

(8/24) PESCA

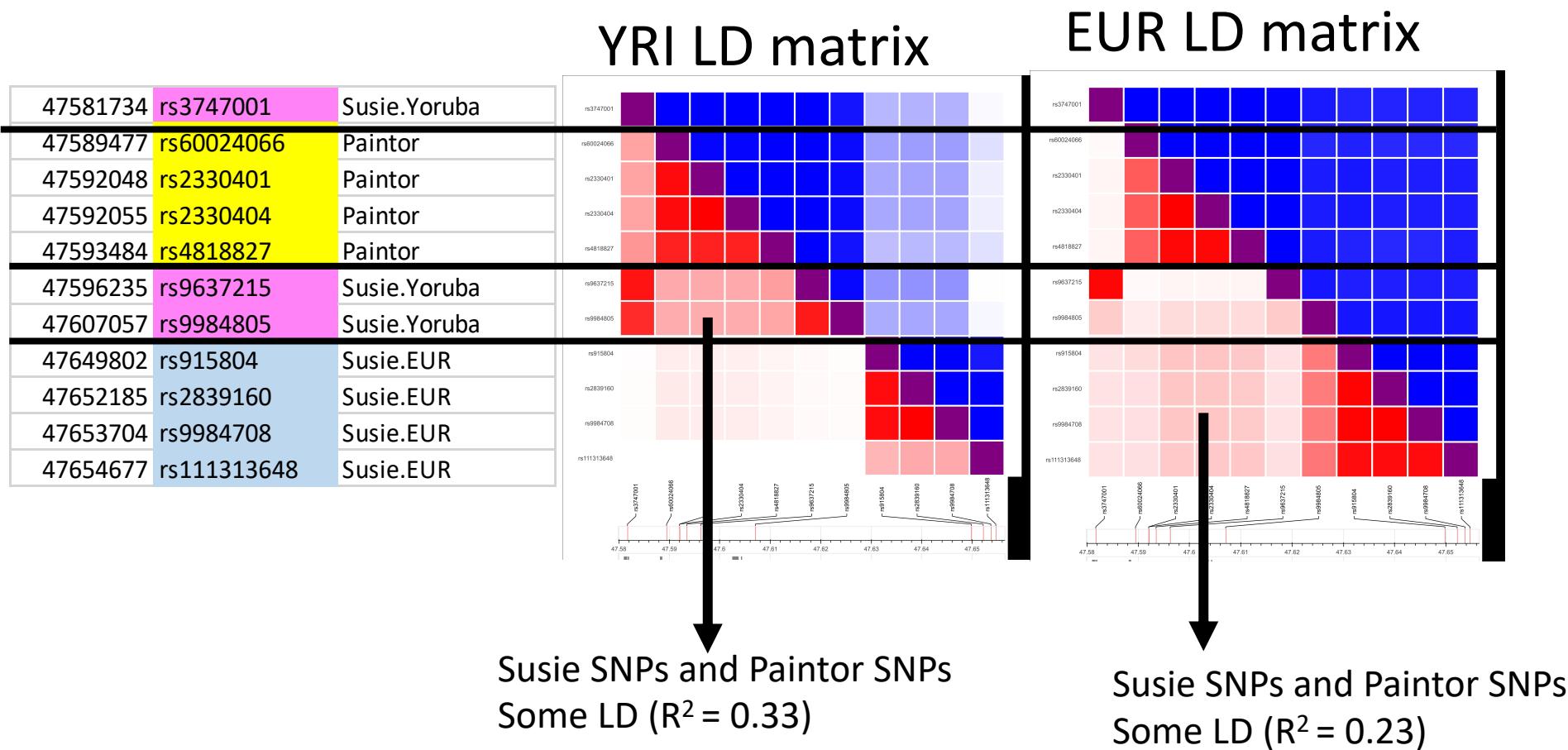
- EUR and YRI fine-mapping (default parameter)
–no positive SNP
- EUR only – no difference (no positive SNP)
- nsample 500000 – no difference

Paintor fine-mapping on SPATC1L with population-specific eSNPs in SuSiE

Paintor found four fine-mapped SNPs

CHR	POS	RSID	ZSCORE.EUR	ZSCORE.YRI	Posterior_Prob
21	47589477	rs60024066	-0.398968	-0.656021	1.00E+00
21	47592048	rs2330401	0.474434	0.678131	5.00E-01
21	47592055	rs2330404	0.474434	0.678131	5.00E-01
21	47593484	rs4818827	0.449448	0.690215	1.00E+00

