

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



**Can Alternatives Inform the  
Risk Assessments of Mixtures  
in Food?**

March 27, 2018



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

## Welcome

### Conrad J. Choiniere, PhD

Director, Office of Analytics and Outreach, CFSAN, US FDA,  
College Park, MD





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

## Welcome from SOT

### Suzanne Fitzpatrick, PhD, DABT

Member, SOT FDA Colloquium Organizing Committee,  
CFSAN, US FDA, College Park, MD

**SOT** | Society of  
Toxicology



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

## Colloquium Series

- Partnership SOT and US FDA Center for Food Safety and Applied Nutrition (CFSAN)
- High-quality, cutting-edge, future-oriented toxicological science
- Information for FDA employees and the public
- Not a public forum for discussion of toxicology regulatory issues



## 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



## Colloquium Impact

- Fourth year of quarterly colloquia
  - June: Biotechnology of Modern Agriculture
  - 4 colloquia in development for fifth year (2018-2019)
- Wide-ranging topics related to toxicology and food safety
- Global audience from all employment sectors
  - Over 400 participating today on-site and by webcast
- Resource for 24/7 learning
  - [www.toxicology.org](http://www.toxicology.org) for recordings and slides

# SOT FDA Organizing Committee

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

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

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

**Norbert E. Kaminski**, PhD, Michigan State University, East Lansing, MI

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

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

**Allen Rudman**, PhD, FDA Lead, US FDA, CFSAN, College Park, MD

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

**John B. Morris**, PhD, SOT Council Contact, University of Connecticut, Storrs, CT

**A. Wallace Hayes**, PhD, DABT, ERT, ATS, FRSB, FACFE, Colloquium Chair, University of South Florida College of Public Health, Tampa, FL, and Institute for Integrative Toxicology, Michigan State University, East Lansing, MI





## Colloquium Leads

- **Chair: A. Wallace Hayes, PhD, DABT, ERT, ATS, FRSB, FACFE**

University of South Florida College of Public Health, Tampa, FL, and  
Institute for Integrative Toxicology, Michigan State University, East  
Lansing, MI

- **Co-chair: Suzanne Fitzpatrick, PhD, DABT**  
CFSAN, US FDA, College Park, MD



# Agenda

8:45 AM–8:50 AM

## **Why a New Approach is Needed**

A. Wallace Hayes, University of South Florida College of Public Health, Tampa, FL, and  
Institute for Integrative Toxicology, Michigan State University, East Lansing, MI

8:50 AM–9:30 AM

## **Can High Thru-put Assays/Tox 21 Inform Hazard Identification?**

Michael J. DeVito, NTP, Research Triangle Park, NC

9:30 AM-10:10 AM

## **Proposed *In Silico/In Vitro* Approach for Botanical Mixtures**

Catherine Mahony, Procter & Gamble Technical Centres Ltd, Surrey, UK

10:10 AM-10:30 AM

## **Break**



# Agenda (continued)

10:30 AM-11:10 AM

## **Non-Mammalian *In Vivo* Models: *C. elegans* As a Model System to Inform Hazard Identification**

Piper Reid Hunt, US FDA, Laurel, MD

11:10 AM-11:50 AM

## **Analysis of *In Vitro* to *In Vivo* Concordance Studies for Food Safety Assessment in Humans**

Michael Dourson, Toxicology Excellence for Risk Assessment, Cincinnati, OH

11:50 AM-12:50 PM

## **Roundtable Discussion**

Moderator: Wallace Hayes

All speakers

