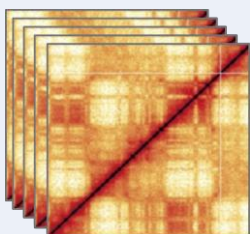


Chromatin Structure

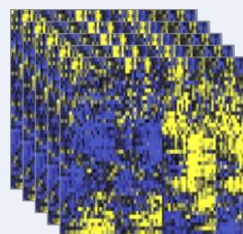
HiC



Chromosome Territories, Compartments, TADs, Enhancer and Promoter Annotation, and more, ...

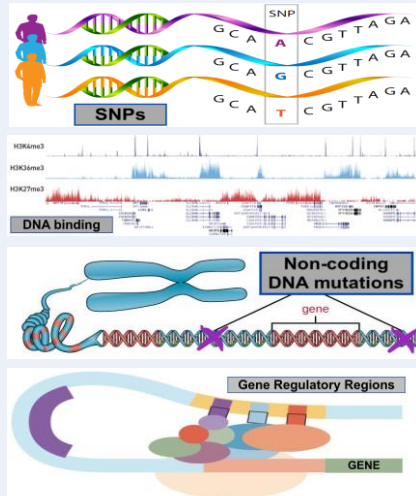
Gene Expression

GE



Expression Levels, Gene-pair Correlations, Epigenomic Context, and more ...

Genomic Context

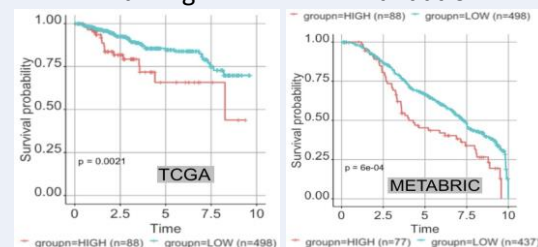


SNPs, Non-Coding Mutations, TFBS, DNA-binding, and more ...

Phenotype Analysis

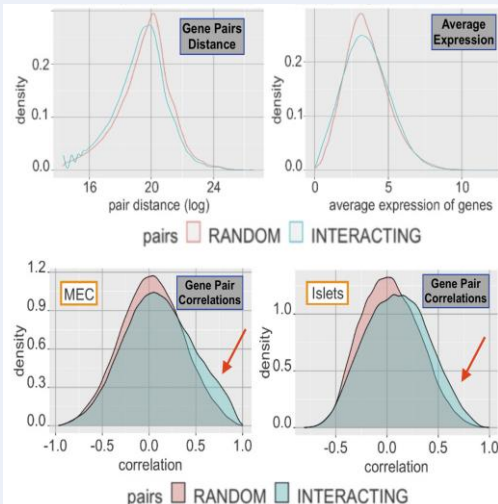
Training

Validation



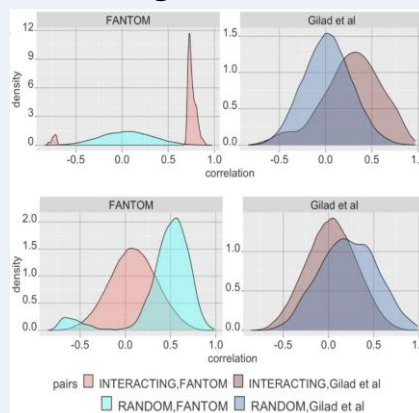
Patients with tumor displaying larger dysregulation showed shorter survival in training and testing cohorts

HiC/GEP Integration



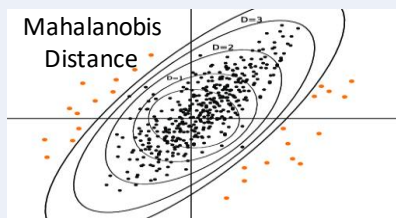
Expression for gene pairs involved in true chromatin interactions are more correlated than chance

Regulatory Modules Ranking and Selection



- Absolute Correlation > 0.5
- 10 genes or more
- At least 1 lncRNA, etc ...

Patient Outliers Detection



Dysregulated Modules

