Brief Profile

Name	**:**	**Dr. Shweta Dumoga**
Date of Birth	**:**	**19th July 1989**
Educational Qualification		
• ***Ph.D.***	**:**	**Applied Chemistry (2019)**
•***M.Sc***	**:**	**Chemistry (2011)**
•***B.Sc***	**:**	**CBZ (2008)**
Work Experience		
• ***Teaching***	**:**	**From 19th April 2021 onward**
• ***Research***	**:**	**9 years including PhD**
E-mail ID	**:**	**Shweta.dumoga@miet.ac.in**
Contact No.	**:**	**9555181646**
Area of Interest	**:**	Formulations of Lipidic and Polymeric Nanoparticles for Drug Delivery Applications
Teaching		
• ***Subjects Taught at UG Level***	**:**	**Organic Chemistry**
• ***Subjects Taught at PG Level***	**:**	**NA**
Research Publications		
• ***Journals***	**:**	**9 (one is just accepted)**
• ***Conferences***	**:**	**NA**
• ***Book Chapters***	**:**	**NA**
No. of National/International Conferences attended/ Paper Presented	**:**	**4**
STC/FDP/Summer/Winter Schools/Workshops /Seminars attended	**:**	**1**
Awards/Honors	**:**	**Junior Research Fellow 2012** **Senior Research Fellow 2014** **GATE 2012**

LIST OF PUBLICATIONS

Research Papers Published in International Journals:

- Sahil Malhotra, Shweta Dumoga, Akshay Joshi, Sujata Mohanty, Neetu Singh. Polymeric Micelles Loaded Hybrid Nanovesicles Enhances the Therapeutic Potential of a Reversible Topoisomerase Inhibitor Camptothecin in Mice Models. Acta biomaterialia, 2021, 121, 579-591 **(IF: 7.242)**
- Tejinder Kaur, Shweta Dumoga, Veena Koul, Neetu Singh. "Modulating Neutrophil Extracellular Traps for Diabetic Wound Healing". Biomaterials Science, 2020, 8, 3212-3223 **(IF: 6.183)**
- Sahil Malhotra, Shweta Dumoga, Parul Sirohi, Neetu Singh. "Red Blood Cells Derived Vesicles for delivery of lipophilic drug camptothecin". ACS Appl. Mater. Interfaces, 2019, 11, 25, 22141-22151**(IF: 8.758)**
- Shweta Dumoga, Yogesh Rai, Anant Narayan Bhatt, Anjani Kumar Tiwari, Surendra Singh, Anil K. Mishra, and Dipti Kakkar. "Block Copolymer Based Nanoparticles for Theranostic Intervention of Cervical Cancer: Synthesis, Pharmacokinetics, and in Vitro/in Vivo Evaluation in HeLa Xenograft Models." ACS Appl. Mater. Interfaces, 2017, 9 (27), pp 22195–22211 **(IF: 8.758)**
- Shweta Dumoga, Namit Dey, Anivind Kaur, Surendra Singh, Anil K. Mishra and Dipti Kakkar. "Novel biotin-functionalized lipidic nanocarriers for encapsulating BpT and Bp4eT iron chelators: evaluation of potential anti-tumour efficacy by in vitro, in vivo and pharmacokinetic studies in A549 mice models." RSC Adv., 2016, 6, 61585 **(IF: 3.070)**
- Dipti Kakkar, Shweta Dumoga, Rohit Kumar, Krishna Chuttani and Anil Kumar Mishra. "PEGylated solid lipid nanoparticles: design, methotrexate loading and biological evaluation in animal models." Med Chem Comm, 2015, 6, 1452. **(IF: 2.394)**
- Thukral D.K., Dumoga S, Mishra AK. "Solid lipid nanoparticles: promising therapeutic nanocarriers for drug delivery." Curr Drug Deliv, 2014, 11(6), 771-791. **(IF: 1.752)**
- Dipti Kakkar Thukral, Shweta Dumoga, Shelly Arora, Krishna Chuttani and Anil K. Mishra. "Potential carriers of chemotherapeutic drugs: matrix based nanoparticulate polymeric systems", Cancer Nanotechnology; 2014, 5: 3. **(IF: 1.299)**

International Conferences

- Dipti Kakkar Thukral, Shweta Dumoga, Namit Dey, Anil K. Mishra. "Specific SLN based Nanoparticulate carrier systems for enhanced antitumour activity of iron chelators." International Conference on Direct Digital Manufacturing and Polymers, ICDDMAP October 2015 • Karnatak University, Dharwad, India.
- Shweta Dumoga, Surendra Singh, Ani Mishra and Dipti Kakkar Thukral. Poster presentation on "Design and synthesis of poly-(L-glutamic acid) based tri-block copolymer as drug delivery system for cancer therapy". International Conference on Direct Digital Manufacturing and Polymers, ICDDMAP October 2015, Karnatak University, Dharwad, India.
- Shweta Dumoga, Surendra Singh, Anil Mishra and Dipti Kakkar Thukral. Poster presentation on "Synthesis and formulation of PEGylated SLNs loaded with Fe-chelating drugs for anti-tumour activity. International conference on Nanomaterials and nanotechnology, NANO 15, K.S. R College of Technology, Coimbatore, India. 7-10 Dec 2015

National Conferences

- Shweta Dumoga, Dipti Kakkar Thukral, Krishna Chuttani and Anil K. Mishra. Oral presentation on "Design, synthesis and comparative evaluation of 99mTc labelled BPT and BP4eT as transferrin mediated tumor imaging agents ". SNMI conference 2014, Kolkata (**Awarded Second prize for Best Oral Presentation).**