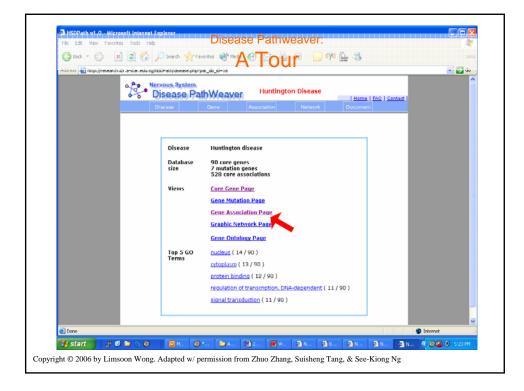
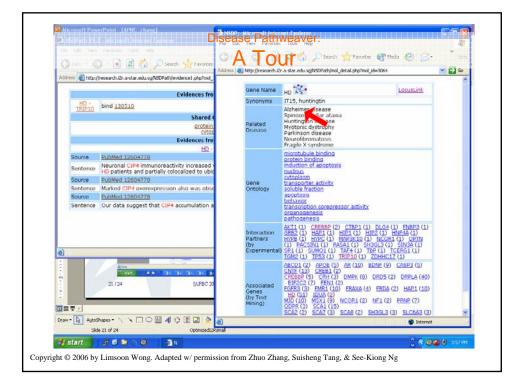
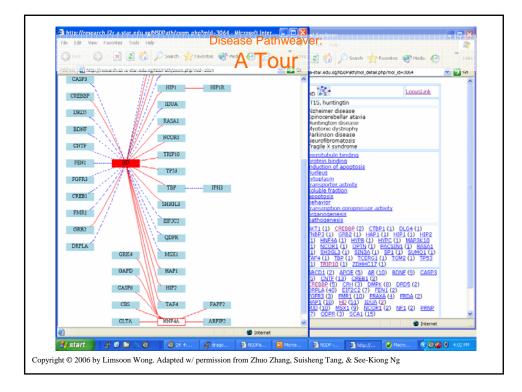
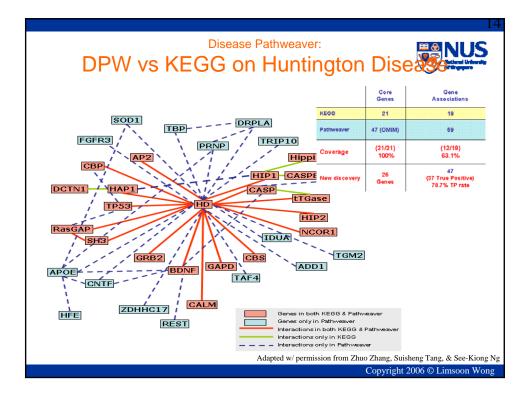


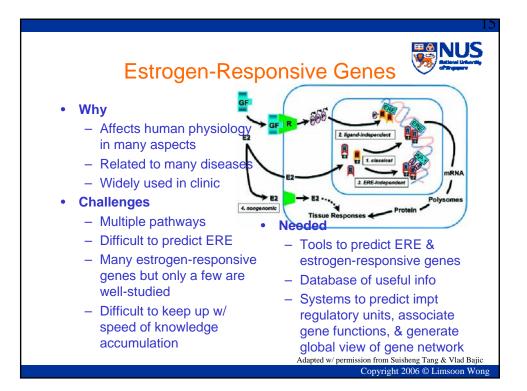
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2	Nervous Sy Diseas		Weav	er				Hem	• 1 FAQ 1 C	ontact		
Ţ	Select here Current ht lease select a dis	y 37 diseas iean com	es in NSD the list:	Path.								
	no.	Disease	name									
	1	Adrenol	aukodystro	ophy					1			
	2	Alzheim	er disease						1			
	3	Amyotro	phic latera	al scierosis					1			
	4	Angelma	in syndron	ne					1			
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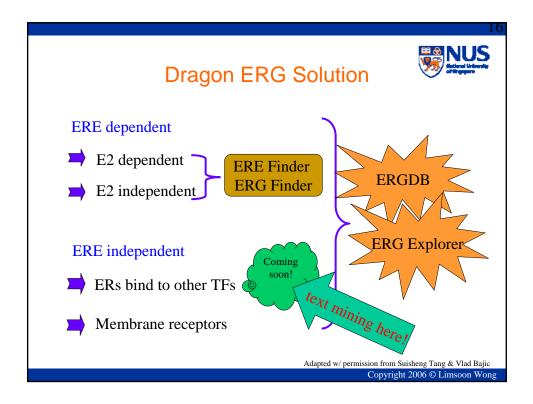


