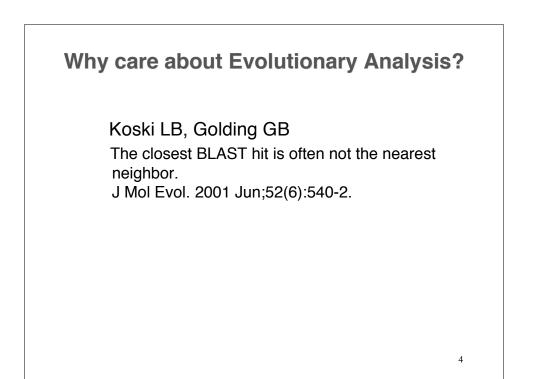
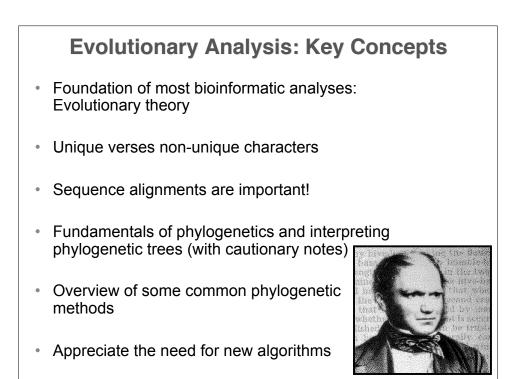
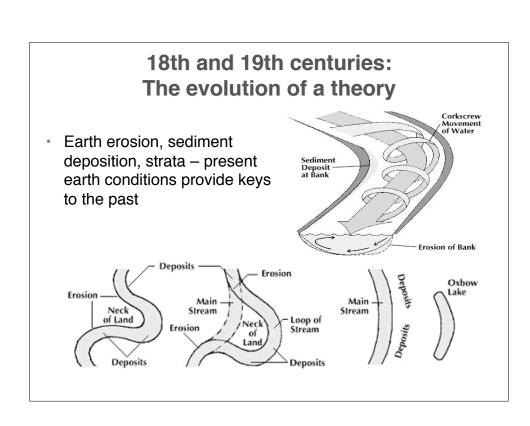
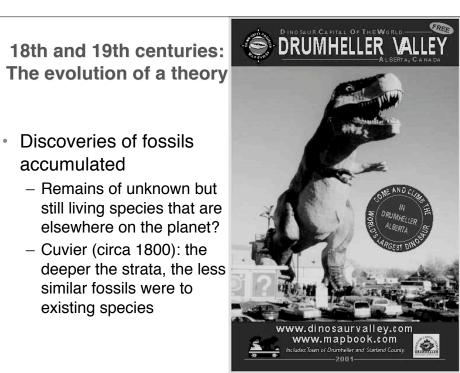


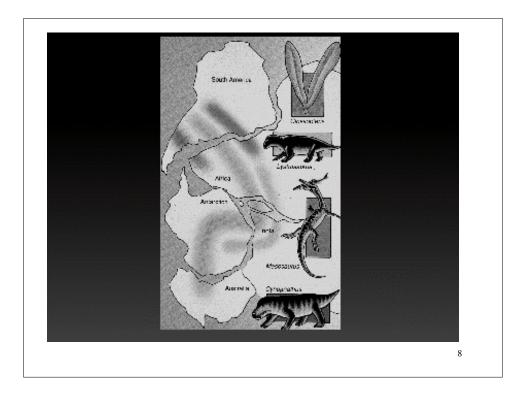
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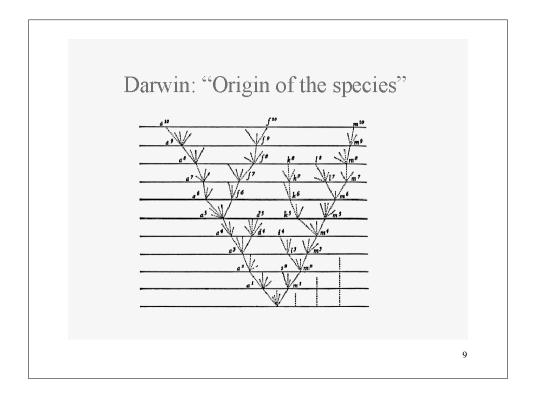


