

# LINCS Investigator Meeting

November 15-16, 2012  
Lister Hill, NIH, Bethesda, Maryland 20852-1699

## AGENDA

### Day 1: Thursday, November 15, 2012

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8:00 – 8:30 am      **Registration**

8:30 – 8:45 am      **Welcome, Overview and Introductions**  
Mark Guyer

#### Session 1: Data Production and Data Access

Moderators: Ajay Pillai

8:45 – 9:45 am      **U54 Updates**  
*20 minute presentations, 5 minutes for questions. Focus on data generation and accessibility, and new science.*

- **Broad Institute:** Large Scale Expression Analysis of Cellular States
- **Harvard Medical School**
- **Joint Project (10 minutes):**

9:45 – 10:45 am      **U01 Technology Development**  
*20 minute presentations. Update on technology development, data generation capacity, and TCP data generation.*

- **Arizona State University:** Live-Cell Microarray For High-Throughput Observation Of Metabolic Signatures
- **Broad Institute:** Accelerated Protein Signaling Signature (Ms-Based Approach)
- **Yale University:** Integrated microchip for high-content, high-throughput analysis of single cell phosphoprotein signatures

10:45 – 11:05 am      **BREAK**

11:05 – 11:35 am      **Panel with Technology Development U01 and U54 PIs:** Generation and accessibility of LINCS data

11:35 – 11:55 am      **LINCS Trans-Center Project:** Data generation and analysis update.

11:55 – 12:15 pm      **Data Working Group: Update & Future**  
Stephan Schurer

12:15 pm – 1:15 pm      **LUNCH**

#### Session 2: Data Access and Tools for Biomedical Researchers

Moderator: Jennie Larkin

1:15 – 3:00 pm      **Updates (U54s, Comp U01s, Collaborative Supplements)**  
*15 minute presentations*

**Miami:** LINCS Information FramEwork (LIFE)

**Cincinnati:** Integrated LINCS (iLINCS) Data Portal

**Broad U54:** Broad WebApps: Interrogate L1000 profiles with biologist-friendly user interfaces

**Broad U54:** lincscld: Cloud-based data access and compute

**HMS (Josh Stuart):** Linking genomic perturbations to transcriptional signatures reveals cancer cell circuitry.

**Methodist:** *itNETZ*: Integrative and Translational Network-based Cellular Signature Analyzer

**Columbia (Mukesh Bansal):** Network dysregulation following drug perturbation reveals drug mode of action

**3:00 – 3:30 pm**

**BREAK**

**3:30 – 4:15 pm**

**5 Minute Demonstration for each tool**

**Miami:** LINCS Information FramEwork (LIFE)

**Cincinnati:** Integrated LINCS (iLINCS) Data Portal

**HMS (Avi Ma'ayan):** Interactive Web and Mobile App for Visualization and Analysis of L1000 Data.

**HMS (Jeremy Muhlich):** Pathway Browsing LINCS data via a New User Interface

**Methodist:** *itNETZ* Tool Package

**Methodist:** pLINDAW Data Warehouse

**Broad U01 (Mike MacCoss):** Skyline and Panorama: Tools for the development and dissemination of quantitative proteomics methods and results.

**4:15 – 6:15 pm**

**Poster Session & Hands-on “Try the Tools”**

**5:45 – 6:15 pm**

**Steering Committee Meeting NIH–PI**  
In Lister Hill Auditorium

**7:15 pm**

**Dinner @ Lebanese Taverna**  
(PIs and Co-PIs, ESP, NIH)

## **Day 2: Friday, November 16, 2012**

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**8:00 – 8:15 am**

**Evan Snyder:** A springboard for delineating the intracellular signaling pathways in neuropsychiatric disorders: using hiPSCs from bipolar patients to study lithium targets & its mechanism of action

**8:15 – 8:45 am**

**U01 Computational & Technology Development: Columbia**

### **Session 3: Outreach & Tools**

Moderator: Stephan Schurer & Aravind Subramanian

- 8:45 – 9:15 am**      **Outreach Discussion/Report (30 minutes):** *DREAM and LINCS data access; data normalization consensus and LINCS best practices; other outreach to MLP, ENCODE, CTD2, others, March workshop, Nov/Dec 2013 LINCS Public Meeting etc.* (Aravind)
- 9:15 – 10:10 am**      **Hands-on “Try the Tools”**
- 10:10 – 10:30 am**      **BREAK**
- 10:30 – 11:00 am**      **Discussion:** *Missing Tools and Visualization Challenges* (Stephan)

### **Session 4: Round Table Discussions**

Moderator: Peter Sorger

- 11:00 – 11:30 am**      **Evaluating community response and needs**  
Panel: Caroline Shamu, Aravind Subramanian, Deirdre Meldrum, Jennie Larkin
- What can we do in the next 4 months?
- 11:30 – 12:00 pm**      **Easing the burden of navigation/access of LINCS tools & data for community: Reflections from and on the presentations and hands-on demos on Day 1**  
Panel: Stephan Schurer, Mario Medvedovic, Xiaobo Zhou, Avi Ma’ayan, Ajay Pillai
- What can we do in the next 4 months?
- 12:00 pm**      **Meeting Adjourns**
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- 12:00 – 12:30 pm**      **NIH-ESP meeting to discuss scientific scope of Bridge Yr & Phase 2**  
Break-out room
- 12:30 – 1:00 pm**      **NIH-ESP-PI meeting to discuss scientific scope of Bridge Yr & Phase 2**  
Break-out room
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- 2:00 – 3:00 pm**      **LINCS NIH Project Team Meeting**  
The PT meeting will be in conference room 7N-710 in Building 38A (the same building as Lister Hill Auditorium).