

CERTIFICATE

This is to certify that the following enlisted publications belong to my Ph.D student Mr. Sushilkumar Patil who wishes to submit thesis entitled “**Delivery of Therapeutic siRNA in Cystic Fibrosis**”, to The Maharaja Sayajirao University of Baroda, Vadodara for the award of Ph.D in Pharmacy.

Research Supervisor

Dr Ambikanandan Misra,

Professor in Pharmacy,

Faculty of Pharmacy,

The M. S. University of Baroda,

Vadodara-390001, Gujarat, India.

LIST OF PUBLICATIONS

1. Patil S, Bhatt P, Lalani R, Amrutiya J, Vhora I, Kolte A, Misra A, Low molecular weight chitosan–protamine conjugate for siRNA delivery with enhanced stability and transfection efficiency. *RSC Advances*, 2016; 6(112):110951-110963.
2. Patil S, Vhora I, Amrutiya J, Lalani R, Misra A. Role of Nanotechnology in Delivery of Protein and Peptide Drugs. *Current pharmaceutical design*. 2015; 21(29):4155-4173.
3. Kolte A, Patil S, Lesimple P, Hanrahan J, Misra A, PEGylated composite nanoparticles of PLGA and polyethylenimine for safe and efficient delivery of pDNA to lungs, *International Journal of Pharmaceutics*, 2017; 524(1):382-396
4. Bhatt P, Vhora I, Patil S, Amrutiya J, Bhattacharya C, Misra A, et al. Role of antibodies in diagnosis and treatment of ovarian cancer: Basic approach and clinical status. *Journal of Controlled Release*. 2016; 226:148-167
5. Vhora I, Patil S, Patel H, Amrutiya J, Lalani R, Misra A. "Overview of Polyester Nanosystems for Nasal Administration." *Handbook of Polyester Drug Delivery Systems*. Pan Stanford, 2016. 291-351.
6. Lalani J, Patil S, Kolate A, Lalani R, Misra A, Protein-Functionalized PLGA Nanoparticles of Lamotrigine for Neuropathic Pain Management, *AAPS PharmSciTech*, 2015, 16 (2), 413-427
7. Lalani R, Misra A, Amrutiya J, Patel H, Bhatt P, Patil S, Approaches and Recent Trends in Gene Delivery for Treatment of Atherosclerosis, *Recent patents on drug delivery & formulation*, 2016, 10 (2), 141-155
8. Vhora I, Patil S, Amrutiya J, Misra A. Liposomes and Lipid Envelope-Type Systems for Systemic siRNA Delivery. *Current pharmaceutical design*. 2015; 21(31):4541-55.
9. Kolate A, Kore G, Lesimple P, Baradia D, Patil S, Hanrahan J, Misra A, Polymer assisted entrapment of netilmicin in PLGA nanoparticles for sustained antibacterial activity, *Journal of microencapsulation*, 2015, 32 (1), 61-74
10. Yewale C, Patil S, Kolate A, Kore G, Misra A, Oral Absorption Promoters: Opportunities, Issues, and Challenges, *Critical Reviews™ in Therapeutic Drug Carrier Systems*, 2015, 32 (5)
11. Vhora I, Patil S, Bhatt P, Misra A. Chapter One-Protein and Peptide Drug Conjugates: An Emerging Drug Delivery Technology. In: Rossen D, editor. *Advances in Protein Chemistry and Structural Biology*: Academic Press-Elsevier, 2015; 98:1-55
12. Kolate A, Baradia D, Patil S, Vhora I, Kore G, Misra A, PEG — A versatile conjugating ligand for drugs and drug delivery systems, *Journal of Controlled Release*, 2014; 192, 67-81.
13. Vhora I, Patil S, Bhatt P, Gandhi R, Baradia D, Misra A. Receptor-targeted drug delivery: current perspective and challenges. *Therapeutic Delivery*. 2014; 5(9):1007-1024
14. Yewale C, Baradia D, Vhora I, Patil S, Misra A: Epidermal growth factor receptor targeting in cancer: a review of trends and strategies. *Biomaterials*, 2013; 34(34), 8690-8707