

# CURRICULUM VITAE

## **Dr. JAYAMANTI PANDIT**

Patent agent reg. IN/PA4392

Ph.D (Pharmaceutics)

Ex. PostDoctoral fellow

Jamia Hamdard, New Delhi

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I am a qualified and accomplished researcher and professional in the field of Pharmaceutics and Intellectual Property Right (IPR) with a positive intent to work with an organization of good reputed. I have made a significant contribution through my research work and publication in high impact journals. I am dedicated to continuous learning through online sources and workshops on related topics.

### **Research area**

- ❖ Development of vesicular, particulate and fibers as carrier system
- ❖ Ocular drug delivery
- ❖ Transdermal drug delivery
- ❖ Pharmacokinetics of various dosage form

### **Skill known**

- Prior art search/ Patentability assessment
- Patent analysis
- Patent landscape report
- Drafting of patent application

### **Professional experience** (in chronological order)

- Postdoctoral research experience under ICMR fellowship in Dept. of Pharmaceutics, SPER, Jamia Hamdard, New Delhi from Jan, 2021 to May, 2023.
- Worked as IPR trainee at National Research and Development Corporation (NRDC), New Delhi, under the prestigious Women-Scientist Scholarship Scheme WOS-C (KIRAN IPR) from Aug 2019 to July 2020.
- Worked as Assistant professor at K.R.Mangalam University, Sohna Road, Gurgaon, from Aug 2017 to Sept 2018.
- Worked as Senior Lecturer at Ram-Eesh Institute of Vocational and Technical Education, Greater Noida, Dist- Gautam Budh Nagar, (U.P), from July 2010 to Oct 2010.

- Worked as Lecturer at Technocrate Institute of Technology, Anand Nagar, Bhopal, (M.P), from April 2006 to April 2010.

### **Education Professional**

- ❖ Worked as postdoctoral fellow under the **Research Associate (ICMR) fellowship** since Jan 2021 to May 2023 in Jamia Hamdard, New Delhi.
- ❖ Conferred **Ph.D. (Pharmaceutics)** degree by Jamia Hamdard University, New Delhi in Nov 2017.
- ❖ Qualified for **M. Pharm.** degree in 1<sup>st</sup> division (75.5%) from Dr. Hari Singh Gour University, Sagar (M.P.) in 2006.
- ❖ Qualified for **B. Pharm.** degree in 1<sup>st</sup> division (70.04%) from Dr. Hari Singh Gour University, Sagar (M.P.) in 2003.

### **Education Academic**

- ❖ Passed *Senior School Certificate Examination* of CBSE in 1<sup>st</sup> division (73.0%) in 1998.
- ❖ Passed *Secondary School Examination* of CBSE in 1<sup>st</sup> division (85.5%) in 1996.

### **Job description**

#### **IPR**

- Evaluated applications for patent assistance by NRDC (45 applications)
- Performed prior art search or patentability assessment using paid /non-paid data bases (45 application)
- Involved in the assessment of application received for annual innovation awards of NRDC under the category of Budding/ Societal/Start up etc (35-40 application).
- Skilled in searching and patent analysis in the area of pharmaceutical formulation.
- Completed patent landscape reports on PPE and herbal drug delivery system for breast cancer

#### **Teaching**

##### **Class Teaching:** D.Pharm, B.Pharm. M.Pharm (Pharmaceutics)

- Undergraduate theory and practical classes in; Health education and community pharmacy, General Pharmacy, Physical Pharmacy, Pharmaceutical technology, Biopharmaceutics and P'kinetics, and Pharmaceutical engineering.
- Postgraduate theory and practical in; Product development formulation, and Novel drug delivery systems (NDDS).
- Theory and Practical evaluations

- Guidance to students at under graduate level project.

