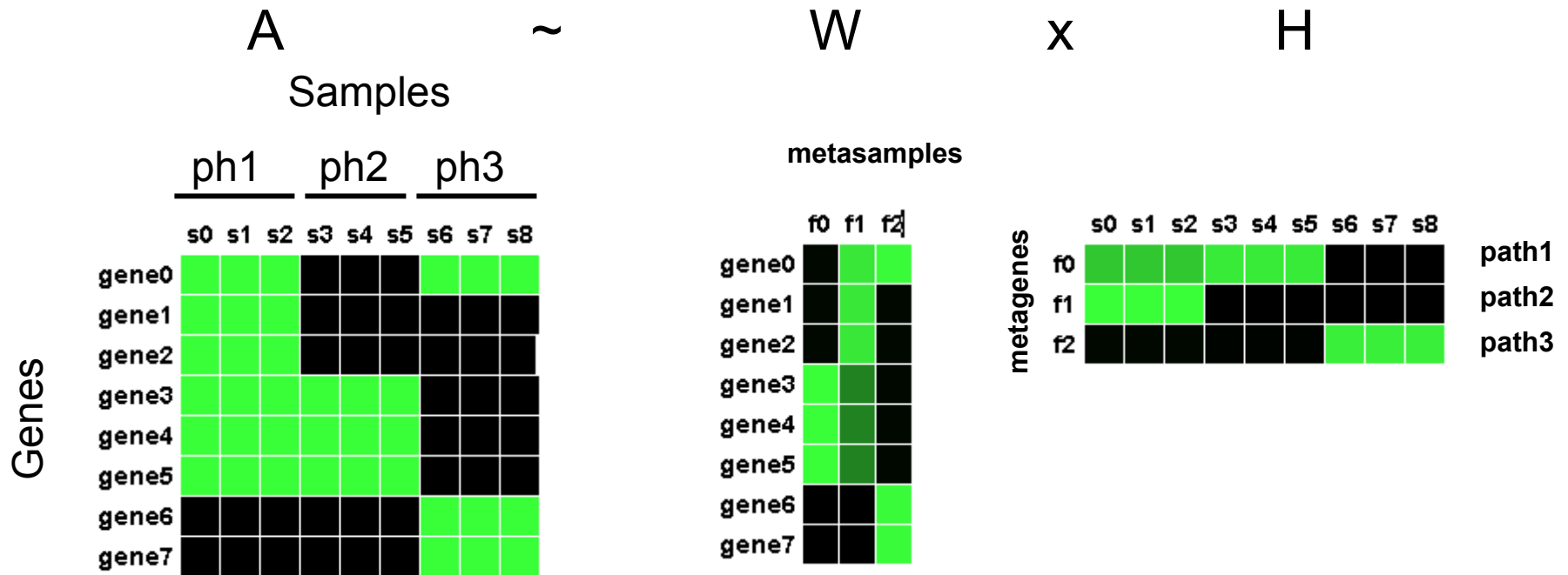


Gene Polysemy or Decoding Cell Circuitry with NMF



Pathway A: gene0, gene1, gene2

Pathway B: gene3, gene4, gene5

Pathway C: gene0, gene6, gene7

Phenotype 1: s0, s1, s2 -> pathways A and B

Phenotype 2: s3, s4, s5 -> pathway B

Phenotype 3: s6, s7, s8 -> pathway C