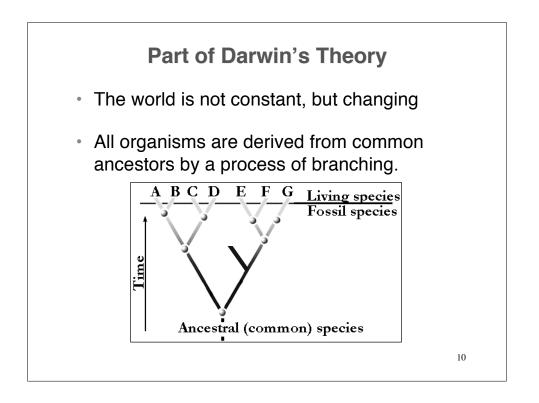


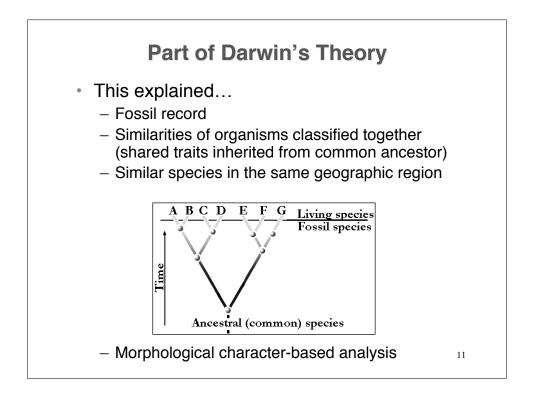


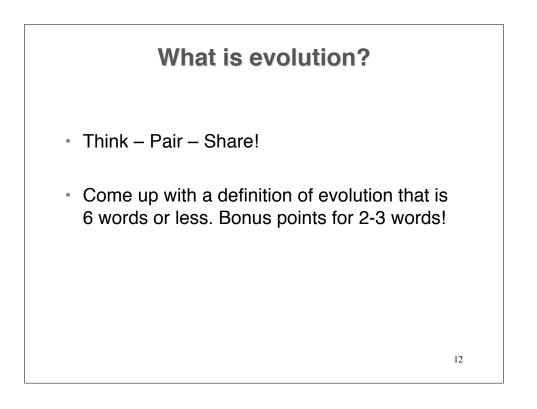


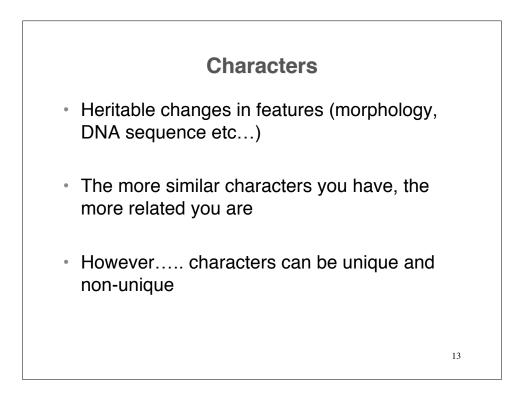


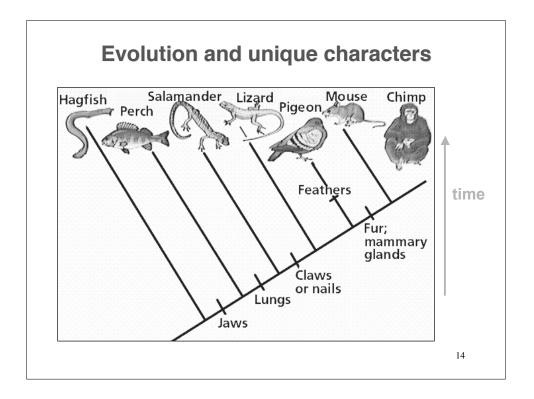


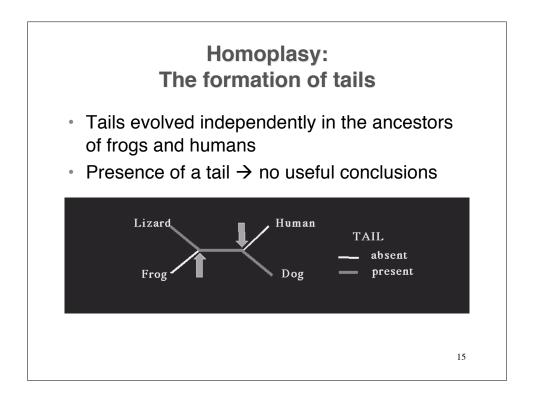


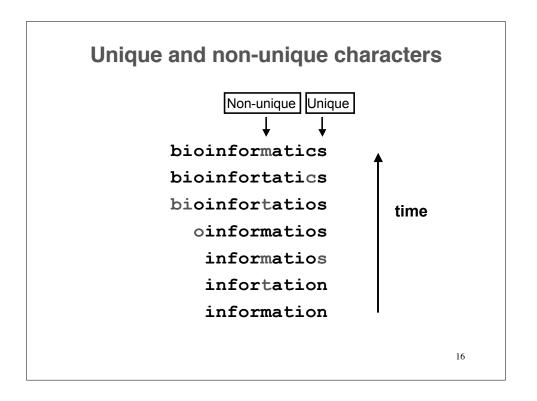


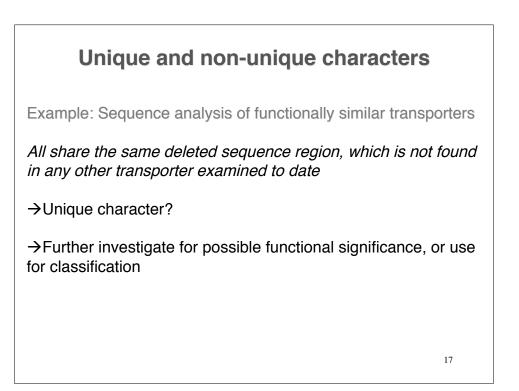


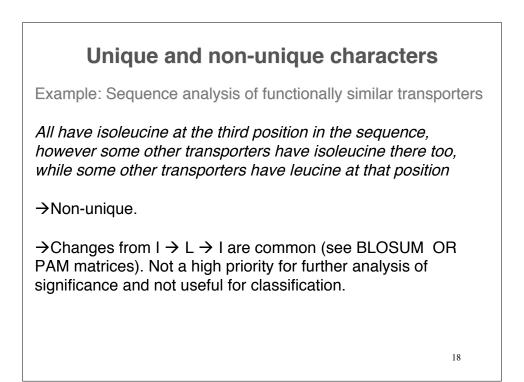


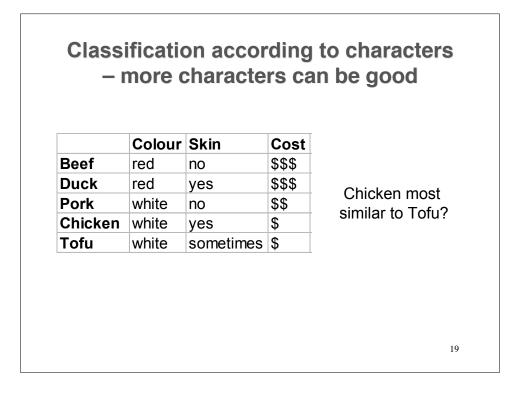


