# 2015 Summer Research Training Program in
BIOMEDICAL BIG DATA SCIENCE

sponsored by the Big Data to Knowledge (BD2K) **Data Coordination and Integration Center (DCIC)** *for the Library of Integrated Network-based Cellular Signatures (LINCS)*

Participate in cutting-edge research projects aimed at solving data-intensive biomedical problems
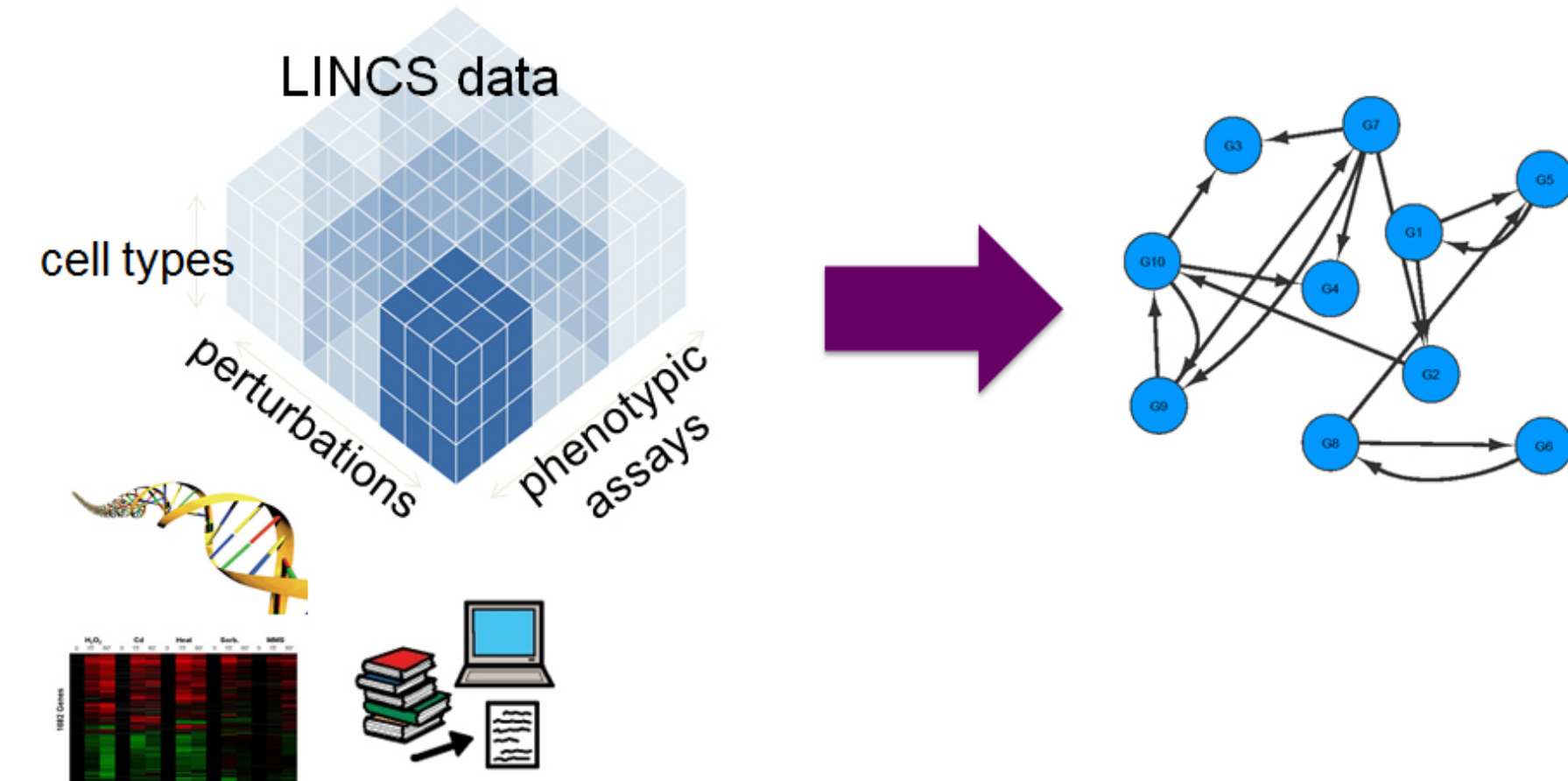
BD2K-LINCS Data Coordination and Integration Center

