Dermal Absorption and Toxicity: Concepts for Application to Safety Assessment

Wiley Auditorium, US FDA, CFSAN, College Park, MD • Live Webcast

Chair: Nancy Monteiro-Riviere, North Carolina State University and Kansas State University
Co-Chair: Jeffrey Yourick, US Food and Drug Administration

Schedule (All times are Eastern US, GMT-5)

8:00 AM–8:30 AM   Badge Pick Up
8:30 AM–8:40 AM   Welcome, Overview, and Speaker Introductions
                  Jeffrey Yourick, US FDA, Laurel, MD
8:40 AM–9:15 AM   Introduction to the Comparative Anatomical Factors Affecting Topical Skin Delivery
                  Nancy Monteiro-Riviere, North Carolina State University, Raleigh, NC; and Kansas State University, Manhattan, KS
9:15 AM–9:50 AM   Simulation and Modeling of Dermal Absorption Kinetics: What Level of Detail is Needed?
                  Gerald Kasting, University of Cincinnati, Cincinnati, OH
9:50 AM–10:25 AM  Assessing Mixture and Formulation Influence on Skin Absorption
                  Ronald Baynes, North Carolina State University, Raleigh, NC
10:25 AM–10:40 AM Break
10:40 AM–11:15 AM Cutaneous Metabolism and Its Importance for Skin Permeation and Toxicity
                  Simon Charles Wilkinson, Newcastle University, Newcastle upon Tyne, United Kingdom
11:15 AM–11:50 AM Practical Considerations for Incorporating Skin Penetration Data into a Risk Assessment for a Consumer Product Launch
                  Timothy McCarthy, Johnson and Johnson, Skillman, NJ
11:50 AM–12:50 PM Roundtable Discussion
                  Moderator: Nancy Monteiro-Riviere, North Carolina State University, Raleigh, NC; and Kansas State University, Manhattan, KS
                  All Speakers
                  Nakissa Sadrieh, US FDA, College Park, MD
Organizing Committee

Allen Rudman, PhD, Colloquium Series Chair, US FDA, College Park, MD
Jia-Sheng Wang, MD, PhD, Colloquium Series Co-Chair, University of Georgia, Athens, GA
Jason L. Aungst, PhD, US FDA, College Park, MD
Suzanne Compton Fitzpatrick, PhD, DABT, US FDA, College Park, MD
A. Wallace Hayes, University of South Florida and Michigan State University, Temple Terrace, FL
Jieun Lee, PhD, DABT, CJ Foods, Inc., LaPalma, CA
Stephen M. Roberts, PhD, University of Florida, Gainesville, FL
Jeffrey J. Yourick, PhD, DABT, ATS, US FDA, Laurel, MD
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Betty Eidemiller, PhD, SOT Staff, Reston, VA

Future Colloquia Topics

February 2020  Route-to-Route Extrapolation
April 2020  Use of Artificial Intelligence/Big Data in Food Additive, Ingredient, and Cosmetics Evaluation
May 2020  Integrated Approaches to Testing and Assessment—The Future of Predictive Toxicology

Most Recent Colloquia

- *In Silico* Methods for Food Ingredient, Dietary Supplement, and Cosmetic Safety
- Alternative Methods for Predictive Safety Testing: 3D Bioprinted Tissue Models
- Redesigning the Rodent Bioassay for the 21st Century
- Food from Genetically Engineered Plants: What Role for Metabolomics?
- Can Alternatives Inform the Risk Assessments of Mixtures in Food?
- *In Vitro to In Vivo* Concordance for Toxicity Prediction and Use in Safety Assessments
- Safety Assessment of Food Packaging and Other Food Contact Substances
- Considerations for the Determination of Adversity in Food Chemical Safety Evaluations
- Application of *In Vitro to In Vivo* Extrapolation in Safety Assessment

......plus 10 additional diverse topics, and other learning opportunities, all available at www.toxicology.org