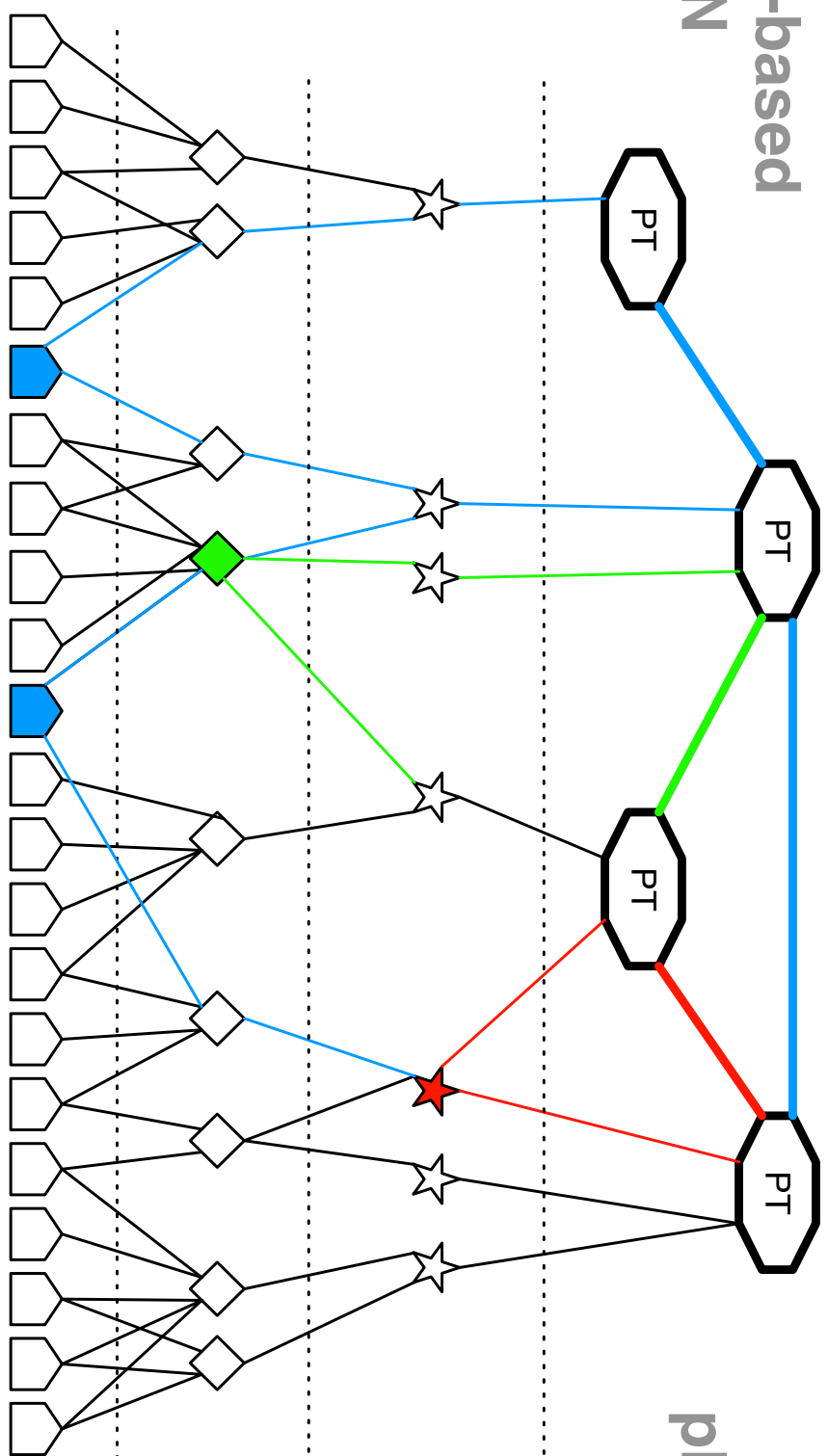


Pathway-based

HPN



phenotypes

SNPs

genes

pathways