

CURRICULUM VITAE

SARITA RANI

Ph.D Research scholar
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Permanent Address:

D/O Lt. Ajit Singh
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Tehsil: Bahadurgarh
Haryana (INDIA)

Objective: Aspire to reach heights in my profession through my determination, dedicated hard work, professional ability & exposure.

Educational Qualifications:

Examination	Examining Board/University	Year of Passing	Percentage Obtained	Specilaization	Division and Rank
Ph.D (Registered on 10 August 2017)	Central University of Rajasthan, India	Pursuing	Pursuing	Pharmacy	Pursuing
M. Pharm.	Central University of Rajasthan, India	2016	5.62/7.00 CGPA	Pharmaceutical chemistry	I
B. Pharm.	Maharaja Surajmal Institute of Pharmacy, GGSIU, New Delhi(INDIA)	2014	80	Pharmaceutical Sciences	I
Intermediate/H.S.C. or equivalent/ 12 th	Central Board of Secondary Education	2009	76.8	Science	I
Matriculation / S.S.C./ 10 th	Central Board of Secondary Education	2007	82.8	Science	I

Awards/Fellowship

- DBT International travel grant 2019 for AAPS conference, San Antonio, Texas, USA.
- Got 3rd prize in Rapid Ph.D Presentation on Science Day, February 2019.
- Central University of Rajasthan, Top 3 students fellowship during masters from 2015-2016.
- GPAT 2015 and 2017 conducted by AICTE, New Delhi, India.

Project Undertaken

- Project in M.Pharmacy (II Sem.) on the topic of "Synthesis and Characterization of PEG-PLA conjugated polymeric micelles for the better delivery of Anti-TB drugs".
- Project in M.Pharmacy (III and IV Sem.) on the topic "HPMA-PLGA based co-polymer NPs for anti-TB drug delivery.
- Minor project in B.Pharm "Pharmacoeconomics".

Research Experience

- Worked as a **Project Assistant-II** in CSIR-IIIM, Jammu. IND Filing of anti cancer lead IIIM (N)-290/13 (CDK inhibitor) under MLP-5008 from Nov. 2016 to July 2017.

Patents

- Sandip S Bharate, Vikas Kumar, Rohit Singh, **Sarita Rani**, M Gupta, Ajay Kumar, Sonali B Bharate B, Ram A Vishwakarma. Sustained release formulations of *Crocus sativus*. International application no. WO 2019/077621 A1.

