

US Strategic Roadmap: New Approaches to Validation

- **Introduction**

Presenter: Dr. Warren Casey, NIEHS/DNTP

- **Evaluation of a Proposed Approach to Refine the Inhalation Risk Assessment for Point of Contact Toxicity: A Case Study Using a New Approach Methodology (NAM)**

Presenter: Dr. Monique Perron, U.S. Environmental Protection Agency Office of Pesticide Programs

The Environmental Protection Agency's (EPA) Office of Pesticide Programs (OPP) regulates the use of all pesticide chemicals. To evaluate potential risks to humans, the OPP evaluates exposures from multiple routes, including inhalation, as part of the human health risk assessment. Whole animal studies are typically required and/or used to evaluate inhalation exposures; however, regulatory statutes provide the EPA with the flexibility to modify the actual data and studies required on an individual chemical basis. Therefore, the Agency may use data from alternative methods and strategies to satisfy data requirements. The EPA's strategy to reduce animal testing relies heavily on the development and implementation of new approach methodologies (NAMs). NAMs have been adopted as a broadly descriptive reference to any non-animal technology, methodology, approach, or combination thereof that can be used to provide information on chemical hazard and risk assessment. This presentation will discuss a case study developed to refine inhalation risk assessment for point of contact toxicity, as well as several efforts to evaluate NAMs for pesticide inhalation risk assessments.