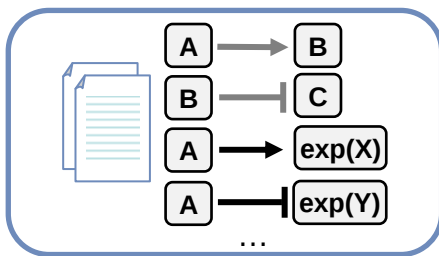
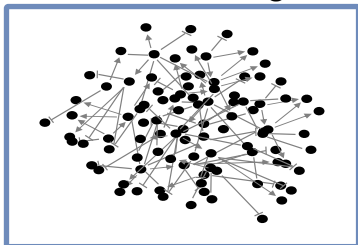


(a)

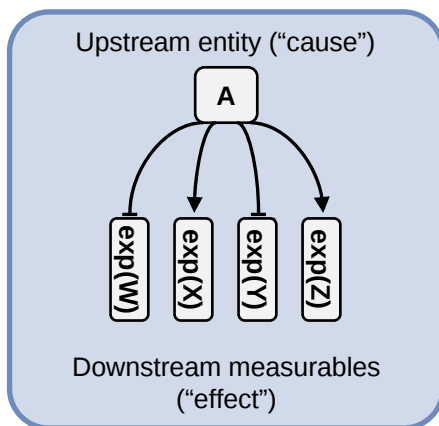
Literature-curated
causal knowledge



Selventa Knowledgebase

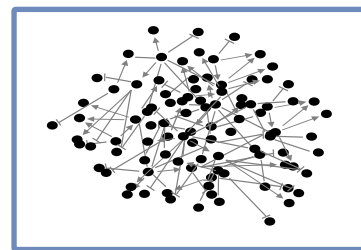


HYP

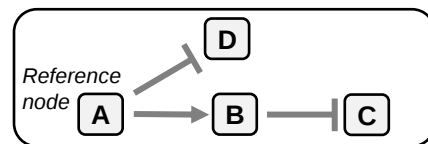


(b)

Selventa Knowledgebase

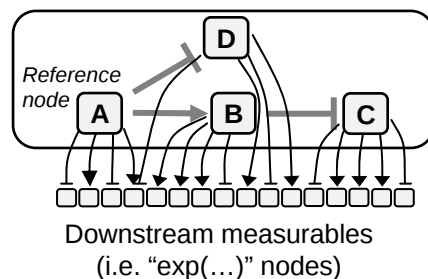


Causal network model

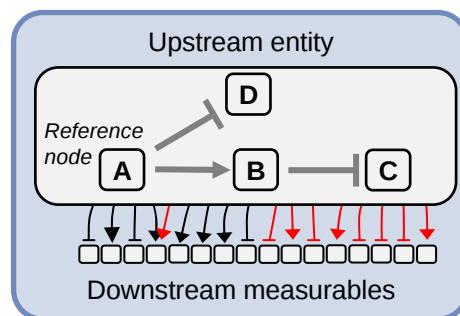


Causal network model

(augmented with downstream measurables)



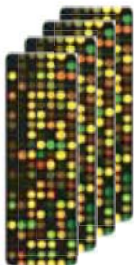
Causal network model HYP



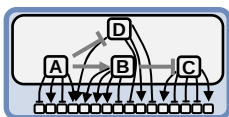
(c)

Data

(treatment versus
control comparisons)



Causal network
model HYP



HYP augmented with
measurements of differential
gene expressions

NPA algorithm

NPA scores

