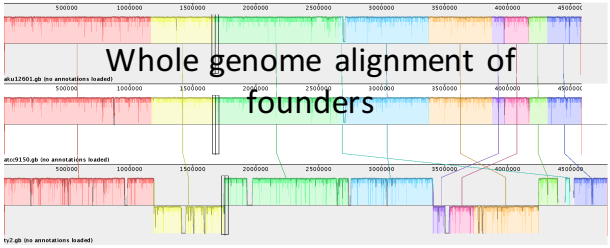
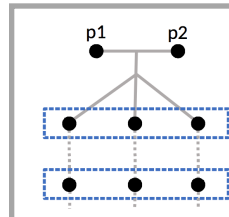
Founder assemblies

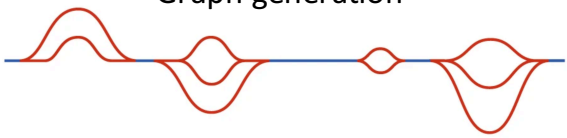


Whole genome alignment of founders



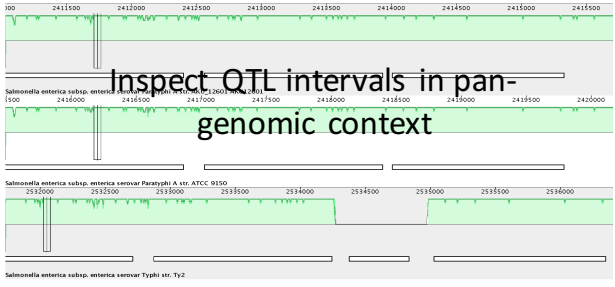
Progeny short-reads

Graph generation



Variants as branch-points

CHROM	POS	ID	REF	ALT	QUAL	FILTER	INFO	FORMAT	aku12601gb	ty
chr0	13536	13538-13537	G	A	.	.	.	GT 0	1 0	
chr0	50040	50042-50041	A	G	.	.	.	GT 0	1 0	
chr0	225070	225072-225071	T	G	.	.	.	GT 0	1 0	
chr0	79517	79519-79518	A	G	.	.	.	GT 0	1 0	
chr0	84424	84426-84425	C	T	.	.	.	GT 0	1 0	
chr0	43730	43732-43731	T	C	.	.	.	GT 0	1 0	



Inspect QTL intervals in pan-genomic context

Genetics in R/qtl, Tassel, etc