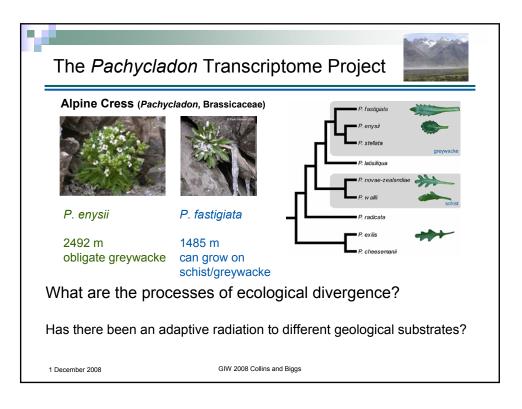
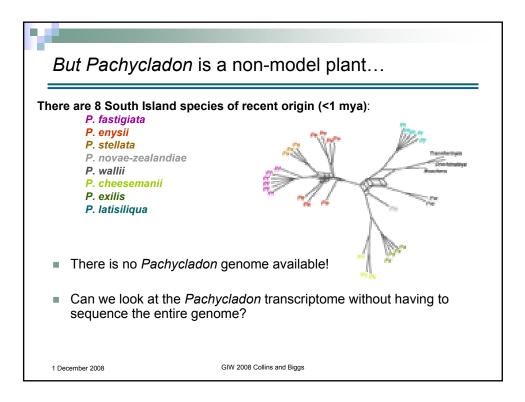
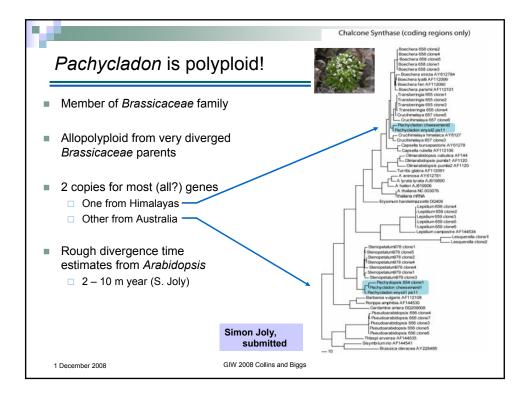


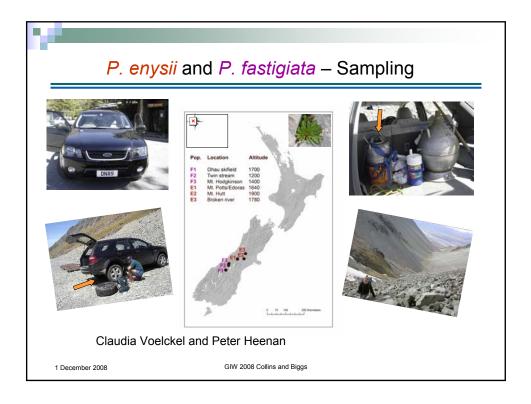
Benefits and cor	nstr	aints of
Microarray studies	&	Tag profiling studies
> microarray platform needed		> open to any organism (but tag annotation depends on available genome information)
queries limited to genes present on the array		> any transcript detectable (restriction site)
> multi-species comparisons tricky		multi-species comparisons straightforward
➢ 100 ug per sample		> 1ug RNA per sample
 Iow intensity data unreliable intense data pre-processing 		 > single copy transcripts detectable (3 tpm) > little data pre-processing
➤ reasonable costs		still expensive: cost likely to decrease when multiplexing biological replicates



