

LIST OF PUBLICATIONS FROM THESIS

Research

- R. Jain, M. Paul, S.G. Padaga, S.K. Dubey, S. Biswas, G. Singhvi, Dual-Drug-Loaded Topical Delivery of Photodynamically Active Lipid-Based Formulation for Combination Therapy of Cutaneous Melanoma, *Mol Pharm.* (2023). <https://doi.org/10.1021/ACS.MOLPHARMACEUT.3C00280>.
- R. Jain, R. Pradhan, S. Hejmady, G. Singhvi, S.K. Dubey, Fluorescence-based method for sensitive and rapid estimation of chlorin e6 in stealth liposomes for photodynamic therapy against cancer, *Spectrochim Acta A Mol Biomol Spectrosc.* 244 (2021) 118823. <https://doi.org/10.1016/J.SAA.2020.118823>.
- R. Jain, S.K. Dubey, G. Singhvi, Stability indicating validated high-performance liquid chromatography method for simultaneous estimation of chlorin e6 and curcumin in bulk and drug-loaded lipidic nanoformulation, *Sep Sci Plus.* (2022). <https://doi.org/10.1002/SSCP.202200107>.

Review articles

- R. Jain, S. Dubey, G.S.-D. discovery today, undefined 2021, The Hedgehog pathway and its inhibitors: emerging therapeutic approaches for basal cell carcinoma, Elsevier. (n.d.). <https://www.sciencedirect.com/science/article/pii/S1359644621005390> (accessed March 14, 2022).
- R. Jain, S. I, S. G, D. SK, Nanocarrier Based Topical Drug Delivery- A Promising Strategy for Treatment of Skin Cancer, *Curr Pharm Des.* 26 (2020) 4615–4623. <https://doi.org/10.2174/1381612826666200826140448>.
- R. Jain, S. Mohanty, I. Sarode, S. Biswas, G. Singhvi, S.K. Dubey, Multifunctional Photoactive Nanomaterials for Photodynamic Therapy against Tumor: Recent

Advancements and Perspectives, Pharmaceutics 2023, Vol. 15, Page 109. 15 (2022)
109. <https://doi.org/10.3390/PHARMACEUTICS15010109>.

Book Chapter

- V.K. Rapalli, A. Khosa, G. Singhvi, V. Girdhar, **R. Jain**, S.K. Dubey, Application of QbD Principles in Nanocarrier-Based Drug Delivery Systems, Pharmaceutical Quality by Design: Principles and Applications. (2019) 255–296. <https://doi.org/10.1016/B978-0-12-815799-2.00014-9>.

Patent Filed from Thesis

- Positive charge-based lipid formulations for drug delivery (202211054911 TEMP/E-1/61961/2022-DEL)
- A photodynamic chemotherapeutic lipidic nanoparticle, a nano-formulation thereof and a method of preparing the nanoformulation (202311003263 TEMP/E-1/1794/2023-DEL)