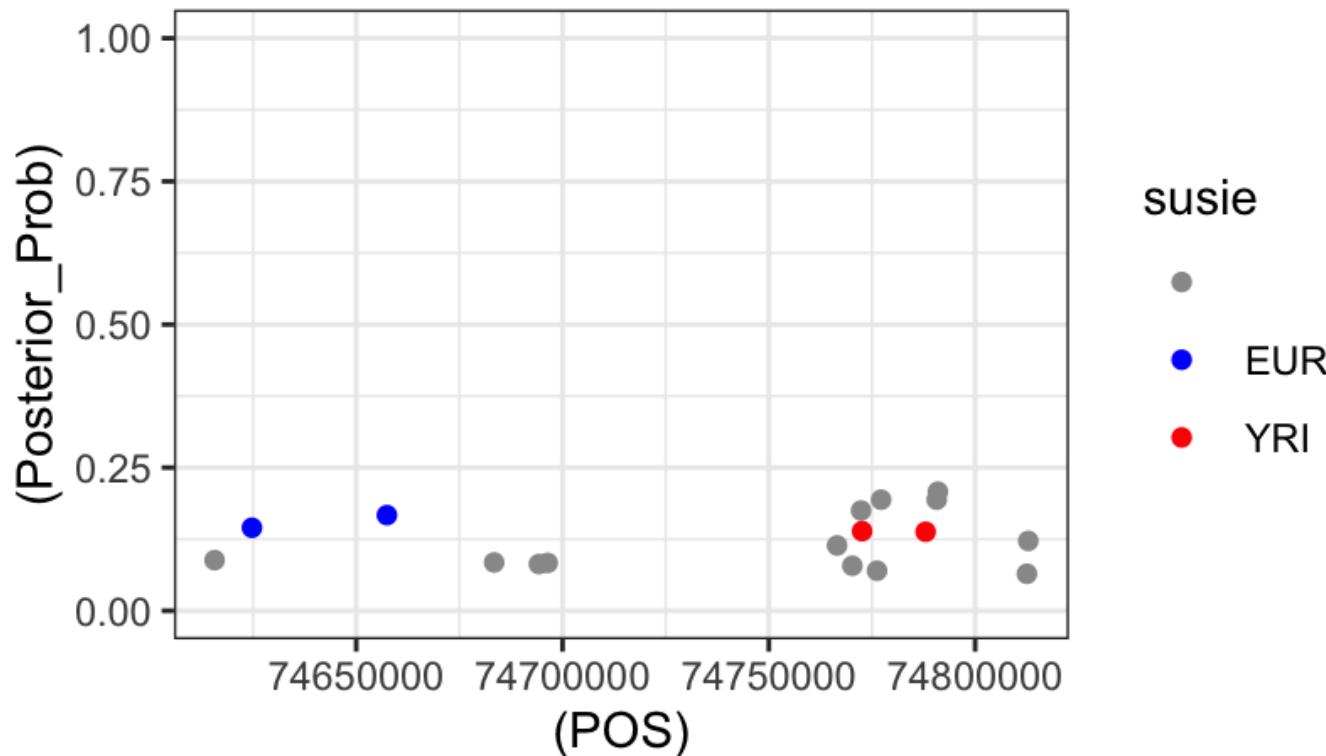
Paintor fine-mapping on SPATC1L with population-specific eSNPs in SuSiE



