

Dr. Shobhit Kumar (Pharmaceutical Technology)

Soft Skills: Able to work on MS excel, ppt and word

Specialization

M.Tech: M.Pharma (Pharmaceutics)

Ph.D: Pharmaceutics

Area of Interest

Research: Intranasal delivery of drugs for brain delivery and enhancing bioavailability

Technology.Development: Pharmaceutical Technology

Other:

1. Intranasal delivery of drugs for brain delivery and enhancing bioavailability.
2. Oral bioavailability enhancement using lipid based systems.
3. Delivery of therapeutic agents for treatment of cancer

Participated - In Specialized Training / Certified Courses: Attended Workshop on Flow Cytometry Basics, at BD-JH FACS Academy, New Delhi, 26th-28th Sep, 2016.

Publication - Books / Chapters / Papers / Articles / Blogs: 1. Saurabh Mittal, Muhammad Usama Ashhar, Farheen Fatima Qizilbash, Zufika Qamar, Jasjeet Kaur Narang, Shobhit Kumar, Javed Ali, Sanjula Baboota. Ligand Conjugated Targeted Nanotherapeutics for Treatment of Neurological Disorders [published online ahead of print, 2020 Apr 17]. Curr Pharm Des. 2020;10.2174/1381612826666200417141600. doi:10.2174/1381612826666200417141600 (Impact 2.412)

2. Sharma S, Rabbani SA, Narang JK, Pottoo FH, Kumar S, Baboota S. Role of rutin nanoemulsion in ameliorating oxidative stress: Pharmacokinetic and Pharmacodynamics studies. Chemistry and Physics of Lipids. Available online 4 February 2020, 104890. (Impact 2.536)

3. Priya, Shobhit Kumar, SK Gupta. A Review on Therapeutic Potentials of Crocetin- A Carotenoid Derived from Saffron. Current Research in Pharmaceutical Sciences. 2019; 9 (4): 54-62. DOI: 10.24092/CRPS.2019.090401.

4. Anu, S K Gupta, Shobhit Kumar. An Overview on Intranasal Drug Delivery System: Recent Technique and Its Contribution in Therapeutic Management. Current Research in Pharmaceutical Sciences, Vol. 9, no. 2, Aug. 2019, doi:10.24092/CRPS.2019.090201.

5. Anu Tomar, Aakash Upadhyay, S. K. Gupta, Shobhit Kumar. An Overview on Gastroretentive Drug Delivery System: Current Approaches and Advancements. Current Research in Pharmaceutical Sciences, Vol. 9, no. 1, Apr. 2019, pp. 12-16, doi:10.24092/CRPS.2019.090102.

6. Bijay Sharma, Babar Iqbal, Shobhit Kumar, Javed Ali, Sanjula Baboota. Resveratrol loaded-nanogel system to ameliorate UV induced oxidative skin damage: From in vitro to in vivo investigation of

antioxidant activity enhancement. Archives of Dermatological Research. 2019, 311(10):773-793. doi: 10.1007/s00403-019-01964-3. (Impact 2.309)

7. Shobhit Kumar, Shweta Dang, Kuldeep Nigam, Javed Ali, Sanjula Baboota. Selegiline nanoformulation in attenuation of oxidative stress and upregulation of dopamine in the brain for the treatment of Parkinson's disease. Rejuvenation Res. 2018; 21(5):464-476. doi: 10.1089/rej.2017.2035. (Impact 3.811)

8. Shobhit Kumar, Javed Ali, Sanjula Baboota. Design Expert® supported optimization and predictive analysis of selegiline nanoemulsion via the olfactory region with enhanced behavioural performance in Parkinson's disease. Nanotechnology. 2016;27(43):435101. (Impact 3.399)

9. Pardeep Sindhu, Shobhit Kumar, Babar Iqbal, Javed Ali, Sanjula Baboota. Duloxetine loaded-microemulsion system to improve behavioral activities by upregulating serotonin and norepinephrine in brain for the treatment of depression. Journal of Psychiatric Research, 2018;99: 83-95 (Impact 3.917).

10. Shobhit Kumar, Satish Kumar Gupta. Effect of excipients on dissolution enhancement of aceclofenac solid dispersions studied using response surface methodology: A technical note. Archives of Pharmacal Research. 2014; 37(3): 340-351. (Impact 2.458)

11. Bijay Kumar Gupta, Shobhit Kumar, Harleen Kaur, Javed Ali, Sanjula Baboota. Attenuation of oxidative damage by Coenzyme Q10 loaded nanoemulsion via oral route for the management of Parkinson's disease. Renjuvention Research. 2017 Oct 10. doi: 10.1089/rej.2017.1959. [Epub ahead of print] (Impact 3.811)

12. Shobhit Kumar, Satish Kumar Gupta. Pharmaceutical solid dispersion technology: a strategy to improve dissolution of poorly water-soluble drugs. Recent Patents on Drug Delivery & Formulation. 2013; 7 (2): 111-121.

13. Rajani Mahour, Jasjeet K. Sahni, Shrestha Sharma, Shobhit Kumar, Javed Ali, Sanjula Baboota. Nanoemulsion as a tool for improvement of Cilostazol oral bioavailability. Journal of Molecular Liquids. 2015; 212: 792-798. (Impact 4.561)

14. Yogendra Raj Pandey, Shobhit Kumar, Bijay Kumar Gupta, Javed Ali, Sanjula Baboota. Intranasal delivery of paroxetine nanoemulsion via the olfactory region for the management of depression: Formulation, behavioral and biochemical estimation. Nanotechnology. 2016; 27 (2): 025102. (Impact 3.399)

15. Amrita Nagi, Babar Iqbal, Shobhit Kumar, Shrestha Sharma, Javed Ali, Sanjula Baboota. Quality by design based silymarin nanoemulsion for enhancement of oral bioavailability. Journal of Drug Delivery Science and Technology, 40 (2017): 35-44. (Impact 2.606)

16. Shobhit Kumar, Satish Kumar Gupta. Rosin: A naturally derived excipient in drug delivery systems. Polymery w Medycynie. 2013; 43(1): 45-48.