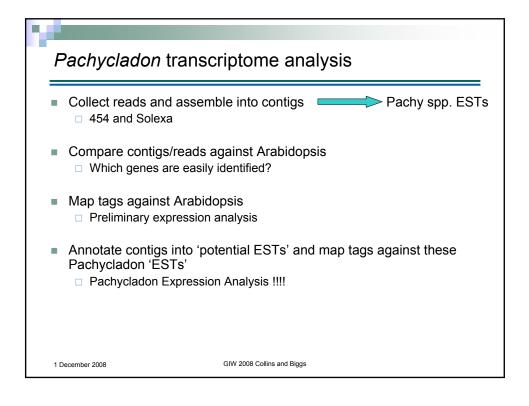


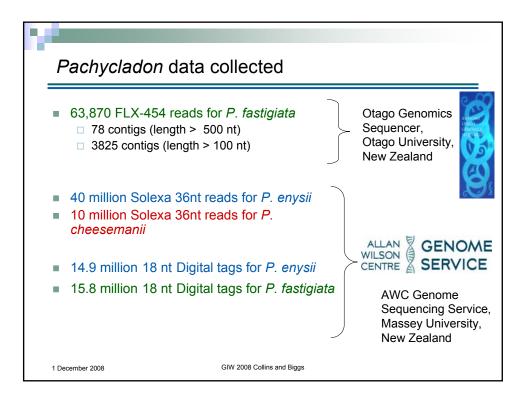


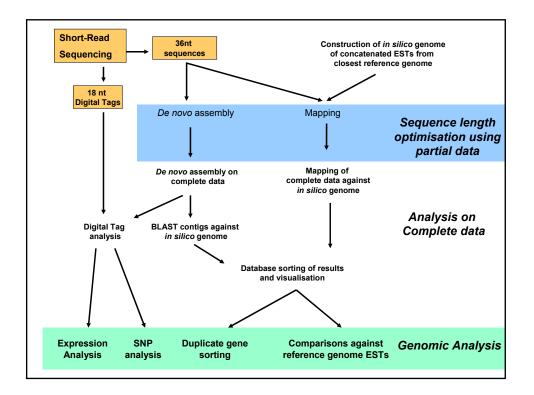
		in a of O	Daahaa			
be	quenc	ing of 3	Pacnyc	adon s	species	
	Platform	Template	Sequence length	P. enysii	P. fastigiata	P. cheesemanii
	Solexa	cDNA	36 bp	x		X
	454	cDNA	40-320 bp		x	
	Solexa	mRNA tags	18 bp	X	X	
. C	ompare p	EST libraries platforms for EST database	EST library	constructio	on	ng the same pla
4. U	se EST li	braries for de	evelopment	of molecul	ar markers	
	igital Ger sults	e Expression	n pilot study	to be com	pared with ea	arlier microarray
1 Dec	ember 2008		GIW 200	08 Collins and Bigg	S	