Publications

1. **Sarita Rani**, Umesh Gupta. HPMa-based polymeric conjugates in anticancer therapeutics. Drug Discovery Today. 2020, 25, 997-1012. **(Impact factor: 7.85)**.
2. **Sarita Rani**, Rakesh K. Sahoo, Kartik T. Nakhate, Ajazuddin, Umesh Gupta. Biotinylated HPMa centered polymeric nanoparticles for Bortezomib delivery. International Journal of Pharmaceutics 579 (2020) 119173. **(Impact factor: 5.87)**.
3. Rakesh K. Sahoo, Avinash Gothwal, **Sarita Rani**, Kartik T. Nakhate, Ajazuddin, Umesh Gupta. PEGylated Dendrimer Mediated Delivery of Bortezomib: Drug Conjugation versus Encapsulation. International Journal of Pharmaceutics 584 (2020) 119389. **(Impact factor: 5.87)**.
4. Sudhakar Rajoria, **Sarita Rani**, Dasharath Chaudhari, Sanyog Jain, Umesh Gupta. Glycine-Poly-L-Lactic Acid Copolymeric Nanoparticles for the Efficient Delivery of Bortezomib. 2019, Pharmaceutical Research **(Impact factor: 4.20)**.
5. **Sarita Rani**, Rafquat Rana, Gaurav K. Saraogi, Vipin Kumar, Umesh Gupta. Self-Emulsifying Oral Lipid Drug Delivery Systems: Advances and Challenges. AAPS Pharm SciTech. 2019, 20, 129. **[Impact Factor: 3.24]**
6. **Sarita Rani**, Avinash Gothwal, Pawan K. Pandey, Devendra S. Chuahan, Umesh D. Gupta and Umesh Gupta. HPMa-PLGA Based Nanoparticles for Effective In Vitro Delivery of Rifampicin. Pharmaceutical Research. 2019, 36, 19. **(Impact factor: 4.20)**
7. Anurag Kumar Singh, Avinash Gothwal, **Sarita Rani**, Monika Rana, Anuj K. Sharma, Awesh K. Yadav, Umesh Gupta. Dendrimer Donepezil Conjugates for Improved Brain Delivery and Better in Vivo Pharmacokinetics. ACS Omega. 2019, 4, 4519-4529. **(Impact factor: 3.5)**
8. Ashish Garg, Sweta Garg, Nitendra K. Sahu, **Sarita Rani**, Umesh Gupta, Awesh Yadav. Heparin appended ADH-anionic polysaccharide nanoparticles for site-specific delivery of usnic acid. International J of Pharmaceutics. 2019, 527, 238-53. **(Impact factor 5.87)**
9. **Sarita Rani**, Avinash Gothwal, Iliyas Khan, Praveen K. Pachouri, N. Bhaskar, Umesh D. Gupta, Devendra S. Chuahan. Umesh Gupta. Smartly Engineered PEGylated Di-Block Nanopolymeric Micelles: Duo Delivery of Isoniazid and Rifampicin Against Mycobacterium tuberculosis. AAPS Pharm SciTech. 2018, 19, 3237-3248. **(Impact factor: 3.5)**
10. Pawan K. Pandey, Ashok K. Sharma, **Sarita Rani**, Gaurav Mishra, Gopal Kandasamy, Ajit K. Patra, Monika Rana, Awesh K. Yadav, Umesh Gupta. MCM-41 Nanoparticle for Brain Delivery: Better Choline-Esterase and Amyloid Formation Inhibition with Improved Kinetics. ACS Biomater. Sci. & Eng. 2018, 4, 2860-2869. **[Impact Factor: 4.75]**
11. Sonam Choudhary, **Sarita Rani**, Lokesh Gupta, Umesh Gupta. Impact of Dendrimer on Solubility of Hydrophobic Drugs. Frontiers in Pharmacology. 2017, 8, 1-23. **[Impact Factor: 5.81]**
12. Anurag Kumar Singh, Sonam Choudhary, **Sarita Rani**, Ashok Kumar Sharma, Lokesh Gupta and Umesh Gupta (2015) Dendrimer-drug conjugates in drug delivery and targeting. Pharmaceutical Nanotechnology. 2015, 3, 239-260.

Book Chapter

1. **Sarita Rani**, Rakesh K. Sahoo, Vinay Kumar, Umesh Gupta. Targeted Nanomedicine Delivery to Human Epidermal Growth Factor. Elsevier (Communicated)
2. **Sarita Rani**, Ankur Kaul, Anil K. Mishra, Umesh Gupta. Extra pulmonary TB: Changing paradigm in diagnosis. Strategies to Overcome Superbug Invasions: Emerging Research and Opportunities. IGI Global 2021.
3. **Sarita Rani**, Neetu Sehrawat, Sudhakar Rajoria, Umesh Gupta. Role of Dendrimers in Drug Delivery and Targeting. Bentham Sciences, 2021.
4. Rakesh K. Sahoo, **Sarita Rani**, Vinay Kumar, Umesh Gupta. Zinc Oxide Nanoparticles for Bioimaging and Drug Delivery. In Nanostructured Zinc oxide: Synthesis, Properties and Applications. Chapter 17, Elsevier 2020.
5. Narendra Kumar Jain, Avinash Gothwal, **Sarita Rani**, Umesh Gupta. Toxicity and Biocompatibility Aspects of Dendrimers. Pharmaceutical Applications of Dendrimers. Micro and Nano Technologies. Elsevier 2020, 251-274.

6. **Sarita Rani**, Ashok Kumar Sharma, Avinash Gothwal, Umesh Gupta. "Polymeric Nanoparticles in targeting and delivery of drugs". Nanotechnology based Approaches for Targeting and Delivery of Drugs and Genes. Elsevier 2017; 223-255.