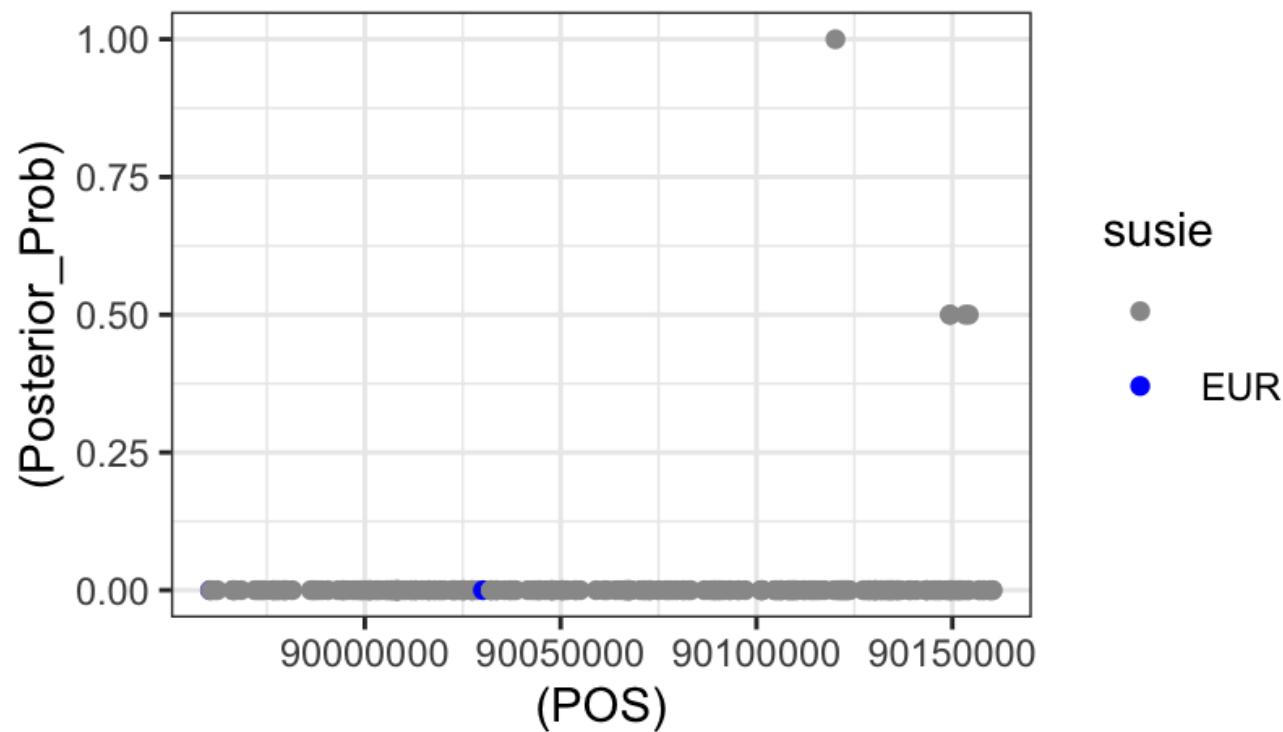
8/31

- How to set the threshold of posterior probability

Paintor output: ENSG00000189011



Paintor output: ENSG00000225523

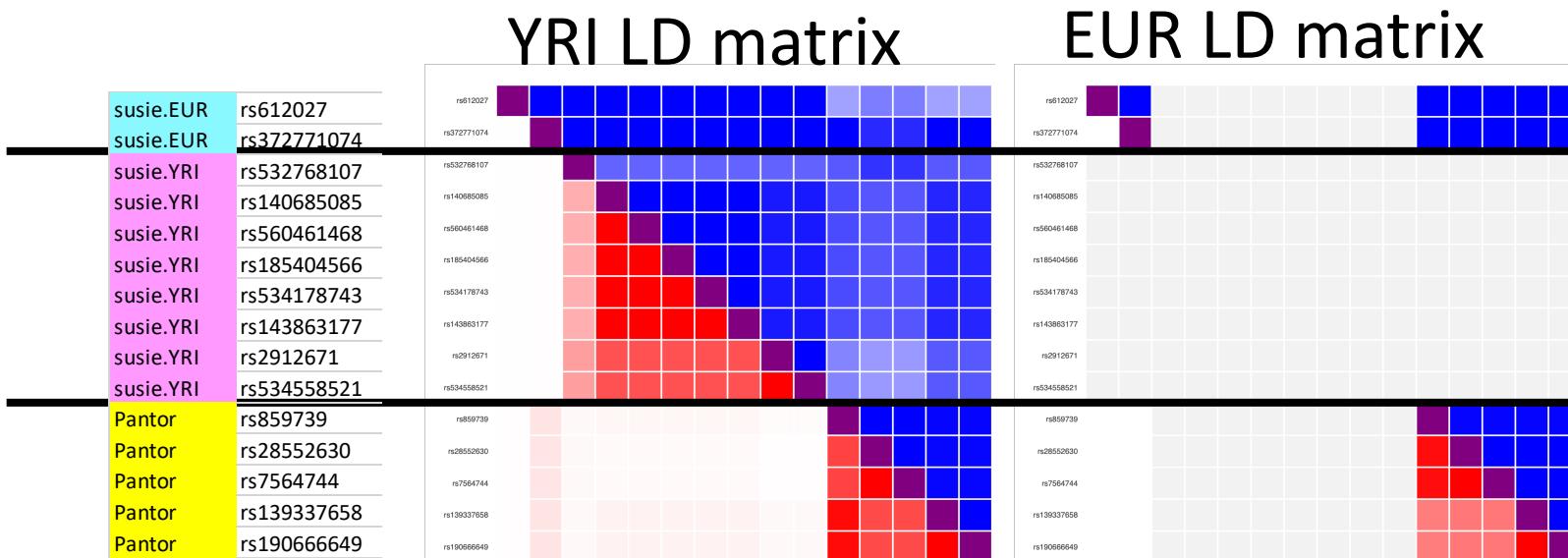


susie result:

