

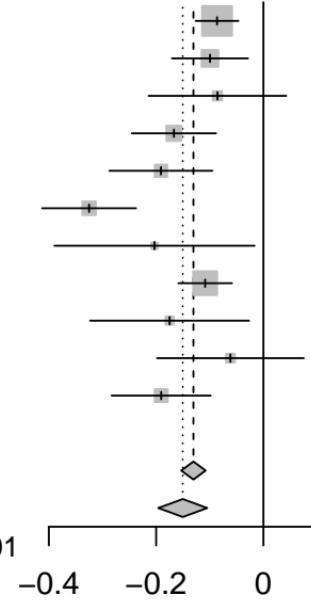
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (448)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

4EBP1 [chr4:187158034\_A\_G (rs3733402) (A/G) N=14736]

**TE seTE**

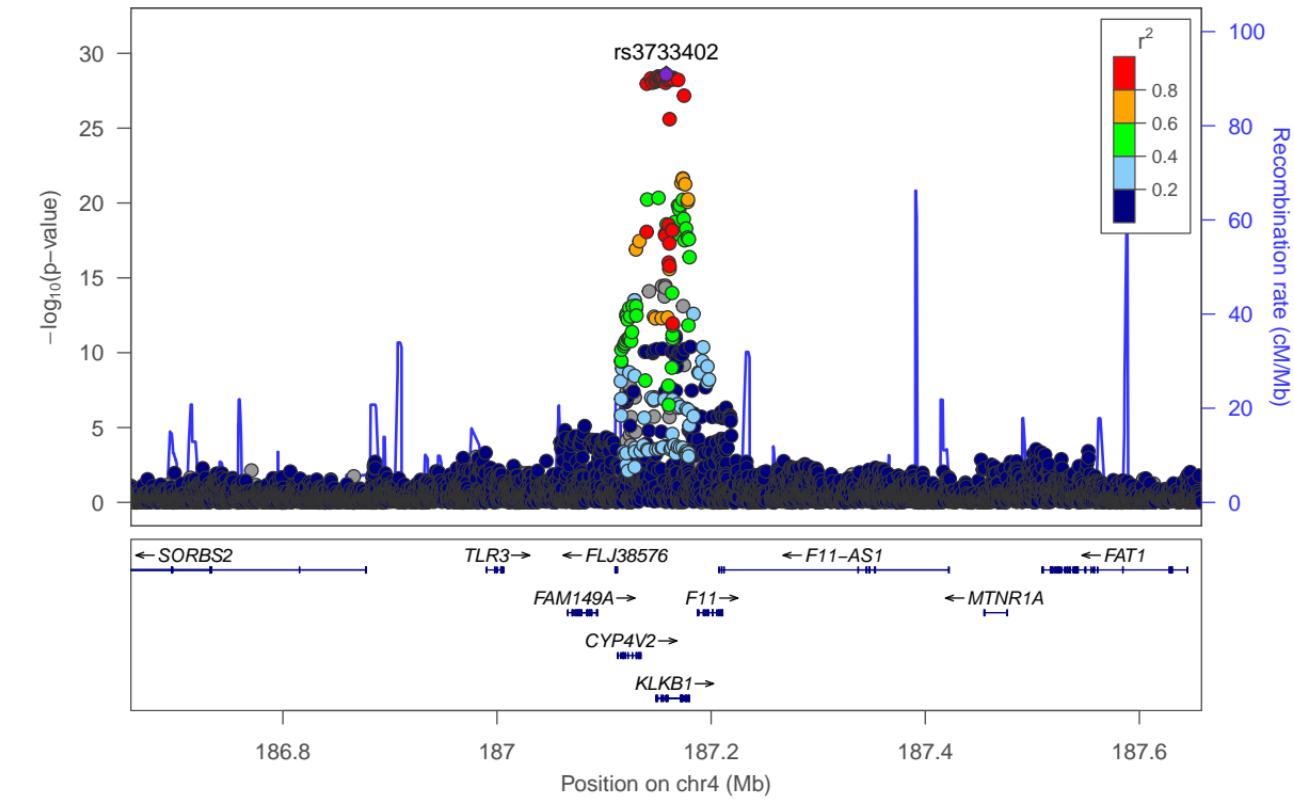
-0.09 0.0203  
-0.10 0.0362  
-0.09 0.0655  
-0.17 0.0401  
-0.19 0.0490  
-0.32 0.0447  
-0.20 0.0952  
-0.11 0.0255  
-0.17 0.0757  
-0.06 0.0699  
-0.19 0.0472

