

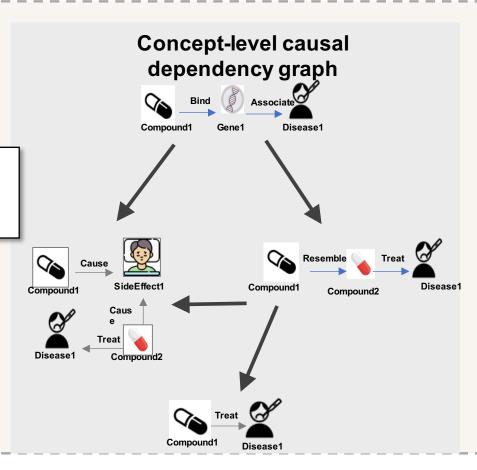
A knowledge graph

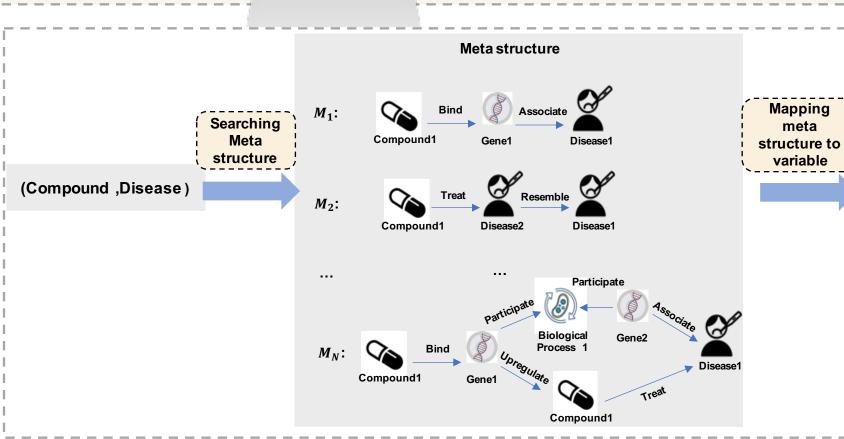
Knowledge graph Tabularnizar

Sample Set

Data object	X_0	X_1	:	X_N
$\left(e_1^h,e_1^t\right)$	1	1		1
$\left(e_2^h,e_2^t\right)$	0	0		1
$\left(e_{M}^{h},e_{M}^{t}\right)$	0	1		1

Causal Knowledge Discovery





Meta structural-based variable

 $X_1 = f_{(compound1, dise ase1).M_1}$ Generating samples

 $X_2 = f_{(compound1, disease1).M2}$

Tabular sample set

 $X_N = f_{(compound1, disease1).M_N}$