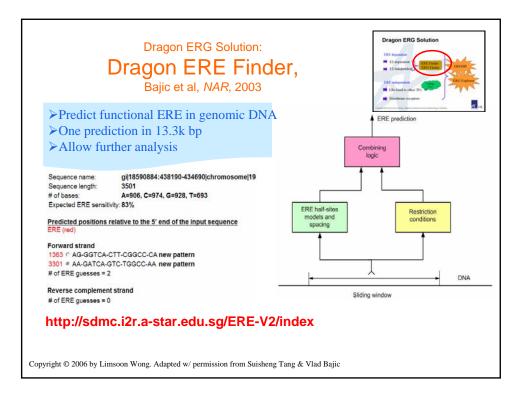


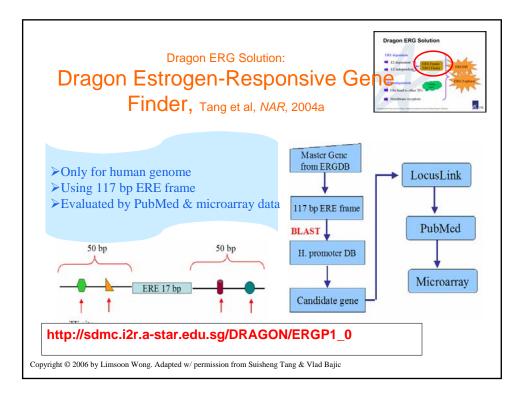


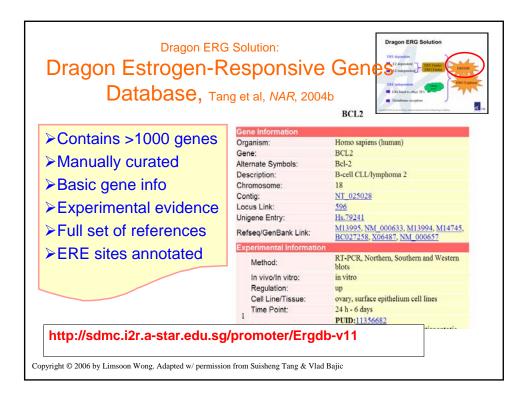


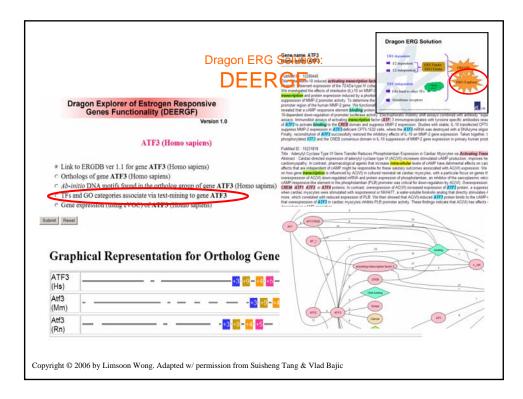


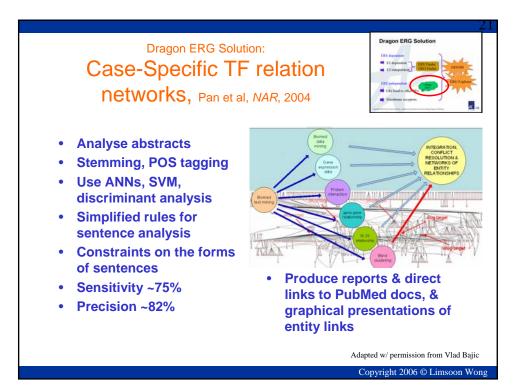


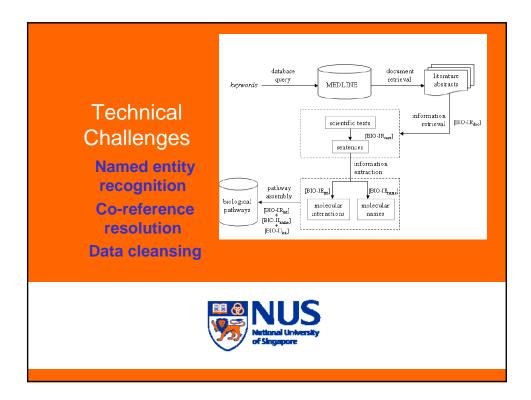


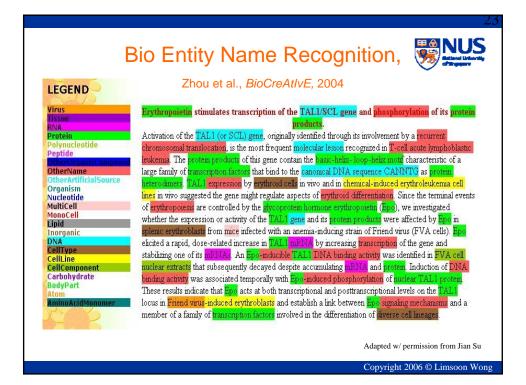


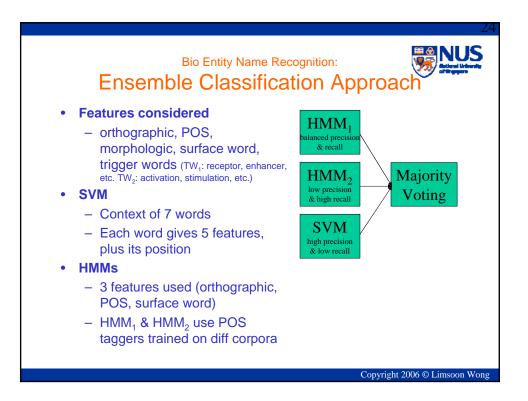






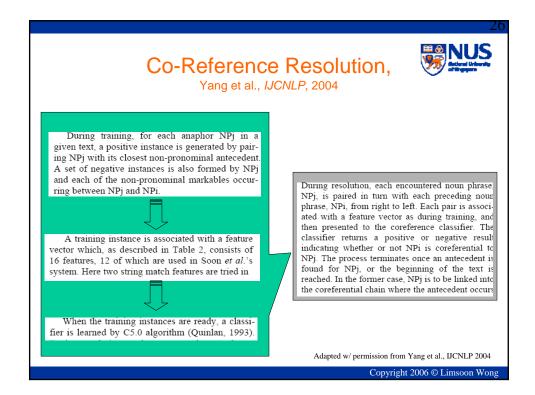






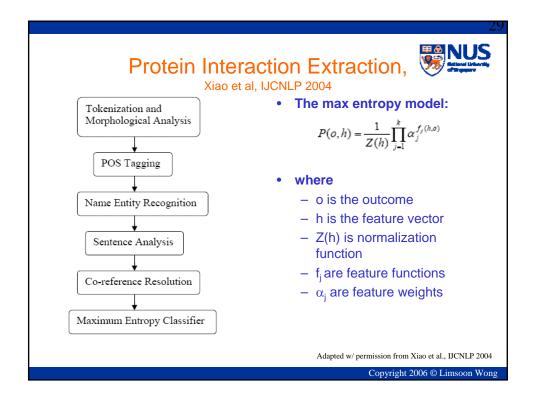
		ity Name Recog	·							
Perfo	rmance	at BioCr	eAtlvE 2	:004						
Modules	Closed-1	Closed-2	Closed-3	Open-1						
SVM	Surface word,	orthographic featur	e, suffix, trigger							
	GENIA-POS	Refined-	Refined-	Refined-						
		BioCreative-	BioCreative-	BioCreative-POS						
		POS	POS							
HMM1	Surface word, orthographic feature,									
	GENIA-POS	Refined-	Refined-	Refined-						
		BioCreative-	BioCreative-	BioCreative-POS						
		POS	POS							
HMM2	Surface word,	Surface word, orthographic feature, BioCreative-POS								
Ensemble	Majority Voting									
Abbreviation Res.	Abbreviation Resolution based on the parentheses structure									
Refinement of	N/A	N/A	YES	N/A						
protein/gene names										
Dictionary Matching	Closed	Closed	Closed	Open						
	Dictionary	Dictionary	Dictionary	Dictionary						
Overall Performance	P79.97	P80.46	P82.00	P75.10						
	R80.15	R80.80	R83.17	R81.26						
	F80.23	F80.63(+0.40)	F82.58(+2.35)	F78.06(-4.52)						

