

Drug-screening and identification of drug targets using NGS analysis

Objective

A Top 10 pharma required bioinformatics analyses for drug-screening and identify potential drug targets and their role in specific neurological indications

2.5 FTE

5 months

Methodology

Research institute, US :
Patient Cohort (CNS)

Identification of Data

Client:
Drug screening data & GWAS data

- Analysis**
- Genomics
 - Microarray
 - Proteomics
 - Metabolomics
 - MEGENA analysis

Enrichment



Hyper-geometric test
GO term enrichment

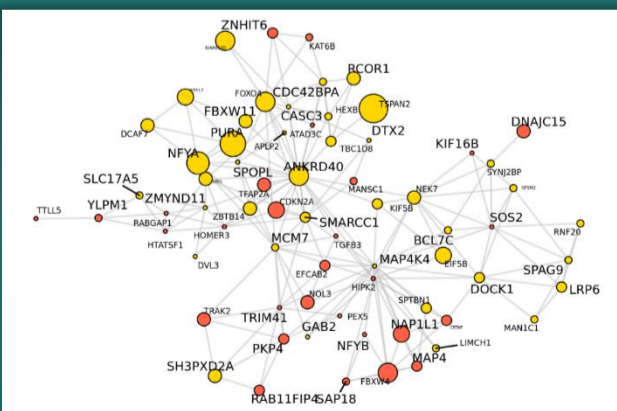
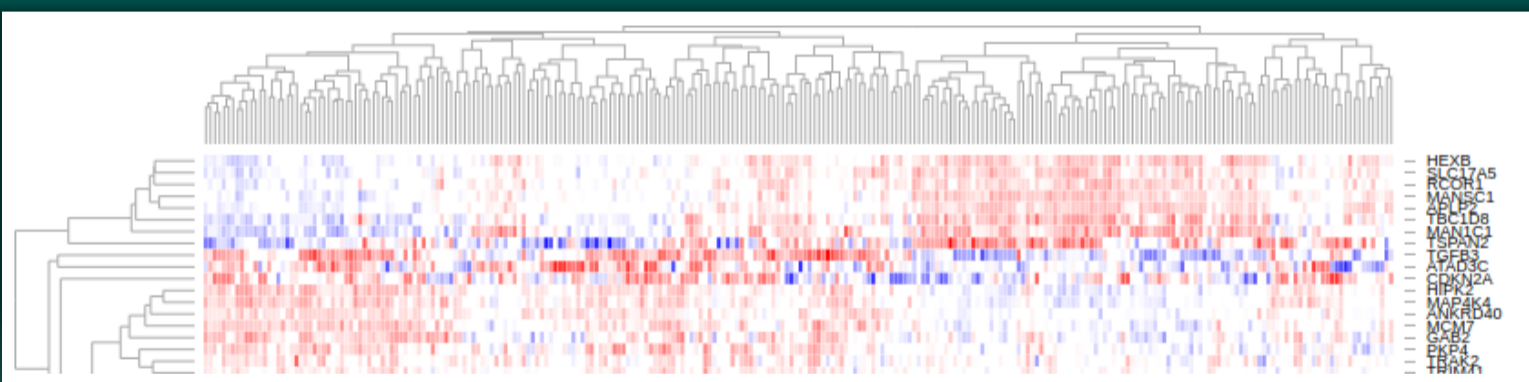
Visualization

- Differential expression
- GWAS on module genes
- Box plots and heatmap

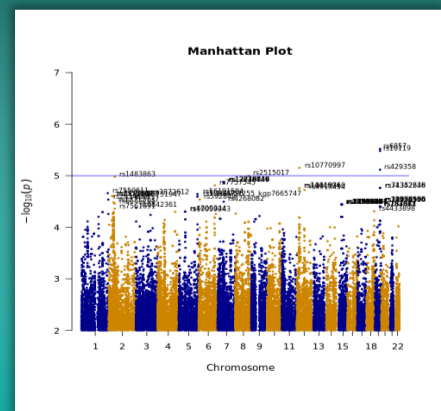
Outcomes

Elucidation of new targets for the group to initiate discovery programs

Enabling biologists to visualize large data sets, their associations and biological interpretation



GOBPID	Pvalue	Term
GO:0002376	9.7832180667315e-70	immune system process
GO:0006955	7.54703200495e-66	immune response
GO:0006952	7.6514540114653e-56	defense response
GO:0002682	1.20789064013447e-49	regulation of immune system process
GO:0002684	4.9391667102009e-48	positive regulation of immune system process
GO:0050776	9.9112825333193e-42	regulation of immune response
GO:0045321	3.9184795662305e-42	leukocyte activation
GO:0011775	2.06160594548761e-39	cell activation
GO:0050778	9.52805739917271e-35	positive regulation of immune response
GO:0045087	3.7229610211951e-35	innate immune response



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