#### **Honours/achievements/awards/ reviewer**

- **Qualified Patent agent examination** in first attempt in 2022 and registered as a Patent agent
- **Awarded certificate of appreciation by Jamia Hamdard for high impact factor (>9) publications in the year 2022.**
- Awarded research fellowship as **Research Associate (ICMR)** in 2020.
- Awardees of prestigious “**Women-Scientist Scholarship Scheme WOS-C (KIRAN IPR)** in Intellectual Property Rights granted by Patent Facilitating Centre, Technology Information Forecasting Assessment Council (TIFAC), Department of Science and Technology, Govt. of India.
- **CSIR-SRF** for PhD at Jamia Hamdard, Delhi for the period 1<sup>st</sup> April 2013- 31<sup>st</sup> March 2017.
- **Junior Research Fellowship (UGC)** for Post-Graduation at Dr. H. S. Gour University, Sagar, for the period 2003-2005.
- **Awarded certificate of appreciation by Jamia Hamdard for high impact factor publications in the year 2018**
- Won consolation prize for poster presentation in **National Seminar on Biotechnology in health care: challenges and opportunities** on February 15th & 16th, 2017.
- Invited to Review manuscript from **Drug Delivery, International Journal of Biological macromolecule, British Journal of Pharmaceutics Research, Journal of Drug Targeting, Ophthalmology Research: An International Journal, Advance in Polymer Technology and Pharmaceutical Nanotechnology**. I am also associated with **Journal of Pharmacy and Bioallied Sciences** as reviewer.

#### **Online course/ workshop/ certificate programme**

- Successfully completed the distance learning **GENERAL COURSE ON INTELLECTUAL PROPERTY (DL101)** from October 31 to December 14, 2019 by WIPO ACADEMY
- Participated in Webinar Workshop on “**Patent Drafting**” Conducted by Patent Information Centre & TISC Department of Science & Technology, GoR from **1<sup>st</sup> to 6<sup>th</sup> May, 2020**.
- Participated in Webinar Workshop on “**Indian Patents Act**” Conducted by Patent Information Centre & TISC Department of Science & Technology, GoR from **29<sup>th</sup> May –3<sup>rd</sup> June, 2020**.

- Participated in the AISNP Webinar Lecture Series on the topic of “**Overview of the IP Landscape**” delivered by **Mr. John Cabeca**, United States Intellectual Property Attaché for South Asia, American Center 24, Kasturba Gandhi Marg, New Delhi, held on **20 May, 2020**.
- Attended the session on “**Patent Prosecution Challenges and Strategies in India**” conducted by The Frontiers Legal and Turnip Innovations on **25 July, 2020**.
- Completed the **Online Certificate Course in Patent Searching for Beginners**, jointly organized by IP Moment and Department of Environmental Science and Department of Biotechnology of SRKI College.
- Attended the Online International Conference on **Research Innovation, IPR & MSME Opportunities in Pharmaceutical Sciences**, organized by IIMT College of Pharmacy, Greater Noida on **March 5, 2021**.
- Completed Online Elementary **FDP** on “**Technological advancement and manufacturing of Biosimilars for Cancer therapy: Present hurdles and Future prospects**” from **2021-06-21 to 2021-06-25** by National Institute of Pharmaceutical Education and Research, Hajipur organized by AICTE Training and Learning (ATAL) Academy.
- Attended the Online International Seminar Organized by ISF College of Pharmacy, Moga in collaboration with JoVE, Cambridge USA entitled “**Advancements in Pharmaceutical Education and Research: Current Insight into Molecular Biology Techniques**” on **22<sup>nd</sup> October, 2021**.

#### **Seminar/symposium/workshop attended**

- 56<sup>th</sup> Indian Pharmaceutical Congress”, Kolkata, India, 2004.
- “National Seminar on Controlled & Targeted Drug Delivery: Nanotechnology”, Sagar, India, 2007.
- National Seminar on “Current Challenges in Clinical Research and New Drug Development” conducted by IPS Academy, Indore, M.P., India, July 2008.
- National Seminar on “Emerging Approaches in Phytotherapy and Cancer Research” held at Technocrats Institute of Technology, Bhopal, M.P., India, April, 2009.
- Winter School on Emerging Areas in Pharmaceutical Sciences, organised by UGC Centre of advance study, Panjab University, Chandigarh held on 11 to 16 Jan, 2010.
- 65<sup>th</sup> Indian Pharmaceutical Congress”, Delhi NCR, India, 2013.
- Participated in Sodhganga: A Repository of Indian Theses and Dissertation, Jamia Hamdard,

New Delhi, 5 Dec, 2013.

