

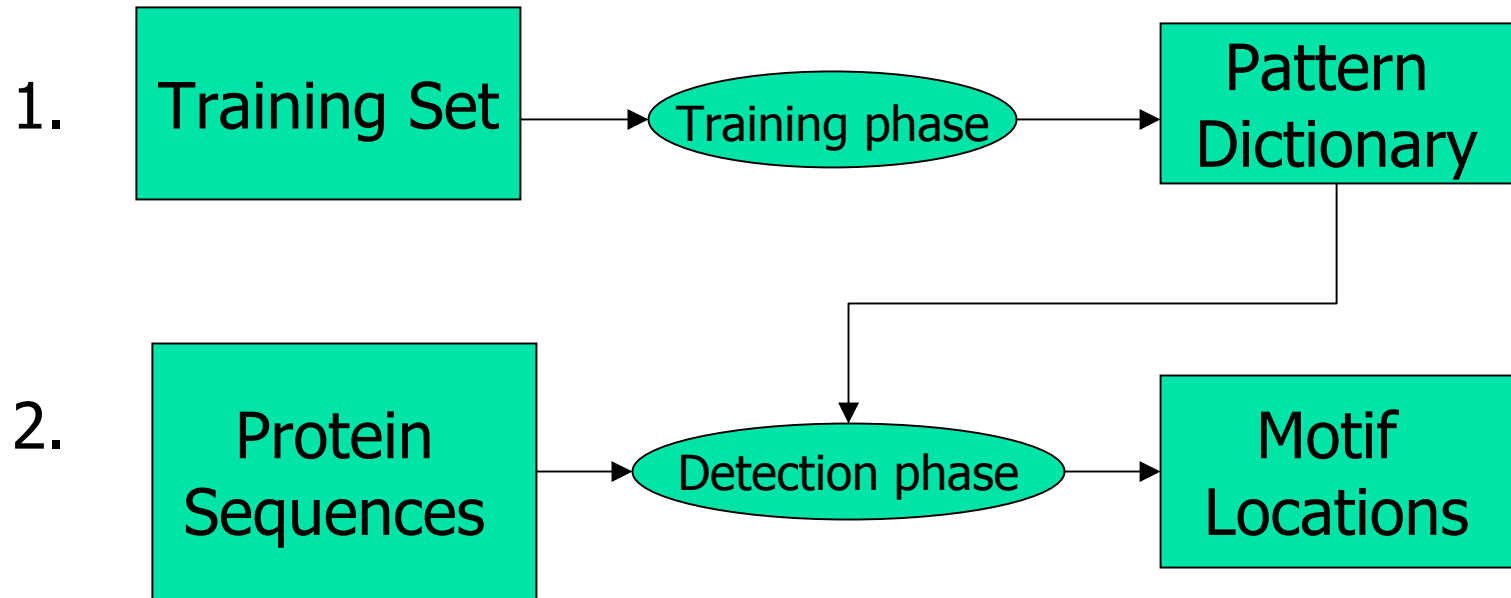
HTH Detection Training Set Selection Based on Phylogenetic Trees



HTH Motif deteccion

- HTH Motifs
- HTH Motif Dection
 - HMM
 - DE (Dodd & Egan)
 - GYM

GYM



Pattern: {C4, P4, S5, L7}

Support: the number of protein sequences in the training set in which the pattern appears.

Maximal Patterns: not contained in any other significant patterns.



Difficulties in Training Set Selection

- Some errors or inaccuracy may exist
- Some sequences might be redundant due works at independent labs or by mutation
- There might be an excessive # of motifs of a specific structure in the set.



Unbiased Training Set

- Goal - Evenly distributed in structure
- Reduction/Avoidance of
 - Pure Spurious Pattern
 - Partial Spurious Patter