**95%-CI Weight (fixed) Weight (random)**

	95%-CI	Weight (fixed)	Weight (random)
-0.09 [-0.13; -0.05]	32.6%	13.7%	
-0.10 [-0.17; -0.03]	10.3%	11.2%	
-0.09 [-0.21; 0.04]	3.1%	6.9%	
-0.17 [-0.25; -0.09]	8.4%	10.5%	
-0.19 [-0.29; -0.09]	5.6%	9.1%	
-0.32 [-0.41; -0.24]	6.7%	9.8%	
-0.20 [-0.39; -0.02]	1.5%	4.3%	
-0.11 [-0.16; -0.06]	20.7%	12.9%	
-0.17 [-0.32; -0.03]	2.4%	5.8%	
-0.06 [-0.20; 0.08]	2.8%	6.4%	
-0.19 [-0.28; -0.10]	6.1%	9.4%	
<b>-0.13 [-0.15; -0.11]</b>	<b>100.0%</b>	--	
<b>-0.15 [-0.20; -0.10]</b>	--	<b>100.0%</b>	

**Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 68\%$ ,  $\tau^2 = 0.0035$ ,  $p < 0.01$ 

4EBP1 (EIF4EBP1)-rs3733402



**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (424)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

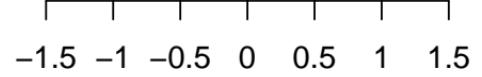
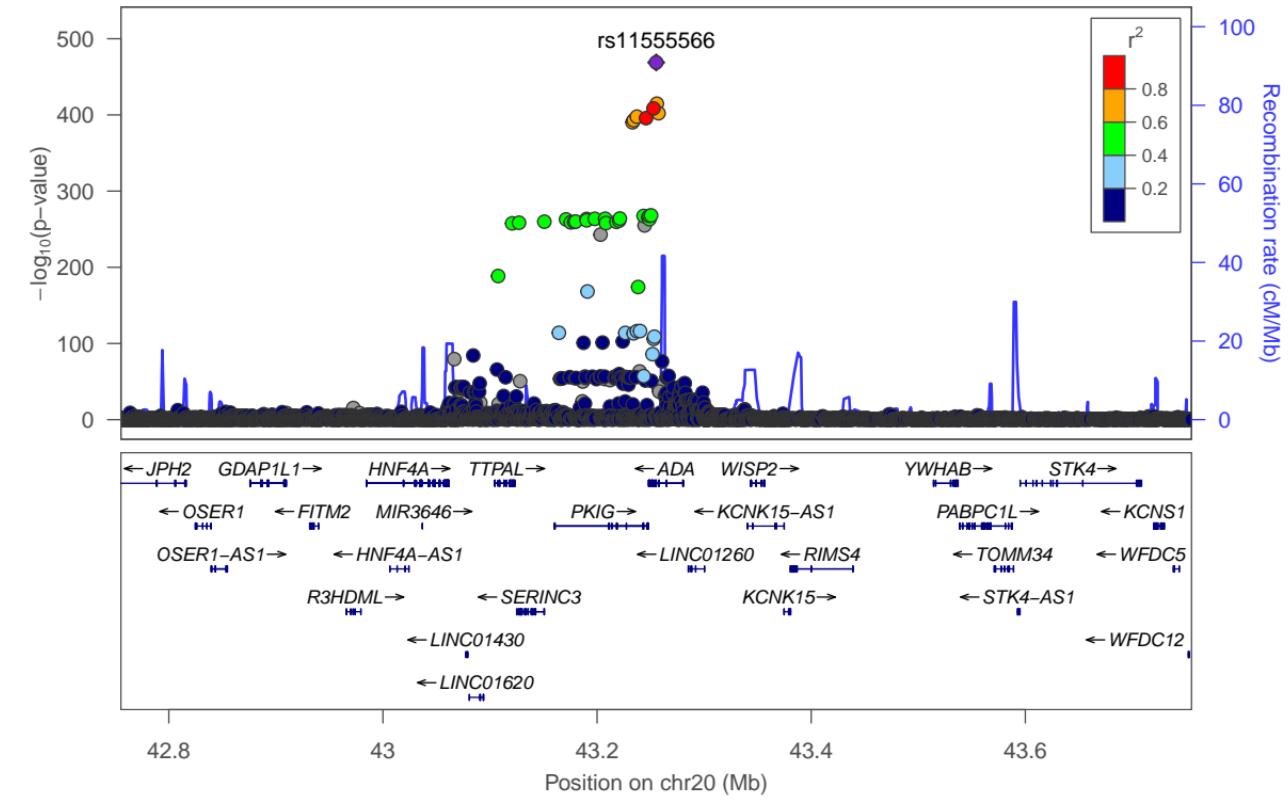
**TE seTE**