- Attended awareness seminar on “ Intellectual Property Rights (IPR) & Regulatory Affairs”, Jamia Hamdard, New Delhi, Nov, 2015.
- National conference on “Reassessing the Basic Elements of Quality Assurance for Pharmaceutical Performance using ICH Q10 Guidelines ” held at Jamia Hamdard, New Delhi, 18 March, 2016.
- National conference on “ PAT and QbD – The Enablers of Pharmaceutical Quality ” held at Jamia Hamdard, New Delhi, 17March, 2016.
- 5th International Conference on “IPR: Technology Financing and Intellectual Property Rights” held at Le Meridian Hotel (Soverign I), New Delhi on 03-04 December 2019
- Attended an advanced workshop on “ Intellectual property rights in defence & aerospace R&D” held at NASC Complex, Pusa Campus, New Delhi on 05-06 December, 2019
- 12<sup>th</sup> Global Intellectual Property Convention organized by Global Intellectual Property Convention (GIPC) at New Delhi on January 8-10, 2020

#### **Oral/ poster presentations**

- Presented poster in 13<sup>th</sup> APTI Convocation-2008, organized by SLT Institute of Pharmaceutical Sciences, Guru Ghasidas University, Bilaspur, Chhattisgarh (India).
- Oral Presentation on the topic “PLGA nanoparticles for an extended delivery of bevacizumab to retina: formulation, optimization and in vitro characterization” in the **National Conference on Nanotechnology and Renewable Energy-2014** held in April 28-29, 2014 , Organized By Department of Applied Sciences and Humanities, Jamia Millia Islamia, New Delhi -110025 (India).
- Presented poster on the topic “Bevacizumab loaded chitosan coated PLGA nanoparticles as novel drug delivery system for the treatment of Diabetic Retinopathy” in UGC-SAP (DRS-I) Sponsored **National Seminar on Biotechnology in health care: challenges and opportunities** on February 15th & 16th, 2017.
- Presented poster on the topic “Mucoadhesive Drug Carriers for the Posterior Ocular Delivery of Therapeutics” in **IASTAM Conclave 2022** organized by CoE in Unani Medicine, BNCL, Jamia Hamdard on July 29-30, 2022.
- Presented poster in 3rd one day symposium on “**Sensors for Society**” organized by **ECS Jawaharlal Nehru University** Student Chapter, JNU, New Delhi, India on 12th Jan, 2023.

## Membership of the professional bodies

- Life Member, Association of the Pharmaceutical Teachers of India (APTI).
- Registered Pharmacist of M.P state.

## Publications

1. Babu Ram Garg, Arun Kumar, Minakshi Garg, **Jayamanti Pandit** and Narendra K. Jain, Double liposome mediated dual therapy for AIDS related opportunistic fungal infection and AIDS, **International journal of pharmaceutical sciences and research**, vol. 2(3), 2011, 620-636. **(IF 0.250)**
2. **Jayamanti Pandit** and Yasmin Sultana. Vascular damage of retina in diabetic retinopathy and its treatment. **Exper Rev. of Ophthalmol.**, 2012, 7(1); 73-86.
3. Shefali Katiyar, **Jayamanti Pandit**, Rabi Sankar Mondal, Anil K. Mishra, Krishna Chuttani, Mohd. Aqil, Asgar Ali, Yasmin sultana. In situ gelling dorzolamide loaded chitosan nanoparticles for the treatment of glaucoma. **Carbohydrate Polymers**. 2014,102, 117– 124. **(IF 10.732)**
4. **Jayamanti Pandit**, Minakshi Garg, Narendra Kumar Jain. Miconazole nitrate bearing ultraflexible liposomes for the treatment of fungal infection. **J Liposome Res**, 2014,24(2),163-169(DOI: 10.3109/08982104.2013.871025) **(IF 3.648)**
5. **Jayamanti Pandit**, Yasmin Sultana, Mohd. Aqil, PLGA nanoparticles for an extended delivery of bevacizumab to retina: formulation and in vitro characterization. **Advanced Science Letters**, 2014, 20(7-9), pp. 1588-1593(6).
6. **Jayamanti Pandit**, Yasmin Sultana, Mohd Abul Kalam, Newer technologies in oral vaccine delivery. **Current Drug Therapy**, 9, 2014,173-187.
7. Mohammed Ashif Khan, **Jayamanti Pandit**, Yasmin Sultana, Sarwat Sultana, Asgar Ali, Mohammed Aqil, and Meenakshi Chauhan, Novel carbopol-based transdermal gel of 5-fluorouracil for skin cancer treatment: *in vitro* characterization and *in vivo* study. **Drug Delivery**, 2015;22(6):795-802. (doi:10.3109/10717544.2014.902146) **(IF 6.419)**
8. Tausif Alam, **Jayamanti Pandit**, Divya Vohora, Mohd. Aqil, Asgar Ali, Yasmin Sultana, Optimization of nanostructured lipid carriers of lamotrigine for brain delivery: in vitro characterization and in vivo efficacy in epilepsy. **Expert Opinion on Drug Delivery**, 2015,

