

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



Redesigning the Rodent Bioassay for the 21st Century

February 20, 2019



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Welcome from FDA

Admiral Denise Hinton

Chief Scientist

US FDA, Silver Spring, MD





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

Colloquium Series



- Partnership of U.S. FDA's Center for Food Safety and Applied Nutrition (CFSAN) and the Society of Toxicology (SOT)
- Stimulate a dialogue among leading toxicology experts on future-oriented toxicological science relevant to food and food ingredient safety assessment
- Information for FDA employees and the public
- Not a forum for soliciting regulatory advice or discussing food or food ingredient regulatory issues
- They are a forum to discuss the latest toxicological science in the context of food chemical safety.



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

Welcome from SOT and Introductions

Suzanne Compton Fitzpatrick

US FDA

College Park, MD

Suzanne.Fitzpatrick@fda.hhs.gov

SOT | Society of
Toxicology



Society of Toxicology Mission

**To Create a Healthier and Safer World by Advancing the Science
and Increasing the Impact of Toxicology**

Among Strategic Priorities

- Strengthen the Relevance and Impact of Toxicology
- Develop and Support Toxicologists to Capitalize on Future Opportunities
- Expand Outreach and Impact Globally

Introduction

On behalf of SOT–Welcome!

Colloquium series history

- FDA sponsor–SOT organizer
- Food ingredient safety
- 2014–Present
 - 16 Colloquia so far...





Colloquium Impact

- Fifth year of quarterly colloquia
- Wide-ranging topics related to toxicology and food safety
- Global audience from all employment sectors
 - About 70 onsite
 - Over 275 webcast registrants from 17 countries
- Resource for 24/7 learning
 - www.toxicology.org for recordings and slides



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SOT FDA Colloquia 2017-2018 Recording and Slide Downloads

Colloquium Title	Date	Downloads
Food from Genetically Engineered Plants: What Role for Metabolomics?	6/13/18	29
Can Alternatives Inform the Risk Assessments of Mixtures in Food?	3/27/18	1,353
Analysis of <i>In Vitro</i> to <i>In Vivo</i> Concordance Studies for Food Safety Assessment in Humans	10/24/17	8,094
Safety Assessment of Food Packaging and Other Food Contact Substances	5/23/17	11,718
Considerations for the Determination of Adversity in Food Chemical Safety Evaluations	3/27/17	6,204
Application of <i>In Vitro</i> to <i>In Vivo</i> Extrapolation in Safety Assessment	12/01/16	9,708
State of the Science in Developmental Neurotoxicology	10/12/16	49,828
Downloads through June 2018		86,934



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SOT FDA Organizing Committee

Bryan Delaney, PhD, DABT, ATS, Committee Chair, DuPont Pioneer, Johnston, IA

Allen Rudman, PhD, Committee Co-chair, FDA Lead, US FDA, CFSAN, College Park, MD

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

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

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

Stephen M. Roberts, PhD, University of Florida, Gainesville, FL

Jia-Sheng Wang, MD, PhD, University of Georgia, Athens, GA

Jeffrey J. Yourick, PhD, DABT, ATS, US FDA, CFSAN, Laurel, MD

Patricia Ganey, PhD, SOT Council Contact, Michigan State University, East Lansing, MI

Today



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

**October 11, 2018—The Big 8: Advances in Food Allergy
Risk Assessment and Management**

US FDA, Wiley Auditorium, College Park, Maryland • Live Webcast

Chair: Stephen Taylor, University of Nebraska, Lincoln, NE

Co-chair: Stefano Luccioli, US FDA, College Park, MD



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

Today

The Big 8: Advances in Food Allergy Risk Assessment and Management

8:30 AM–8:45 AM

US FDA Welcome and Overview

Susan T. Mayne, CFSAN Director, US FDA , College Park, MD

Welcome from SOT and Introductions

Bryan Delaney, SOT FDA Colloquium Committee Chair, Corteva Agriscience™ Agriculture Division of DowDuPont, Johnston, IA

8:45 AM–9:25 AM

The Public Health Impact of Food Allergies: What are the Challenges?

Stefano Luccioli, US FDA, CFSAN, College Park, MD

9:25 AM–10:05 AM

Clinical Management of Food-Allergic Patients: Prevention and Treatment—Where Do We Stand?

Matthew Greenhawt, Colorado Children's Hospital, Denver, CO

10:05 AM–10:25 AM

Break



Today

The Big: Advances in Food Allergy Risk Assessment and Management

- 10:25 AM–11:05 AM **How Much Is Too Much? Threshold Dose for Allergenic Foods**
Joseph Baumert, University of Nebraska, Lincoln, NE
- 11:05 AM–11:45 AM **Food Industry Perspective on Controlling the Risk**
Scott Hegenbart, ConAgra Brands, Omaha, NE
- 11:45 AM–12:45 PM **Roundtable Discussion**
Moderator: Steve Taylor, University of Nebraska, Lincoln, NE
All Speakers



References

SOT FDA Colloquium website

- <http://www.toxicology.org/events/shm/fda/fda.asp>



In 2014, SOT and the US FDA Center for Food Safety and Applied Nutrition (CFSAN) began a partnership to present colloquia designed to present high-quality, cutting-edge, future-oriented toxicological science to provide a well-grounded, foundation to inform the work of US FDA employees. These colloquia are open at no cost to all who are interested. Recordings and materials are available after the events and can be found below.

Open All

2018–2019 Colloquia

Rectangular Snip

Food from Genetically Engineered Plants: What Role for Metabolomics?—June 13, 2018

