

RUTGERS CDR SEMINAR

Grazia Stagni, PhD. MS.

Long Island University, Brooklyn, NY

February 10th, 2014

“Skin Microdialysis: Insights and Applications to Topical and Transdermal Delivery”

BIOGRAPHY:



Dr. Stagni is a Professor of Pharmaceutics at the Arnold & Marie Schwartz College of Pharmacy, Long Island University, Brooklyn, NY. She has a degree in Medicinal Chemistry and Pharmaceutical Technology (CTF) from the University of Bologna, Bologna, Italy, and a Master and PhD from the University of Texas at Austin. In 2000 she joined the Faculty at the Arnold & Marie Schwartz College of Pharmacy, Long Island University, Brooklyn, NY. Research interests include pharmacokinetics and pharmacodynamic modeling, and the use of cutaneous microdialysis to study local and transdermal drug delivery via iontophoresis or passive delivery, modeling and prediction of skin concentration, and IVIVC for topical and transdermal delivery. Dr. Stagni teaches a number of courses at both the graduate and undergraduate level, mostly in the area of pharmacokinetics.

ABSTRACT:

Skin microdialysis (MD) is a semi-invasive technique that allows the measurement of unbound molecules in the interstitial fluids of dermis or subcutaneous tissues. The main research applications of MD in the pharmaceutical area are (i) to study percutaneous absorption from topically applied drug delivery systems, (ii) to understand better the pharmacokinetic/pharmacodynamic of drug acting in the skin, and (iii) a combination of the two. This presentation will review the technical aspects related to the use of microdialysis in the skin and will summarize some examples of relevant research applications such as the assessment of bioavailability and bioequivalence of dermatological topical products and the selection of best topical formulation.

LOCATION: Life Sciences Building Rutgers - The State University of New Jersey, 145 Bevier Road, Piscataway, New Jersey 08854, New Jersey Center for Biomaterials Suite - Conference Room 102

TIME: 5:30 PM

HOST: Bozena B. Michniak-Kohn, Ph.D., M.R.Pharm.S. Director, Center for Dermal Research, Professor of Pharmaceutics, Ernest Mario School of Pharmacy