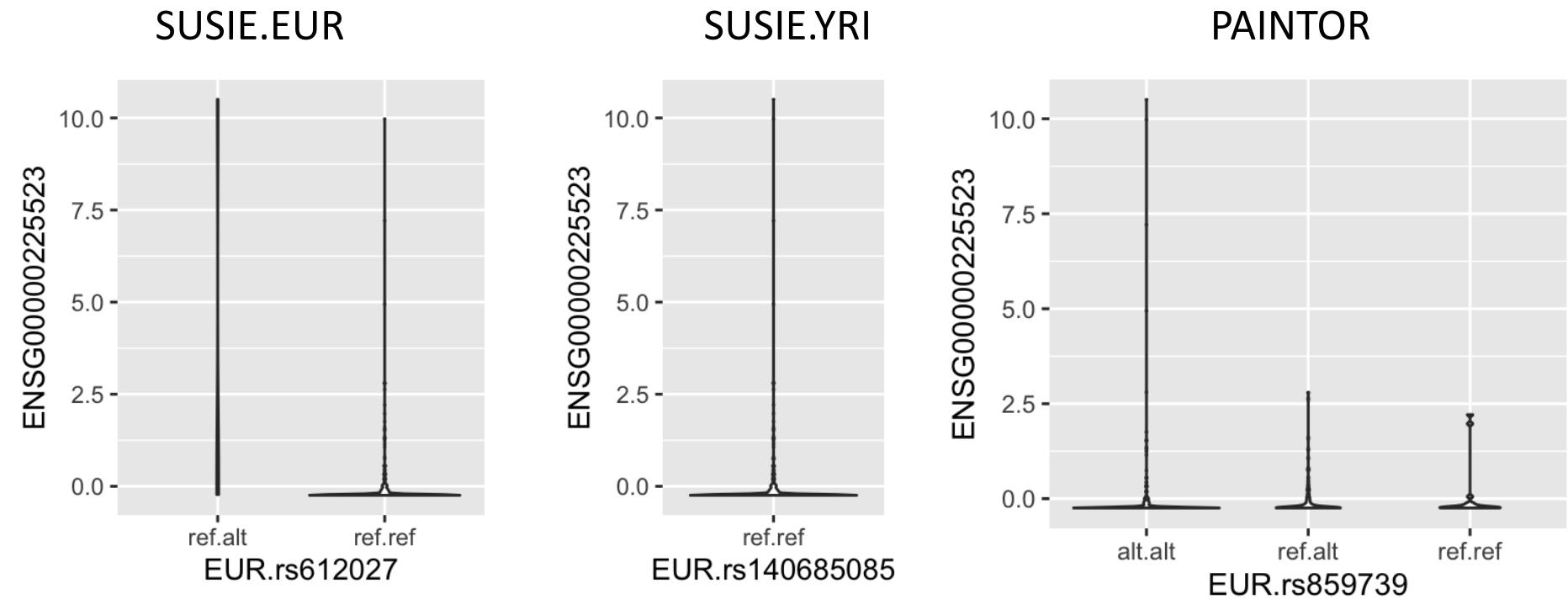
ENSG00000225523

POS	EUR.freq	Yoruba.freq	status	SNP.x
89960504	0.00558659	0.0287356	EUR	rs612027
90067263	0	0.0632184	YRI	rs140685085
90067726	0	0.0632184	YRI	rs143863177
90067368	0	0.0632184	YRI	rs185404566
90069670	0	0.0517241	YRI	rs2912671
90030185	0.00139665	0.126437	EUR	rs372771074
90063408	0	0.0574713	YRI	rs532768107
90067571	0	0.0632184	YRI	rs534178743
90069693	0	0.0517241	YRI	rs534558521
90067320	0	0.0632184	YRI	rs560461468

