

POOJA JAIN

M. PHARM., PH.D.

Contact Details

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Soft Skills

- Good analytical skills.
- Good teaching skills.
- Good scientific writing skills.
- Good presentation and communication ability.
- Project or work management ability to handle multiple tasks efficiently.

Computer Expertise

- Well versed with windows-based environment.
- MS Office, (MS –word, MS – excel, MS-power point) access.
- Well versed with Internet and referencing using the same.
- Basic knowledge of various software such as GraphPad, pK solver, design expert, Origin etc.

Awards and Fellowship

- Senior Research Fellowship awarded by Council of Scientific and Industrial Research (CSIR), Government of India.
- Silver Jubilee Senior Research Fellowship awarded by Jamia Hamdard
- Qualified GPAT, AIR-42 conducted by AICTE.

CARRIER OBJECTIVES

I am seeking an achievement-driven opportunity in academia where my knowledge, ambition, and commitment to excellence will be fully utilized. Being a researcher, I want to be a part of the esteemed organization and contribute towards the growth of the organization based on my expertise.

PERSONAL SUMMARY

- Completed Ph.D. (Pharmaceutics) from Jamia Hamdard (Rank#1 Pharmaceutical Institute by NIRF by the Government of India) with CSIR senior research fellowship and Jamia Hamdard Silver Jubilee fellowship.
- More than 5 years of departmental teaching experience.
- Published more than 23 research and review articles in peer-reviewed journals, oral and poster presentation in National and International conferences/seminars, book chapters in Elsevier and Bentham Publications, 3 patents filed in Indian Patent office.
- The total citation received for our work is 149 with an *h*-index of 8 and an *i10* index of 7 as per Jan 2023 Google scholar data.
- An effective communicator with strong analytical, problem-solving & organizational abilities; possess a flexible and detail-oriented approach.
- So long in short, I have teaching experience of UG and PG experience and research experience of novel as well as conventional dosage forms.

WORK EXPERIENCE

2021-04 to 2023-03	CSIR-SRF Fellow Department of Pharmaceutics, School of Pharmaceutical Education and Research (SPER), Jamia Hamdard, New Delhi, India.
2018-04 to 2021-03	Silver Jubilee SRF Department of Pharmaceutics, SPER, Jamia Hamdard, New Delhi, India.
2017-09 to 2018-03	Guest Faculty Department of Pharmaceutics, DIPSAR, New Delhi, India.

RESEARCH AND INDUSTRIAL EXPERIENCE

2016-12 to 2022-12	Ph.D. Research Ph.D. research project has been completed under the supervision of Prof. Zeenat Iqbal (Supervisor), and Prof. Farhan Jalees Ahmad (Co-supervisor), entitled "Investigation of low dose sequentially delivered system for amelioration of periodontitis and its efficacy in developed animal model" from Department of Pharmaceutics, SPER, Jamia Hamdard, New Delhi.
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ACADEMIC MILESTONES

2023	Ph.D. (Pharmaceutics)	Department of Pharmaceutics, SPER, Jamia Hamdard, New Delhi (Thesis submitted, viva expected in a month).
2017	PGDIPR	Indira Gandhi National Open University (IGNOU).
2016	M. Pharm. (Pharmaceutics) first division	Department of Pharmaceutics, SPER, Jamia Hamdard, New Delhi.
2013	B. Pharm.	Guru Govind Singh Indraprastha University (GGSIPU), New Delhi.
2010	D. Pharm.	Delhi Institute of Pharmaceutical Science and Research (DIPSAR) New Delhi.
2008	Intermediate	CBSE, New Delhi.
2006	Matriculation (10th)	CBSE, New Delhi.

LABORATORIES HANDLED

- Nanoformulation research laboratory, Department of Pharmaceutics, School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi.

RESEARCH EXPERIENCE

- **M. Pharm Project-** “Design and development of multi-pronged therapeutic system directed towards periodontitis” under the supervision of Dr. Zeenat Iqbal, Department of Pharmaceutics, School of Pharmaceutical Education and Research, Jamia Hamdard.
- **Industry Project-** Six month investigational research project was done for the New Zealand Fulvic acid, New Zealand.
- Guided M. Pharm and PhD students on solubility enhancement techniques, psoriasis, acne, tuberculosis, caries, dental biofilms, neuropathic pain, wound healing and oral cancers projects.

MEMBERSHIP/ REGISTRATION

- Pharmacists Welfare Trust (Delhi Pharmacy Council) Registration Number: 21420.

