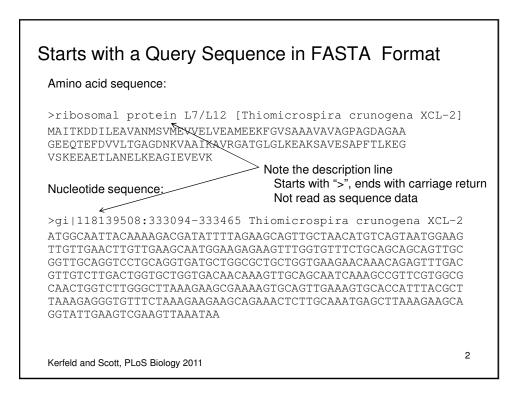
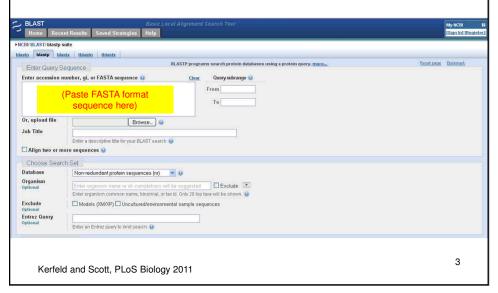
BLAST

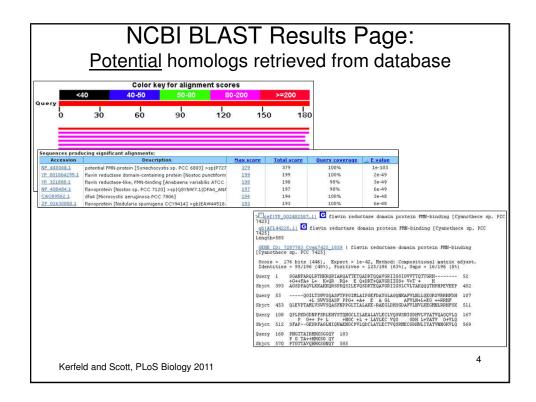
Slides adapted & edited from a set by Cheryl A. Kerfeld (UC Berkeley/JGI) & Kathleen M. Scott (U South Florida)

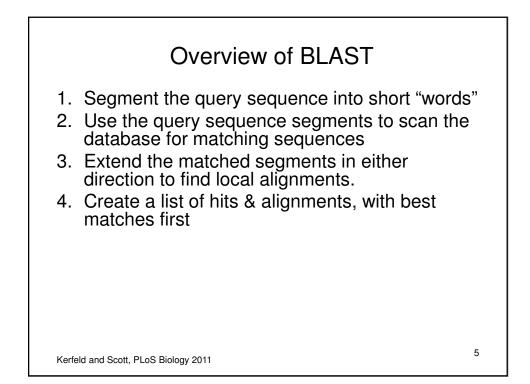
Kerfeld CA, Scott KM (2011) Using BLAST to Teach "E-value-tionary" Concepts. PLoS Biology 9(2):e1001014

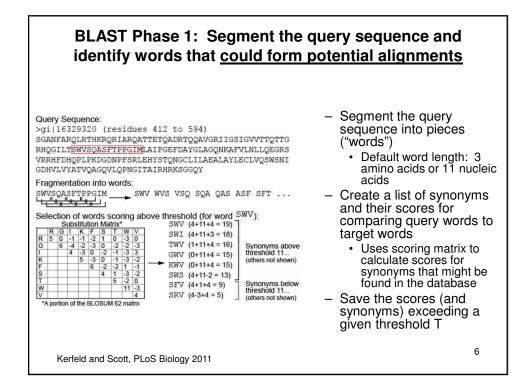


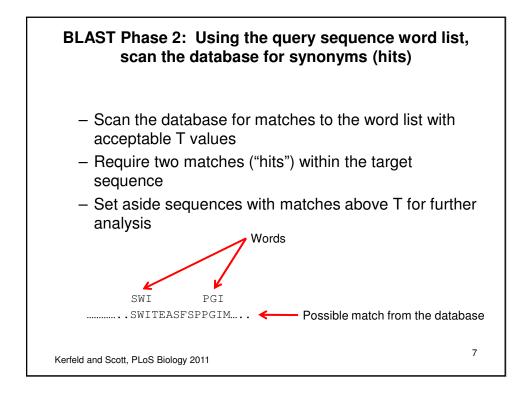
NCBI BLAST Interface (blastp: for protein-protein alignments)

