

APPENDICES

Thesis related Publications

Dhanashree H Surve, Anil B Jindal, Development and validation of reverse-phase high-performance liquid chromatographic (RP-HPLC) method for quantification of Efavirenz in Efavirenz-Enfuvirtide co-loaded polymer-lipid hybrid nanoparticles, 2019, **Journal of Pharmaceutical and Biomedical Analysis**, 175. (IF: 2.983)

Dhanashree H Surve, Anil B. Jindal, Recent advances in long-acting nanoformulations for delivery of antiretroviral drugs, 2020, **Journal of Controlled Release**, 324, 379-404 (IF-7.727).

Dhanashree H Surve, Yugandhara B. Jirwankar, Vikas D. Dighe, Anil B. Jindal, Long-acting Efavirenz and HIV-1 fusion inhibitor peptide co-loaded polymer-lipid hybrid nanoparticles (PLN): statistical optimization, cellular uptake and *in vivo* biodistribution, 2020, **Molecular Pharmaceutics**, 17(10), 3990-4003 (IF-4.32)

Dhanashree H Surve, Anil B. Jindal, Creation of long-acting lipid based nanoformulation of ionically complexed Isometamidium chloride (**under communication**)

Other Publications

Kedar Prayag, **Dhanashree H Surve**, Atish T Paul, Sanjay Kumar, Anil B Jindal, Nanotechnological Interventions for Treatment of Trypanosomiasis in Humans and Animals, 2020, **Drug Delivery and Translational Research**, 10, 945-961 (IF-3.11)

Atharva R Bhide, **Dhanashree H Surve**, Sonia Guha, Anil B Jindal, A Sensitive RP-HPLC Method for Estimation of Artemether from Polymeric Nanoparticles after Pre-Column Acid Treatment using UV-Visible Detector, 2020, **Journal of Liquid Chromatography & Related Technologies (IF-0.987)**.

Book chapters

Dhanashree H Surve, Paul Atish Tulsiram, Jindal Anil B, Nanotechnology based delivery of nutraceuticals in Environmental Nanotechnology: Volume 2 (Book series- **Environmental Chemistry for a Sustainable World**) Edited by Nandita Dasgupta, Shivendu Ranjan, and Eric Lichtfouse, **Springer**, 2018.

Dhanashree H. Surve, Prajakta Dandekar, Padma V. Devarajan, and Anil B. Jindal "Chapter 1: Intracellular Delivery: An Overview", 2019, in AAPS Adv. Pharmaceutical Sciences, Vol. 39, Padma V. Devarajan et al. (Eds): **Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis**, 3-41, **Springer**.

Conference presentation

Dhanashree Hemant Surve, Anil B. Jindal, Co-encapsulation of HIV-1 entry inhibitor peptide and non-nucleoside reverse transcriptase inhibitor (NNRTI) in stearic acid based lipid nanoparticles: formulation optimization & physicochemical characterization, 2018, in 16th **International symposium** on ‘Advances in Technology and Business Potential of New Drug Delivery Systems’ organized by **Controlled Release Society Indian Chapter**.

Dhanashree Hemant Surve, Anil B. Jindal, Fabrication of Efavirenz loaded polymeric nanoparticles of non-spherical geometry by stretching of conventional nanospheres: A new paradigm in HIV therapy, 2019, in 17th **International symposium** on ‘Advances in Technology and Business Potential of New Drug Delivery Systems’ organized by **Controlled Release Society Indian Chapter**.

Patent

Jain Rajesh, Swami Gaurav, **Surve Dhanashree H**, Jindal Anil, Oral Nutraceutical Nanoformulations” Application number:202011006771

Candidate's Biography

Dhanashree Hemant Surve is currently a Ph.D. research scholar in Department of Pharmacy, BITS-Pilani. She obtained her Bachelor and Master of Pharmacy degree from Bharati Vidyapeeth's College of Pharmacy, University of Mumbai. She received Sir Ratan Tata Trust Fellowship for 3 consecutive years during her Bachelor of Pharmacy course. She was an active participant in all the extra-curricular activities and secured top rank during her Bachelor of Pharmacy which made her receive 'Best student award' in her college. She qualified GPAT and NIPER entrance examination in the year 2013. During the Master of Pharmacy course, she secured rank 3 in University of Mumbai. Her research thesis during Master of Pharmacy was based on the development and *in vitro* characterisation of nanostructured lipid carriers for non-steroidal anti-inflammatory drug. Dhanashree has also worked in Formulation & Development, Meyer Organics Pvt. Ltd as Junior research executive for one and half years. Since her admission in BITS-Pilani, she has been working on the development and characterization of long-acting nanoformulations against infectious diseases including HIV and Trypanosomiasis. She also worked on optimization of engineering non-spherical polymeric nanoparticles. Her proficiency in the field of research is evident by her publications in Scopus indexed journals and books (2-review publications, 2-book chapters, 2-research publication) as well as one patent entitled 'Oral Nutraceutical Nanoformulations' Application number:202011006771. She has received '**The Sun Pharma Science Scholar Award-2020**' (Pharmaceutical category) for her Ph.D. dissertation.

Supervisor's Biography

Dr. Anil Jindal is an Assistant Professor in the Department of Pharmacy at the Birla Institute of Technology and Science Pilani Pilani Campus. His research, which is focused on the improvement of existing options for the treatment of infections, has led to the development of novel drug delivery systems for the treatment of infectious diseases in both humans and animals. His technical contribution includes the fabrication of polymeric nanoparticle of unique shapes (nanorods, nanocubes, and nanorosettes) for drug delivery application and the design of long-acting nanoformulations for targeted delivery of antiretroviral and antitrypanosomal agents. He obtained his Bachelor of Pharmacy degree from the University of Rajasthan and Master of Pharmacy degree from Bombay College of Pharmacy, University of Mumbai. Subsequently, he worked as a Formulator in R&D at Pfizer, Mumbai. He obtained his PhD degree from the Institute of Chemical Technology, Mumbai. Subsequently, he worked as Research Scientist in R&D (Formulation) at IPCA Laboratories LTD, Mumbai for one year. He is an author of over 20 publications and book chapters. He is also an inventor in 02 patent applications including one PCT application in the field of nano-drug delivery systems. He is also a recipient of several prestigious academic awards including *Prof. M.L. Khorona Memorial award (2010)*, *Eudragit award (2018)*, and *Early Career Research Award (2019) by SERB, GOI* for his significant contribution in research. He is also a recipient of several fellowships including the Sir Ratan Tata Trust fellowship and AICTE fellowships during his postgraduation studies and UGC and ICMR fellowships during PhD. His Doctorate research finding - *Role of nanocarrier shape on drug targeting* [J. Pharm. Sci., 2010, 99(6), 2576-2581) appeared in "*The Scientist*" in April 2010 {Publisher LabX Media Group, Canada} and was globally recognized as cutting edge

research in nanotechnology. He obtained All India Rank 4th in GATE competitive examination in the year of 2005.



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