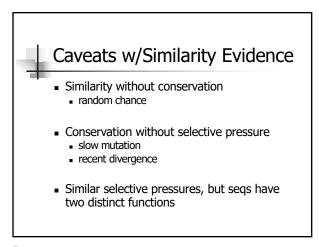
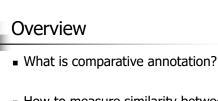


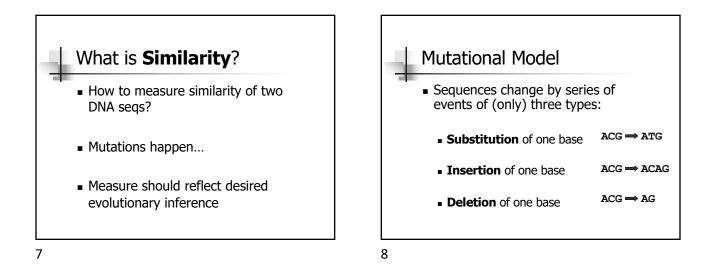
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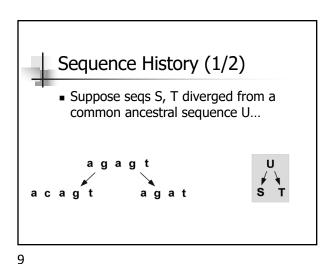


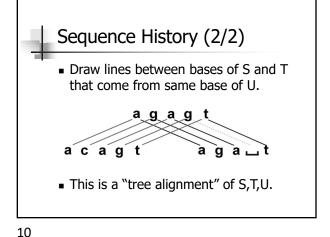


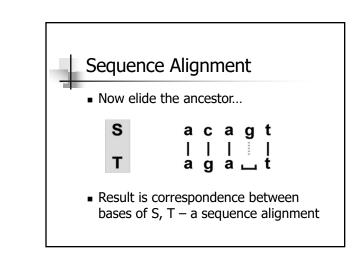
- How to measure similarity between biosequences
- How to decide whether two sequences are "similar enough"

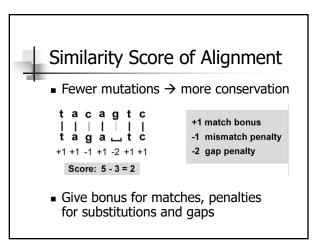
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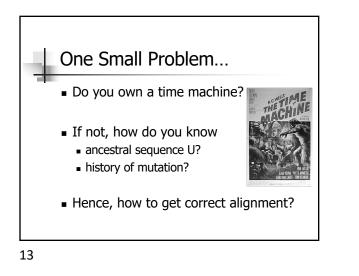


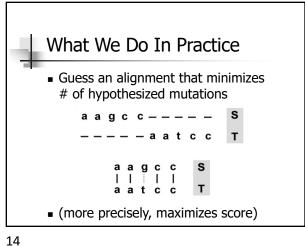


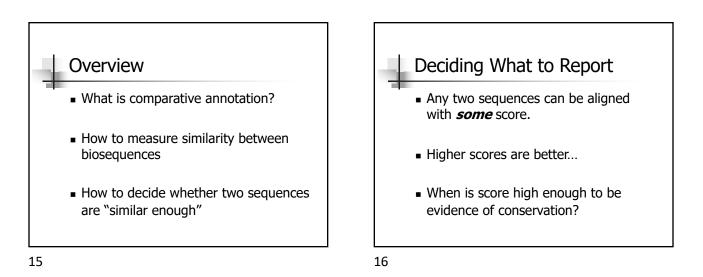


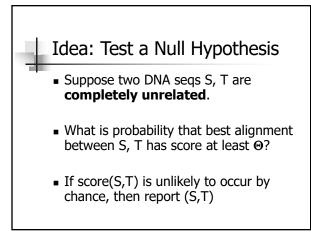


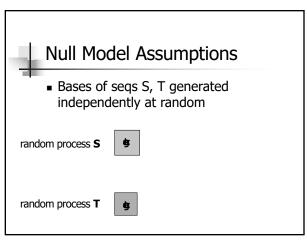


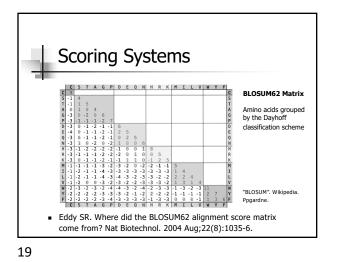


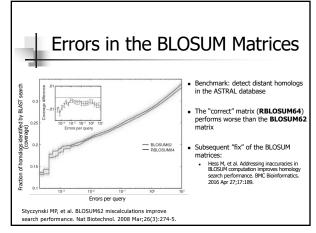


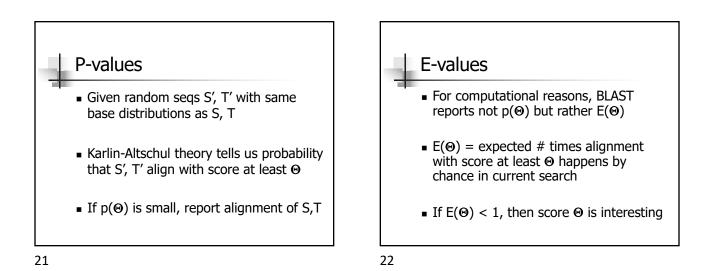


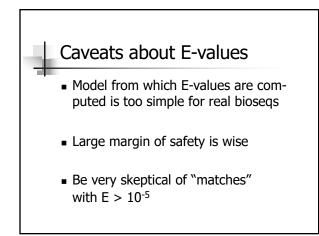


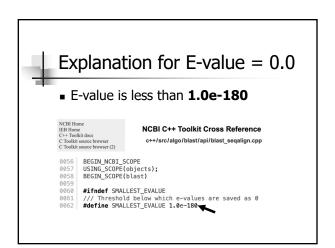












## Summary

- Comparative annotation with BLAST uses similarity as evidence for conserved function.
- Similarity score based on hypothesized evolutionary relations among sequences.
- E-values indicate whether scores are high enough to be real biological conservation.

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- Introduction to Dynamic Programming
  - Overview of the algorithms for calculating global, semiglobal, and local alignments
- From Smith-Waterman to BLAST
  - Discuss the heuristics used by BLAST to reduce the search space and quickly report high-scoring local alignments

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