

Construct initial protein-protein
interaction networks from large-scale
experiments and databases

Microarray data set
of cancerous cells

Microarray data set
of normal cells

Use nonlinear stochastic model
& Akaike Information Criteria (AIC)
to modify initial protein-protein
interaction networks

Protein-protein
interaction networks
of cancerous cells

Protein-protein
interaction networks
of normal cells

Derive gain- and loss-of-function
networks to identify protein hubs with
high degree of perturbation

Drug target discovery