12(2):181-94. (IF 6.648)

9. **Jayamanti Pandit**, Yasmin Sultana & Mohd Aqil, Chitosan-coated PLGA nanoparticles of bevacizumab as novel drug delivery to target retina: optimization, characterization, and in vitro toxicity evaluation, **Artificial Cells, Nanomedicine, and Biotechnology**, 2017.1397-1407. DOI: 10.1080/21691401.2016.1243545. (IF 5.678)
10. Kawish SM, Ahmed S, Gull A, Aslam M, **Pandit J**, Aqil M, Sultana Y. Development of nabumetone loaded lipid nano-scaffold for the effective oral delivery; optimization, characterization, drug release and pharmacodynamic study. **Journal of Molecular Liquids**. 2017, 514-522. (IF 6.633)
11. Imran Ahmad, **Jayamanti Pandit**, Yasmin Sultana, Anil K Mishra, Puja Panwar Hazari, Mohd. Aqil. Optimization by Design of Etoposide Loaded Solid Lipid Nanoparticles for Ocular Delivery: Characterization, Pharmacokinetic and Deposition Study. **Materials Science & Engineering C**, 100, 2019, 959-970. (IF 7.328)
12. **Pandit, Jayamanti**, Yasmin Sultana, and Mohd Aqil. "Chitosan coated nanoparticles for efficient delivery of bevacizumab in the posterior ocular tissues via subconjunctival administration." **Carbohydrate Polymers**, 267 (2021): 118217. (IF 10.732)
13. Solanki, Pavitra, Mohd Danish Ansari, Iram Khan, Rao Nargis Jahan, **Jayamanti Pandit**, Mohd Aqil, Farhan J. Ahmad, and Yasmin Sultana. "Repurposing pentosan polysulfate sodium as hyaluronic acid linked polyion complex nanoparticles for the management of osteoarthritis: A potential approach." **Medical Hypotheses** (2021): 110713. (IF 4.411).
14. Ansari Mohd Danish, Pavitra Solanki, **Jayamanti Pandit**, Rao Nargis Jahan, Mohd Aqil, and Yasmin Sultana. "Fabrication and optimization of raloxifene loaded spanlastics vesicle for transdermal delivery." **Journal of Drug Delivery Science and Technology** (2022): 103102. (IF 5.062)
15. Ansari Mohd Danish, Zoya Saifi, **Jayamanti Pandit**, Iram Khan, Pavitra Solanki, Yasmin Sultana, and Mohd Aqil. "Spanlastics a Novel Nanovesicular Carrier: Its Potential Application and Emerging Trends in Therapeutic Delivery." **AAPS PharmSciTech** 23, no. 4 (2022): 1-12. (IF 4.026)
16. Iram Khan, **Jayamanti Pandit**, Shakeeb Ahmed, Saima Zameer, Nikita, Saeem Ahmad, Shahnaj Bano, Mohd Danish Ansari, Pavitra Solanki, Rao Nargis Jahan, Ayesha Waheed, Mohd Aqil, Yasmin Sultana, Development and evaluation of biodegradable polymeric

lomustine nanofibres for the efficient tumor targeting: In vitro characterization, ex vivo permeation and degradation study, **Journal of Drug Delivery Science and Technology**, (2022):103685. (IF 5.062)