Icahn School of Medicine at Mount Sinai

UNIVERSITY OF Cincinnati

UNIVERSITY OF MIAMI

Research intensive **ten-week** training program offered at six sites affiliated with our NIH-funded BD2K Center:

- New York, NY: Icahn School of Medicine at Mount Sinai, Avi Ma'ayan PhD
- Cincinnati, OH: University of Cincinnati, Mario Medvedovic PhD
- Miami, FL: University of Miami, Stephan Schurer PhD
- Tacoma, WA: University of Washington, Ka Yee Yeung PhD
- Pittsburgh, PA: Carnegie Mellon University, Ziv Bar-Joseph PhD
- Danvers, MA: Cell Signaling Technology, Peter Hornbeck PhD

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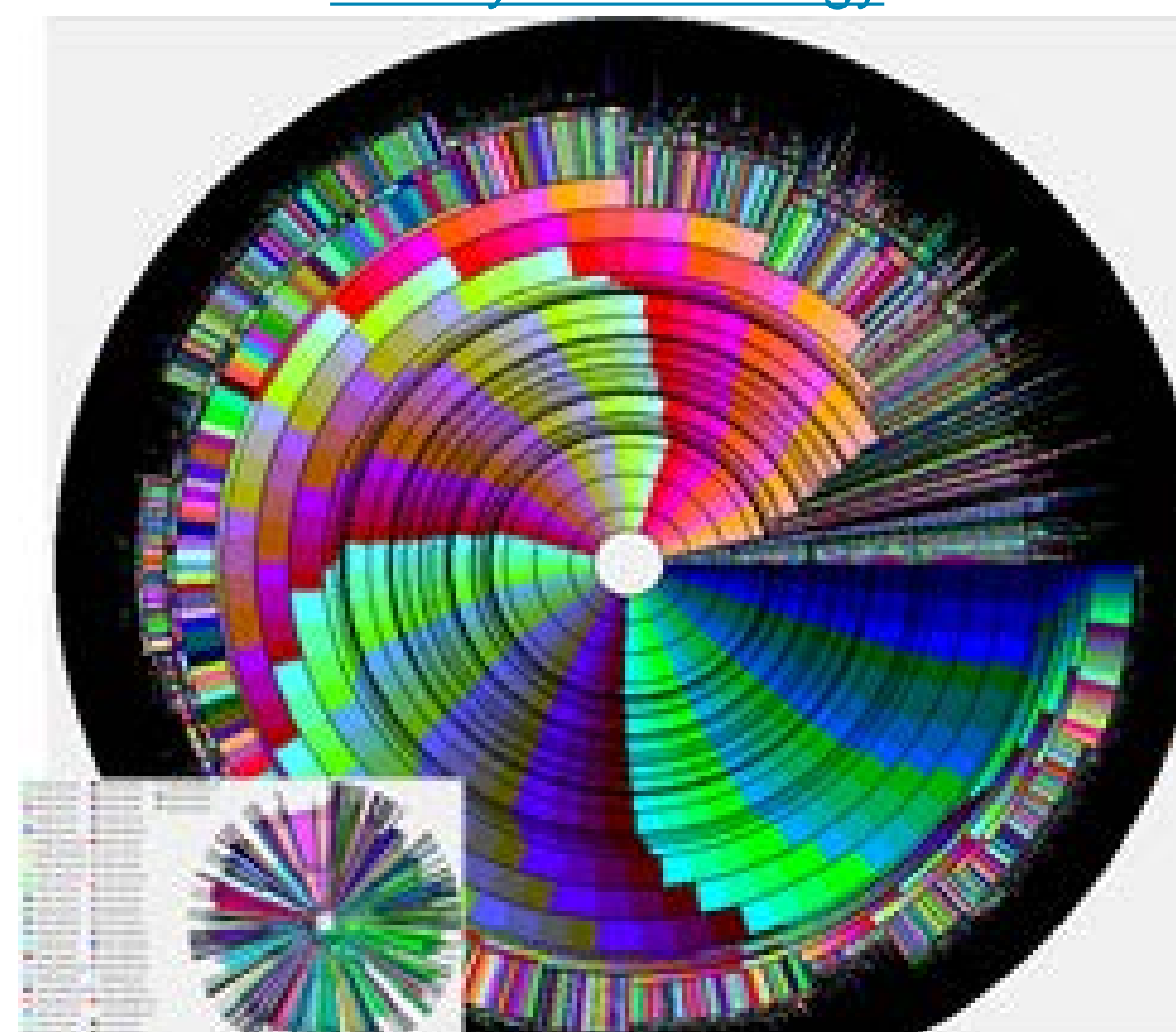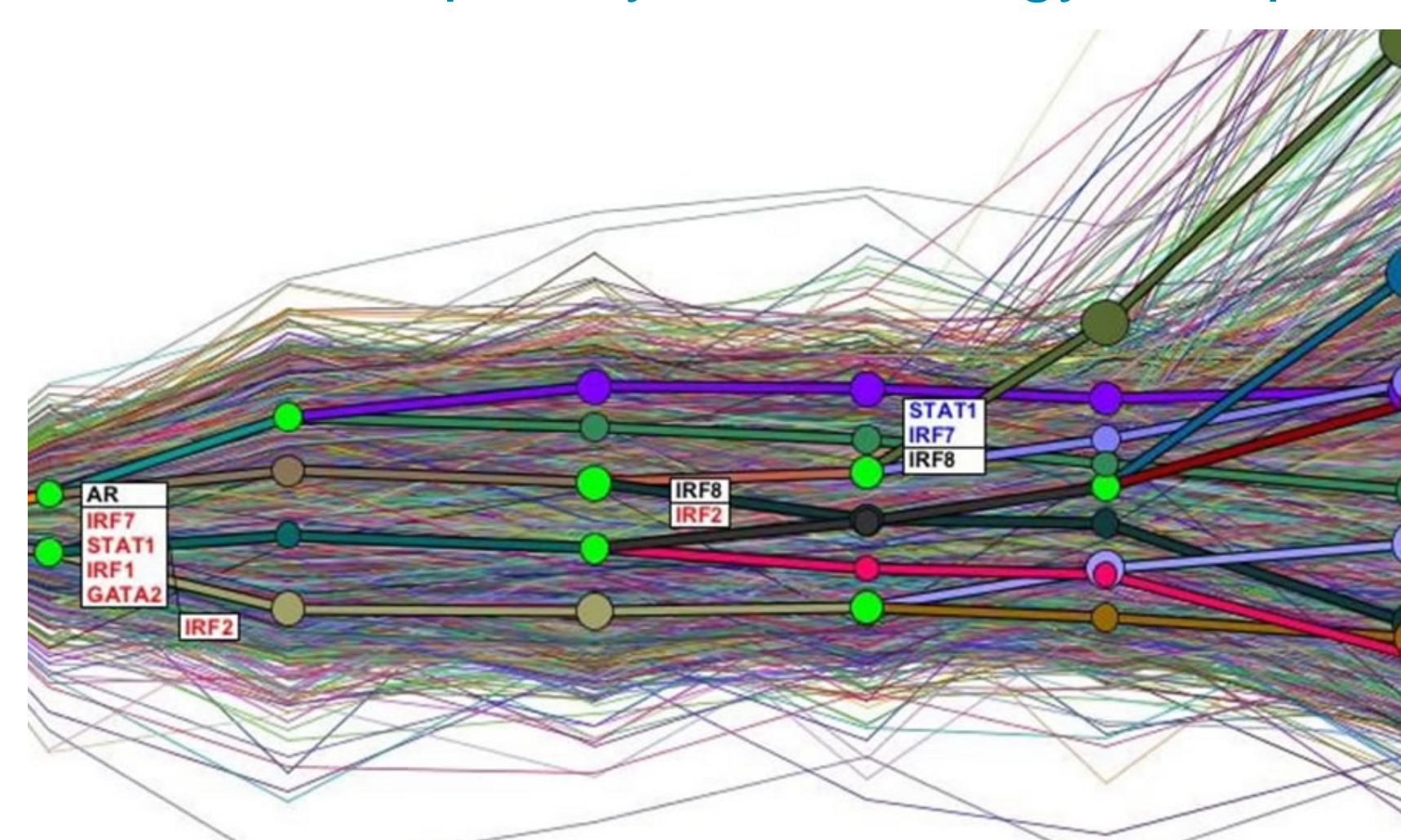Ma'ayan Laboratory of Computational Systems Biology
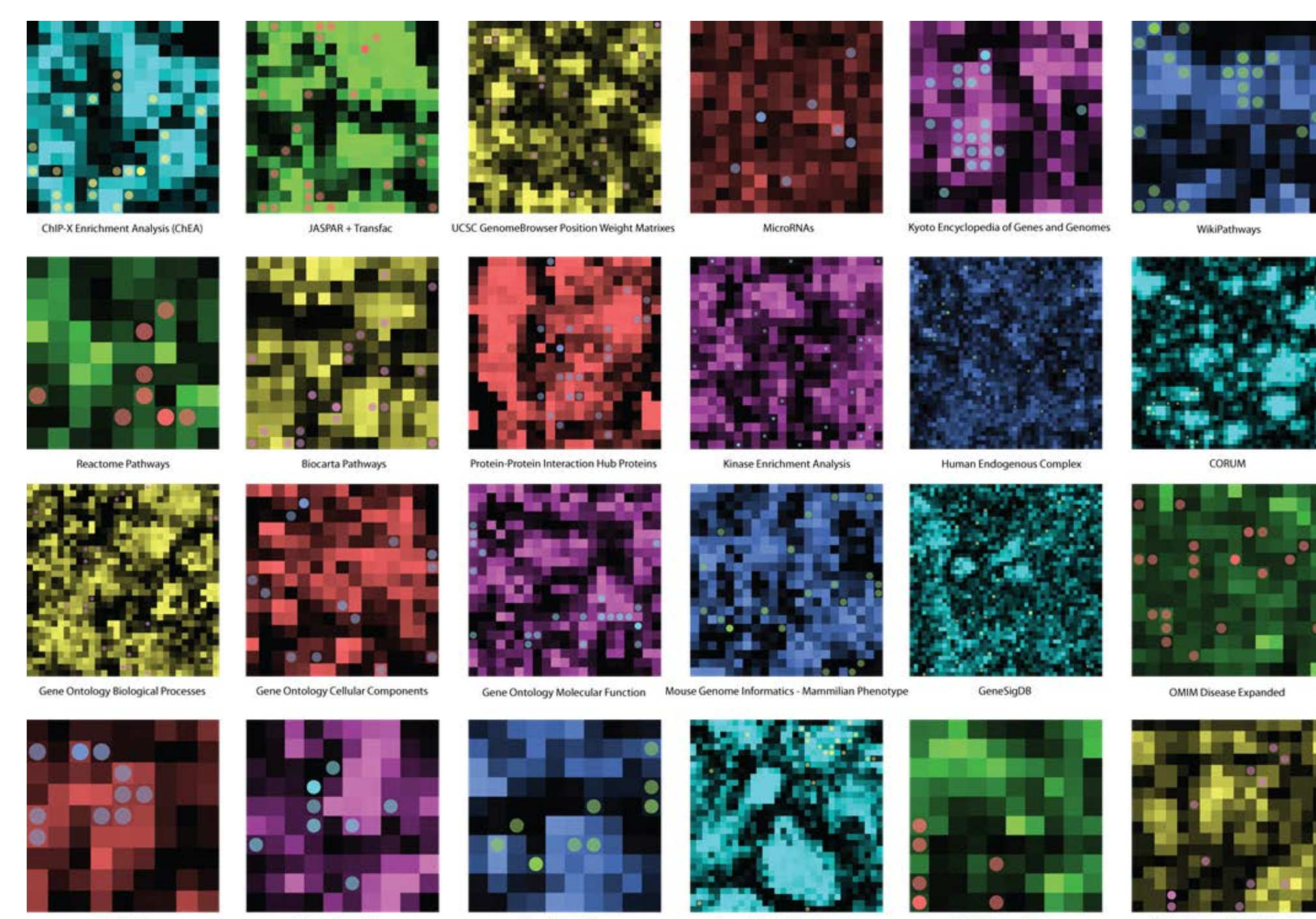
- Dynamic Data Visualization
- Machine Learning
- Data Harmonization

