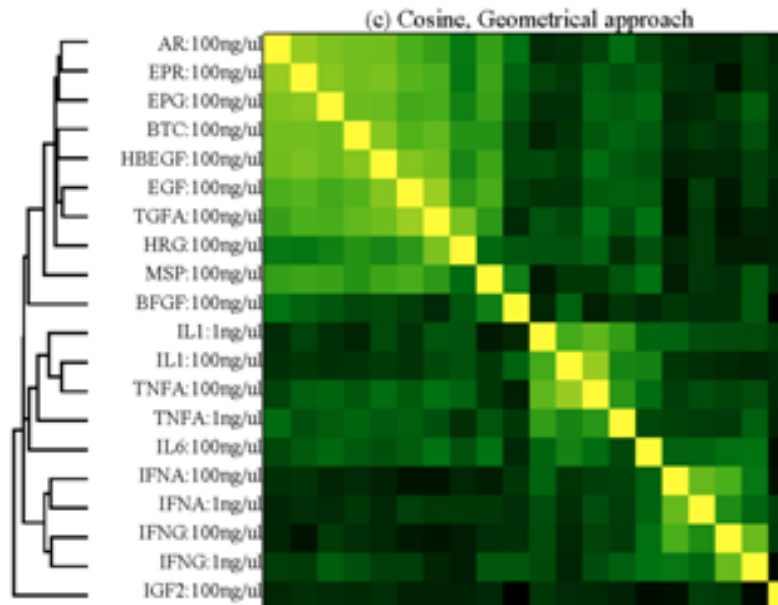
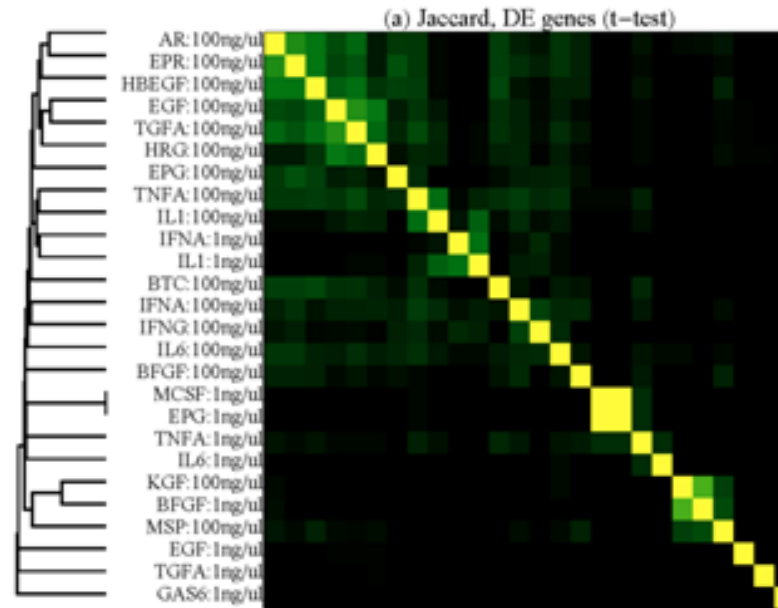
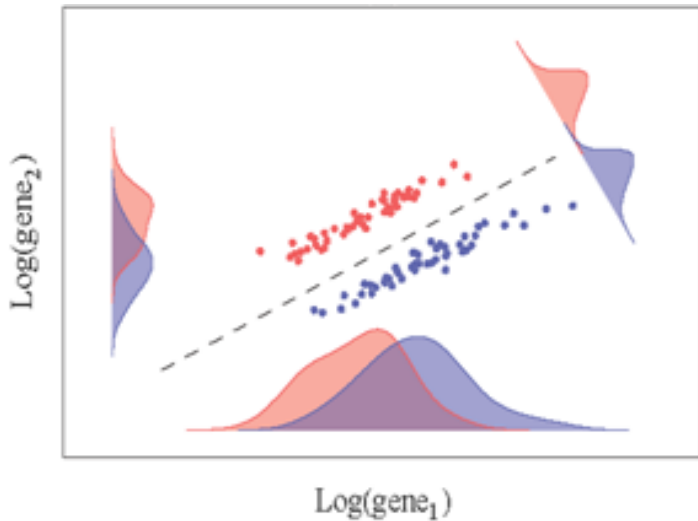