BOOK CHAPTER PUBLISHED

- Jain P, Hassan N, Farooq U, Mohapatra S, Alex TS, Fatima M, Mirza MA, Iqbal Z. Nanomedicine-Based Combinational Therapy for Breast Cancer. In Hormone Related Cancer Mechanistic and Nanomedicines 2022 (Chapter 9). Springer Nature.
- Jain P, Alex TS, Singh M, Hassan N, Mirza MA, Iqbal Z. Current practices in drug delivery for metabolic disorders. In Drug Delivery Systems for Metabolic Disorders 2022 (pp. 31-45). Academic Press.
- Jain P, Mohapatra S, Hassan N, Singh M, Farooq U, Mirza MA, Iqbal Z. Artificial intelligence as a putative tool for newer drug development approach in cancer nanomedicine. Artificial intelligence-based cancer nanomedicine. 2022(pp. 53-68). Bentham Science Publisher.

- Padhi S, Hassan N, Jain P, Singh M, Mohapatra S, Iqbal Z. Microparticles, Microspheres, and Microemulsions as Pulmonary Drug Delivery Systems for the Treatment of Respiratory Diseases. In *Advanced Drug Delivery Strategies for Targeting Chronic Inflammatory Lung Diseases 2022* (pp. 281-302). Springer, Singapore.
- Iqbal Z, Ali A, Hassan N, Jain P, Alex T. Ayurvedic remedies for SARS-COV-2. In *Ayurvedic remedies for COVID -19 and Mucor mycosis. 2022* (pp. 129-137). Academic Decipher Press, Mumbai.
- Jain P, Hassan N, Singh M, Iqbal Z. Nanocarriers for theranostics delivery of cardiovascular disease. In *Nanomedicinal approaches towards cardiovascular disease 2021* (pp. 52-60). Bentham E books.
- Hassan N, Jain P, Firdous S, Iqbal Z. Biomaterials for cardiac regeneration. In *Nanomedicinal approaches towards cardiovascular disease 2021* (pp. 73-77). Bentham E books.
- Jain P, Hassan N, Farooq U, Iqbal Z. Nanotechnology based direct cardiac reprogramming for cardiac regeneration. In *Nanomedicinal approaches towards cardiovascular disease 2021* (pp. 106-118). Bentham E books.
- Jain P, Dilnawaz F, Iqbal Z. Insights into Nanotools for Dental Interventions. In *Nanopharmaceuticals: Principles and Applications Vol. 3 2020* (pp. 53-79). Springer, Chem.

RESEARCH AND REVIEW ARTICLE PUBLISHED

Number of papers published: more than 24 and detail of published articles are as follows:

- **Jain P**, Farooq U, Hassan N, Albratty M, Alam MS, Makeen HA, Mirza MA, Iqbal Z. Nanotechnology interventions as a putative tool for the treatment of dental afflictions. *Nanotechnology Reviews*. 2022 Jan 1;11(1):1935-46 (Impact factor-7.5).
- **Jain P**, Farooq U, Nainwal LM, Alam M, Kuruniyan MS, Mirza MA, Iqbal Z. In-silico validation of the proposed treatment strategy of periodontitis. *Combinatorial Chemistry & High Throughput Screening*. 2022 (Impact Factor- 1.345)
- **Jain P**, Garg A, Farooq U, Panda AK, Mirza MA, Noureldeen A, Darwish H, Iqbal Z. Preparation and quality by design assisted (Qb-d) optimization of bioceramic loaded microspheres for periodontal delivery of doxycycline hyclate. *Saudi Journal of Biological Sciences*. 2021 (Impact factor- 3.50).
- **Jain P**, Hassan N, Khatoon K, Mirza M, Naseef PP, Kuruniyan MS, Iqbal Z. Periodontitis and Systemic Disorder—An Overview of Relation and Novel Treatment Modalities. *Pharmaceutics*. 2021.13(8):1175. (Impact Factor- 6.3)
- **Jain P**, Mirza MA, Iqbal Z. Unraveling the Etiology of Periodontitis. *Int J Biomed Investigation* 2021; 4: 131.
- **Jain P**, Mirza MA, Iqbal Z. A 4-D approach for amelioration of periodontitis. *Medical hypotheses*. 2019; 133:109392. (Impact factor- 1.322)
- Siddiqui A, **Jain P**, Alex TS, Ali MA, Hassan N, Haneef J, Naseef PP, Kuruniyan MS, Mirza MA, Iqbal Z. Investigation of a Minocycline-Loaded Nanoemulgel for the Treatment of Acne Rosacea.

