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

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

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