# Geometrical Method to Identify Significant Genes



Neil Clark

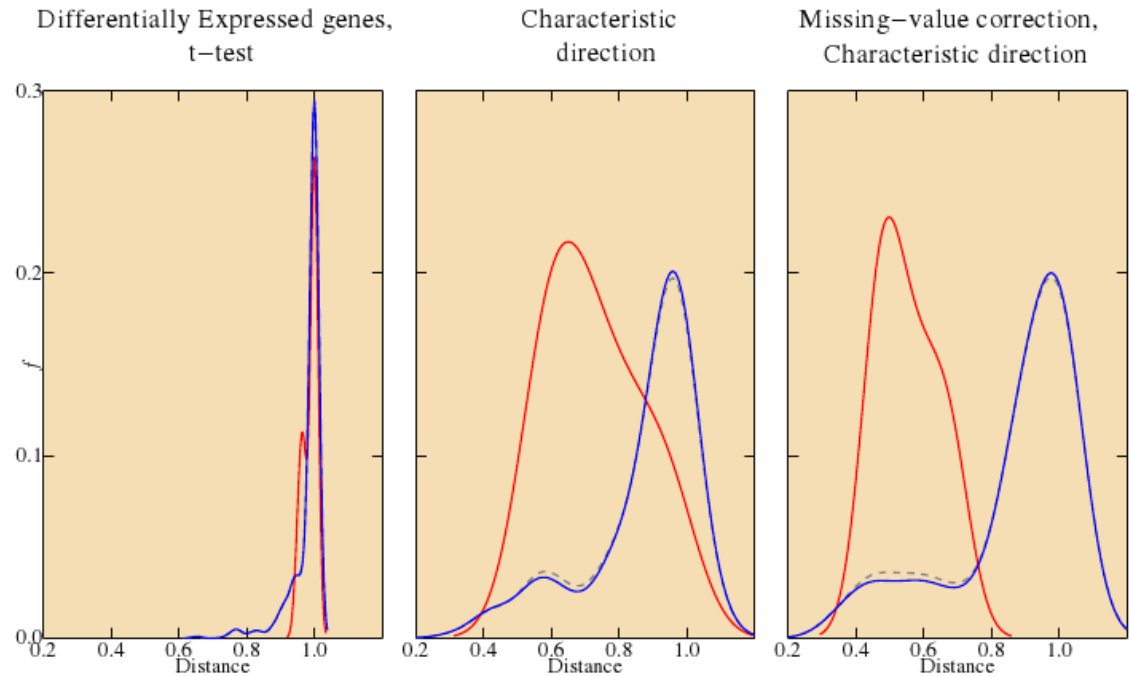
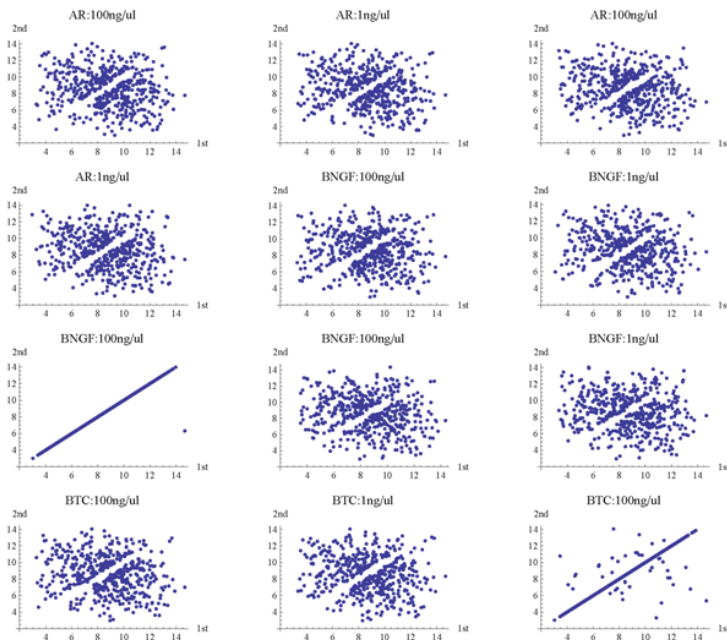


