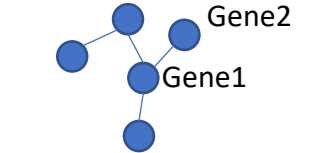


Normalized Expression Matrix

	Cell1	Cell2	Cell3	Cell4
Gene1	0.5	0.1	0.4	0
Gene2	1.2	0	3.2	1.1
Gene3	0	0.1	0.5	...

Gene Network

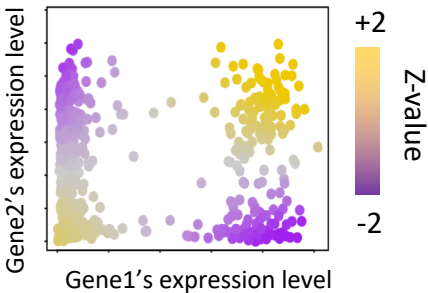


$$Z = \frac{\Delta PCC_n}{(1 - PCC_n^2)/(n - 1)}$$

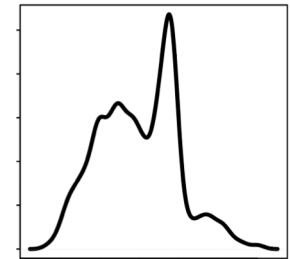
Z-value Matrix

	Cell1	Cell2	Cell3
Gene1.And.Gene2	-0.5	NA	-1.2
Gene1.And.Gene3	NA	0.6	0.8
...	NA	NA	...

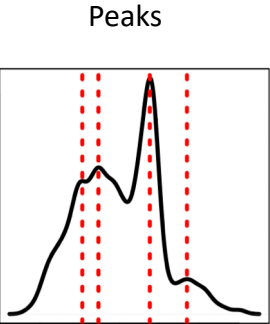
Expression & Z-value



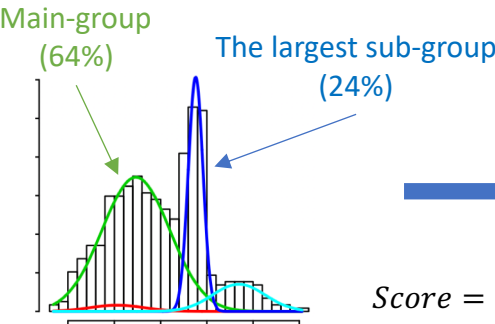
Gene1.And.Gene2
Z-value Distribution



Detect peaks

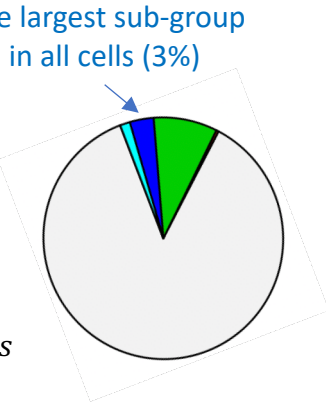


Analyze mixture of models

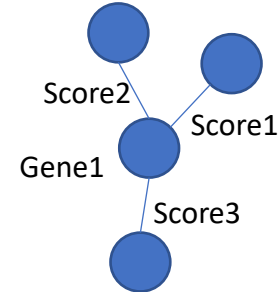


Calculate score

Score = *The proportion of the largest sub group in all cells*



Gene Network

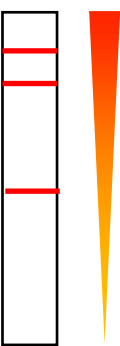


Rank scores

Gene1

Score1
Score2
Score3

All scores



One-side K-S test

Gene1's Pvalue

Process each gene

Generate report

