



## **NTP Workshop: Role of Environmental Chemicals in the Development of Diabetes and Obesity**

**January 11-13, 2011**

Marriott Crabtree Valley, 4500 Marriott Drive, Raleigh, North Carolina 27612 USA (1-800-909-8289)

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### **Tuesday, January 11, 2011**

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- 9:00 AM**     **Plenary session: Welcome**  
Dr. Linda Birnbaum, Director NIH/NIEHS/NTP
- 9:10**        **Plenary session: Introductions, Overview, and Charge**  
Dr. Michael Gallo, Workshop Chair, University of Medicine & Dentistry of New Jersey
- 9:30**        **Plenary session: Workshop format and process to develop and finalize the NTP monograph**  
Dr. Kristina Thayer, NIH/NIEHS/NTP
- 10:15**        **BREAK**
- 10:25**        **Breakout group meetings**
- Arsenic and other metals
  - BPA
  - Organotins and phthalates
  - Nicotine
  - Persistent organic pollutants (POPs)
  - Bioinformatics and high throughput screening (HTS)
    - Overview of the Tox21 collaboration – Dr. Ray Tice, NIH/NIEHS/NTP
    - Training session to learn how to access Tox21 data - Dr. Richard Judson, US EPA
    - Demo of the NIH Chemical Genomics Center (NCGC) Human Pathway Universe - presented by Dr. Ray Tice NIH/NIEHS/NTP on behalf of Dr. Ruili Huang (NIH/NCGC)
- 12:30 PM**    **LUNCH**
- 1:15**        **Breakout group meetings**
- Arsenic and other metals continued
  - Role of steroid hormones and thyroid hormones in regulating glycemic control and adiposity
  - Pesticides
  - POPs continued
  - Bioinformatics and HTS
    - General discussion of bioinformatics approaches for identifying environmental factors that contribute to disease
- 2:45**        **BREAK**
- 2:55**        **Breakout group meetings**
- 4:15**        **Plenary session** – Dr. Michael Gallo, Workshop Chair  
Public comments and update on status of breakout group deliberations
- 5:15**        **ADJOURN**

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**Wednesday, January 12, 2011**

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- 8:30 AM** **Plenary session: Breakout group reports/discussion** – Dr. Michael Gallo, Workshop Chair  
8:30 Organotins and phthalates - Dr. Kim Boekelheide, Brown University  
9:00 BPA, other steroid hormones and thyroid hormones - Dr. Ted Schettler, Science and Environmental Health Network  
9:30 Nicotine and pesticides - Dr. Alison Holloway, McMaster University
- 10:00** **BREAK**
- 10:30** **Breakout group meetings**
- Arsenic and other metals continued
  - POPs continued
  - HTS profiling for biological processes relevant for diabetes and obesity
    - “A bioinformatics-based approach to identify assays that query human health effects” – Dr. Scott Auerbach, NIH/NIEHS/NTP
    - HTS screening profiles biological processes related to diabetes and obesity
- 12:00 PM** **LUNCH**
- 1:00** **Plenary session: Breakout group reports/discussion** – Dr. Michael Gallo, Workshop Chair  
1:00 Arsenic and other metals - Dr. Dana Loomis, University of Nebraska Medical Center  
1:30 POPs - Dr. Raymond Novak, Shriners Hospitals for Children International  
2:00 Bioinformatics and HTS approaches - William Janzen, University of North Carolina-Chapel Hill
- 2:30** **Plenary lecture:** “An environmental-wide association study on Type 2 diabetes mellitus” - Chirag Patel, Stanford
- 3:00** **BREAK**
- 3:30** **Breakout group meetings**
- Strategies to assess diabetes/obesity/metabolic syndrome and critical data gaps/research needs (participants are assigned to 1 of 4 separate groups, A, B, C or D)
- 5:00** **ADJOURN**

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**Thursday, January 13, 2011**

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- 8:30 AM** **Plenary session: Breakout group reports** – Dr. Michael Gallo, Workshop Chair  
8:30 Common Themes – Dr. Michael Gallo  
9:00 Breakout group A - Dr. James Kaput, NCTR/FDA  
9:20 Breakout group B - Dr. Lars Lind, University Hospital of Uppsala  
9:40 Breakout group C - Dr. Morris White, Harvard University  
10:00 Breakout group D - Dr. Franck Mauvais-Jarvis, Northwestern University
- 10:30** **Plenary session: General Discussion** – Dr. Michael Gallo, Workshop Chair  
Comments from Dr. David Jacobs, University of Minnesota School of Public Health
- 11:00** **Plenary session: Closing Comments**  
Dr. Michael Gallo, Workshop Chair  
Dr. Jerry Heindel, Division of Extramural Research and Training, NIH/NIEHS/DERT  
Dr. John Bucher, Associate Director NIH/NIEHS/NTP
- ~11:15 PM** **ADJOURN**