



①

bits — 1 3 2 3 3 2 1 3 1 1 3 2

analogous


2



us genes

analogous genes

[illegible]

(unknown) ————— 

te

niz

latent space

③

⑦

## Comparison of homolog gene profiles for context and target genes

Prob. density

## Gene expression

④ Decode sample and its neighbors

⑤ Find optimal neighbor



















log p(♦ | ♦, 1) = -200

log p( |  ) = -220

$$\log p(\text{ } \blacktriangledown \mid \text{ } \blacktriangledown, \text{ } \blacksquare) = -220$$

log p(  | ,  ) = -280

log p( |  ) = -350

  Cell type 1  
   Cell type 2  
   Cell type 3  
   Cell type 4  
 Target cell  
    Context neighbor set determined by the NNS  
      Context and target batch labels