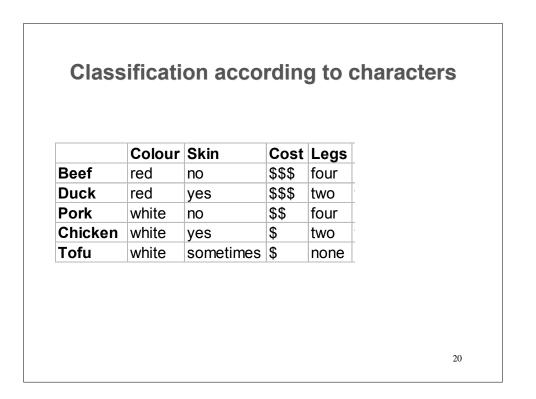




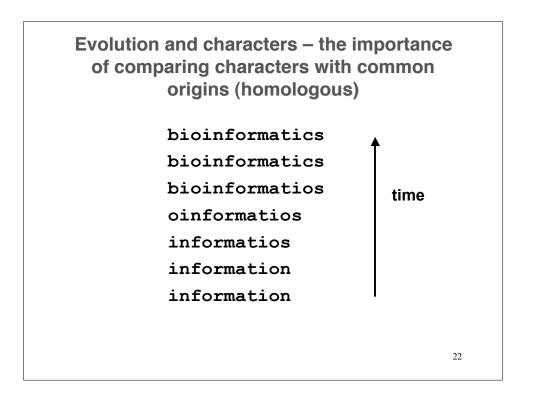


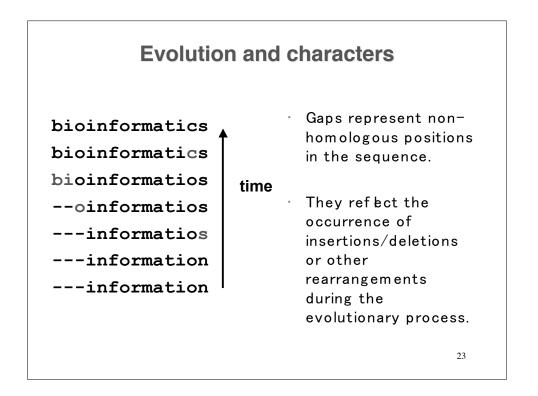


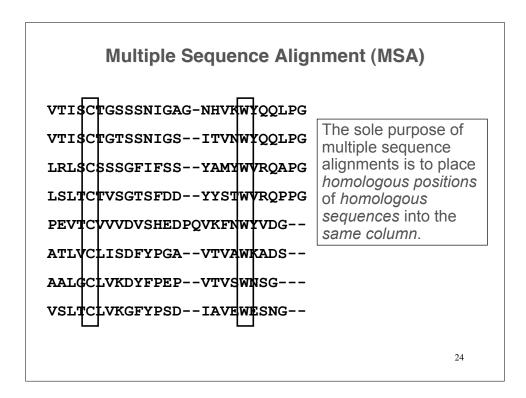


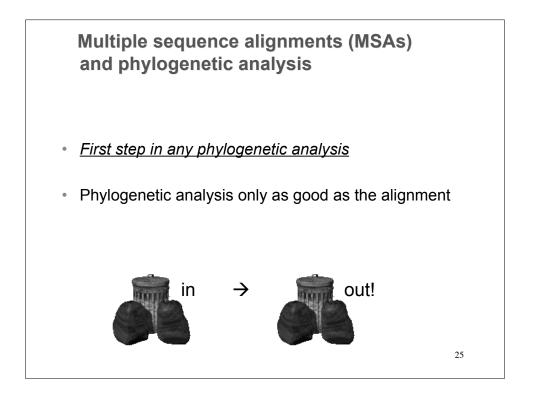


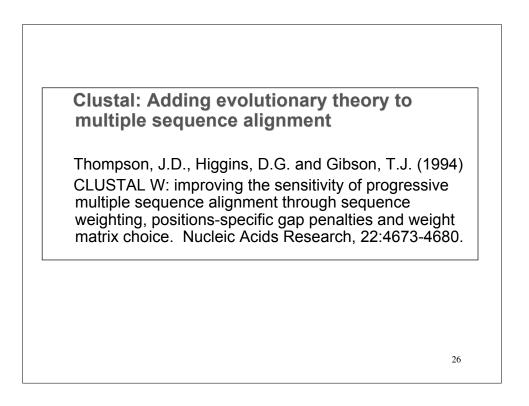
	Colour	Skin	Cost	Legs	Feathers	Hair
Beef	red	no	\$\$\$	four	no	yes
Duck	red	yes	\$\$\$	two	yes	no
Pork	white	no	\$\$	four	no	yes
Chicken	white	yes	\$	two	yes	no