LJP004  
SKBR3  
at 24H

# Detecting and Fixing Anomalies with the L1000 Data



Neil Clark

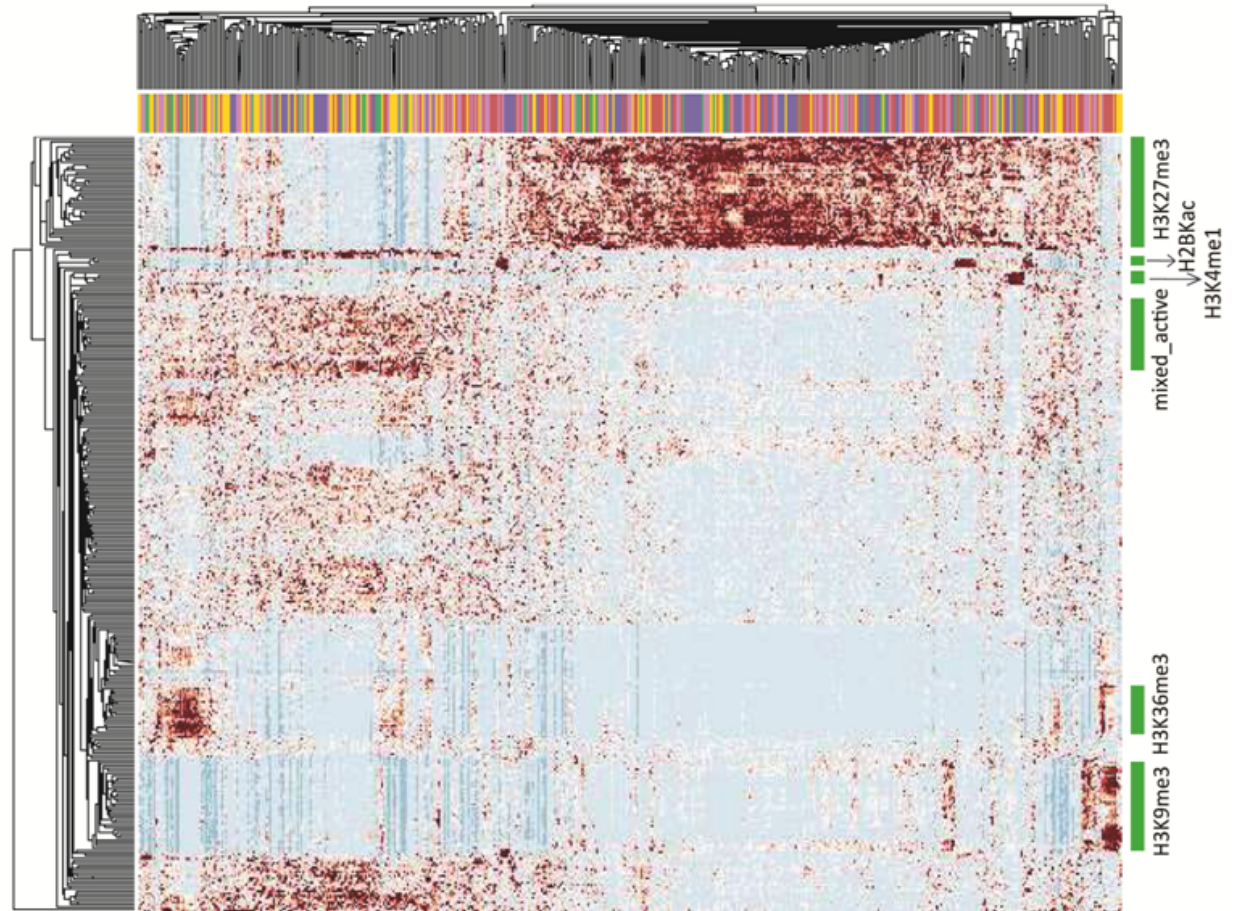
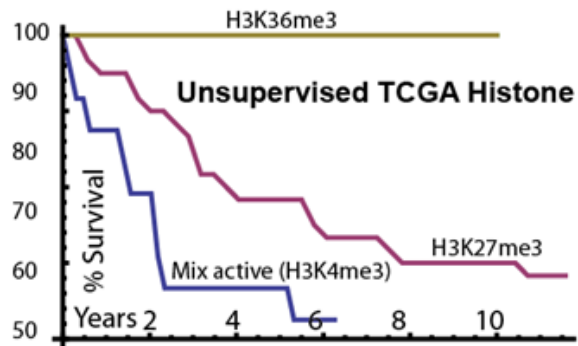


