



Agenda

Thursday, August 24

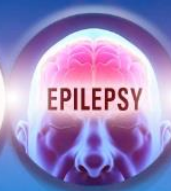
Time	Presentation
8:30 AM	Welcome and Opening Remarks John Bucher <i>NIEHS, NTP</i>
8:40 AM	Uptake of Systematic Review and Meta-Analysis in Toxicology and Public Health Andrew Rooney <i>NIEHS, NTP</i>
Session 1: Systematic Reviews or Meta-Analyses in Toxicology and Public Health Chair: Juleen Lam	
9:00 AM Keynote	Navigating the Science – Opportunities to Improve Health Through Advances in Systematic Reviews Tracey Woodruff <i>University of California, San Francisco</i>
9:45	Implementing the Systematic Review Approach in Non-Clinical Fields: The Importance of Education Rob De Vries <i>SYRCLE</i>
10:00	Systematic Evidence Map of Transgenerational Inheritance of Health Effects Vickie Walker <i>NIEHS, NTP</i>
10:15	Aerobic but Not Resistance Exercise Can Induce Inflammatory Pathways via Toll-like 2 and 4: A Systematic Review Paula Andréa Malveira Cavalcante <i>Federal University of São Paulo (UNIFESP), Brazil</i>
10:30 – 10:45 AM	Break
10:45	Systematic Reviews and Meta-Analysis for Environmental Health: Proof-of-Concept Case Study Examples Juleen Lam <i>University of California, San Francisco</i>
11:00	Ensuring Only High-quality Systematic Reviews Get Published: New Obligations and Strategies for Environmental Health Journals Paul Whaley <i>Lancaster University</i>
11:15	Association Between Exposure to p,p'-DDT and its Metabolite p,p'-DDE With Obesity: Integrated Systematic Review and Meta-Analysis Michele La Merrill <i>University of California, Davis</i>
11:30	Office of the Report on Carcinogens Systematic Review of Cancer Studies in Experimental Animals Gloria Jahnke <i>NIEHS, NTP</i>
11:45	Performing Scoping Studies With SWIFT-Review and SWIFT-Active Screener Brian Howard <i>Sciome</i>
12:00 – 1:15 PM	Lunch



Session 2: Automation of Systematic Reviews

Chair: Andrew Rooney

Time	Presentation
1:15 PM Keynote	Semi-Automating Evidence Synthesis via Machine Learning and Natural Language Processing Byron Wallace <i>Northeastern University</i>
2:00	Systematic Review Facility (SyRF) – A Toolbox for Systematic Review and Meta-Analysis Gillian Currie <i>CAMARADES</i>
2:15	Machine Learning Approaches to Assist the Screening Stage of Pre-Clinical Systematic Reviews Alexandra Bannach-Brown <i>University of Edinburgh, Aarhus University</i>
2:30	SWIFT-Active Screener: Reducing Literature Screening Effort Through Machine Learning for Systematic Reviews Ruchir Shah <i>Sciome</i>
2:45	The Vision of SLIM – A Systematic Living Information Machine Jing Liao <i>University of Edinburgh</i>
3:00 – 3:15 PM	Break
3:15	Text Mining as a Tool to Aid the Assessment of Reporting of Risk of Bias and Other Methodological Quality Criteria Zsanett Bahor <i>University of Edinburgh</i>
3:30	Applying the Key Characteristics Paradigm in Cancer Hazard Identification Kate Guyton <i>IARC Monographs</i>
3:45	Lessons From the Conduct of Two Systematic Reviews in Risk Assessment: Focus on Collaborative Software Tools Katya Tsaoiun <i>Evidence-based Toxicology Collaboration, Johns Hopkins Bloomberg School of Public Health</i>
4:00	Evaluation of Mechanistic Data Based on Key Characteristics of Carcinogens: Application of a Text Mining Tool and a Quantitative Evaluation Framework Daniele Wikoff <i>ToxStrategies</i>
4:15 PM	General Discussion
4:45 PM	Poster Session/Social
5:45 PM	Adjourn
7:00 PM	Dinner