Tofu	white	sometimes	\$	none	no	no







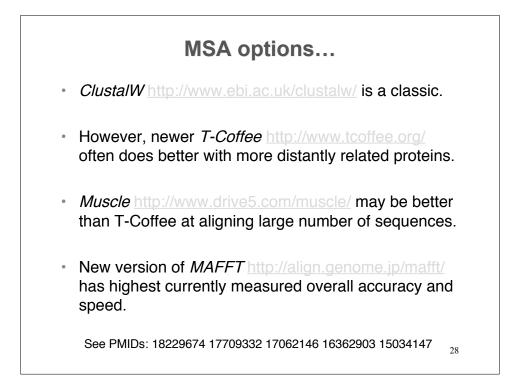






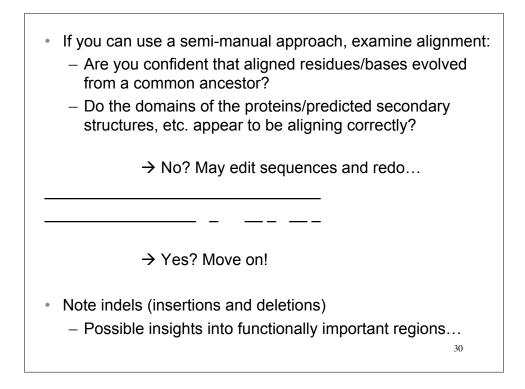
- Matrices varied at different alignment stages according to the divergence of the sequences
- Gap penalties differ for hydrophilic regions to encourage new gaps in potential loop regions
- Gapped positions in early alignments reduced gap penalties to encourage the opening up of new gaps at these positions