Conferences

1. Poster presentation in an international conference "**AAPS (American Association of Pharmaceutical Scientists) Pharm Sci 360**" entitled "Design, Synthesis and Characterization of Biotinylated Polymeric Micelles to Combat Breast Cancer" at San Antonio, Texas, USA from 3-6 November, 2019.
2. Poster presentation in conference "**CRS-IC (Controlled Release Society Indian Chapter) 17th International Symposium**" on Advances in Technology and Business Potential of New Drug Delivery Systems" entitled as "Biotinylated Polymeric Micelles For Cancer Therapy: Synthesis, Characterization And Evaluation" at The Lalit, Sahara Airport Road, Andher-Mumbai, India on 1-2 February, 2019.
3. Participated in conference "**IMB - Impact of Molecular Biology on Science and Interface 2015**" at Central University of Rajasthan, Kishangarh-Rajasthan, India.
4. Participated in paper entitled "**Pharmacovigilance: An Approach Towards Drug Safety**" in AICTE Sponsored National Seminar Held At I.T.S.Paramedical (Pharmacy) College, Muradnagar, Ghaziabad on 5th & 6th April, 2013.
5. Participated in Extempore competition at Faculty Of Pharmacy, Jamia Hamdard in their annual festival "**Rx 2013**" on 21st March, 2013.
6. Participated in **10th Knowledge Millennium Summit Inaugurated by the Honble President of India** on "Curing The Incurables: Sharing of Innovations" at Vigyan Bhawan, New Delhi on 16th January, 2013.
7. Participated and volunteered in **CSIR Sponsored National Seminar** On "IPR in Pharmacy Patent Drafting & Filling" on 16th February, 2013 at Mahraja Surajmal Institute Of Pharmacy, C-4, Janakpuri, New-Delhi-110058.
8. Volunteered in "**National Pharmacy Week**" from 17th to 23rd November 2013 certified by "Indian Pharmaceutical Association".
9. Certificate from "**Delhi Pharmacy Council**" for volunteering in "52nd National Pharmacy Week" from 17th to 23rd November 2013.
10. **Industrial Trip**, at Unimax Laboratories, Plot No. 7, Sector 24, Faridabad, Haryana on 17th October 2013.

Professional Expertise

- Synthesis and characterization of polymer conjugation, ligand conjugation and targeted drug delivery.
- Nanotechnological approaches for the cancer targeting through different ligands.
- Cell culture techniques like MTT assay, Migration assay, Quantitative Cell Counting techniques, Cell uptake studies specially with different cancer cell lines.
- Experience Gel electrophoresis, HPLC, Microplate reader, Western Blot, and fluorescence microscope etc.

Pharmacy Registration, Professional Membership

- Registered Pharmacist at Haryana Pharmacy Council, Panchkula, Haryana (India) with Registration No. 27968.
- CRS-IC (Controlled Release Society) membership number 1955.
- AAPS Pharm Sci Tech 360 membership 260716.

Industrial Training

- Training at "ABYSS Pharma Pvt. Ltd." on Pharmaceutical Manufacturing & Quality Control from June 5, 2012 to July 20, 2012.

Professional Qualification/ Honor, awards

- International Travel Grant-2019 from Department of Biotechnology (DBT), Govt. of India for attending a conference of AAPS (American Association of Pharmaceutical Scientists) at San Antonio, Texas, USA.
- Got IIIrd prize in Rapid presentation on Science Day, Feb. 2020.
- Qualified "WIPO 2016" (WIPO Certificate Exam Qualified (World Intellectual Property Organization, Switzerland).
- GPAT 2015 and 2017 qualified, conducted by AICTE, New Delhi (INDIA).

Technical and Computer Skills

- Handling of HPLC (Shimadzu), NMR (Nuclear Magnetic Resonance, Bruker Ascend 500.3 MHz), Infrared Spectroscopy (PerkinElmer FT-IR), UV-Visible Spectroscopy (Carry series 100 UV-Vis. Spectroscopy), Microplate Reader (FLUOstar, Omega), Fluorescence Microscope (Olympus), Gel Electrophoresis, Western Blot, Cell counter, Ultra-Sonicator (Q-sonica), etc.
- Handling on cell culturing of cancer cell lines and other assays.
- Works on Schrödinger software on version 9.3 Maestro on PHASE Module, Chem BioDraw, GraphPad Prism, Origin, Minitab, SciFinder, etc.
- Operating Systems-M.S. Office Package. Free hands on typing, routinely net surfing and computer basics.

Extra-curricular Activities and strong attributes

- Organized various functions, seminars and cultural activities at the department.
- Participated in sports activities (Badminton tournament) at school level.

Community Services

- Participated as an active volunteer of NSS for university organized programmes such as social welfare, awareness of safe use of medication and hygiene etc.

Personal Details

Date of Birth :	June 16 th , 1992
Father's Name :	Lt. Ajit Singh
Mother's Name:	Sharda Devi
Nationality :	Indian
Category :	General
Marital Status :	Married
Languages Known :	English, Hindi

Professional Reference(s):

Dr. Umesh Gupta

(PhD, Post Doc. USA)

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Prof. Amit K. Goyal

(PhD)

Professor

Department of Pharmacy

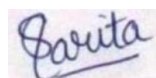
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I assure that the above particulars given by me are true to the best of my knowledge.



(Sarita Rani)