Paintor fine-mapping on ENSG00000225523 with population-specific eSNPs in SuSiE

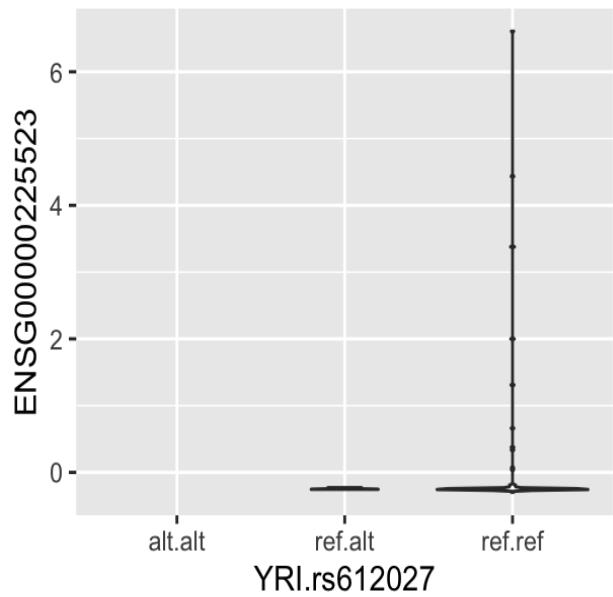


(9/7) gene expression / each SNP in EUR

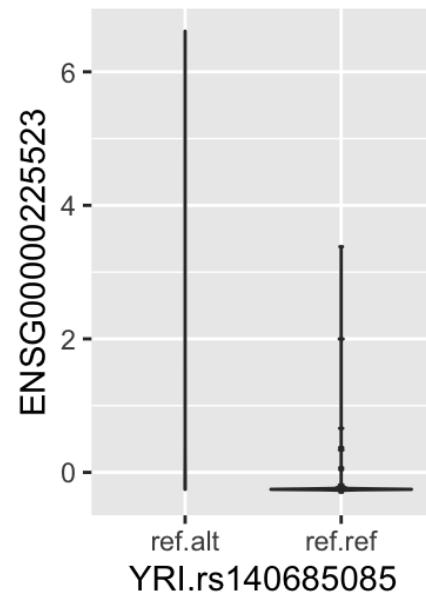


gene expression / each SNP in YRI

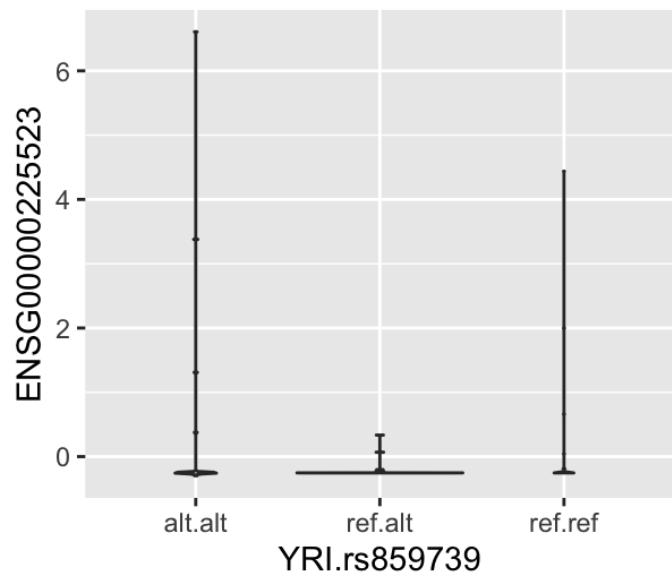