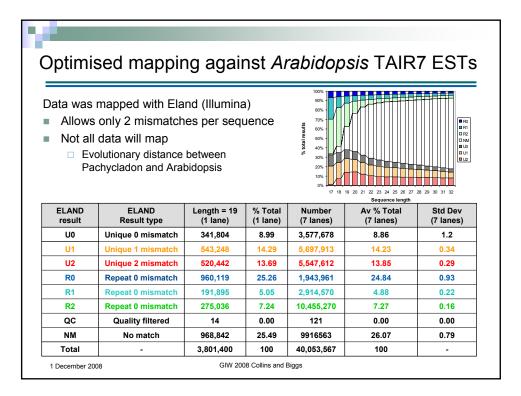


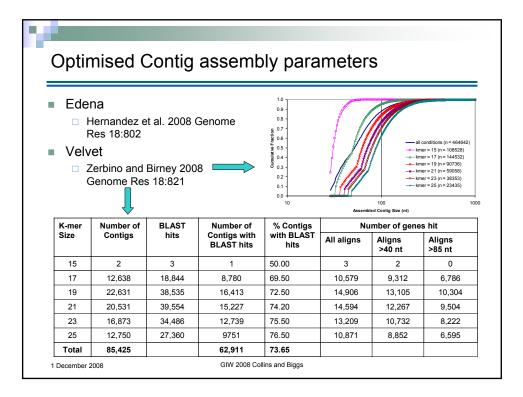


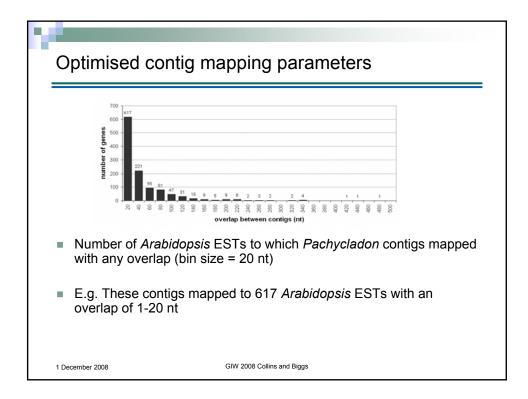


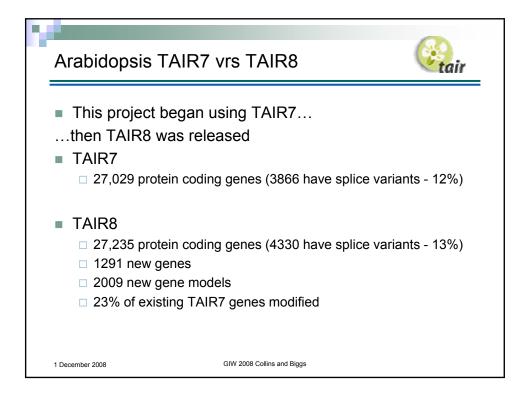


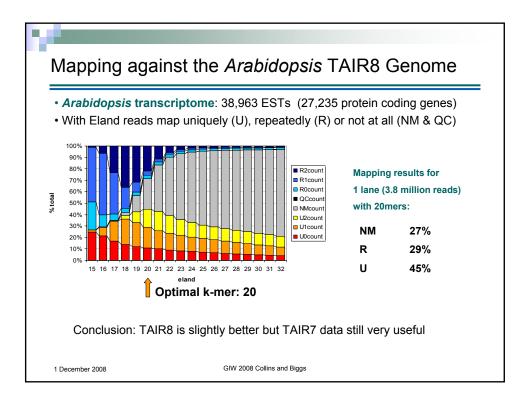


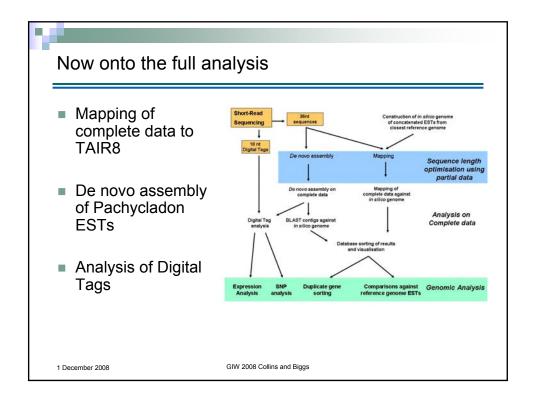




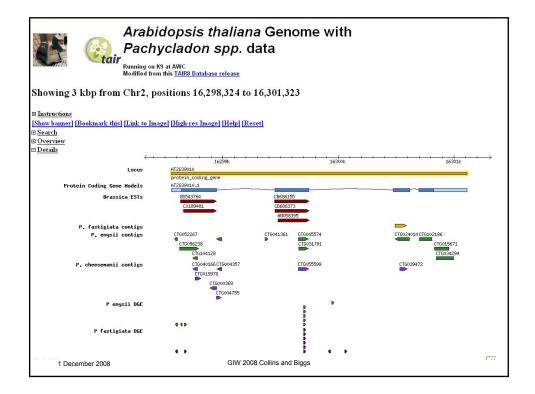








Со	ontigs asse	embled	using V	/elvet and	Edena	
		0		er at least 90% % identical nuc	of the contig lengtl leotides	ו
		<i>P. enysii</i> Edena	<i>P. enysii</i> Velvet	<i>P. cheesemanii</i> Edena	<i>P. cheesemanii</i> Velvet	
	Contigs >500nt	542	1042	365	573	
	Hits in Arabidopsis	97	125	68	72	
	Contigs from 4		•			
= r	Many thanks to	o Oliver De	eusch and	Nicole Grünh	eit	
1 Dece	mber 2008		GIW 2008 Collins	and Biggs		



owse a	against Ai	ab Tai	ir8					
_								
tair	Home Help Contact Abou	t Us Login/Register			Gene	Search		
Search	Browse Tools	Stocks	Portals	Download	Submit	Hews		
Locus: AT	2G39010				1			
Date last modified	2003-05-02							
TAIR Accessio	TAIR Accession Locus:2064885							
Representative Gene Model 0	Representative AT2G39010.1							
Gene Model Type	Gene Model protein coding							
Other names:	ther names: PIP2;6, PIP2E, PLASMA MEMBRANE INTRINSIC PROTEIN 2;6, PLASMA MEMBRANE INTRINSIC PROTEIN 2E, T7F6.18, T7F6.18							
Description 🖗	ption PIP2:6/PIP2E (plasma membrane intrinsic protein 2,6); water channel; identical to Probable aquaporin PIP2-6 (PIP2-6) [Arabidopsis Thaliana] (OB:032V07); similar to PIP2.5/PIP2D (plasma membrane intrinsic protein 2,5), water channel [Arabidopsis thaliana] (TAIR:AT3054820.1); similar to water channel protein [Brassica rapa] (OB:ABL97865.1); contains interFro domain Aquaporin; (InterFrovEn012269); contains InterPro domain Major intrinsic protein; (InterProvEn000425)							
Map Detail	<			16300k		16301k		
Image	Protein Coding Ger AT2G39010.1	e Models			^			
Annotations @	Category	Relationshi	р Туре 🛛	Keyword	0			
	GO Biological Process	involved in		response	to nematode, tr	ansport		
	GO Cellular Component	located in		membrane				
	GO Cellular Component	located in			membrane, plasma membrane			
	GO Molecular Function	has		water ch	annel activity			
	Plant structure	expressed in	1	root				

