

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



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

October 13, 2015



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

Welcome from FDA

Suzanne Compton Fitzpatrick, PhD, DABT

Center for Food Safety and Nutrition

College Park, MD



Today's Agenda

8:45 AM–9:10 AM

Development of *In Silico* Tools at OFAS CFSAN FDA, Patra Volarath, US FDA/CFSAN, College Park, MD

9:10 AM–9:55 AM

Gaining Confidence in Replacing Animal Tests: A Case Study of the Endocrine Disruption Program at the US EPA, Richard Judson, US EPA/NCCT, Research Triangle Park, NC

10:10 AM-10:55 AM

Read-Across with Computational and *In Vitro* Data, Elisabet Berggren (by webinar), Joint Research Centre, European Commission, Ispra, Italy

10:55 AM-11:40 PM

Use of Computational and *In Vitro* Data in Cancer Hazard Assessment of Data Rich Chemicals: Examples of IARC Monographs, Ivan Rusyn, Texas A&M University, College Station, TX

11:40 AM-12:40 PM

Roundtable Discussion, Ivan Rusyn, Moderator, All Speakers





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Welcome from SOT

Peter L. Goering, PhD, DABT, ATS

President, Society of Toxicology

SOT | Society of
Toxicology



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SOT Mission

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

Strategic Priorities

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



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Participation Summary

2014-2015 Colloquia					
	PHOs	ADME	Immunotox	Risk Assmnt	Total
	Nov. 7	Feb. 23	April 14	June 17	
Total On-Site	95	48	71	70	269
Total Webcast	239	201	193	337	970
Total	334	249	264	392	1239



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Colloquium Materials Downloads

2014-2015 Colloquia					
	PHOs	ADME	Immunotox	Risk Assmnt	Total
	Nov. 7	Feb. 23	April 14	June 17	
Video as of 8/14/15	103	37	25	17	182
Slides May-June	1160	548	626	Not available	2334



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Webcast Participation Outside the US

	Countries	People
PHOs	5	6
ADME	6	11
Immunotox	6	17
Risk Assessment	24	86
Total	26 unique	120



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25 Countries Plus the US

- Australia
- Brazil
- Canada
- China
- Denmark
- Finland
- France
- Georgia
- Germany
- Ghana
- Hong Kong
- India
- Italy
- Japan
- Mexico
- Netherlands
- Nigeria
- Norway
- Peru
- Singapore
- Spain
- Switzerland
- Taiwan
- Turkey
- United Kingdom

For all 4 sessions



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Webcast Participant Comment

I am based in Adelaide, in Australia, so the earliest start time is beneficial for me. However, I must say that the Colloquia that I recently joined via webcast was of such impressive quality and utility to me, that it was worth my staying up until 1:30 am local time to get the full benefit from the webcast. I also found that the webcast setup and software worked well for someone at such a remote location.

SOT FDA Organizing Committee

Ivan Rusyn, MD, PhD, Chair, Texas A&M University, College Station, TX

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

Ronald Chanderbhan, PhD, US FDA, CFSAN, College Park, MD

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

Suzanne Compton Fitzpatrick, PhD, DABT, Colloquium 4 Chair and member, US FDA, CFSAN, College Park, MD

Kristi Muldoon Jacobs, PhD, US FDA, CFSAN, College Park, MD

Norbert Kaminski, PhD, SOT Council Contact, Michigan State University, East Lansing, MI

Ji-Eun Lee, PhD, DABT, Kellogg, Battle Creek, MI

James J. Pestka, PhD, Michigan State University, East Lansing, MI

Allen Rudman, PhD, FDA Lead, US FDA, Office of Food Additive Safety, CFSAN, College Park, MD

Catherine Whiteside, PhD, US FDA, CFSAN/OFVM/CFSAN, College Park, MD





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Future Colloquia 2015-2016

December 3 Secondary Mechanisms, Mode of Action, and Thresholds for Carcinogens

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

April/May Safety Assessment Approaches to Sensitive Subpopulations



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Colloquium October 13, 2015

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



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

Chair

Ivan Rusyn, MD, PhD

Chair, SOT FDA Colloquium Organizing Committee

Texas A&M University

College Station, Texas



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

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

Moderator: Ivan Rusyn, MD, PhD

All speakers

Questions welcome.



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Colloquia

- Recordings

- Slides

- Captioning Text

are available at

www.toxicology.org

The screenshot shows the SOT (Society of Toxicology) website. The header includes the SOT logo and tagline "Creating a Safer and Healthier World by Advancing the Science and Increasing the Impact of Toxicology". Navigation links include "About SOT", "Members & Groups", "Meetings & Events", "Publications & News", "Awards & Funding", "Careers", "Education", "Endowment Fund", and "My Links". A search bar and social media icons are also present. The main content area features a blue banner for "SOT FDA Colloquia" with the title "SOT FDA Colloquia on Emerging Toxicological Science Challenges in Food and Ingredient Safety" and the location "FDA, College Park, Maryland". Below the banner, there is a paragraph describing the partnership between SOT and the US FDA Center for Food Safety and Applied Nutrition (CFSAN). A blue button labeled "Open All" is visible. On the right side, there are sections for "Annual Meeting & ToxExpo", "CCT Meetings", and "Events Calendar".



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**Thank you for your
participation.**

**We appreciate your input. We will send you a link
and we appreciate your completing the survey.**