17. Ahmad, Saeem, Iram Khan, **Jayamanti Pandit**, Nasr A. Emad, Shahnaj Bano, Khalid Imtiyaz Dar, M. Moshahid Alam Rizvi, Mohd Danish Ansari, Mohd Aqil, and Yasmin Sultana. "Brain targeted delivery of carmustine using chitosan coated nanoparticles via nasal route for glioblastoma treatment." **International Journal of Biological Macromolecules** 221 (2022): 435-445. (IF 8.025)

### Contributed chapters in books

- **Pandit, Jayamanti**, Mohammed Aqil, and Yasmin Sultana. "**Terpenes and essential oils as skin penetration enhancers.**" *Percutaneous Penetration Enhancers Chemical Methods in Penetration Enhancement: Modification of the Stratum Corneum* (2015): 173-193.
- **Pandit, Jayamanti**, Mohd Aqil, and Yasmin Sultana. "**Nanoencapsulation technology to control release and enhance bioactivity of essential oils.**" In *Encapsulations*, pp. 597-640. Academic Press, 2016.
- **Pandit, Jayamanti**. "Distillation" in the book "**Unit Operations in Pharmaceutical Engineering**" publisher, CBS, New Delhi, India, 2018.
- Gilani, Sadaf Jamal, Md Rizwanullah, Syed Sarim Imam, **Jayamanti Pandit**, Mohd Aqil, Meraj Alam, and Sarwar Beg. "**QbD considerations for topical and transdermal product development.**" In *Pharmaceutical Quality by Design*, pp. 131-150. Academic Press, 2019.
- Jahangir, Mohammed Asadullah, Syed Sarim Imam, and **Jayamanti Pandit\***. "**Impact and Role of Stability Studies in Parenteral Product Development.**" In *Micro-and Nanotechnologies-Based Product Development*, pp. 225-234. CRC Press, 2021.
- **Pandit, Jayamanti**, Md Sabir Alam, Jamilur R. Ansari, Monisha Singhal, Nidhi Gupta, Aafrin Waziri, Kajal Sharma, and Faheem Hyder Pottoo. "**Multifaced applications of nanoparticles in biological science.**" In *Nanomaterials in the Battle Against Pathogens and Disease Vectors*, pp. 17-50. CRC Press, 2022.
- **Pandit, Jayamanti\***, Md Sabir Alam, Md Noushad Javed, Aafrin Waziri, and Syed Sarim Imam. "**Emerging Roles of Carbon Nanohorns As Sustainable Nanomaterials in Sensor, Catalyst, and Biomedical Applications.**" In *Handbook of Green and Sustainable*



*Nanotechnology: Fundamentals, Developments and Applications*, pp. 1-27. Cham: Springer International Publishing, 2023.

- Umme Jiba, **Jayamanti Pandit**, Yasmin Sultana. “**Role and responsibilities of pharmacist in health care system**” In *Pharmacy: Health Care*, pp. 67-74. Kripa-Drishti Publications, Pune, 2023.

### **Extra-curricular activities**

- Organized various functions, seminars and cultural activities at the department/college level.
- Secured first position in quiz competition in college during 2003-2004.
- Secured first position in quiz competition and painting competition in University hostel annual day celebration during 2005-2006
- Organised industrial tour and visited Eros Pharma Ltd. (Bangalore), Glaxo Smithkline (Bangalore), Wyeth (Goa), German Remedies (Goa), Alkem (Mumbai) during student life.
- Organised industrial tour as faculty during teaching (Utty, Maisur and Bangalore).

### **Personal details**

Date of Birth	: 19 <sup>th</sup> June, 1981
Father's Name	: Shri R. B. Pandit
Husband's Name	: Mr. Pawan Kumar
Nationality	: Indian
Sex	: Female
Marital	: Married
Language known	: Hindi, English
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### **Reference**

**Dr. Yasmin Sultana**  
**(PhD, Supervisor)**  
**Professor, Head**  
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