QbD in formulation development of Nanomedicines” on July 16, 2021 in AICTE-ATAL Academy sponsored Online FDP organized by University College of Pharmaceutical Sciences, Acharya Nagarjuna University Guntur, AP on “Quality by Design (QbD) Tools for Drug Development” conducted from July 13-17, 2021.
2. Delivered an expert session on April 29, 2021 in AICTE sponsored one week Short Term Training Program (STTP) on topic entitled “Interplay between Health Wellbeing, Environment and Community Pharmacy” conducted from 26<sup>th</sup> April to 1<sup>st</sup> May, 2021.
3. Delivered invited lecture (webinar) on “Covid 19 Pandemic – Mutations and Vaccines” as guest speaker on May 18, 2021 at Oriental College of Pharmacy, Bhopal.
4. Chief Speaker in Online National Conference on “The COVID-19 Pandemic” organized by Shri Krishna University, Chhatarpur on May 11-14, 2020.

5. Chairperson in “International Conference of Cardiovascular Sciences” held at Delhi Pharmaceutical Sciences and Research University (DPSRU), New Delhi on February 21-23, 2020.
6. Presented research paper (Oral Presentation) in “International Conference of Cardiovascular Sciences” on the topic “Study on Anti-angiogenic activity of Dendrimers for Therapeutic Effect” held at Delhi Pharmaceutical Sciences and Research University (DPSRU), New Delhi on 21-23<sup>th</sup> February, 2020.
7. Presented research paper (Poster Presentation) in “International Conference of Cardiovascular Sciences” on the topic “Experimental Investigation of MDP Conjugated PPI Dendrimers for Macrophage Targeted Delivery” held at Delhi Pharmaceutical Sciences and Research University (DPSRU), New Delhi on 21-23<sup>th</sup> February, 2020.
8. Presented research paper (Oral Presentation) in International Conference [SPER-BANGKOK 2019] “Fostering Pharmaceutical Innovations to Bridge the Gap in Pharmaceutical Research and Industry” on the topic “Anti-angiogenic dendrimers for treatment of cancer” held at Narai Hotel, Bangkok, Thailand from 03 to 04 October 2019 and won Best Oral Presentation Award.
9. Presented Prototype on IOTA Healthcare solutions at Lufthansa Impact Week Delhi 2019 organized by Lufthansa Group at SSCBS, New Delhi from 18-26 Sept. 2019 and won most INNOVATIVE idea award for the same.
10. Participated in the Train the Trainer program of Lufthansa Impact Week Delhi 2019 organized by Lufthansa Group at SSCBS, New Delhi from 18-26 Sept. 2019
11. Presented research paper (Oral Presentation) in **24<sup>th</sup> International Conference on Bioencapsulation – 2016** on the topic “Core shell nanoparticles for oral delivery of low molecular weight heparin” held at **Lusofona Universidae, Lisbon, Portugal** from 21 to 23 September, 2016. (Travel grant is awarded by ITS-SERB, DST New Delhi)
12. Presented research paper in the **International Conference on Innovations in Pharmaceutical Science** on the topic “Antiangiogenic surface engineered dendrimers for Targeted Delivery of Anticancer Drug” held at Sri Aurobindo Institute of Pharmacy, Indore on February 27-28, 2016.
13. Ph.D. research work was selected for presentation in BioAsia Innovation Award – 2015.

14. Presented research work on the topic “Targeted Delivery of Anticancer Drug with Antiangiogenic Dendrimers” in the **2<sup>nd</sup> International Symposium on Dendrimer in Nano Drug Delivery (ISDNDD-2014)** held at Auditorium, CSIR-CDRI, Lucknow (U.P.) on 14 and 15 June, 2014.
15. Presented research work as poster in the **International Conference FDEOLS-2014** held at Department of Biotechnology, Dr. H. S. Gour Central University, Sagar, M.P. on February 13-15, 2014.
16. Presented research work as poster and won the **1<sup>st</sup> prize in the International Conference NIPiCON-2014** held at Institute of Pharmacy, Nirma University, Ahmedabad, Gujrat on January 23-25, 2014.
17. Oral presentation on the topic “Surface engineered dendrimers based nanoplatfoms for treatment of cancer” and won the **Best International Oral Presentation Award in International congress ISC-2012** held at Bon Maharaj Engineering College, Vrindavan, Mathura, UP, India on December 08& 09, 2012.
18. Presented a poster entitled “Treatment of cancer with anti-angiogenic carrier for anticancer agent: dual attack on cancer” **3<sup>rd</sup> International Conference on Stem Cells and Cancer (ICSCC-2012): Proliferation, Differentiation, and Apoptosis** held at Dr. RML Hospital, New Delhi, India, 27 - 30 October, 2012.
19. Presented research paper in the **International Conference of Young Researchers on Advanced Materials (ICYRAM 2012)** on the topic “Dual strategy for treatment of cancer based on development of anti-angiogenic carrier for anticancer agent” held at **Matrix, Biopolis, Singapore** from 1 to 6 July, 2012.
20. Presented research paper as poster and won the **Best Poster Presentation Award in International Science Congress** held at Maharana Ranjit Singh College of Professional Sciences, Indore (M.P.) scheduled on December 24& 25, 2011.