

Poster List

- 1. Combining Visualization Methods with Structural Equation Models for the Analysis Of Chemical Mixture Data**, Sophia Banton, *Emory University*
- 2. A Methodology for Building Bayesian Networks to Evaluate the Health Effects of Environmental Chemical Mixtures**, Sarah Kreidler, *Neptune and Company*
- 3. A Statistical Framework for Assessing Association Between Health Effects and Combined Exposures**, Shuo Chen, *University of Maryland, College Park*
- 4. Bayesian Kernel Machine Regression for Estimating the Health Effects of Multi-Pollutant Mixtures**, Birgit Claus Henn, *Boston University*
- 5. Cheminformatics Approaches to Analyze the Effects of Environmental Chemical Mixtures**, Denis Fourches, *North Carolina State University*
- 6. A Two Step Variable Selection Procedure Using Prioritization of Interactions Followed by LASSO**, Jiang Gui, *Dartmouth College*
- 7. Integrating Toxicology and Mechanistic Evidence Into Complex Mixtures Analysis Using a Flexible Bayesian Approach**, Ghassan Hamra, *Drexel University School of Public Health*
- 8. Two-Step Shrinkage-Based Regression Strategy for Assessing Health Effects of Chemical Mixtures in Environmental Epidemiology**, Xindi Hu, *Harvard University*
- 9. A Two Stage Approach to Analysis of Health Effects of Environmental Chemical Mixtures: Informed Sparse Principal Component Analysis Followed by Segmented Regression**, Roman Jandarov, *University of Cincinnati*
- 10. Direct Assessment of Public Health Impacts of Exposure Mixtures: A Bayesian G-Formula Approach**, Alexander Keil, *University of North Carolina, Chapel Hill*
- 11. Do Your Exposures Need Supervision?**, Jenna Krall, *Emory University*
- 12. Principal Component Analysis: An Application for Understanding Health Effects of Environmental Chemical Mixture Exposures**, Cristina Murray-Krezan, *University of New Mexico*
- 13. Interpretation Without Causation: A Data Analysis at the Intersection of Statistics and Epidemiology**, Emily Mitchell, *National Institute of Child Health and Human Development*
- 14. Examining Associations Between Multi Pollutant Exposure Profiles and Health Outcomes via Bayesian Profile Regression**, John Molitor, *Oregon State University*
- 15. Analysis of Simulated Data Sets using Conformal Predictions**, Ulf Norinder, *Swedish Toxicology Sciences Research Center (Swetox)*
- 16. Analysis of Chemical Mixture Simulated Data Using Regularized Regression Models**, Sung Kyun Park, *University of Michigan*

17. **Building Models to Assess the Effects of Chemical Mixtures by Estimating Similar Modes of Action**, Harrison Quick, *Centers for Disease Control and Prevention*
18. **Application of Principal Component Analysis and Stepwise Regression to Identify the Exposure Variables Associated with Health Outcome and to Determine Dose-Response Relationship**, Sheikh Rahman, *Northeastern University*
19. **Identifying the Relative Importance of Multiple Correlated Exposures in Predicting a Continuous Outcome Using the Random Forest Ensemble Learning Method**, Anne Starling, *Colorado School of Public Health*
20. **Improving Prediction Models by Adding Interaction Terms Using a Feasible Solution Algorithm**, Arnold Stromberg, *University of Kentucky*
21. **Factor Mixture Models for Assessing Health Effects of Environmental Chemical Mixtures: An Application Using Simulated Data Sets**, Heidi Sucharew, *Cincinnati Children's Hospital Medical Center*
22. **Dimension Reduction for Chemical Exposure Risk Assessment**, Jeffrey Switchenko, *Emory University*
23. **Set-based Interaction Tests for High-Dimensional Environmental Exposome Data**, Sandra Taylor, *University of California, Davis*
24. **Analyzing Mixtures in Epidemiology Data by Smoothing in Exposure Space**, Veronica Vieira, *Boston University*
25. **Variable Selection and Multivariate Adaptive Spline Assessments to Investigate Effects of Chemical Mixtures in a Prospective Cohort Study of Mother-Child Pairs**, Katrina Waters, *Pacific Northwest National Laboratory*
26. **Bayesian Non-Parametric Regression for Multi-Pollutant Mixtures**, Ran Wei, *North Carolina State University*
27. **Modeling Environmental Chemical Mixtures with Weighted Quantile Sum Regression**, David Wheeler, *Virginia Commonwealth University*
28. **Assessing Health Associations with Environmental Chemical Mixtures using LASSO and its Generalizations**, Changchun Xie, *University of Cincinnati*
29. **Assessing the Impact of Environmental Mixtures on Children's Neurodevelopment**, Rengyi (Emily) Xu, *University of Pennsylvania, Perelman School of Medicine*
30. **Analysis of the First Simulated Dataset using Nonlinear and Weighted Quantile Sum (WQS) Regression**, Chris Gennings, *Icahn School of Medicine at Mount Sinai*
31. **Bayesian Methods for Assessing Health Effects of Chemical Mixtures**, David Dunson, *Duke University*
32. **Assessing Health Effects of Environmental Chemical Mixtures Using Stepwise Multiple Linear Regression**, James Nguyen, *U.S. Environmental Protection Agency*
33. **Traditional Epidemiological Approaches to Analyze Chemical Mixtures and Human Health**, Joseph M. Braun, *Brown University*