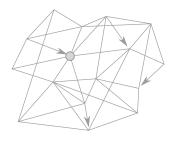


Integrating Protein Localization Information in Signaling Pathway Reconstructions

1. Signaling Pathway Reconstructions

Databases such as NetPath [1] provide annotated signaling pathways; however the manual curation of these databases is tedious and pathways are incomplete.

Suppose we consider the receptors and transcriptional regulators (TRs) of a pathway of interest that is embedded within a much larger interactome (12K nodes and 152K directed edges). A pathway reconstruction is a subnetwork that connects the receptors (blue diamonds) to the TRs (yellow squares).



Evaluating Pathway Reconstructions

We calculate true and false positives by comparing a pathway recon-

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