-1.27 0.0384  
-1.11 0.0743  
-1.27 0.1203  
-1.44 0.1056  
-0.82 0.1575  
-0.78 0.0760  
-0.46 0.1077  
-1.03 0.0521  
-0.82 0.1585  
-0.96 0.1694  
-0.68 0.0961

**ADA [chr20:43255220\_C\_T (rs11555566) (T/C) N=14712]****Weight  
95%-CI  
(fixed) (random)**

-1.27 [-1.34; -1.19] 36.3% 10.5%  
-1.11 [-1.25; -0.96] 9.7% 9.9%  
-1.27 [-1.51; -1.03] 3.7% 8.8%  
-1.44 [-1.65; -1.23] 4.8% 9.2%  
-0.82 [-1.13; -0.52] 2.2% 7.8%  
-0.78 [-0.93; -0.63] 9.3% 9.8%  
-0.46 [-0.67; -0.25] 4.6% 9.1%  
-1.03 [-1.13; -0.93] 19.7% 10.3%  
-0.82 [-1.13; -0.51] 2.1% 7.8%  
-0.96 [-1.29; -0.63] 1.9% 7.5%  
-0.68 [-0.87; -0.49] 5.8% 9.4%

**Fixed effect model**  
**Random effects model**  
Heterogeneity:  $I^2 = 91\%$ ,  $\tau^2 = 0.0674$ ,  $p < 0.01$

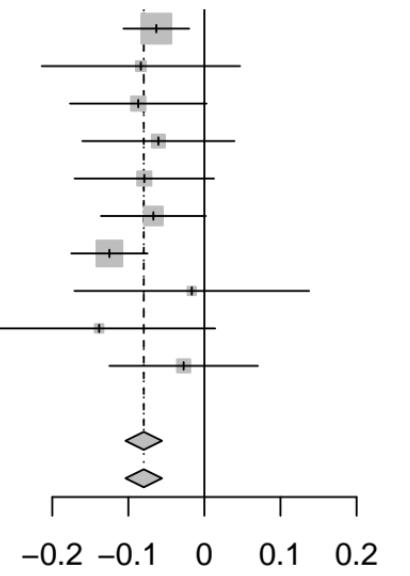
**ADA (ADA)-rs11555566**

**Study**

Study	TE	seTE
INTERVAL (4896)	-0.06	0.0220
EGCUT (487)	-0.08	0.0665
KORA (1064)	-0.09	0.0458
NSPHS (874)	-0.06	0.0510
ORCADES (981)	-0.08	0.0468
RECOMBINE (425)	-0.07	0.0352
STABILITY (2951)	-0.12	0.0256
STANLEY (344)	-0.02	0.0787
STANLEY (300)	-0.14	0.0778
VIS (902)	-0.03	0.0498

