

*[Appendix 1]*

**List of Publications, Book Chapters & Patents**

**Publications**

**From Ph.D. Thesis**

1. **Pukale SS**, Sharma S, Dalela M, kumar Singh A, Mohanty S, Mittal A, Chitkara D. Multi-component clobetasol-loaded monolithic lipid-polymer hybrid nanoparticles ameliorate imiquimod-induced psoriasis-like skin inflammation in Swiss albino mice. *Acta Biomaterialia*. 2020,115:393-409.
2. **Pukale SS**, Mittal A, Chitkara D. “Topical application of Vitamin D3 loaded hybrid nanosystem: an potential strategy to offset imiquimod-induced psoriasis”. *AAPS PharmSciTech*. 2021 Sep 24;22(7):238.
3. **Pukale SS**, Mittal A, Chitkara D. “Coenzyme Q10 loaded monolithic lipid-polymer hybrid nanoparticles: A potential therapeutics for ameliorating psoriasis in Swiss albino mice”. (Ready for communication)
4. Bhat M, **Pukale S**, Singh S, Mittal A, Chitkara D. “Nano-enabled topical delivery of anti-psoriatic small molecules”. *Journal of Drug Delivery Science and Technology*. 2021 April 62:102328.

**Book Chapters**

1. Mharugde VS, **Pukale S**, Sharma S, Mittal A, Chitkara D, Chapter 16: Advancement in Polymeric System for Nucleic Acid Delivery. In *Molecular Medicines for Cancer: Concepts and Applications of Nanotechnology*, In *Molecular Medicines for Cancer:*

Concepts and Applications of Nanotechnology, Eds. Deepak Chitkara, Anupama Mittal, and Ram I. Mahato, September 2018, CRC Press, Taylor Francis, Florida, USA

### **Patents**

1. Deepak Chitkara, **Sudeep S. Pukale**, Arihant K Singh, Anupama Mittal, Saurabh Sharma. Applicant- Incisive Element LLC., USA A lipid-polymer hybrid nanoparticle (PCT, filed on 02 Feb 2020; Application no. PCT/IB2020/050819)

### **Other Publications.**

1. Sharma S, **Pukale SS**, Sahel DK, Agarwal DS, Dalela M, Mohanty S, Sakhuja R, Mittal A, Chitkara D. Folate-Targeted Cholesterol-Grafted Lipo-Polymeric Nanoparticles for Chemotherapeutic Agent Delivery. AAPS PharmSciTech. 2020 Oct;21(7):1-21.
2. Sharma S, **Pukale SS**, Sahel DK, Singh P, Mittal A, Chitkara D. Folate Targeted Hybrid Lipo-Polymeric Nanoplexes Containing Docetaxel and miRNA-34a for Breast Cancer Treatment. Material Science and Engineering C. 2021 Sep;128:112305.
3. Sharma S, **Pukale SS**, Mittal A, Chitkara D. Docetaxel and its nanoformulations: how delivery strategies could impact the therapeutic outcome?. Future Science, Therapeutic delivery doi/10.4155/tde-2020-0088(2020).

*[Appendix 2]*

**Bibliography of Dr. Deepak Chitkara**

**Dr. Deepak Chitkara** received both M.S and Ph.D. degrees from Department of Pharmaceutical Science, National Institute of Pharmaceutical Education and research (NIPER), SAS Nagar, Punjab. During his PhD, he has carried out his research at University of Tennessee Health Science Center (UTHSC), Memphis, TN, USA, for period of one year in an exchange program. Further, he pursued his postdoctoral research at the University of Nebraska Medical Center (UNMC), Omaha, NE, USA from 2013-2014 under the supervision of Prof. Ram I. Mahato. Later, he returned India in June 2014 and joined as an Assistant Professor at the Department of Pharmacy, BITS Pilani, Pilani Campus and is leading an independent research group. His research interest lies in the development and evaluation of nano-carrier based delivery of small molecules, oligonucleotides and ribonucleoproteins. He has published more than forty publications and filed six patents at national and international level and edited an international book entitled “*Molecular medicines for cancer concepts and applications of nanotechnology*”. He has completed two government sponsored project and is presently handling seven sponsored projects funded by various funding agencies viz., ICMR, DBT, DST. He has also founded a start-up, Nanobrid Innovations Private Limited, India, which is involved in the development of nanotechnology-based products.



**Bibliography of Mr. Sudeep Pukale**

Currently, Mr. Sudeep Pukale is pursuing PhD degree from Department of Pharmacy, BITS Pilani, Pilani campus. He has obtained this Bachelor and Masters degree from Bombay College of Pharmacy (Mumbai University) and Institute of Chemical Technology (Deemed University), respectively. He has qualified national level entrance exams including GATE (Lifesciences) and GPAT with AIR 665 and 16, respectively. He has industrial experience (Indeus Lifesciences Pvt. Ltd.) of 1 year 3 months in formulation development area particularly in oral solid dosage form. He has published articles in peer reviewed journals and filed two patents at national and international level. He has delivered presentations at both national and international conferences and has achieved various prizes.

