
Annexure I

“Life’s most persistent and urgent question is, ‘What are you doing for others?’”

-Martin Luther King, Jr.

LIST OF PUBLICATIONS**Articles Published**

1. **Kumar S**, Garg NK, Jain A, Pandey P, Khopade A, Sawant KK. Emerging therapeutic landscape on delivery of oxytocin to brain for treating neurological disorders. *Journal of Drug Delivery Science and Technology*. 2024 Feb 1;92:105370. **(Impact factor 5.0)**
2. **Kumar S**, Garg NK, Jain A, Khopade A, Pandey P, Sawant KK. Nanocarriers mediated delivery of methotrexate is instrumental in treating auto-immune diseases and cancer. *Journal of Drug Delivery Science and Technology*. 2023 Oct 1;88:104969. **(Impact factor 5.0)**
3. **Kumar S**, Sanap SN, Pandey P, Khopade A, Sawant KK. Glucagon: Delivery advancements for hypoglycemia management. *International Journal of Pharmaceutics*. 2024 Mar 5;652:123785. **(Impact factor 5.8)**
4. Behera JK, **Kumar S**, Sharma R, Jain A, Garg NK, Khopade A, Sawant KK, Singh R, Nirbhavane P. Novel discoveries and clinical advancements for treating onychomycosis: a mechanistic insight. *Advanced Drug Delivery Reviews*. 2024 Feb 1;205:115174. **(Impact Factor 16)**
5. **Kumar S**, Sanap SN, Vasoya M, Handa M, Pandey P, Khopade A, Sawant KK. USFDA-approved parenteral peptide formulations and excipients: Industrial perspective. *Journal of Drug Delivery Science and Technology*. 2024 Mar 15:105589. **(Impact factor 5.0)**
6. **Kumar S**, Garg NK, Jain A, Pandey P, Khopade A, Sawant KK. Recent progress in macromolecules: From current therapeutic strategies to theranostic applications. *Journal of Drug Delivery Science and Technology*. 2024 Apr 16:105664. **(Impact factor 5.0)**.
7. Pandey P, **Kumar S**. Influence of Interaction of Milk Fat on Release, Characteristics and Absorption of Theophylline. *Indian Drugs*. 2022 Jan 1;59(1).
8. **Kumar S**, Singh A, Pandey P, Khopade A, Sawant KK. Application of sphingolipid-based nanocarriers in drug delivery: an overview. *Therapeutic Delivery*. 2024 Aug 2;15(8):619-37. **(Impact factor 3.0)**.
9. **Kumar S**, Sanap SN, Vasoya M, Handa M, Pandey P, Khopade A, Sawant KK. Application of lyophilization in pharmaceutical injectable formulations: An industry and

regulatory perspective. *Journal of Drug Delivery Science and Technology*. 2024 Aug 22:106089. **(Impact factor 5.0)**.

10. Tandon R, **Kumar S**, Handa M, Srivastava N. Exosomes in glioma: mechanistic insights on biological, therapeutic, and diagnostic perspective. *Therapeutic Delivery*. 2025 Feb 17:1-2. **(Impact factor 3.0)**.

Book chapter Published

1. Pandey P, Patel J, **Kumar S**. Toward Eco-friendly Nanotechnology-based Polymers for Drug Delivery Applications. *Sustainable Nanotechnology: Strategies, Products, and Applications*. 2022 Mar 16:89-116.
2. Pandey P, Patel J, **Kumar S**, Pathak Y. Pharmacokinetics and Pharmacodynamics of Liposomal Nanoparticles. In *Pharmacokinetics and Pharmacodynamics of Nanoparticulate Drug Delivery Systems* 2022 Mar 8 (pp. 143-158). Cham: Springer International Publishing.
3. Pandey P, Patel JK, **Kumar S**. Nanoparticle properties affecting the drug release, absorption, and pharmacokinetics of nanoparticulate drug delivery systems. In *Pharmacokinetics and Pharmacodynamics of Nanoparticulate Drug Delivery Systems* 2022 Mar 8 (pp. 25-40). Cham: Springer International Publishing.
4. Pandey P, Patel J, **Kumar S**. Current Application of CRISPR/Cas9 Gene-Editing Technique to Eradication of HIV/AIDS. In *Gene Delivery* 2022 Jun 29 (pp. 85-101). CRC Press.
5. Pandey P, Patel J, **Kumar S**. CRISPER Gene Therapy Recent Trends and Clinical Applications. In *Gene Delivery* 2022 Jun 29 (pp. 179-194). CRC Press.
6. Biswal B, Pandey P, **Kumar S**, Patel A. Breast cancer: Drug delivery system landscape. In *Drug Delivery Landscape in Cancer Research (Volume 1)*, 2025 Jan 1 (pp. 269-285). Academic Press. ISBN No. 9780443291685.
7. Pandey P, Biswal B, **Kumar S**. Breast cancer: Advances in diagnostic research. In *Diagnostic Landscape in Cancer Research. (Volume 3)*, (pp. 246-267). Academic Press. ISBN No. 9780443338496

Under consideration

1. Conjugated oxytocin for treatment of Alzheimer's disease via intranasal delivery: synthesis, biocompatibility and cell line studies supported by preclinical evaluation in memory deficit model. International Journal of Biological Macromolecules.
2. Unlocking Norepinephrine Potential Innovations in Formulation and Smart Systems. Discover Pharmaceutical Sciences.
3. Beyond Water: Advances and Applications of Non-Aqueous Excipients in Parenteral Drug Delivery. Journal of Drug Delivery Science and Technology.
4. Vasopressin in the management of Brain Disorders: Current Status and Future Perspective.
5. Renin Angiotensin-II system: Haleness of Angiotensin-II in neurological disorders.
6. Developing Clinically Relevant Dose Accuracy Range for Pen injectors using statistical and in-silico tools.

Poster Presentations

1. "TARGETED DELIVERY OF NEUROPEPTIDE: AN ADVANCED PARADIGM TO ADDRESS NEUROLOGICAL DISORDER(S)", at the National Symposium-cum-Workshop on "Contemporary Trends, Tools and Techniques in Pharma Quality by Design (QbD): From Conceptualization to Implementation", being held at the Panjab University, Chandigarh, on 20-21 April 2023.
2. "Hybrid Nanocarriers Mediate Extended Delivery of Oxytocin for Neurological Disorder" at National Seminar on RECENT ADVANCES IN 'SMART' DRUG DELIVERY SYSTEMS being held at Chettinad School of Pharmaceutical Sciences, CARE, Chennai. on 5th APRIL 2023 (Best Presentation Award).