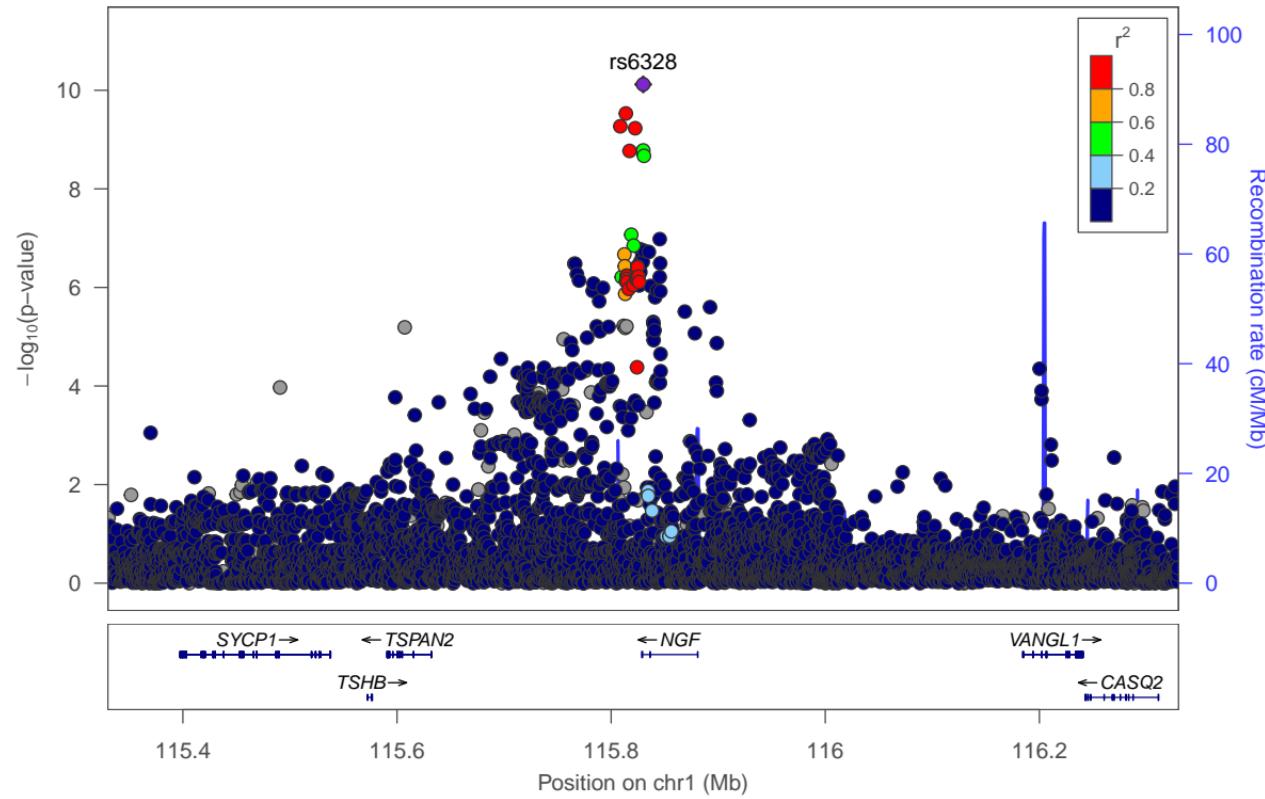
**Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.71$ 