Red- the same perturbation  
Blue- all perturbations

# Meta-Signature Analysis Identified New Sub-types of Breast Cancer Patients



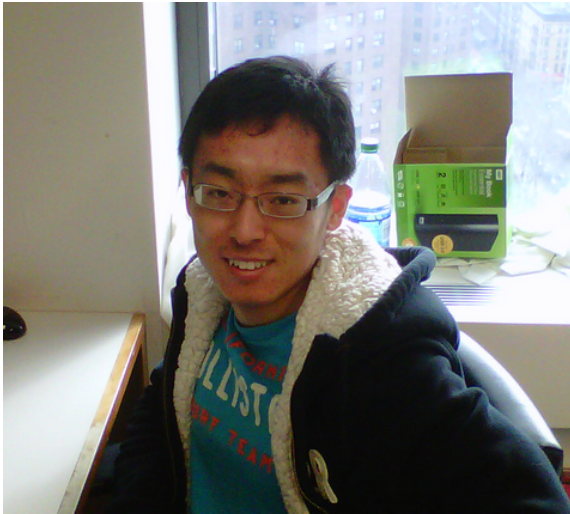
Yan Kou



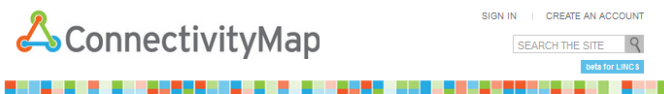
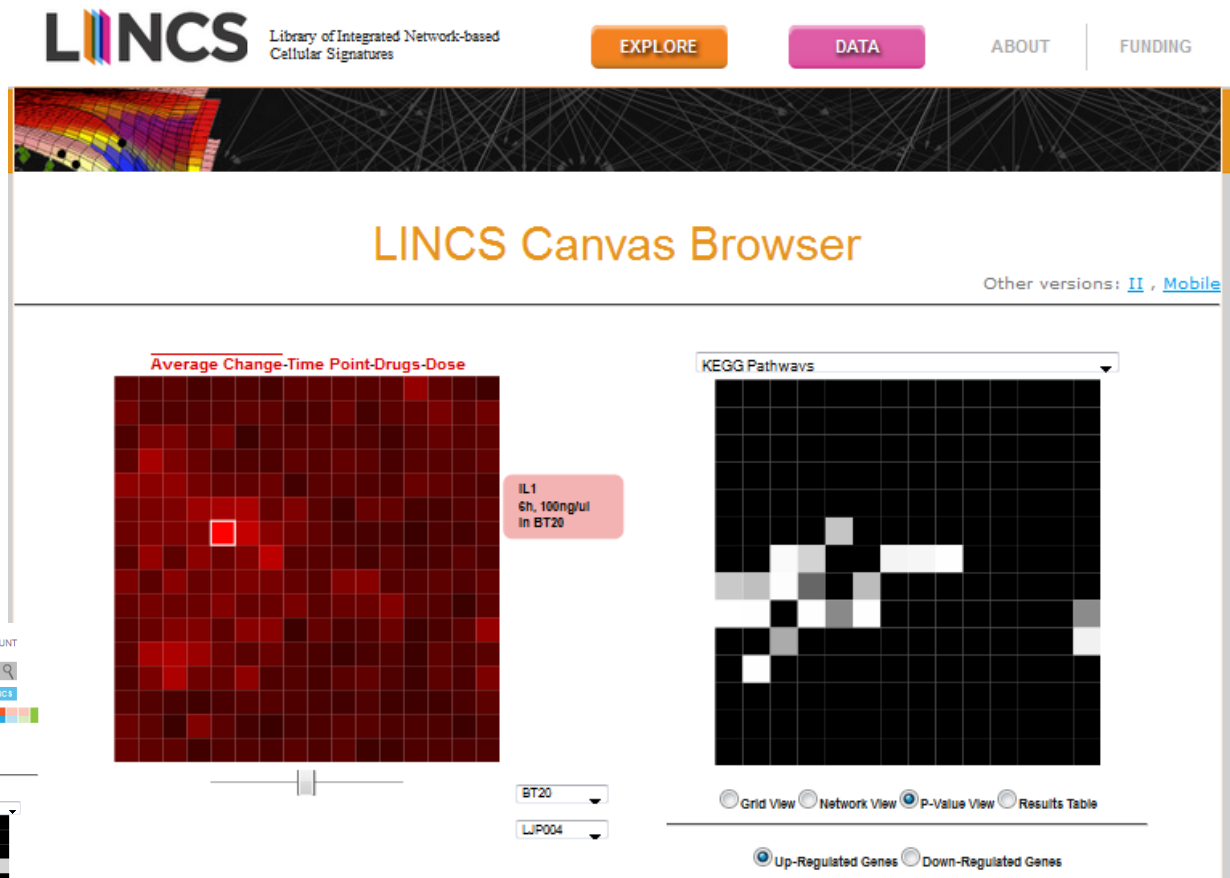
CPT: PHARMACOMETRICS & SYSTEMS PHARMACOLOGY. In press



