



**Drug Abuse Vulnerability and Neurodevelopmental Effects of Early Exposure to  
Secondhand Tobacco Smoke: Methodological Issues and Research Priorities**

**Neuroscience Center Building  
Conference Room A1/A2  
Bethesda, Maryland**

**Tuesday, January 13, 2009**

**AGENDA**

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| <b>8:00 – 8:30 a.m.</b>   | <b>Registration</b>  |
| <b>8:30 – 8:45 a.m.</b>   | <b>Welcome and Introductions</b>   |
| <b>8:45 – 9:30 a.m.</b>   | <b>Orientation to the Issue: What We Know (and Don't Know) About<br/>the Cognitive, Behavioral, and Neurodevelopmental Effects of<br/>Secondhand Smoke Exposure</b>  |
|                           | <b>Presenter:</b><br><i>Rina Eiden, Ph.D.</i><br><i>Senior Research Scientist</i><br><i>Research Institute on Addictions</i><br><i>University at Buffalo</i><br><i>The State University of New York</i>  |
| <b>9:30 – 10:15 a.m.</b>  | <b>A Continuum of Exposure and the Timing of Exposure—Parsing<br/>Out Prenatal and Postnatal Exposure</b>  |
|                           | <b>Presenter:</b><br><i>Laurie Wakschlag, Ph.D.</i><br><i>Associate Professor</i><br><i>Director, Program on Developmental Mechanisms of Psychopathology</i><br><i>Institute for Juvenile Research, Department of Psychiatry</i><br><i>University of Illinois at Chicago</i> |
| <b>10:15 – 10:30 a.m.</b> | <b>Networking Break</b>  |

10:30 a.m. – 12:00 p.m.

**Panel I: Measurement of Secondhand Smoke Exposure in Animals and Humans—When (Continuum of Exposure), Where (Laboratory Versus Natural Environment), and How (Technology)**

**Overview Presenter:**

*Neal Benowitz, M.D.*

*Professor of Medicine, Psychiatry and Biopharmaceutical Sciences  
University of California, San Francisco*

**Panelists:**

*Marilyn Huestis, Ph.D.*

*Chief, Chemistry and Drug Metabolism  
Intramural Research Program  
National Institute on Drug Abuse*

*Melbourne Hovell, Ph.D., M.P.H.*

*Director*

*Center for Behavioral Epidemiology and Community Health  
Distinguished Professor of Public Health  
San Diego State University*

- Chemistry
- Pharmacokinetics
- Markers

12:00 – 1:00 p.m.

**Lunch**

1:00 – 2:30 p.m.

**Panel II: Biobehavioral Outcomes**

**Overview Presenter:**

*Edward Levin, Ph.D.*

*Professor*

*Psychiatry and Behavior Science  
Duke University Medical Center*

**Panelist:**

*Stephen Buka, Sc.D.*

*Professor, Community Health  
Brown University*

- Animal models: limitations, feasibility, and interpretation
- Human research and potential confounding variables
  - Continuum of exposure (prenatal and postnatal, timing)
  - Smoking versus exposure to other drugs of abuse
- Genetics, epigenetics, and gene x environment interactions
- Ecological validity

2:30 – 2:45 p.m.

**Networking Break**

2:45 – 3:00 p.m.

**Charge to Panels: Linking the Panel Discussions to Research Priorities**

**3:00 – 4:00 p.m.**

**Panels: Identify the Top Three to Five Research Priorities**

- Animal Models
- Human Clinical Research
- Epidemiological Research

**4:00 – 4:30 p.m.**

**Presentation of Priorities**

**4:30 – 4:45 p.m.**

**Closing Remarks and Adjournment**