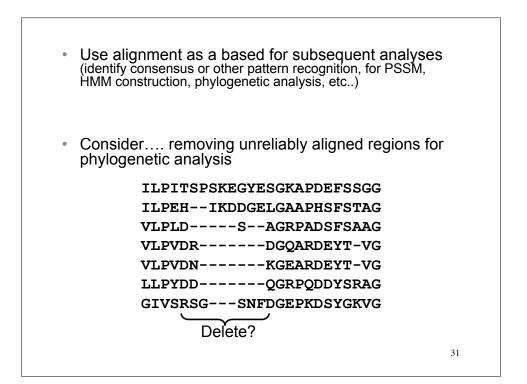
27

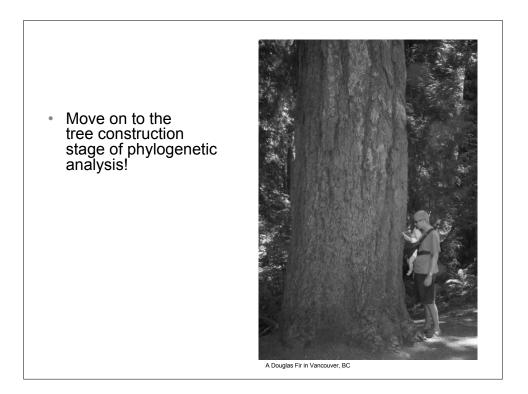


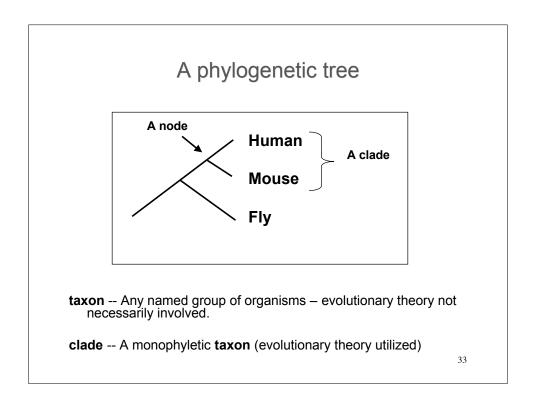
Standard MSA approach (first step for phylogenetic analysis)

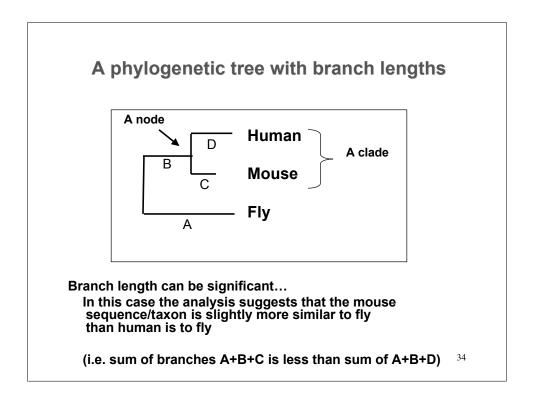
- Be as sure as possible that the seq's included are homologous and avoid seq's with really different lengths
- Know as much as possible about the gene/protein in question before trying to create an alignment (secondary structure, domain structure...)
- Start with an automated alignment.
- If performing a fully automated procedure, consider using multiple accurate methods and compare where alignment differences occur. PMID: 17709332)