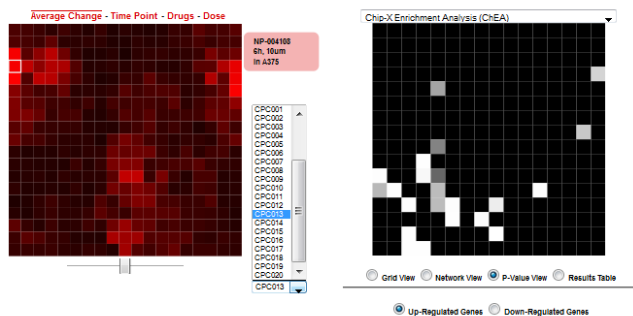
# LCB: LINCS Canvas Browser



Qiaonan Duan

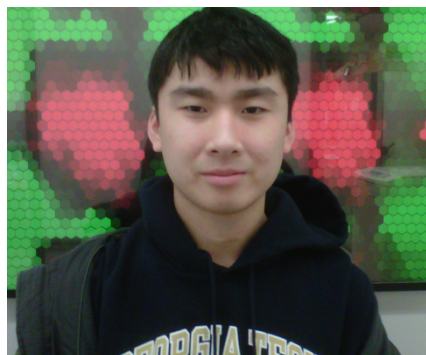


LINCS Canvas Browser



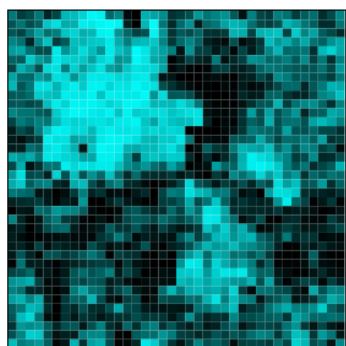
<http://www.maayanlab.net/LINCS/HMS/LCBI/>  
<http://www.maayanlab.net/LINCS/LCBK/>

# Network2Canvas and HMS Drug/Cell-line Browser



Christopher Tan

MACCS Structural Keys



**LINCS** Library of Integrated Network-based Cellular Signatures

EXPLORE DATA ABOUT FUNDING

## HMS Drug/Cell-Line Browser

Other versions: [II](#) , [Mobile](#)

Drug 1: (R)- ROSCOVITINE

Drug 2: HKI-272

Submit Reset

Toggle Text: White

Signal Ratio Filter: 1.248

A large heatmap visualization showing a grid of data points. The grid is predominantly black, with a large, irregularly shaped region of bright cyan and light blue pixels, indicating a specific structural key or cluster. The grid is populated with various colored circles (white, red, green, yellow) representing different data points or cell lines.