University of Cincinnati
Medvedovic Laboratory for Statistical Genomics and Systems Biology

- Bayesian Networks
- Data Integration
- Statistical Mining

University of Miami
Schurer / Center for Computational Science

- Ontologies
- Metadata and APIs
- Cheminformatics

University of Washington
Yeung / Computational Systems Biology Group

- Machine Learning
- Data Integration
- Network Visualization Plugins

Carnegie Mellon University
Bar-Joseph / Systems Biology Group

- Machine Learning
- Time Series Analysis
- Transcriptional Regulatory Networks

Cell Signaling Technology
Hornbeck / PhosphoSite and Bioinformatics Groups
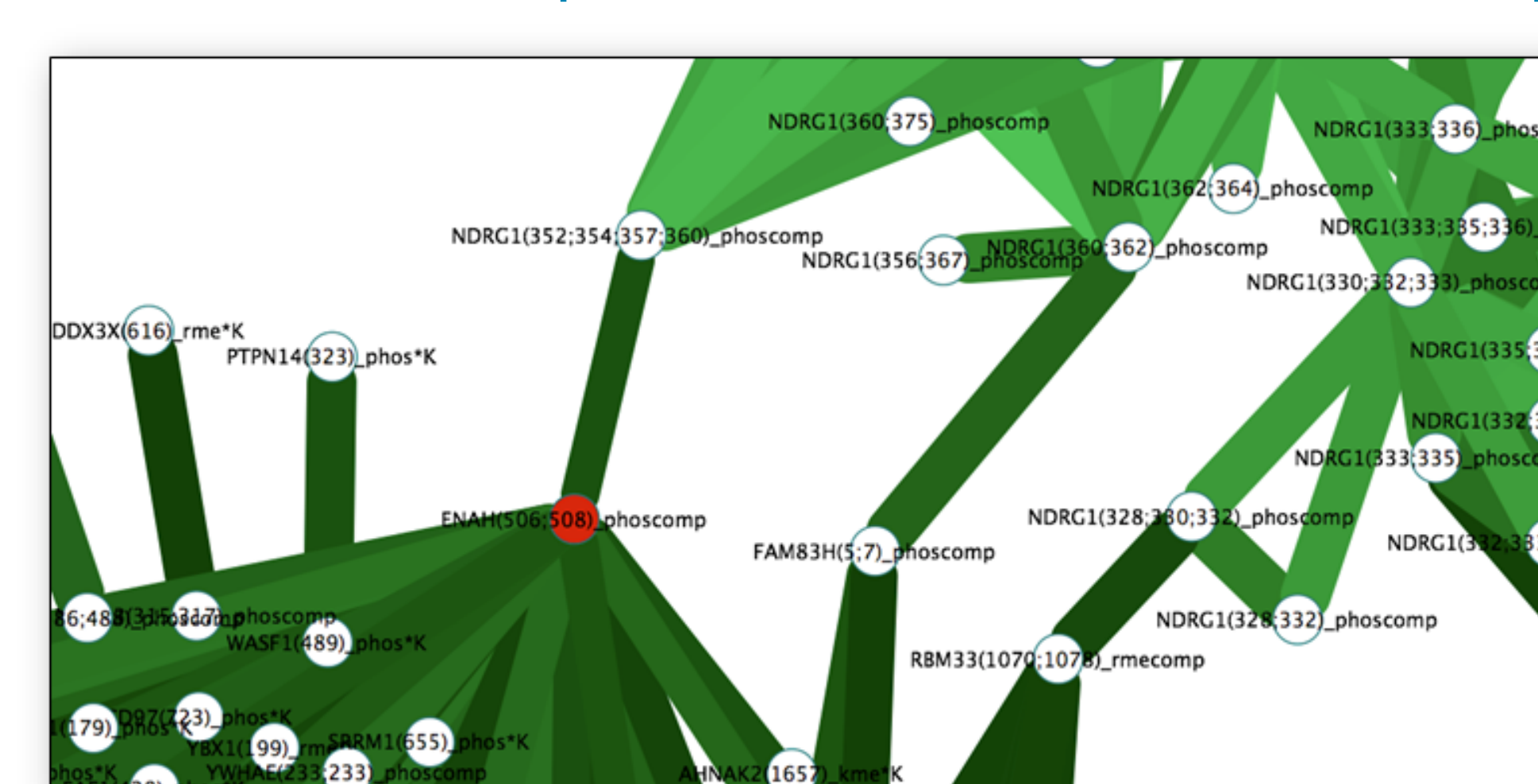
- Posttranslational Modification Networks
- Analysis of MS Proteomics Datasets
- Lung Cancer Biology

Program Dates:
June 1, 2015 - August 7, 2015

Award:
$4000 stipend for the ten-week training period

Eligibility:
To be considered for this program, applicants must be:
- US citizens or permanent residents
- an undergraduate or master's student in good academic standing