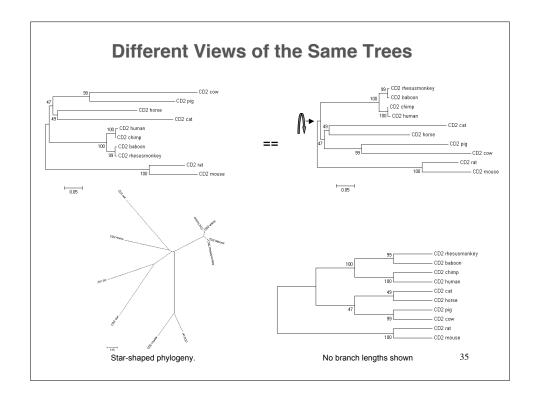


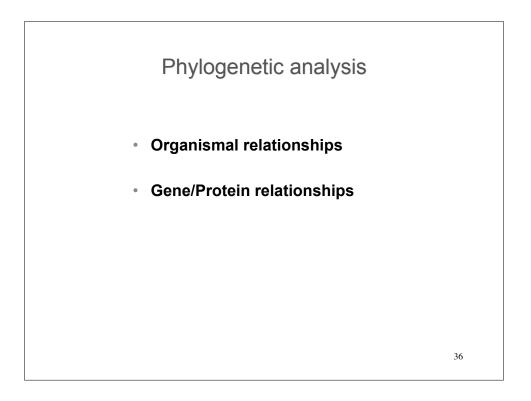


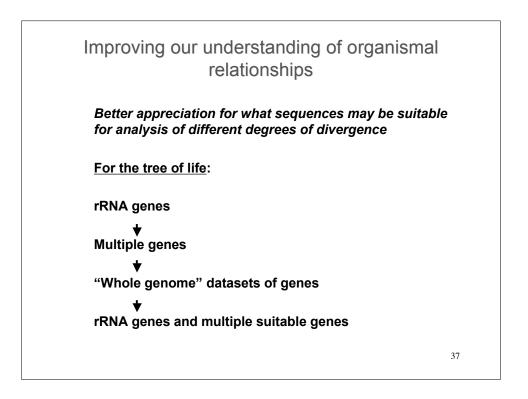


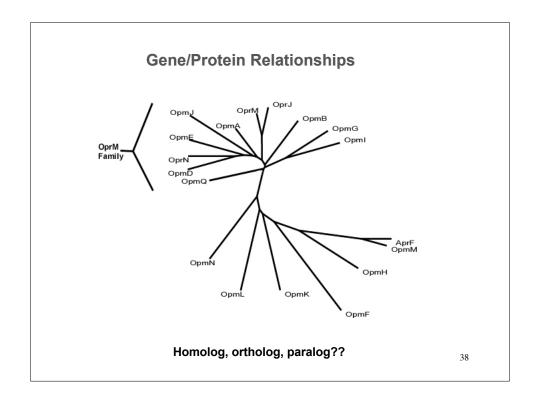


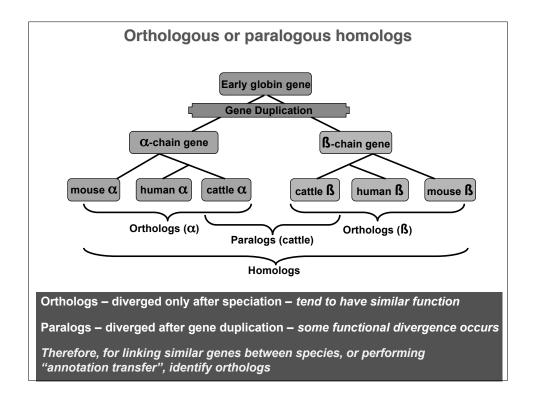


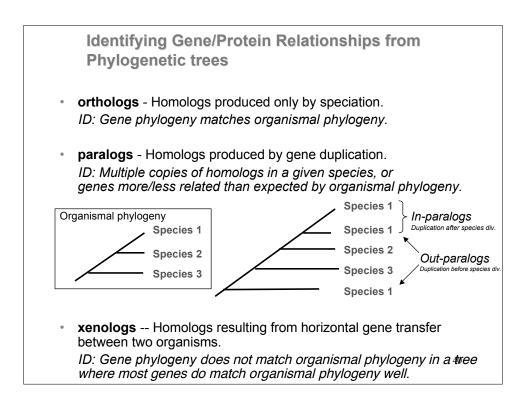


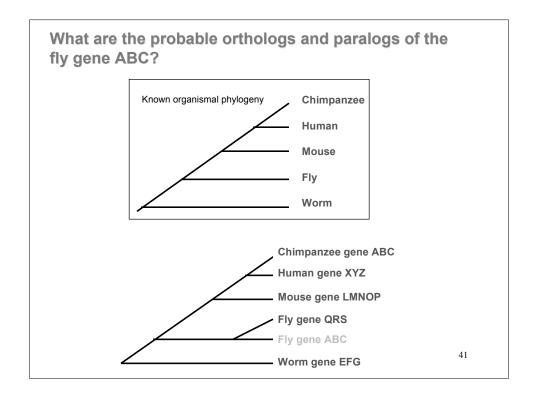