17. Shobhit Kumar, Satish Kumar Gupta. Natural polymers, gums and mucilages as excipients in drug delivery. Polymery w Medycynie. 2012; 42(3-4): 191-197.

18. Shobhit Kumar, Satish Kumar Gupta. Delivery of naturally occurring hormone (insulin) via insulin pens and pumps - A way forward for diabetes treatment. Advances in Biological Research, 2014; 8(6): 298-300.

19. Shobhit Kumar, Satish Kumar Gupta. Applications of Biodegradable Pharmaceutical Packaging Materials: A Review. Middle-East Journal of Scientific Research, 2012; 12(5): 699-706.

20. Shobhit Kumar, Satish Kumar Gupta, Pramod Kumar Sharma. A Review on Recent trends in oral drug delivery-Fast dissolving Formulation Technology. Advances in Biological Research, 2012; 6(1): 6-13.

21. Shobhit Kumar, Satish Kumar Gupta, Pramod Kumar Sharma. Self-Emulsifying drug delivery systems (SEDDS) for oral delivery of lipid based formulations. African Journal of Basic & Applied Sciences, 2012;

4(1): 7-11.

22. Shobhit Kumar, Rishabha Malviya, Pramod Kumar Sharma. Solid Dispersion: Pharmaceutical Technology for Improvement of Various Physical Characteristics of Active Pharmaceutical Ingredient. *African Journal of Basic & Applied Sciences*, 2011; 3(4):116-125.
23. Shobhit Kumar, Satish Kumar Gupta. In vitro determination of aceclofenac sodium mouth dissolving tablets. *Polymery w Medycynie*. 2013; 43(4): 227-229.
24. Shobhit Kumar, Satish Kumar Gupta. Mango peel pectin as a carrier for solid dispersions. *Polymery w Medycynie*. 2013; 43(4): 231-233.
25. Shobhit Kumar, Mohammad Shuaib, Satish Kumar Gupta. A Study on Impact of Pharmacist on the quality of healthcare provided for patients. *Journal of Chronotherapy and Drug Delivery*, 2013; 4 (2-3): 45-52.
26. Shobhit Kumar, Satish Kumar Gupta, Pramod Kumar Sharma. Recent Developments in targeted drug delivery system for Crossing Blood-Brain Barrier: A Review. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2012; 4(2): 36-41.
27. Shobhit Kumar, Pramod Kumar Sharma, Mayank Bansal, Rishabha Malviya. Liposome – A Novel Colloidal Drug Delivery System. *Journal of Chronotherapy and Drug Delivery*, 2011; 2 (1): 7-13.
28. Shobhit Kumar, Satish Kumar Gupta, Pramod Kumar Sharma. Dissolution rate enhancement of aceclofenac by solid dispersion technique. *Asian Journal of Pharmacy and Life Science*, 2011; 1(4): 396-400.
29. Shobhit Kumar, Satish Kumar Gupta, Nitin Sharma, Pramod Kumar Sharma. Formulation of fast disintegrating tablets of aceclofenac sodium. *Journal of Chronotherapy and Drug Delivery*, 2011; 2(3): 103-106.

CHAPTERS IN BOOKS

1. Shobhit Kumar, Priyanka Singh, Satish Kumar Gupta, Javed Ali, Sanjula Baboota. Biodegradable and Recyclable Packaging Materials: A Step Towards a Greener Future. *Encyclopedia of Renewable and Sustainable Materials*. Published by Elsevier Ltd, 2019, UK. (doi:10.1016/B978-0-12-803581-8.10934-8) ISBN10: 0128131950
2. Bharti Gaba, Shobhit Kumar, Shadab Md, Sanjula Baboota, Jasjeet. K. Narang and Javed Ali (2017) "Chapter 4: Natural Neuroprotectives for the management of Parkinson's Disease" *Neuroprotective Natural Products: Clinical Aspects and Mode of Action*, First Edition. Edited by Goutam Brahmachari, Published by Wiley-VCH Verlag GmbH & Co.KGAA.
3. Shobhit Kumar, Bharti Gaba, Jasjeet. K. Narang, Javed Ali, Sanjula Baboota (2018). Chapter 5: Novel and Nanostructured Drug Delivery of Nutraceuticals for Counteracting Oxidative Stress. Page: 71- 90. In: *NanoBioMedicine* book series. Edited by Bupinder Singh, Published by CRC Press Taylor & Francis Group.
4. Shobhit Kumar, Javed Ali, Sanjula Baboota. Polysaccharide nanoconjugates for drug solubilisation and targeted delivery. *Polysaccharide Carriers for Drug Delivery 2019*, Pages 443-475 (doi.org/10.1016/B978-0-08-102553-6.00016-7) Paperback ISBN: 9780081025536, eBook ISBN: 9780081025543

Funded Projects Undertaken : Designing lisuride intranasal nanoemulsion for upregulation of dopamine in brain for Parkinsonism

Funded by Dr. A.P.J. Abdul Kalam Technical University, Lucknow in year 2018.

Total grant: Rs. 5 Lakh

Any Other Information: • Appointed as Bentham Ambassador by Bentham Science (United Arab Emirates) for the year 2019-20.

• Certificate of reviewing from Editors of International Journal of Pharmaceutics, Elsevier, Amsterdam, The Netherlands in recognition of the review made for the journal in year 2015.