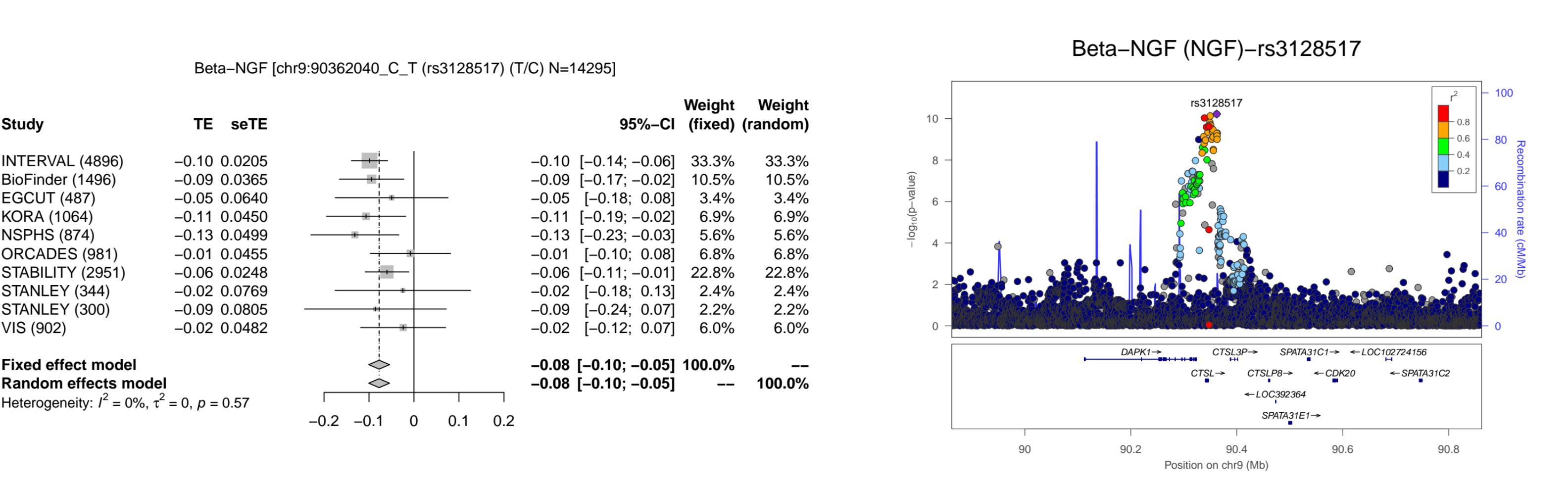
Beta-NGF [chr1:115829943\_A\_C (rs6328) (A/C) N=13224]



	95%-CI	Weight (fixed)	Weight (random)
	-0.06 [-0.11; -0.02]	30.8%	30.8%
	-0.08 [-0.21; 0.05]	3.4%	3.4%
	-0.09 [-0.18; 0.00]	7.1%	7.1%
	-0.06 [-0.16; 0.04]	5.8%	5.8%
	-0.08 [-0.17; 0.01]	6.9%	6.9%
	-0.07 [-0.14; 0.00]	12.1%	12.1%
	-0.12 [-0.17; -0.07]	22.9%	22.9%
	-0.02 [-0.17; 0.14]	2.4%	2.4%
	-0.14 [-0.29; 0.01]	2.5%	2.5%
	-0.03 [-0.12; 0.07]	6.0%	6.0%
	<b>-0.08 [-0.10; -0.06]</b>	<b>100.0%</b>	--
	<b>-0.08 [-0.10; -0.06]</b>	--	<b>100.0%</b>

