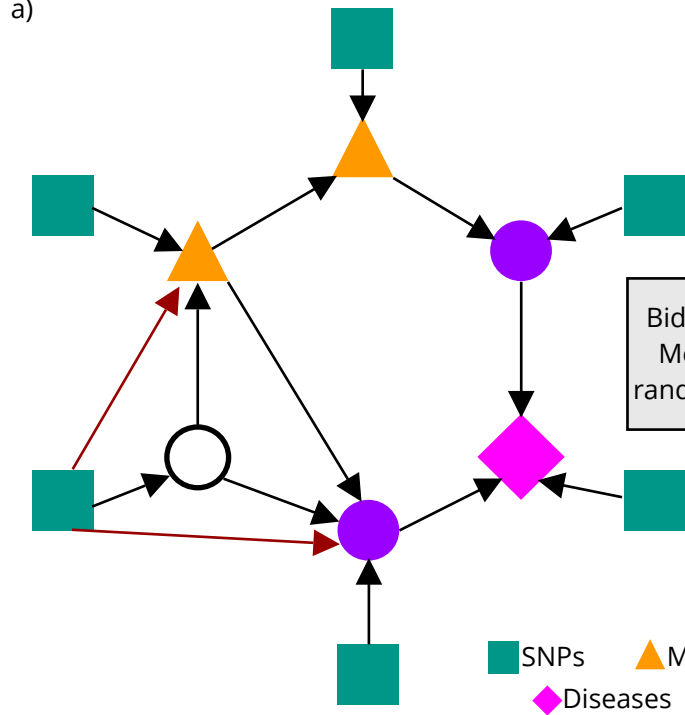
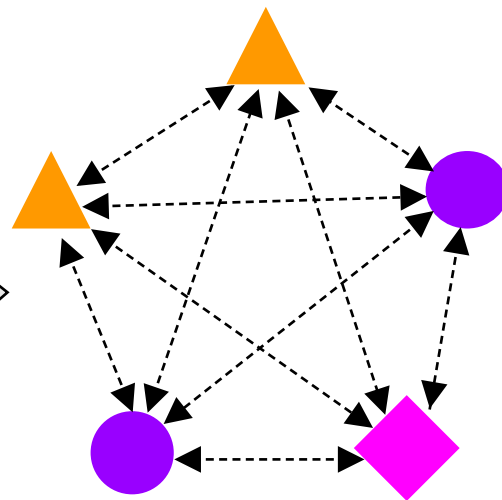


a)



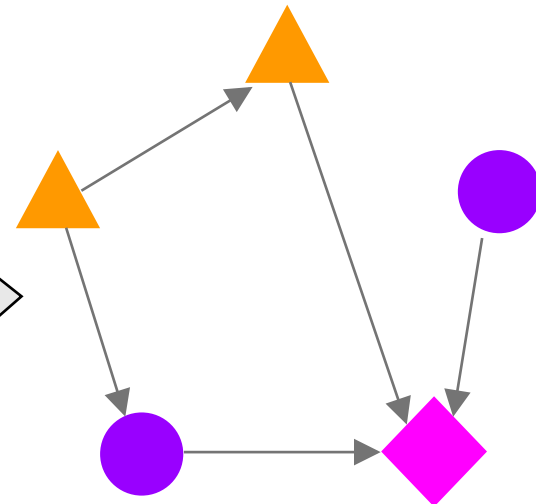
b)

Bidirectional
Mendelian
randomization



c)

Inverse
Sparse
Regression



■ SNPs

▲ Molecular markers

● Complex traits

◆ Diseases

○ Unmeasured factors

→ Direct effects

→ Correlated pleiotropy

↔ BiMR estimates

→ bimmer network