



## RESEARCH REMOTE SEMINAR SERIES

The Center for Dermal Research welcomes

Dr. S. Narasimha Murthy, University of Mississippi School of Pharmacy

“Noninvasive Approaches of Sampling Analytes and Drugs from The Skin”

Monday, August 2, 2021, 5:30pm EST



Dr. S. Narasimha Murthy is a Professor of Pharmaceutics and Drug Delivery and Associate Director of Pii Center for Pharmaceutical Technology at the University of Mississippi School of Pharmacy. He is the Founder-Director of a non-profit research organization, Institute for Drug Delivery and Biomedical Research in Bangalore, India ([www.IDBresearch.com](http://www.IDBresearch.com)). He is also the Chief Scientific Officer of the contract research company, Topical Products testing LLC, Oxford, MS.

Transcutaneous drug delivery is one of the main areas of Dr. Murthy's research. His research programs are funded by NIH, USFDA and Pharmaceutical companies. He has published over 100 research papers and presented over 200 scientific posters in various national and international scientific meetings. He has authored two books and over fifteen book chapters. He is serving on the Editorial Board of several journals including AAPS PharmSci Tech, DDIP and J Pharm.Sci.

Dr. Murthy has received several awards such as New Investigator award and Cumberland Researcher of the year from University of Mississippi, Global Indus Technovator award from MIT, Endowed Chair for Research at the Ohio Northern University and he was inducted as the Fellow of American Association of Pharmaceutical Scientists in 2017 and was honored with Distinguished Scientist award by American Association of Indian Pharmaceutical Scientists.

**Abstract:** Dermal delivery of drug is generally intended to treat regional or systemic disorders. Determining the time course of drug concentration at the site of delivery is important to investigate the onset and duration of action of a topical formulation. The analytes and biomarkers can also be sampled via transcutaneous route for diagnostic purposes. There are several invasive technologies in practice such as microdialysis and tissue biopsy for measuring the real-time concentration of drugs and analytes in the tissue. However, to overcome the limitations of the invasive approaches and to render the process of sampling, simple and efficient, several noninvasive approaches have been explored by skin researchers. The objective of this presentation is to discuss the importance of noninvasive transcutaneous sampling approaches and their status.

Meeting link:

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