

## **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. 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)**
8. 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)**
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 Biomat. 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.