Beta-NGF (NGF)-rs6328





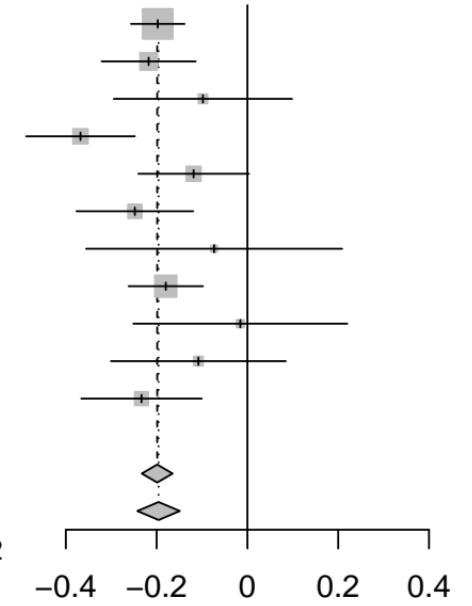
**Study**

	TE	seTE
INTERVAL (4896)	-0.20	0.0301
BioFinder (1496)	-0.22	0.0528
EGCUT (487)	-0.10	0.1002
KORA (1064)	-0.37	0.0611
NSPHS (874)	-0.12	0.0621
ORCADES (982)	-0.25	0.0656
RECOMBINE (447)	-0.07	0.1439
STABILITY (2951)	-0.18	0.0418
STANLEY (344)	-0.02	0.1203
STANLEY (300)	-0.11	0.0983
VIS (902)	-0.23	0.0677

**Fixed effect model****Random effects model**

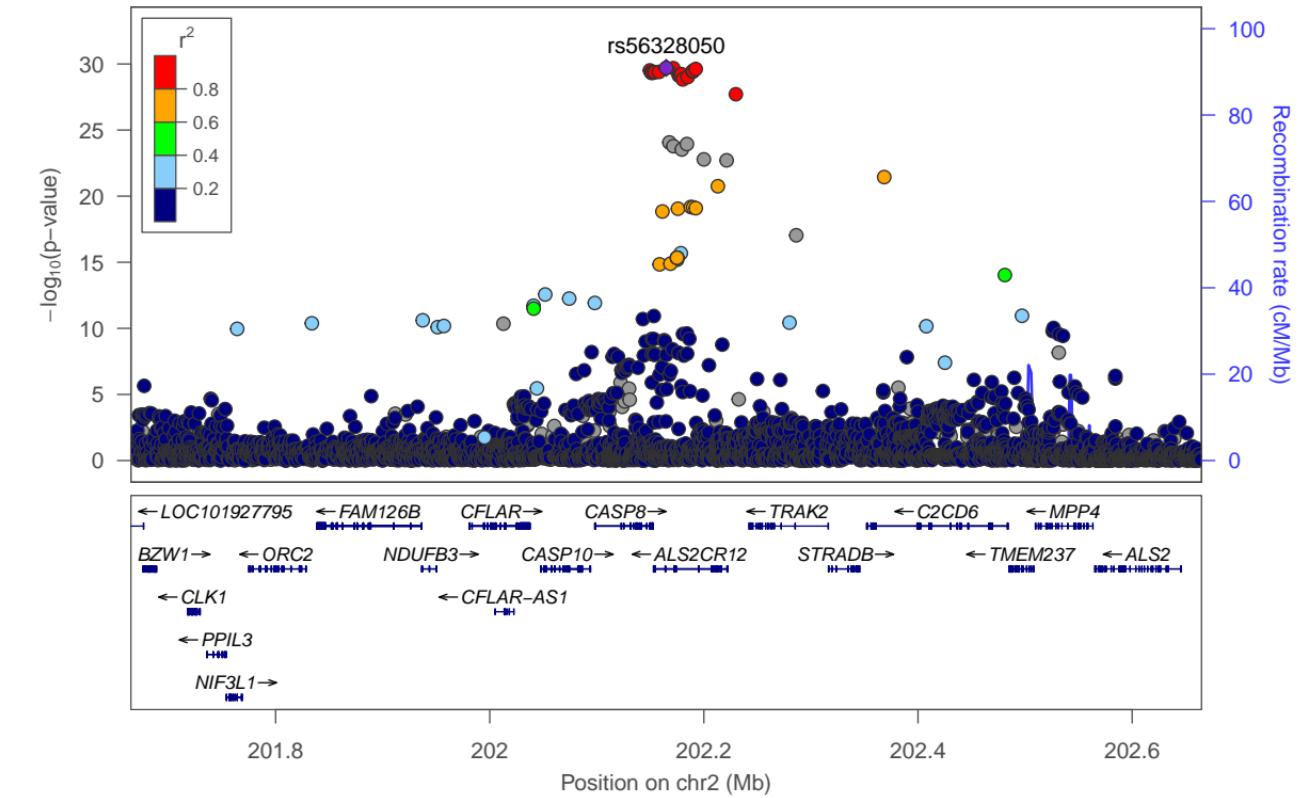
Heterogeneity:  $I^2 = 35\%$ ,  $\tau^2 = 0.0020$ ,  $p = 0.12$

