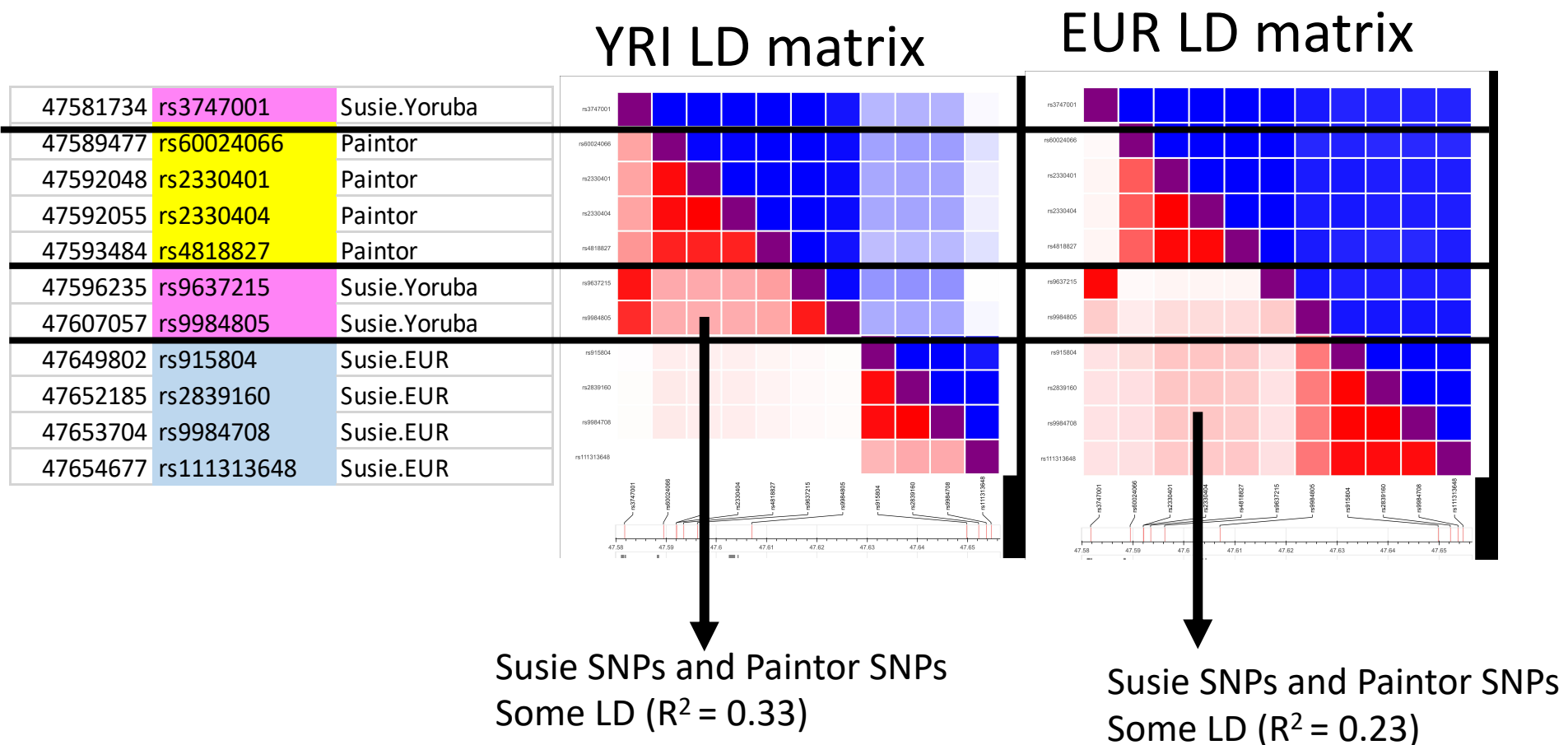# (8/24) PESCA

- 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

YRI LD matrix

EUR LD matrix

47581734	rs3747001	Susie.Yoruba
47589477	rs60024066	Paintor
47592048	rs2330401	Paintor
47592055	rs2330404	Paintor
47593484	rs4818827	Paintor
47596235	rs9637215	Susie.Yoruba
47607057	rs9984805	Susie.Yoruba
47649802	rs915804	Susie.EUR
47652185	rs2839160	Susie.EUR
47653704	rs9984708	Susie.EUR
47654677	rs111313648	Susie.EUR

Susie SNPs and Paintor SNPs
Some LD (R^2 = 0.33)