Friday, August 25

Time

Presentation

8:30 AM **Welcome Back and Opening Remarks**
Andrew Rooney | *NIEHS, NTP*

Session 3: Systematic Review/Meta-Analysis Methods Development

Chair: David Howells

8:35 AM **Keynote Do's and Don'ts in Meta-Analysis of Animal Study Data**
Kim Wever | *SYRCLE*

9:20 **Impact of Choice of Effect Size and Meta-Analysis Method on Identifying Differences Between Groups of Animal Studies**
Malcolm Macleod | *University of Edinburgh*

9:35 **Lessons Learned From a Systematic Review of Prenatal Exposure to Bisphenol A and Hyperactivity**
Carol Kwiatkowski | *The Endocrine Disruption Exchange (TEDX)*

9:50 **Preferred Reporting Items in Systematic Reviews and Meta-Analysis – In Vivo Animal Research Extension (PRISMA-IVA)**
Marc Avey | *ICF*

10:05 **An Application of the Aggregate Exposure Pathway (AEP) and Adverse Outcome Pathway (AOP) Frameworks to Mechanistically Integrate Data Sources Across Multiple Species Into Cumulative Risk Assessment (CRA)**
David Hines | *U.S. Environmental Protection Agency*

10:20 – 10:35 AM Break

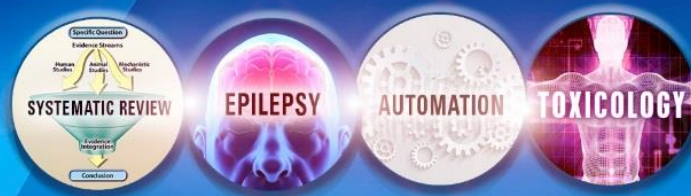
10:35 **Network Meta-Analysis for Preclinical Studies**
Emily Sena | *University of Edinburgh*

10:50 **Application of SR to Fit-For-Purpose Evaluation of Tox21 Assays**
Robert Wright | *Johns Hopkins University*

11:05 **Protocol Registration for Systematic Reviews of Animal Studies Relevant for Human Health in PROSPERO**
Marc Avey | *ICF*

11:20 **Identification of Key Characteristics of Male Reproductive Toxicants as an Approach for Screening and Sorting Mechanistic Evidence**
Xabier Arzuaga | *U.S. Environmental Protection Agency*

11:35 **Meta-Analysis of Animal Studies in Environmental Health: Challenges, Opportunities, and Lessons Learned From Evaluating Evidence From Endocrine Active Chemicals**
Weihsueh Chiu | *Texas A&M University*



Session 4: New/Late Breaking Systematic Reviews or Meta-Analyses

Chair: Rob De Vries

Time	Presentation
11:50	MVA85A TB Vaccine: Synthesis of Animal Studies Raised Fundamental Questions Paul Garner <i>Centre for Evidence Synthesis in Global Health, Liverpool School of Tropical Medicine</i>
12:05	A Perfect Storm of Bias – The Use and Misuse of Observational Scoring in Animal Studies Exemplified by the Rat Grimace Scale Otto Kalliokoski <i>University of Copenhagen</i>
12:20	How Authors of Biomedical Research Describe the Design Aspects of the Study and Implications for Variance Estimation and Automation of Reviews Annette O'Connor <i>Iowa State University</i>

12:35 – 1:45 PM Lunch

Session 5: Systematic Reviews or Meta-Analyses in Epilepsy and Other Human Diseases

Chair: Emily Sena

1:45 PM Keynote	Identification and Characterization of Outcome Measures Reported in Animal Models of Chronic Epilepsy Michele Simonato <i>University of Ferrara</i>
2:30	Why Be Systematic – Preclinical Stroke as an Exemplar David Howells <i>University of Tasmania, Australia</i>
2:45	Systematic Evidence Mapping of Chemical Exposures and Parkinson’s Disease to Support Future Research Ana Antonic <i>University of Melbourne, Melbourne School of Engineering</i>
3:00	Language Inclusion and Search Approaches in “Systematic” Reviews of Animal Toxicity and Communicable Disease Studies Kristine Alpi <i>North Carolina State University</i>

3:15 PM General Discussion

3:45 PM Closing Remarks

4:00 PM Adjourn