SUSIE.EUR



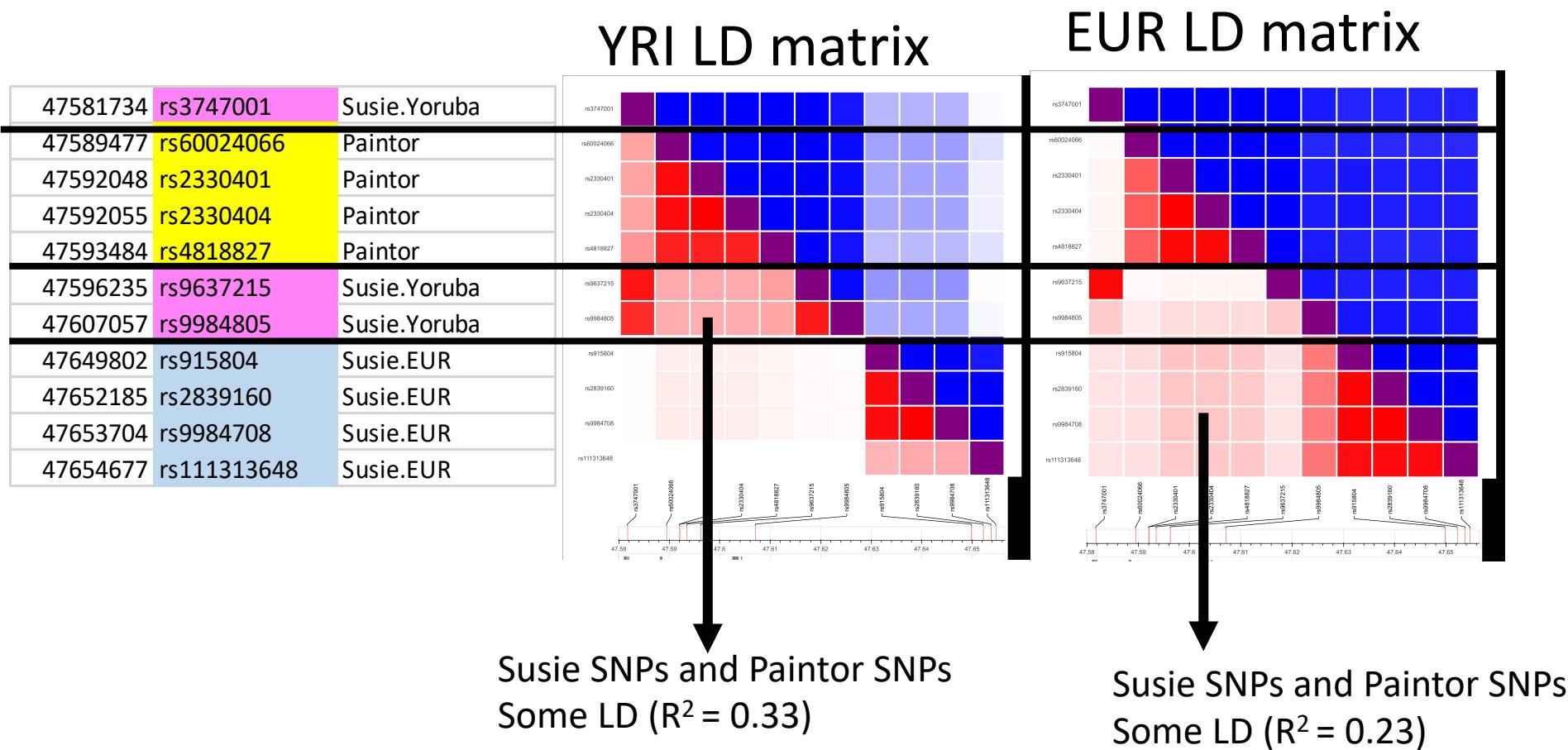
SUSIE.YRI



PAINTOR

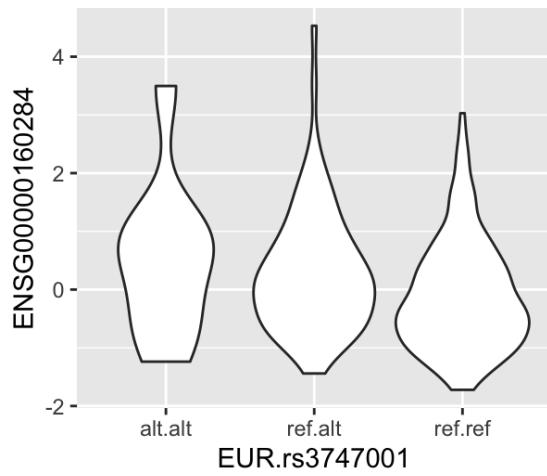


Paintor fine-mapping on SPATC1L with population-specific eSNPs in SuSiE

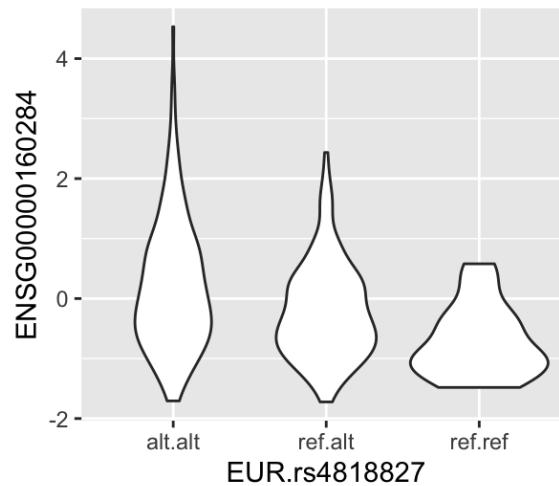


gene expression / each SNP in EUR

