SOT FDA Colloquia on Emerging Toxicological Science: Challenges in Food and Ingredient Safety

June 13, 2018

Food from Genetically Engineered Plants: What Role for Metabolomics?

Chair: Norbert E. Kaminski, Michigan State University, East Lansing, MI

Co-chair: Jason Dietz, US FDA CFSAN, College Park, MD

Food Safety Colloquia Series

The Society of Toxicology in conjunction with the US FDA Center for Food Safety and Applied Nutrition CFSAN) have partnered to provide a colloquia series. The series presents scientific information that is high-quality, cutting-edge, future-oriented toxicological science to provide a well-grounded foundation to inform the work of US FDA employees. These sessions are open to the public to attend in person or via webcast, these events are not a public forum for discussion of toxicology regulatory issues.

This colloquium will describe the premarket safety assessments performed for foods from genetically engineered plants and examine the scientific factors important when considering whether metabolic profiling data would have utility or added value in the safety assessment of food from genetically engineered plants.

Schedule *(All times are Eastern US, GMT-4)*

8:00 AM–8:30 AM	**Badge Pick Up**
8:30 AM–8:45 AM	**US FDA Welcome and Overview** **Dennis Keefe,** Director, Office of Food Additive Safety, CFSAN, US FDA, College Park, MD
	Welcome from SOT and Introductions **Norbert E. Kaminski,** SOT Past President, Colloquium Chair, Michigan State University, East Lansing, MI
8:45 AM–9:25 AM	**Introduction to the Safety Assessment of Foods from Genetically Engineered Plant Varieties** **Jason Dietz,** Colloquium Co-chair, CFSAN US FDA, College Park, MD
9:25 AM–10:05 AM	**Factors Influencing the Composition/Metabolic Profile of Food from Plants** **Sherry Flint-Garcia,** USDA/ARS, University of Missouri, Columbia, MO
10:05 AM–10:25 AM	**Break**
10:25 AM–11:05 AM	**Introduction to Metabolic Profiling** **Ann Knolhoff,** CFSAN, US FDA, College Park, MD
11:05 AM–11:45 AM	**Composition Testing in the Safety Assessment of Foods from Genetically Modified Crops** **Bryan Delaney,** Corteva Agriscience™ Agriculture Division of DowDuPont, Johnston, IA
11:45 AM–12:45 PM	**Roundtable Discussion** **Moderator:** Norbert Kaminski, Michigan State University, East Lansing, MI **All Speakers and Co-chair** **Additional Panelist:** Supratim Choudhuri, CFSAN, US FDA, College Park, MD

US FDA, College Park, Maryland • Live Webcast

Organizing Committee

Bryan Delaney, PhD, DABT, ATS, Colloquium Series Chair, Corteva Agriscience™ Agriculture Division of DowDuPont, Johnston, IA

Allen Rudman, PhD, Colloquium Series Co-chair, US FDA, College Park, MD

Jason L. Aungst, PhD, US FDA, College Park, MD

Suzanne Compton Fitzpatrick, PhD, DABT, US FDA, College Park, MD

Jieun Lee, PhD, DABT, Kellogg, Battle Creek, MI

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Jason Dietz, PhD, Colloquium Co-chair, CFSAN, US FDA, College Park, MD

Betty Eidemiller, PhD, SOT Staff, Reston, VA

Tentative 2018-2019 Colloquia

October	Food Tolerance Allergenicity
December	Use of 3D Bioprinted Human Tissues for Toxicity Testing
February	Foods and Flavor Modifiers
April/May	Has the Time Passed for Separate Cancer and Non-Cancer Risk Assessment?

Previous Colloquia

Recordings and Materials available at http://www.toxicology.org/fda

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

State of the Science in Developmental Neurotoxicology

Safety Assessment Approaches in Young Children

State of the Art in the Cramer Classification Scheme and Threshold of Toxicological Concern

Role of Mode of Action in Dose-Response Assessment for Carcinogens

A Path Forward for Using Computational and *In Vitro* Methods for Food Ingredient Assessments

Contemporary Issues in Risk Assessment

Immunotoxicology in Food and Ingredient Safety Assessment: Approaches and Case Studies

Application of ADME/PK Studies to Improve Safety Assessments for Foods and Cosmetics

Complexities in Evaluating Human Clinical and Observational Data for Ingredient Safety Assessment: Partially Hydrogenated Oils (PHOs) As a Case Study

Visit www.toxicology.org to explore other learning opportunities.

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Creating a Safer and Healthier World by Advancing the Science and Increasing the Impact of Toxicology

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