Pharmaceutics. 2022 Oct 28;14(11):2322. (Impact Factor-6.5).

- Khan R, **Jain P**, Zakir F, Aqil M, Alshehri S, Mirza MA, Iqbal Z. Quality and In Vivo Assessment of a Fulvic Acid Complex: A Validation Study. *Scientia Pharmaceutica*. 2022 May 19;90(2):33.
- Choudhary A, **Jain P**, Mohapatra S, Mustafa G, Ansari MJ, Aldawsari MF, Alalaiwe AS, Mirza MA, Iqbal Z. A Novel Approach of Targeting Linezolid Nanoemulsion for the Management of Lymph Node Tuberculosis. *ACS omega*. 2022.
- Mohapatra S, Kumar PA, Farooq U, **Jain P**, Hasan N, Shamim A, Ansari MJ, Alalaiwe AS, Aldawsari MF, Mirza MA, Iqbal Z. COVID 19 pandemic challenges and their management: A review of medicines, vaccines, patents and clinical trials with emphasis on psychological health issues. *Saudi Pharmaceutical Journal*. 2022.
- Jahangir MA, **Jain P**, Verma R, Taleuzzaman M, Ahsan MJ, Chettupalli AK, Muheem A, Mirza MA. Transdermal Nutraceuticals Delivery System for CNS Disease. *CNS & Neurological Disorders Drug Targets*. 2022. (Impact Factor- 3.93)
- Zia Q, Azhar A, Hassan N, **Jain P**, Singh M, Mirza M, Ali A, Parveen S, Hasan S, Alothaim AS, Jamal A. Cell Death: a Molecular Perspective. *Current Molecular Biology Reports*. 2021:1-26.
- Gnananath K, Nataraj KS, Rao BG, Kumar KP, Chandrasekhar K, **Jain P**, Mirza MA. Ternary System of Bacogenins with Fulvic Acid and Hydrogenated Soy Lecithin: Preparation, Characterization and, in-vivo Studies. *Current topics in medicinal chemistry*. (Impact Factor- 3.295)
- Yadav VK, **Jain P**, Alex TS, Mirza MA, Iqbal Z. Solubility Enhancement of Diclofenac Using Solid Dispersions. *International Journal of Pharmaceutics & Pharmacology*. 2021;5(1):1-6.
- Singh A, **Jain P**, Khan R, Anwer MK, Ansari MJ, Aqil M, Mirza MA, Iqbal Z. Development, and quality evaluation of chitosan-coated cellulose acetate phthalate-poloxamer enamel adhesive device for the treatment of dentin carious lesion. *International Journal of Polymeric Materials and Polymeric Biomaterials*. 2021; 18:1-4. (Impact Factor- 1.27)
- Taleuzzaman M, **Jain P**, Verma R, Iqbal Z, Mirza MA. Eugenol as a potential drug candidate: A review. *Current Topics in Medicinal Chemistry*. 2021.(Impact Factor- - 3.295)
- Kumar Gupta D, Ali MH, Ali A, **Jain P**, Anwer MK, Iqbal Z, Mirza MA. 3D printing technology in healthcare: applications, regulatory understanding, IP repository and clinical trial status. *Journal of Drug Targeting*. 2021:1-40. (Impact factor- 3.45).
- Mansoor S, **Jain P**, Hassan N, Farooq U, Mirza MA, Pandith AA, Iqbal Z. Role of Genetic and Dietary Implications in the Pathogenesis of Global Obesity. *Food Reviews International*. 2021:1-22. (Impact Factor-2.4).
- **Jain P**, Taleuzzaman M, Kala C, Kumar Gupta D, Ali A, Aslam M. Quality by design (Qbd) assisted development of phytosomal gel of aloe vera extract for topical delivery. *Journal of Liposome Research*. 2020:1-8. (Impact Factor- 2.45)
- **Jain P**, Mirza MA, Talegaonkar S, Nandy S, Dudeja M, Sharma N, Anwer MK, Alshahrani SM, Iqbal Z. Design and In-vitro/in vivo evaluations of a multiple-drug-containing gingiva disc for

periodontotherapy. RSC Advances. 2020;10(14):8530-8. (Impact factor-3. 049)

