



Evidence Integration in Chemical Assessments: Challenges Faced in Developing and Communicating Human Health Effect Conclusions

The National
Academies of
SCIENCES
ENGINEERING
MEDICINE

June 3-4, 2019

NAS Building | 2101 Constitution Avenue NW | Washington, DC | Lecture Room

Monday, June 3, 2019

8:30 **Welcome and Overview of the Workshop**
Ivan Rusyn, Texas A&M University*

SESSION I: Lessons Learned from Recent International Workshops on Evidence Integration in Risk Assessment

8:35 **Combining Apples and Oranges: Lessons Learned and Advances Made through International
Collaboration**
Katya Tsaoun, Johns Hopkins University*

9:05 *Break*

9:20 **Panel Discussion:**
Moderator: Holger Schünemann, McMaster University*
*Discussants: Marios Georgiadis, European Food Safety Authority; Kris Thayer, US Environmental
Protection Agency; Katya Tsaoun*, Johns Hopkins University; Paul Whaley, Lancaster University*

10:30 **Poster Session** (East Court adjacent to Lecture Room)

11:30 *Lunch (Will not be provided. There is a cafeteria on Lower Level)*

SESSION II: Best Practices in Evidence Integration

12:30 **Perspectives on Common Elements for Evidence Integration**
Weihsueh Chiu, Texas A&M University

1:00 **Emerging Strategies for Evidence Integration**
Bette Meek, University of Ottawa

1:30 **Experience with Incorporating GRADE-Based Evidence Integration Frameworks into Environmental
Health Evaluations**
Kris Thayer, US Environmental Protection Agency

* Member of workshop organizing committee.

2:00 **Panel Discussion:**
Moderator: Joyce Tsuji, Exponent*
Discussants: Session II speakers; Sam Cohen, University of Nebraska; Jennifer McPartland, Environmental Defense Fund

3:00 *Break*

SESSION III. Approaches for Using Mechanistic Data to Integrate Evidence from Animal and Human Studies: General Considerations

3:15 **Practical Challenges in Assessing Indirectness and the Implications for Integrating Multiple Streams of Evidence in Systematic Reviews**
Paul Whaley, Lancaster University

3:45 **Investigating the Causality of Adverse Effects: Mechanistic Toxicology Meets Epidemiology**
Jean-Lou Dorne and Marios Georgiadis, European Food Safety Authority

4:15 **Panel Discussion:**
Moderator: Katya Tsaioun, Johns Hopkins University*
Discussants: Session III speakers; Andrew Rooney, National Toxicology Program*

5:00 *End of Day 1*

Tuesday, June 4, 2019

8:30 Welcome and Opening Remarks
Ivan Rusyn, Texas A&M University*

SESSION IV. Systematic Review-Enabled Evidence Integration: Case Studies

8:40 **Case Study 1: Systematic Review-Enabled Evidence Integration for Predictive Modeling of Endocrine Disruption Pathways**
Nicole Kleinstreuer, National Toxicology Program

9:00 **Panel Discussion:**
Moderator: Ivan Rusyn, Texas A&M University*
Discussants: Session IV speakers

9:40 **Case Study 2: Integrating Evidence across Multiple Exposures: Applying the OHAT Framework to Traffic-Related Air Pollution and Hypertensive Disorders of Pregnancy**
Brandy Beverly, National Toxicology Program

10:00 **Panel Discussion:**
Moderator: Ivan Rusyn, Texas A&M University*
Discussants: Session IV speakers

10:40 *Break*

11:00 **Case Study 3: Use of Mechanistic Data for Evidence Integration across PCBs as a Chemical Class**
Larry Robertson, University of Iowa

11:20 **Panel Discussion:**
Moderator: Ivan Rusyn, Texas A&M University*
Discussants: Session IV speakers

12:00 *Lunch (Will not be provided. There is a cafeteria on Lower Level)*

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1:00	Poster Session (East Court adjacent to Lecture Room)
SESSION V. Practical Approaches to Expedited Evidence Integration	
2:00	A Streamlined, Scientifically Rigorous Approach to Categorize Health Hazards [NASEM 2018: Review of Report and Approach to Evaluating Long-Term Health Effects in Army Test Subjects] <i>Ivan Rusyn*</i> , Texas A&M University
2:30	Elk River Chemical Spill Assessments <i>Michael Dourson</i> , Toxicology Excellence for Risk Assessment
3:00	Clinical Research Applications: Influenza Virus Drugs <i>Holger Schünemann*</i> , McMaster University
3:30	Panel Discussion: <i>Moderator: Ana Navas-Acien*</i> , Columbia University <i>Discussants: Session V Speakers; Stan Barone</i> , US Environmental Protection Agency; <i>Tracey Woodruff</i> , University of California at San Francisco;
4:30	Closing Remarks <i>Holger Schünemann*</i> , McMaster University
4:45	<i>Workshop Adjourns</i>

* Member of workshop organizing committee.