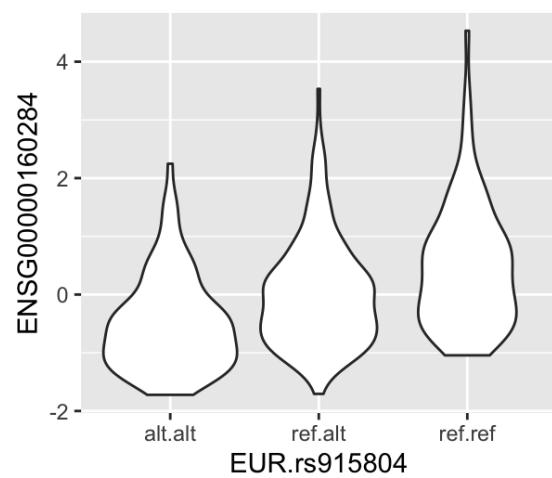
SUSIE.YRI



PAINTOR

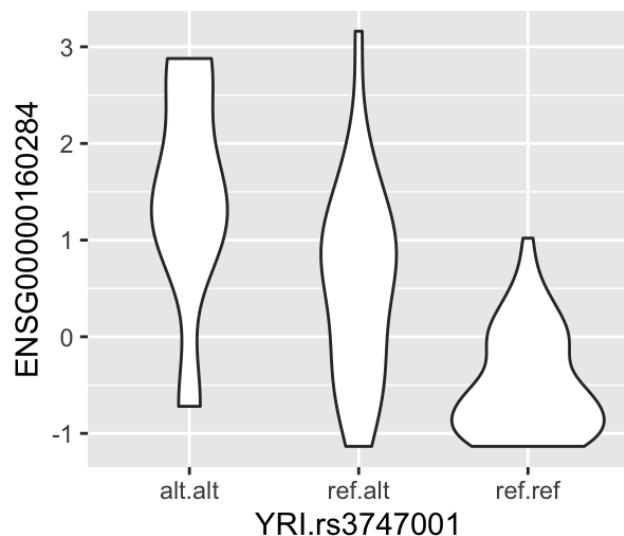


SUSIE.EUR

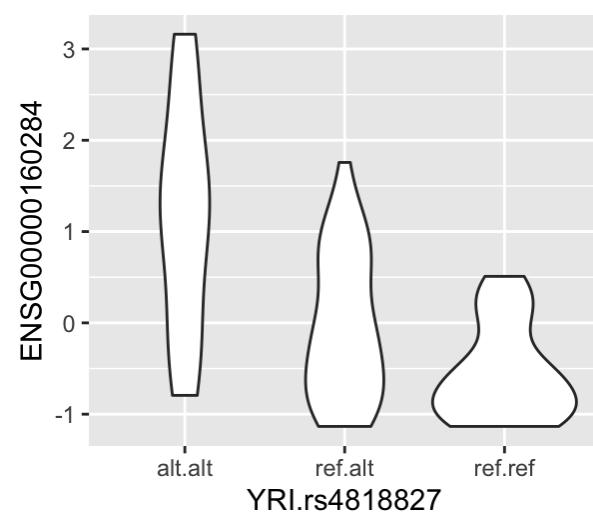


gene expression / each SNP in YRI

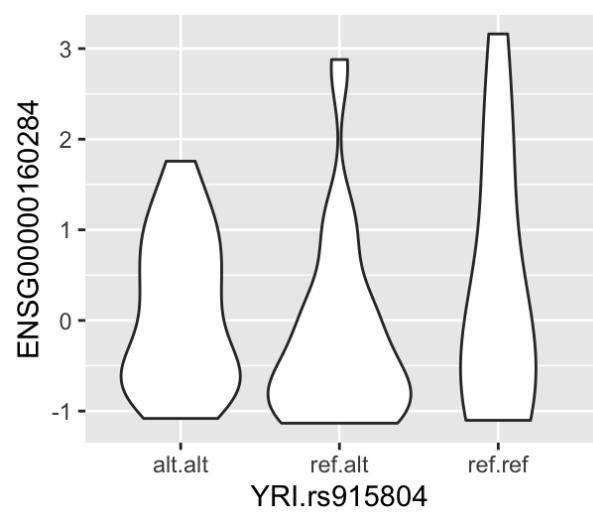
SUSIE.YRI



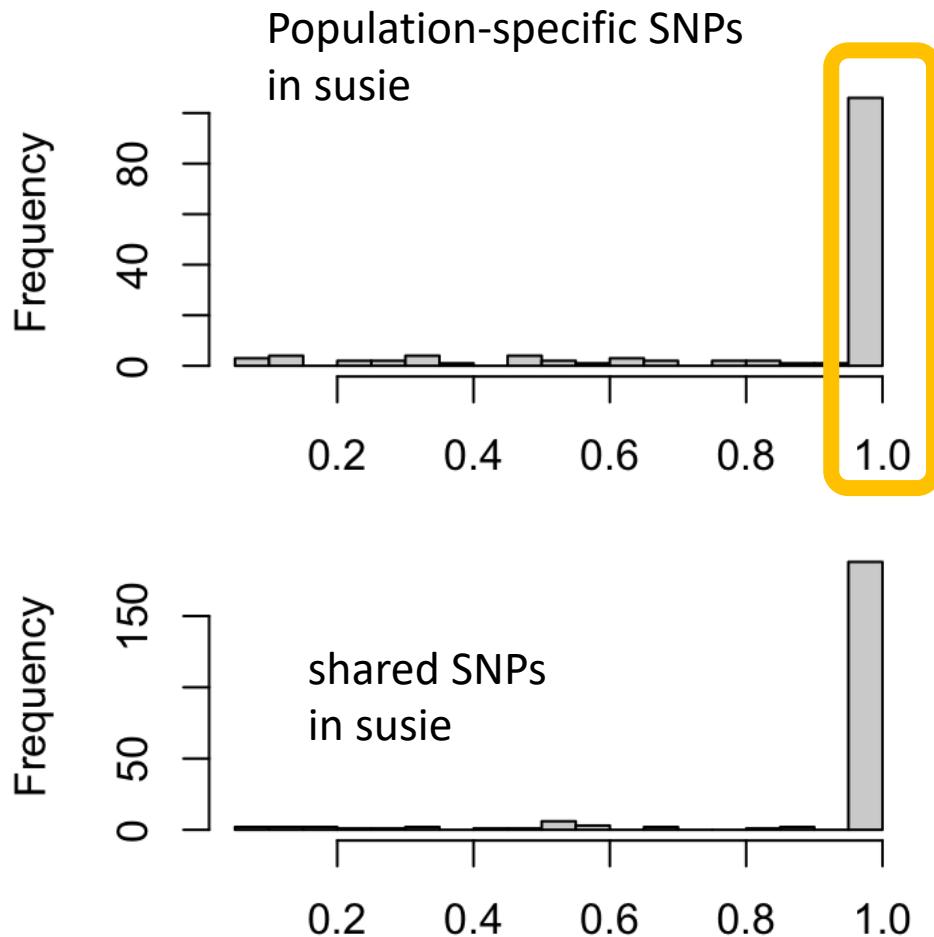