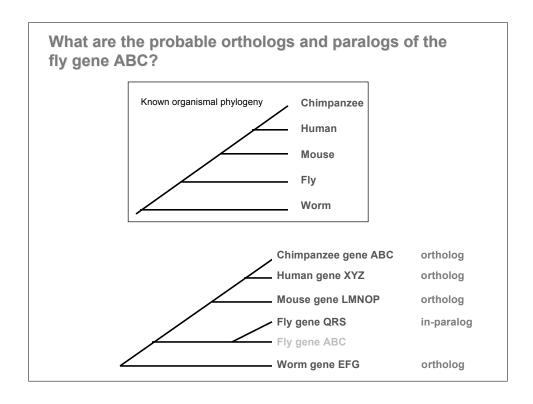


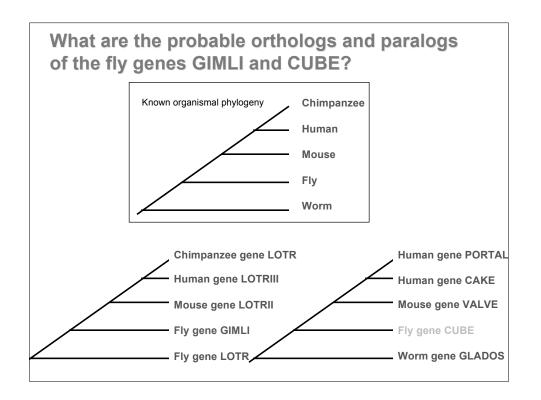


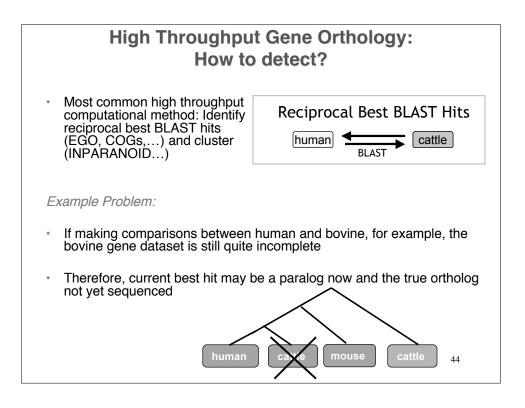


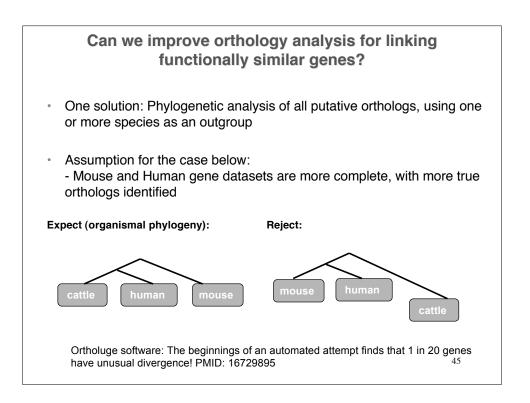


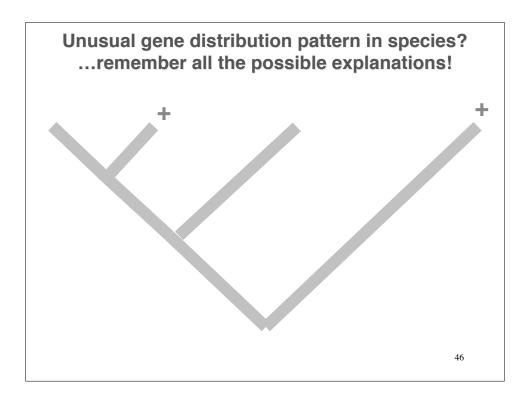


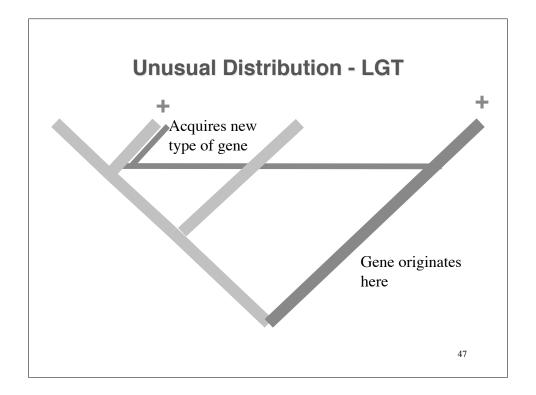


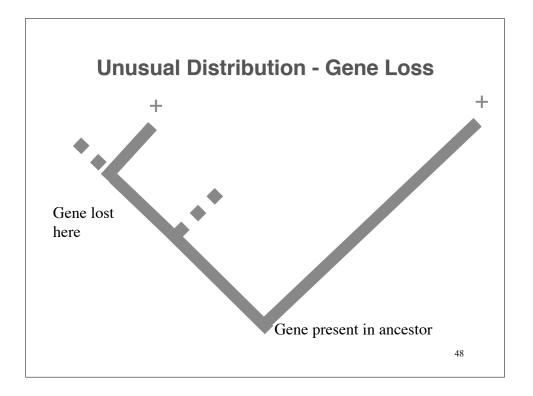


