

RESEARCH REMOTE SEMINAR SERIES

The Center for Dermal Research welcomes

Dr. Audra Stinchcomb; University of Maryland, Baltimore

"Translational Transdermal Delivery from Complex Drug Products"

MONDAY, MAY 10th 5:30pm EST



Dr. Stinchcomb is Professor of Pharmaceutical Sciences, School of Pharmacy, University of Maryland, Baltimore. She is also currently the Chief Scientific Officer and Co-Founder of F6 Pharma Inc., a palliative care product company. She received her Bachelor's in Pharmacy from the University of Colorado, and a PhD in Pharmaceutics from the University of Michigan. She completed a postdoctoral fellowship at UCSF. She was a Professor at the University of Kentucky from 2001-11, and joined the faculty at UMB in November 2011. She is a Fellow of the American Association of Pharmaceutical Scientists. Dr. Stinchcomb's research interests span across many disciplines, including

pharmaceutics, drug delivery, medicinal chemistry, neuroscience, dermatology, bioengineering, regulatory science, and translational research models.

In this seminar I will talk about our human pharmacokinetic (PK) data in healthy subjects, which has been obtained from eight different APIs in various transdermal, dermal, and sunscreen formulations. This comprehensive PK data set has been correlated with in vitro human skin permeation laboratory testing data from the same products. Additionally, the sunscreen products have enabled the development of a streamlined PK study approach (miniMUsT) that could be used to do safety/absorption testing of over-the-counter dermal products and prescription dermal products as well. Reliable in vitro-in vivo correlations will enable in vitro testing use for many different dermal product types and use scenarios.

Specific clinical research goals have been:

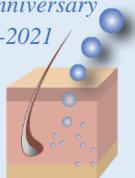
- Develop a streamlined testing method that is more clinically and environmentally harmonized for quantifying sunscreen UV filter safety levels
 - Extrapolate full body exposure data from surrogate 800 cm² thigh study
 - Make sure that skin surface temperature and relative humidity are controlled so that products can be compared to each other using small numbers of subjects



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- Generate more accurate information as to the potential total permeation of oxybenzone in worst-case scenarios (exposure to controlled high heat and high humidity)
- Examine ways to standardize the application method of different types of products, e.g., solid sticks, sprays, ointments, creams, gels, foams

CONFERENCE LINK:

Meeting link:

<https://rutgers.webex.com/rutgers/j.php?MTID=mb9f1a292cbd8f6ff693dea5586f15798>

Link is also available on our website: <https://sites.rutgers.edu/centerfordermalresearch/>

under the Events menu.

Or send an email to cdr_frontdesk@dls.rutgers.edu to request a direct invite.



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