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		Co-Reference Resolution:
	E	Baseline Features Used
Feat	ures describing the	antecedent candidate (NPi):
1.	ante_DefNp	1 if NPi is a definite NP; else 0
2.	ante_DemoNP	1 if NPj start with a demonstrative; else 0
3.	ante_IndefNP	1 if NPi is an indefinite NP; else 0
4.	ante_Pron	1 if NPi is a pronoun; else 0
5.	ante_ProperNP	1 if NPi is a proper NP; else 0
Feat	ures describing the	anaphor candidate (NPj):
6.	ana_DefNP	1 if NPj is a definite NP; else 0
7.	ana_DemoNP	1 if NPj start with a demonstrative; else 0
8.	ana_IndefNP	1 if NPj is an indefinite NP; else 0
9.	ana_Pron	1 if NPj is a pronoun; else 0
10.	ana_ProperNP	1 if NPj is a proper NP; else 0
Feat		antecedent candidate (NPi) and the possible anaphor (NPj):
11.	GenderAgree	1 if NPi and NPj agree in gender; else 0 if disagree; -1 if unknown
12.	NumAgree	1 if NPi and NPj agree in number; 0 if disagree; -1 if unknown
13.	Appositive	1 if NPi and NPj are in an appositive structure; else 0
14.	Alias	1 if NPi and NPj are in an alias of the other; else 0
15	SemanticAgree	1 if NPi and NPj agree in semantic class; 0 if disagree; -1 if unknow
		1 if NPi and NPj contain the same head string; else 0
16.	HeadStrMatch	1 if NPi and NPj contain the same string after discarding determiners;
16'	FullStrMatch	else 0

New Feat	Co-Reference		ormance
	VPi is modified by a r	elative clause; else 0 ite np which acts as a 1	ion-anaphor; else 0
	VPj modified by a rela	ntive clause; else 0 ite np which refers to r	no antecedent; else 0
Features describing the antecede 21- ante_ana_(EntireNP, Numb 29. AdjJ, AdjR, AdjS, Proper) 30- ana_ante_(EntireNP, Numb 38 AdjJ, AdjR, AdjS, Proper) Table 4: New string matching feat	er, Verb, Prep, NP, CommonNP) er, Verb, Prep, NP, CommonNP)	Matching degree of monNP) and NPj.(F Matching degree of monNP) and NPi.(F	hor (NPj): NPi.(EntireNP,, Com- EntireNP,, CommonNP) NPj.(EntireNP,, Com- EntireNP,, CommonNP)
Table 1. Then shang matching real	Recall	Precision	F-measure
HeadStrMatch FullStrMatch NewFeature* NonAnaphor+NewFeature*	71.4 51.0 70.5 68.1	53.1 68.5 63.8 69. 7	60.9 Base 58.4 Classifier: 66.9 C5.0
Table 5: Experimental results on the tion met	Medline data set usi tric with <i>Binary</i> weigh	nting scheme)	ms use <i>ContainRa</i> -
		· · · · · · · · · ·	Copyright 2006 © Limsoon Wo

