



## Addiction, Microarrays, and Gene Discovery

May 31 – June 1, 2007

Embassy Suites Hotel at the Chevy Chase Pavilion  
Washington, DC

### Agenda

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#### Day 1 — Thursday, May 31, 2007

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 – 8:30 a.m.   | <b>Registration</b>                                                                                                                                                                                                            |
| 8:30 – 8:40 a.m.   | <b>Welcome and Charge to the Group</b><br><i>Jonathan Pollock, Ph.D.</i><br><i>National Institute on Drug Abuse</i>                                                                                                            |
| 8:40 – 8:50 a.m.   | <b>Introductions</b><br><i>John Satterlee, Ph.D.</i><br><i>National Institute on Drug Abuse</i>                                                                                                                                |
| 8:50 – 9:30 a.m.   | <b>An Overview of New Microarray Platforms, GeneNetwork, MouseBIRN, and the Perlegen-NIEHS SNP Collection</b><br><i>Robert W. Williams, Ph.D.</i><br><i>University of Tennessee Health Science Center</i>                      |
| 9:30 – 9:50 a.m.   | <b>Combination of QTL Mapping and Gene Expression Microarrays to Identify Candidate Genes for Sensitivity to the Acute Effects of Drugs in Mice and Humans</b><br><i>Abraham Palmer, Ph.D.</i><br><i>University of Chicago</i> |
| 9:50 – 10:10 a.m.  | <b>Allele-Specific Gene Expression in Human Brain</b><br><i>Charles Glatt, M.D., Ph.D.</i><br><i>Weill Medical College of Cornell University</i>                                                                               |
| 10:10 – 10:30 a.m. | <b>Break</b>                                                                                                                                                                                                                   |

- 10:30 – 10:50 a.m.**                    **Using Inbred Strains and Microarray Analysis to Identify Genes and Gene Networks Involved in Addiction**  
*Lisa Tarantino, Ph.D.*  
*Genomics Institute of the Novartis Research Foundation*
- 10:50 – 11:10 a.m.**                    **A Behavior Genetic Strategy for Linking Genes to the Behavioral Effects of Morphine**  
*Gregory I. Elmer, Ph.D.*  
*University of Maryland*
- 11:10 – 11:30 a.m.**                    **Identifying Acute Ethanol-Responsive Gene Networks by Expression Profiling Across Recombinant Inbred Panels**  
*Michael F. Miles, M.D., Ph.D.*  
*Virginia Commonwealth University*
- 11:30 – 11:50 a.m.**                    **The Collaborative Cross, a Reference Population for Systems Genetics Analysis of Addiction**  
*Elissa J. Chesler, Ph.D.*  
*Oak Ridge National Laboratory*
- 11:50 a.m. – 12:10 p.m.**                **Comparing Gene Expression With Colorimetric ISH and Microarray Data**  
*Michael Hawrylycz, Ph.D.*  
*Allen Institute for Brain Science*
- 12:10 – 1:20 p.m.**                    **Lunch (*on your own*)**
- 1:20 – 1:40 p.m.**                    **Prenatal Drug-Induced Alterations in Gene Expression, Brain Structure, and Function**  
*Barry Kosofsky, M.D., Ph.D.*  
*Weill Medical College of Cornell University*
- 1:40 – 2:00 p.m.**                    **Functional Genomics of Quantitative Traits: Expression-Level Polymorphisms of QTLs Affecting Disease Resistance Pathways in Arabidopsis**  
*Rebecca W. Doerge, Ph.D.*  
*Purdue University*
- 2:00 – 2:20 p.m.**                    **Chrna7 Congenic Mice: Amenable to Meaningful Microarray Analysis?**  
*Jerry A. Stitzel, Ph.D.*  
*University of Colorado at Boulder*
- 2:20 – 2:40 p.m.**                    **MAGIC-B: Gene Arrays, bQTLs, eQTLs, and Candidate Genes**  
*Boris Tabakoff, Ph.D.*  
*University of Colorado at Denver*
- 2:40 – 3:00 p.m.**                    **Break**

<b>3:00 – 3:20 p.m.</b>	<b>Brain Gene Expression on Complex Genetic Backgrounds</b> <i>Robert Hitzemann, Ph.D.</i> <i>Oregon Health &amp; Science University</i>
<b>3:20 – 3:40 p.m.</b>	<b>Large-Scale Genomic Replacements in the Mouse: An Example of a Precise 6 Megabase Genetic Humanization</b> <i>David Valenzuela, Ph.D.</i> <i>Regeneron Pharmaceuticals, Inc.</i>
<b>3:40 – 4:00 p.m.</b>	<b>Break</b>
<b>4:00 – 6:00 p.m.</b>	<b>Breakout Session 1</b> Scientific Opportunities and Obstacles
<b>6:00 p.m.</b>	<b>Adjournment</b>

## **Day 2 — Friday, June 1, 2007**

<b>8:00 – 8:30 a.m.</b>	<b>Registration</b>
<b>8:30 – 8:35 a.m.</b>	<b>Charge to the Group</b>
<b>8:35 – 8:40 a.m.</b>	<b>Presentation, Group A</b>
<b>8:40 – 8:45 a.m.</b>	<b>Presentation, Group B</b>
<b>8:45 – 10:20 a.m.</b>	<b>Breakout Session 2</b> Tools and Resources for the Future
<b>10:20 – 10:40 a.m.</b>	<b>Break</b>
<b>10:40 – 11:00 a.m.</b>	<b>Presentation, Group A</b>
<b>11:00 – 11:20 a.m.</b>	<b>Presentation, Group B</b>
<b>11:20 a.m. – 12:20 p.m.</b>	<b>Plenary Group Discussion</b>
<b>12:20 – 12:30 p.m.</b>	<b>Closing Remarks</b>
<b>12:30 p.m.</b>	<b>Adjournment</b>