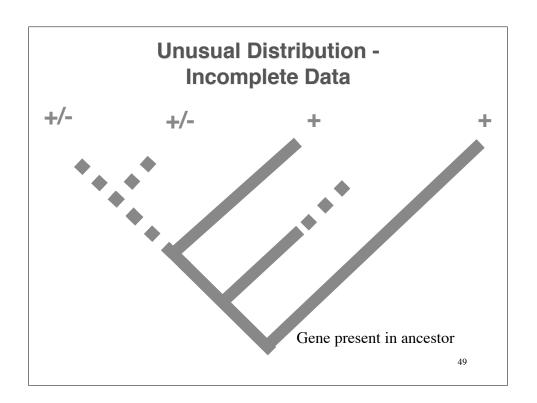


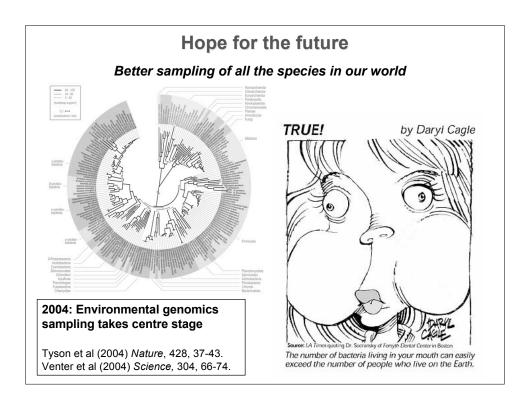


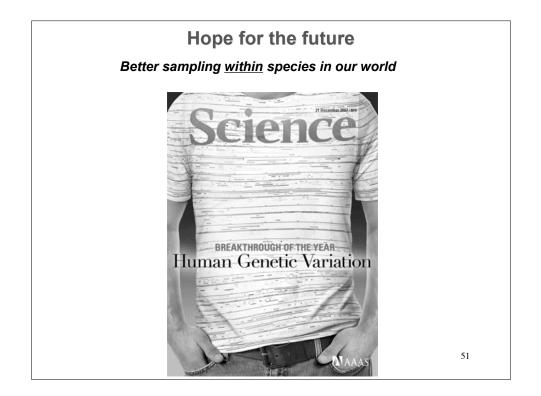


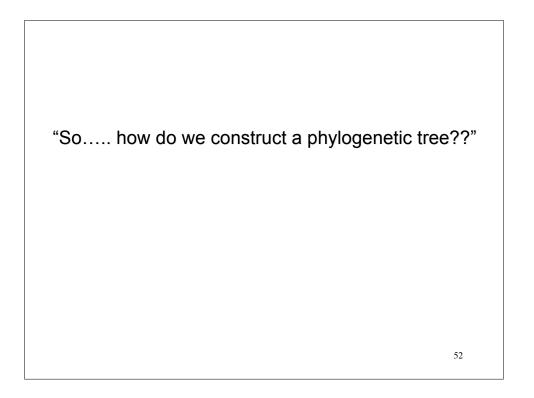












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Most common methods

- Parsimony
- Neighbor-joining
- Maximum Likelihood