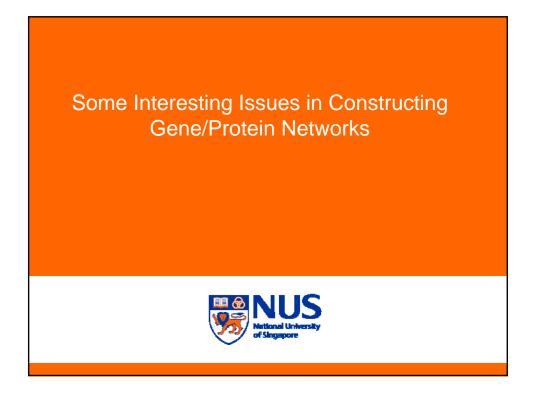


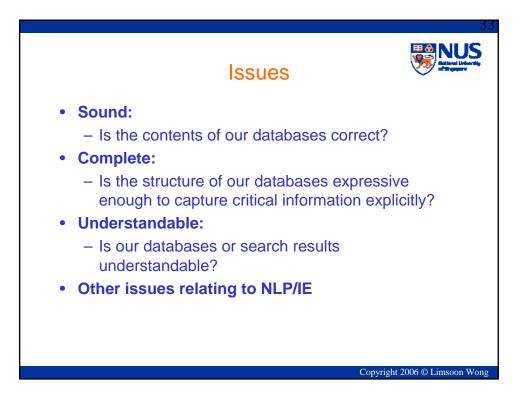
	Protein Interaction Extraction:
Feature names	Feature values
First protein name	p1_bovine, p1_prion, p1_protein VP
Second protein name	p2_protein, p2_kinase VP SBAR S
Words between two protein names	b_strongly, b_interact, b_with, b_the, .
Left words	1_here, 1_that, 1_recombine
Right words	Г NPB
Overlap	ProteinNameInBetween=0 RF VBF RB IN JJ NNP ADVP VBS IN DT JJ NN NN8 IN
Keyword	Keyword=interacts_between We show here that recombinant boving prion proving strongly interacts with the catalytic alpha/alpha/ subunits of prion proving strongly interacts with the catalytic alpha/
Chunk heads in between	chunk_head_strongly, chunk_head_interacts, chunk_head_with, chunk_head_alpha/alpha', chunk_head_subunit, chunk_head_of
Surrounding chunk	leftChunkHead=here_that,
heads	rightChunkHead=interacts
Chunk types in between	ChunkType=ADVP_VP_PP_NP_NP_PP
Parser tree path	PaserPath=NPB_S_VP_PP_NP_PP
Dependent	Dependent=false
Dependent root	DependentRoot=interacts, DependentRootPos=VBZ
Pair of two protein heads	PairOfProteinHead=prion_kinase
	Abbreviation Pair=horn protein kinase Adapted w/ permission from Xiao et

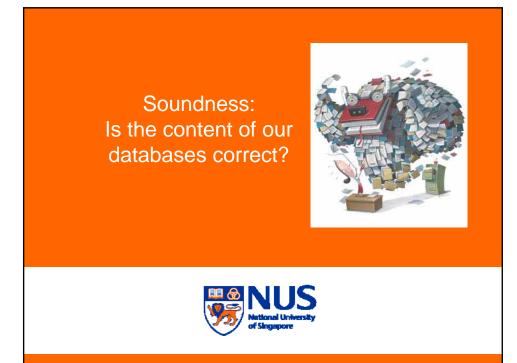
Perfo				on Ex IE			orpu	IS	75	Herei Urliert Signare
TT 1 .	*	\$	*	à	*	â	\$	*	ŝ	*
Words in two names	*	*	*	*	*	*	*	*	a z	* *
Words between two names	÷	*	*	*	*	*	е. 4	*	*	*
Surrounding words Overlap			ф.				-		-	-
Keyword feature				÷	奉	*	*	*	\$	串
Chunk features					4	4	4	4	4	4
Parse tree						*	\$	串	\$	
Dependent tree							*	串	\$	
Pair of proteins								*	4	幸
Abbreviation pair									\$	*
Recall (%)	80.5	86.1	85.9	86.6	87.2	87.1	87.2	90.1	93.6	93.9
Precision (%)	75.0	81.2	\$1.1	81.7	\$3.1	83.0	82.8	83.3	88.0	88.0
F-measure	77.5	83.6	\$3.3	84.1	85.1	85.0	84.9	\$7.7	90.7	90.9

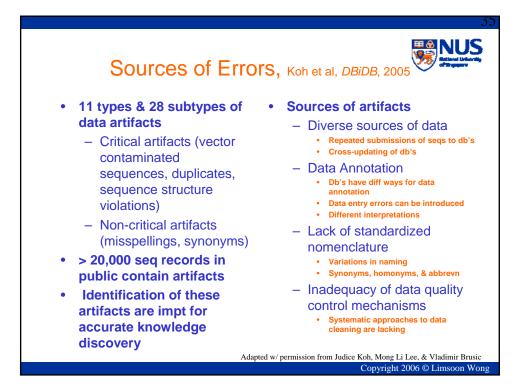
Adapted w/ permission from Xiao et al.

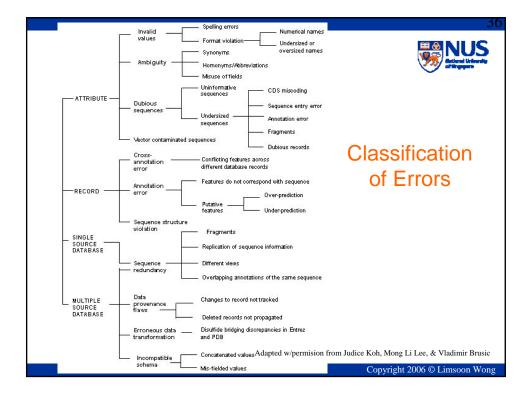
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Completeness: Is the structure of our databases expressive enough to capture critical information explicitly?