Who Should Apply:
- Students majoring in Computer Science, Informatics, Mathematics, Statistics, Physics, Engineering, Chemistry/Chemical Sciences and Biological Sciences who have an interest in Biomedical Big Data Science.
- Women and members of minority groups are strongly encouraged to apply.
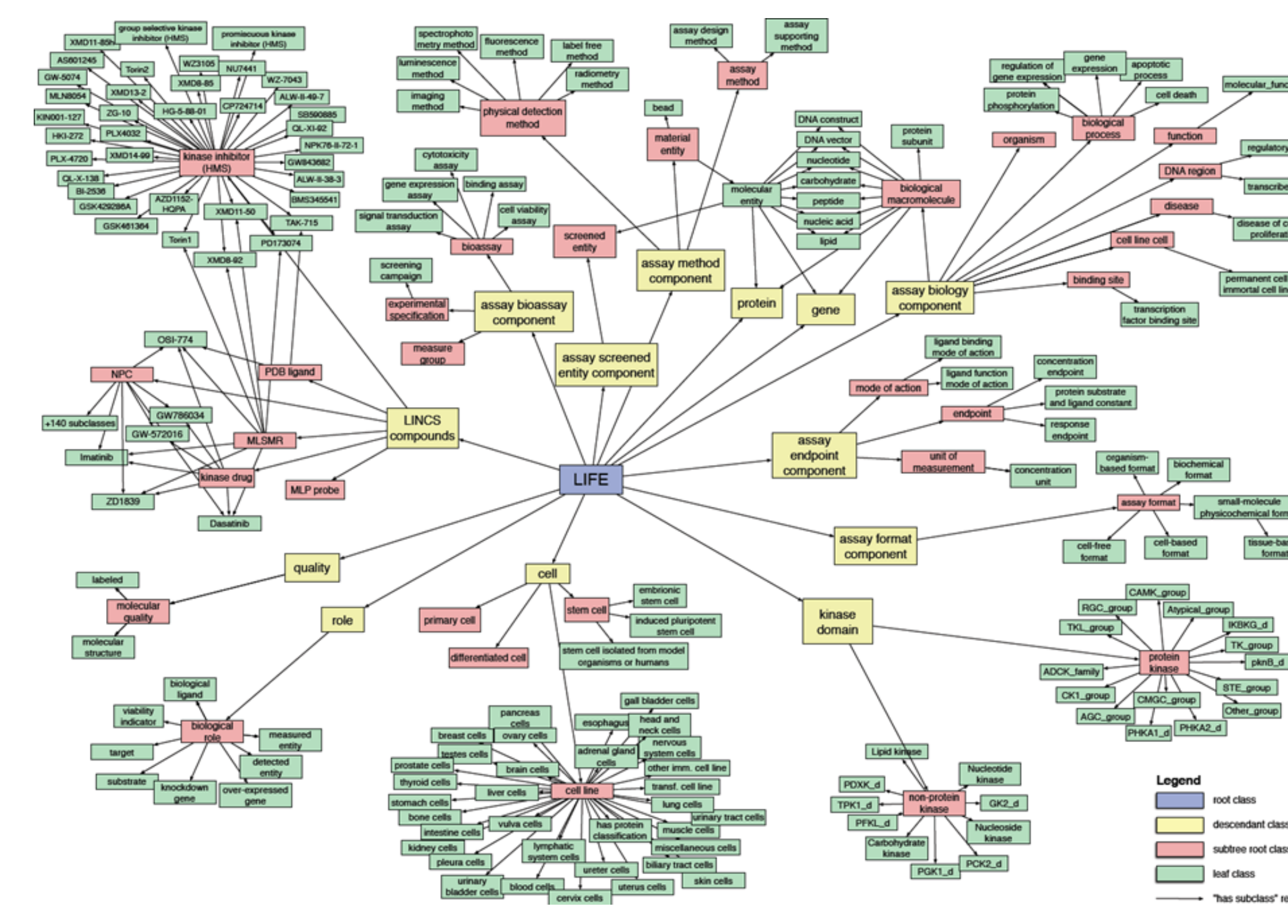
Online Application Form
http://tinyurl.com/m6tkq6p

Application Deadline:
March 2, 2015 at 11:00 PM Eastern Time

@BD2KLINCSDCIC

Contact:
Sherry Jenkins, M.S.
Program Manager
E-mail: sherry.jenkins@mssm.edu

November 2014

NIH Big Data to Knowledge (BD2K)

The NIH Common Fund

NIH LINCS PROGRAM