Drug Canvas:

A small heatmap visualization showing a grid of data points. The grid is predominantly black, with a large, irregularly shaped region of bright cyan and light blue pixels, indicating a specific structural key or cluster.

Highlight Cancers: None Chosen

- ☐ Main View
- ☐ View by Cancer Type
- ☐ Show Results for Drug 1
- ☐ Show Results for Drug 2
- ☒ Show Both Results
- ☐ Intersection Only
- ☐ Network View

<http://www.maayanlab.net/LINCS/HMS/DCB/>  
[www.maayanlab.net/N2C](http://www.maayanlab.net/N2C)

# Enrichr: Interactive and collaborative HTML5 gene list enrichment analysis tool



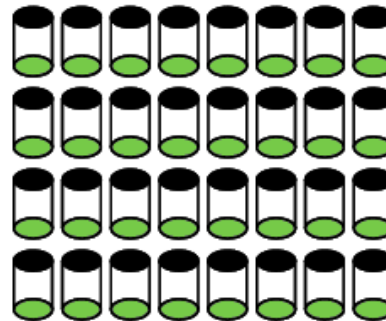
Ed Chen

Gene1  
Gene2  
Gene3  
Gene4  
Gene5  
Gene6  
Gene7  
Gene8  
...  
GeneN

Input gene  
lists

Enrichr

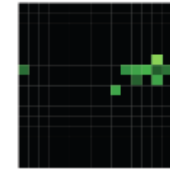
35 Gene Set Libraries



Tables

| Term              | Overlap | P-value   | Z-score   | Combined Score |
|-------------------|---------|-----------|-----------|----------------|
| MP0000609_#13/442 |         | 2.87E-05  | -1.689546 | 17.7139178     |
| MP0002118_#14/604 |         | 6.78E-04  | -2.374911 | 17.3269922     |
| MP0006036_#6/307  |         | 1.92E-04  | -1.881197 | 16.09621523    |
| MP0000555_#8/245  |         | 5.78E-04  | -1.864356 | 13.89912657    |
| MP0005266_#5/300  |         | 0.001104  | -1.869102 | 12.72690872    |
| MP0000765_#5/306  |         | 0.0015322 | -1.861359 | 12.06352873    |
| MP0002752_#14/676 |         | 5.25E-04  | -1.480832 | 11.18346686    |
| MP0000598_#12/586 |         | 0.0015077 | -1.504539 | 9.775220763    |
| MP0005332_#5/134  |         | 0.0087768 | -1.735447 | 9.681851103    |

Grids



Networks



Bar graphs



Transcription Pathways Ontologies Disease/Drugs Cell Types Misc

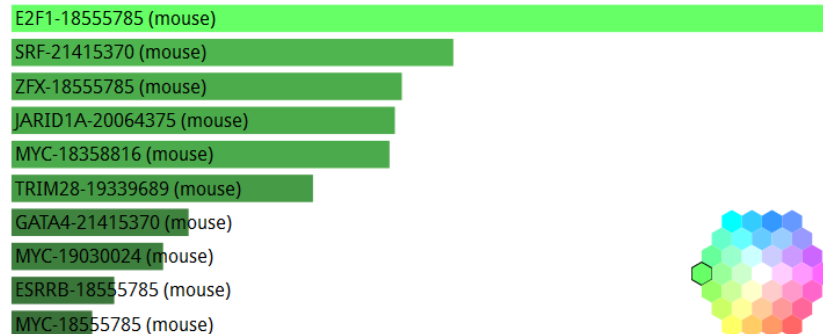
Description Sample gene list (413 genes)

ChEA

Bar Graph Table Grid Network

Click the bars to sort. Now sorted by combined score.

SVG PNG JPG



<http://amp.pharm.mssm.edu/Enrichr>

BMC BIOINFORMATICS. In press