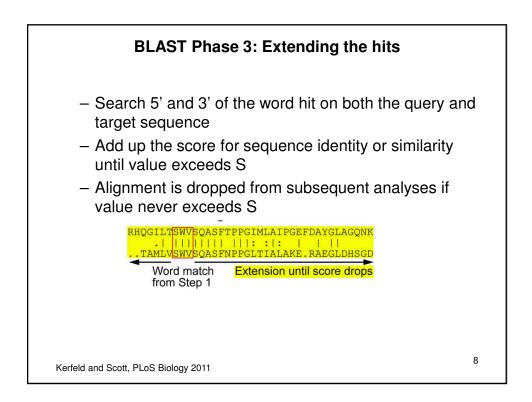


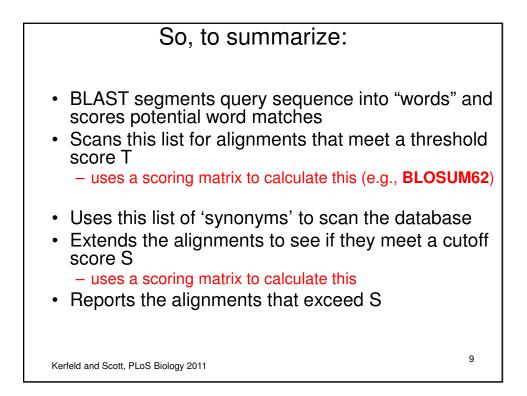


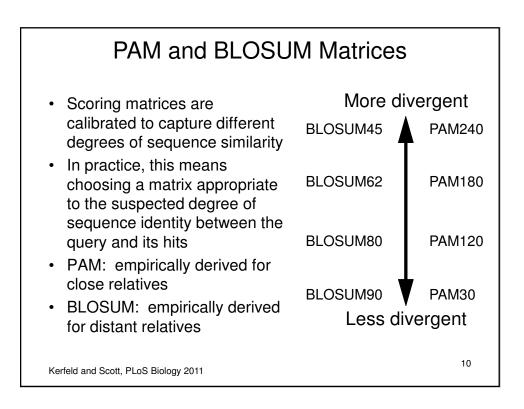


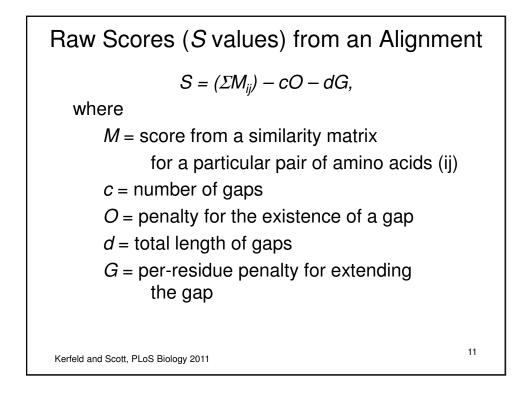


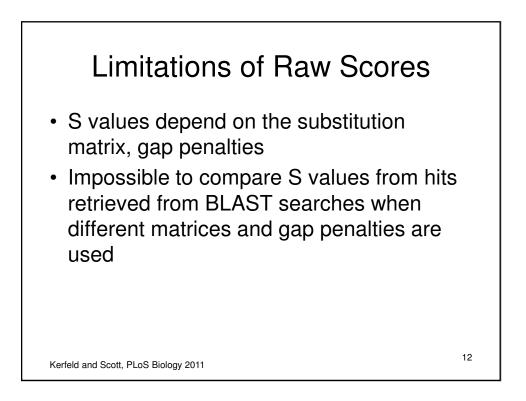


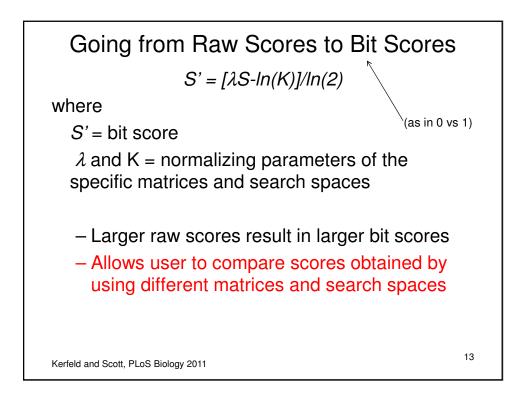


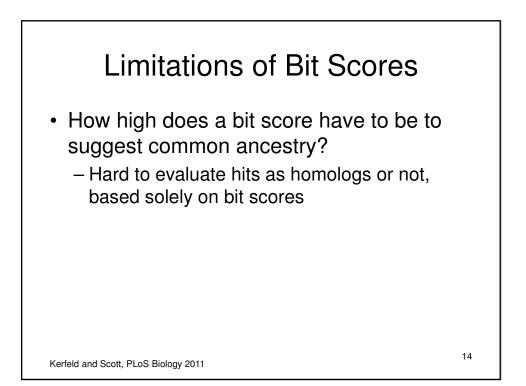


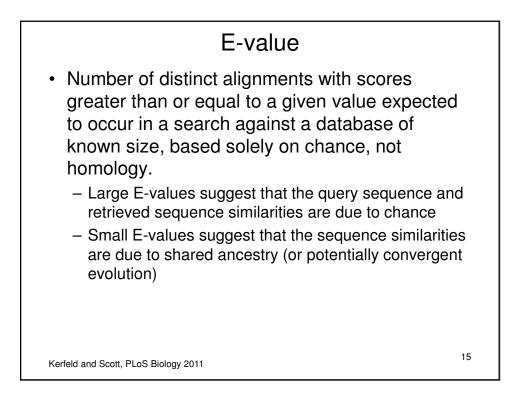


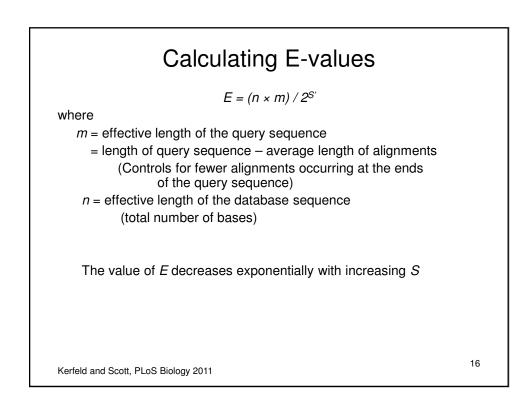


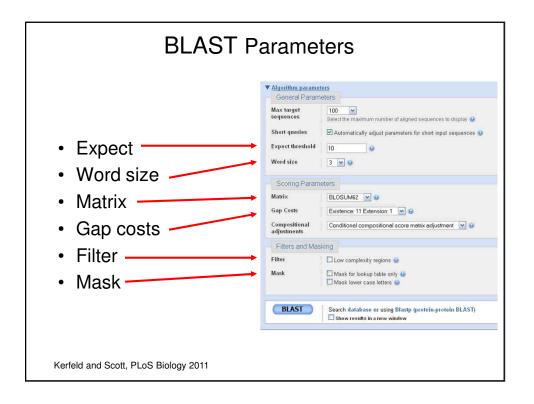


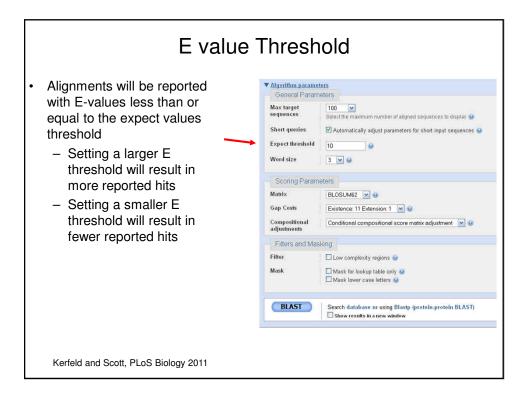


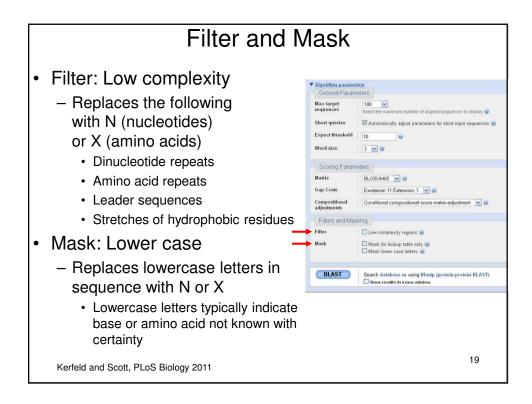












Parameter Summ	nary is	Four	nd at	the Bottom	
of t	he Out				
	Search Parameters				
	Program	Program Word size		blastp	
	10 art 4 a table		3		
	Expect value		10		
	Hitlist size Gapcosts		100 11,1		
	Matrix		BLOSUM62		
	Filter string Genetic Code Window Size Threshold Composition-based stats		1 40 11		
	Composition-based stats		2		
	Database				
	Posted date Number of letters Number of sequences Entrez query		Sep 6, 2010 4:42 AM 4,014,994,744 11,756,863 none		
	Karlin-Altschul s		chul statistic		
	Lambda 0.319424 K 0.13352 H 0.397413			0.267	
				0.041	
				0.14	
	Results Statistics				
	Length adjustment Effective length of query Effective length of database		129		
			54		
			2498359417		
	Effective search space		134911408518		
Kerfeld and Scott, PLoS Biology 2011	Effective search space used		134911408518		