Susie SNPs and Paintor SNPs
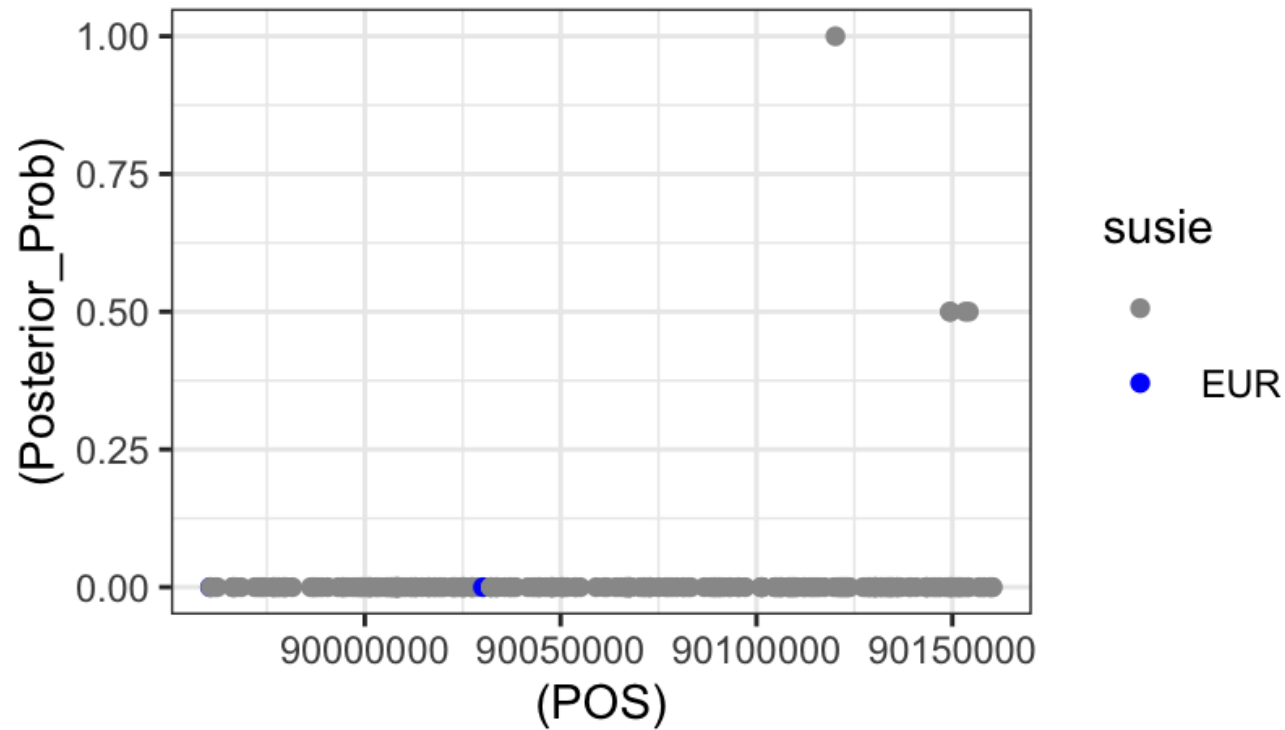Some LD (R^2 = 0.23)

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- How to set the threshold of posterior probability

Paintor output: ENSG00000189011
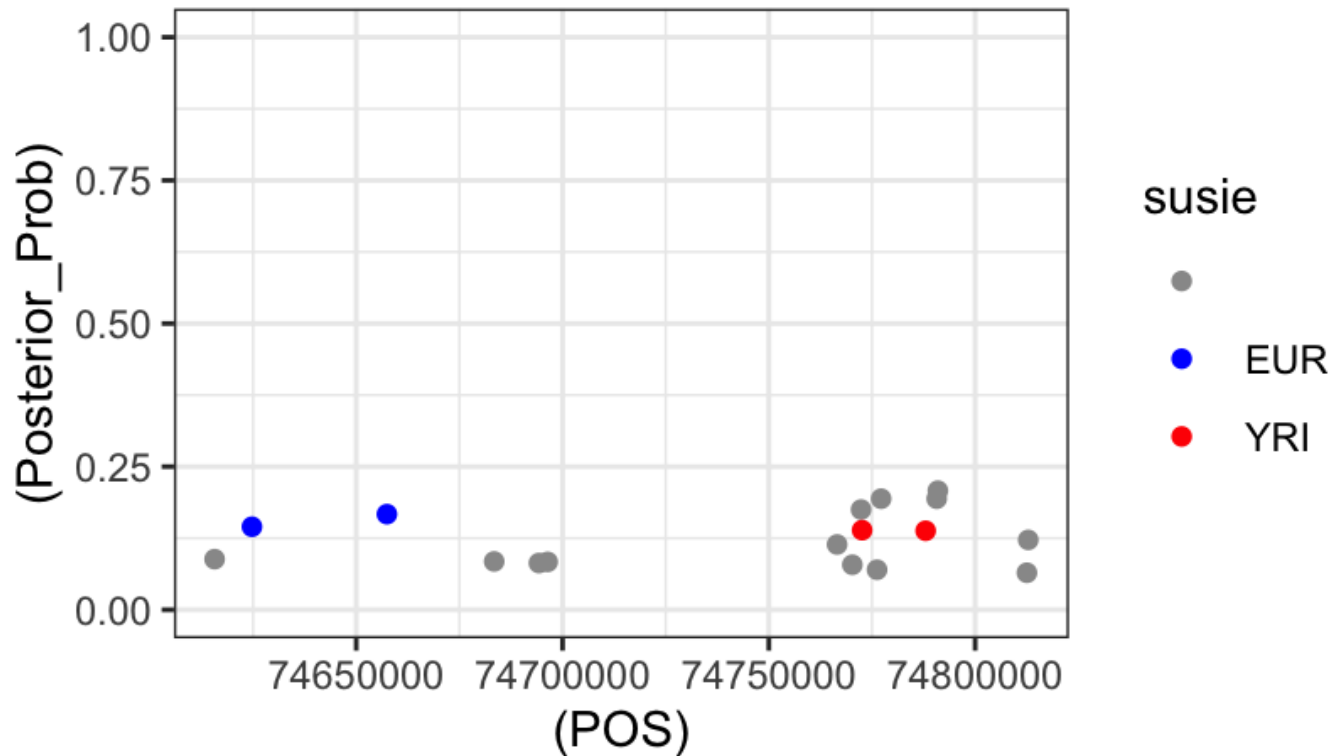
Paintor output: ENSG00000225523

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