- **Jain P**, Aqil M, Agarwal SP, Mirza MA, Iqbal Z. Pharmacokinetic evaluation of fulvic acid-ketoconazole complexes: A validation and line extension study. Journal of Drug Delivery Science and Technology. 2019;101469. (Impact factor- 2.606)
- **Jain P**, Jaiswal CP, Mirza MA, Anwer MK, Iqbal Z. Preparation of levofloxacin loaded in-situ gel for sustained ocular delivery: In-vitro and ex vivo evaluations. Drug Development and Industrial Pharmacy. 2019;1-7. (Impact factor-2.367)
- **Jain P**, Hassan N, Iqbal Z, Dilnawaz F. Mesoporous Silica Nanoparticles: A Versatile Platform for Biomedical Applications. Recent patents on drug delivery & formulation. 2018 ;12(4):228-37.
- Hassan N, Singh M, Sulaiman S, **Jain P**, Sharma K, Nandy S, Dudeja M, Ali A, Iqbal Z. Molecular Docking-Guided Ungual Drug-Delivery Design for Amelioration of Onychomycosis. ACS Omega. 2019;4(5):9583-92. (Impact factor- 2.584)

PATENTS FILED

1. Sustained release and site-specific enamel adhesive drug delivery system. Application no. 202011003491. Name of inventors- **Pooja Jain**, Anjali Singh, Rahmuddin Khan, Mohd. Aamir Mirza, Zeenat Iqbal.
2. Spray bandage of povidone-iodine for wound healing. Application NO- 202011026390. Name of inventors- Bushra Aftab Ahmad, Uzma Farooq, **Pooja Jain**, Mohd. Aamir Mirza, Zeenat Iqbal.
3. Multi-pronged therapeutic system directed towards periodontitis. Patent Application no. 202011051634. Name of inventors- **Pooja Jain**, Uzma Farooq, Mohd. Aamir Mirza, Zeenat Iqbal.

MAJOR ACHEIVEMENTS

- Awarded as Young researcher and given Oral presentation on NBRCOM 2021, Organized by Society of Young Biomedical Researchers, India on 6th-10th December 2021.
- Oral presentation in the International Symposium on Medication Therapy Management-2021 held on 12-14th November 2021, jointly organized by Sultan-Ul-Uloom, College of Pharmacy & CliMed Research Solution.
- Poster presented on Second International Symposium via virtual platform on Functional Nanomaterial in Industrial Applications: Academy-Industry-Clinicians Meet 14-16th July 2020.
- Poster presented on 7th International Congress of Society of SFEC 2020 held at Jamia Hamdard, New Delhi on 15-17th February, 2020.
- Poster presented on 6th world congress on nanomedical science organized by Jamia Hamdard, New Delhi on 7th-19th January, 2019.
- Successfully participated in the Impact Week Delhi 2018.

- **Achieve 3rd position in “National Anveshan Student Research Convention 2017-2018”, held at Chitkara University, Punjab during 14th-15th March 2018.**
- Achieved 1st position in North zone Anveshan Student Research Convention 2017-2018”, held at Manav Rachna International institute of research & studies during 26th-27th Feb 2018.
- Received the Best poster award in National Symposium on Research Methodology held on 7th March, 2018 at Jamia Hamdard.
- Poster presented on International pharmaceutical conference and Pharma ratan award distribution ceremony in November 2017.
- Poster presented on 3rd one day national seminar held at Jamia Hamdard in May 2017.
- Poster presented on National conference held at Galgotias University in April 2017.
- Poster presented on India-International Science Festival (IISF) held at CSIR New Delhi in December 2017.
- Poster presented and got the first prize on National Seminar held at Lloyd School of Pharmacy in November 2016.
- Participated in the intercollegiate debate competition organized by Sentis Pharma at Niper Mohali in 2015.
- Participated in Personality Development Program in May-June 2015 by Noble Education Foundation in collaboration with India Islamic Cultural Centre, New Delhi.

PERSONAL DOSSIER

- Father's Name : Rajesh Jain
- Mother's Name : Sarita Jain
- Gender : Female
- Date of birth : 4th July 1991
- Marital Status : Married
- Nationality : Indian
- Languages Known : English and Hindi
- Permanent Address : F-4, Aman Residency IX, Sector-5, Rajendra Nagar, Sahibabad, Ghaziabad, UP-201005.

REFERENCES

- **Dr. Zeenat Iqbal**
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- **Dr. Mohd. Aamir Mirza**
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- **Dr. A. Selvapandiyan**
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- **Dr. Akbar Naqvi**
HAH Centenary Hospital,
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DECLARATION

I do hereby declare that all the information given above is true to the best of my knowledge and belief.

Place: New Delhi

Date:

Pooja Jain