PAINTOR



SUSIE.EUR

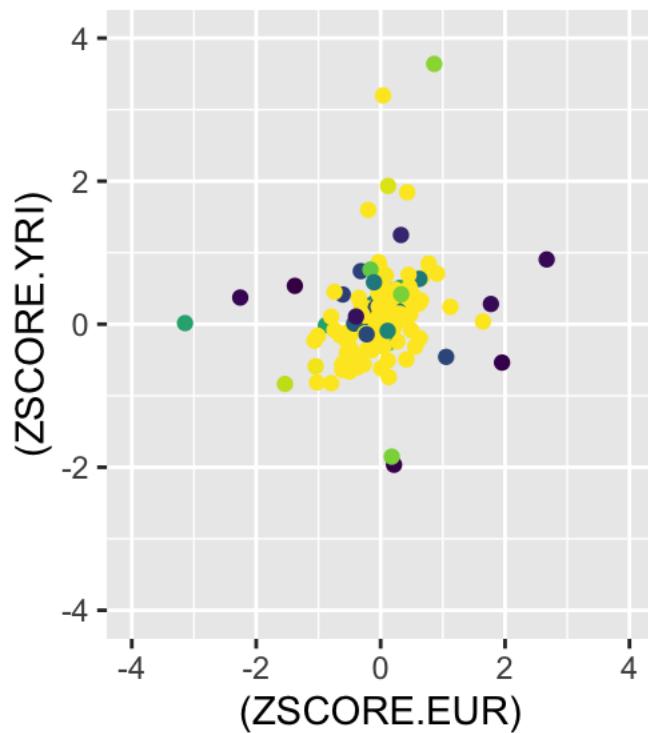


SNP with the top posterior probability in each gene



SNP with the top posterior probability in each gene
and Z-scores in FastQTL

genes with population-specific
SNPs in susie



genes with shared SNPs
in susie

