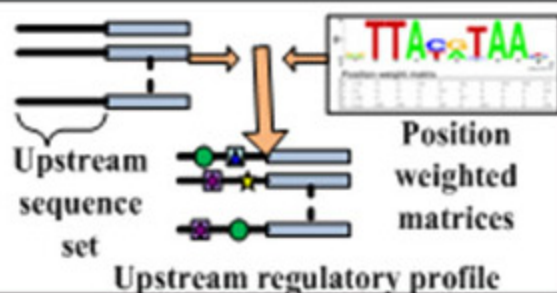


Gene expression data



Motif information/ChIP-on-chip data



Transcription Factor Activity Estimation (A)

Motif-guided gene clustering with a joint similarity measure

Integrating motif information and gene expression data

Regulation Strength Estimation (S)

Sparse component analysis of gene expression data

Exploiting a biological constraint: most genes are likely regulated by a few number of TFs

