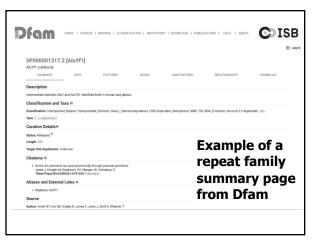
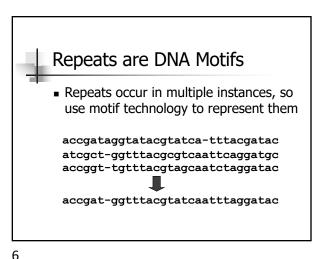


4

- Sources of repetitive sequence data
- How RepeatMasker finds repeats
- Issues and limitations

3

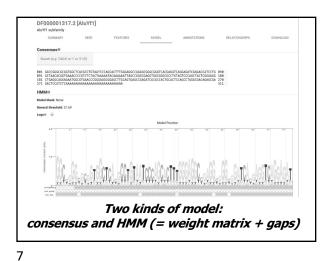


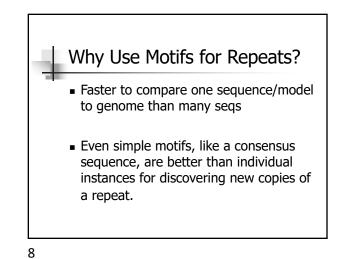


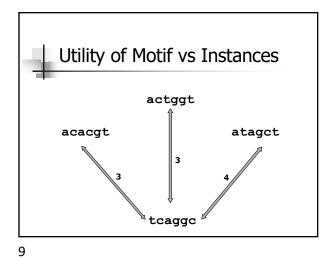
Supplied by Dfam ("DNA families DB")

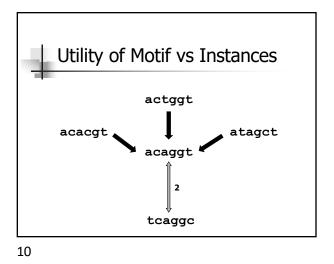
Repeat families in Dfam are carefully

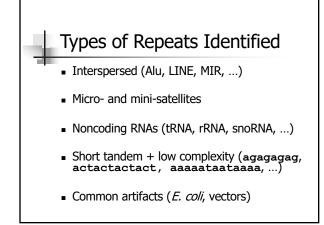
curated using multiple alignment tools.

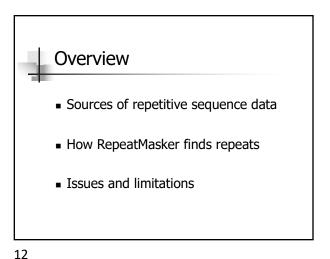








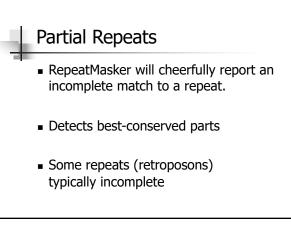




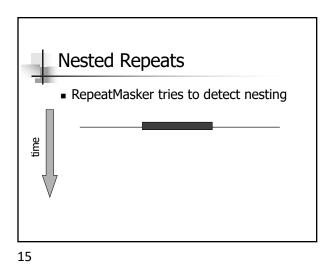
The Basics

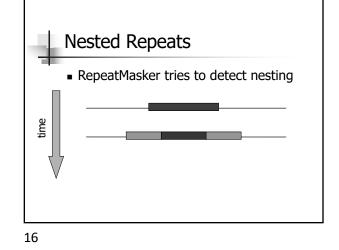
- Uses RMBlast (BLAST-like tool) to compare query to consensus model library
- Uses HMMER (vaguely BLAST-like, but with much fancier math) to compare query to HMM library

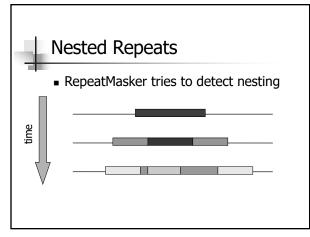


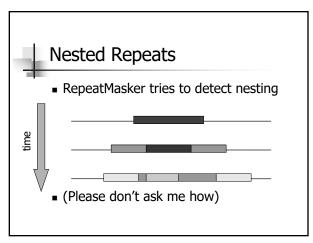


14



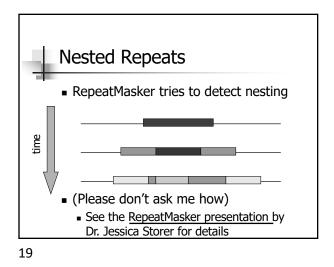


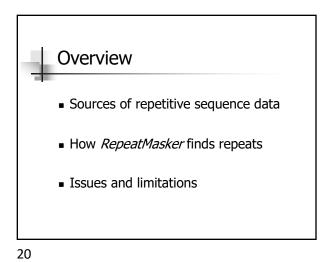






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Library Choice

 Make sure to use correct libraries for your target species
 (Commonly used organisms have preselected library lists)
 Danger: mis-identifications!

Incomplete Masking

 Highly diverged repeats can be tough to find
 Might leave ends of a repeat unmasked
 Imasked)
 Im

