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Nose to Brain Delivery of Drugs Opportunities and Challenges

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Biography

Dr. S. Narasimha Murthy is the Professor of Pharmaceutics and Drug Delivery and Dr. Murthy is also CSO of the company Topical Products Testing LLC which provides contract services to Pharmaceutical companies in the field of topical product development, characterization and evaluation (www.topicalproductstesting.com). Dr. Murthy is also the Founder-Director of a non-profit research organization, Institute for Drug Delivery and Biomedical Research in Bangalore, India (www.IDBResearch.com).

Dr. Murthy's research is in the field of topical / transdermal delivery and intranasal drug delivery. His research programs are funded by NIH, USFDA and Pharmaceutical companies. He has published over 130 research papers and presented over 250 scientific posters in various national and international scientific meetings. He has authored two books and over fifteen book chapters.

Abstract

Targeting drugs to the CNS is a challenging task due to the blood brain and blood cerebrospinal barriers. The olfactory tissues in the nasal cavity offers a direct pathway to the brain. However, olfactory epithelial tissue is a significant barrier owing to the cellular organization, enzymes, and efflux transporters. Several strategies have been explored to overcome the olfactory mucosal barrier to exploit this pathway for drug delivery to the brain and CSF. Some of the approaches and case studies of delivering drugs to the brain via intranasal pathway will be presented in this webinar.