## CASP-8 [chr2:202164805\_C\_G (rs56328050) (C/G) N=14743]

**TE****seTE****95%-CI****Weight (fixed)****Weight (random)**

-0.20	[-0.26; -0.14]	33.1%	19.8%
-0.22	[-0.32; -0.11]	10.8%	11.9%
-0.10	[-0.29; 0.10]	3.0%	4.7%
-0.37	[-0.49; -0.25]	8.0%	10.0%
-0.12	[-0.24; 0.00]	7.8%	9.8%
-0.25	[-0.38; -0.12]	7.0%	9.1%
-0.07	[-0.36; 0.21]	1.5%	2.5%
-0.18	[-0.26; -0.10]	17.2%	15.3%
-0.02	[-0.25; 0.22]	2.1%	3.5%
-0.11	[-0.30; 0.08]	3.1%	4.9%
-0.23	[-0.37; -0.10]	6.6%	8.7%

## CASP-8 (CASP8)-rs56328050



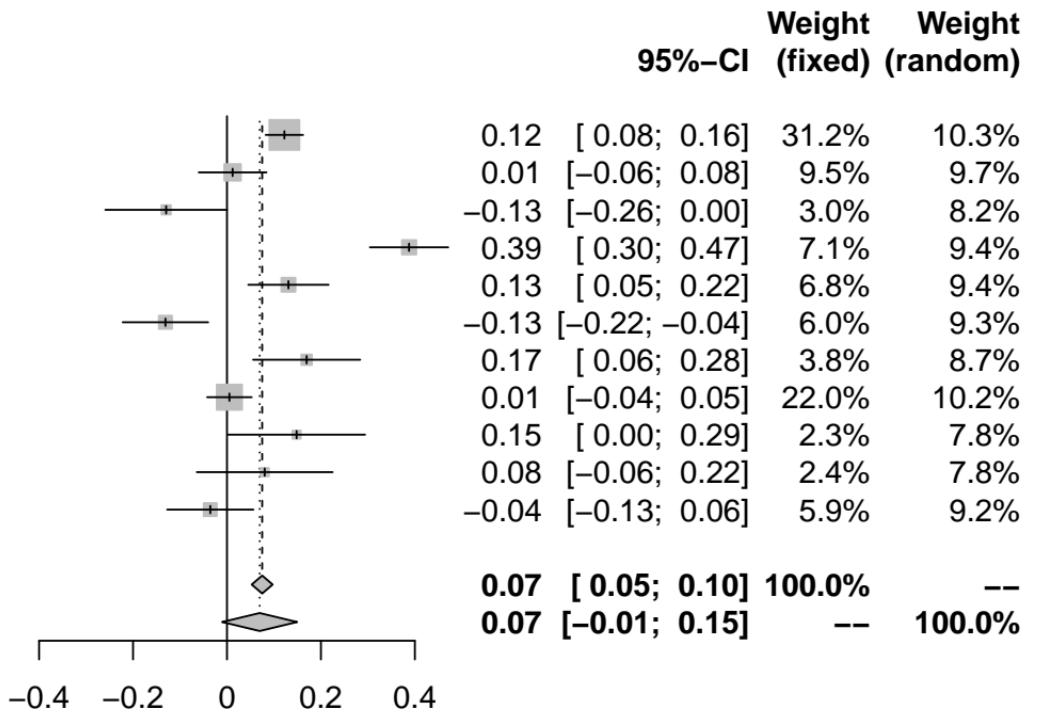
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (445)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

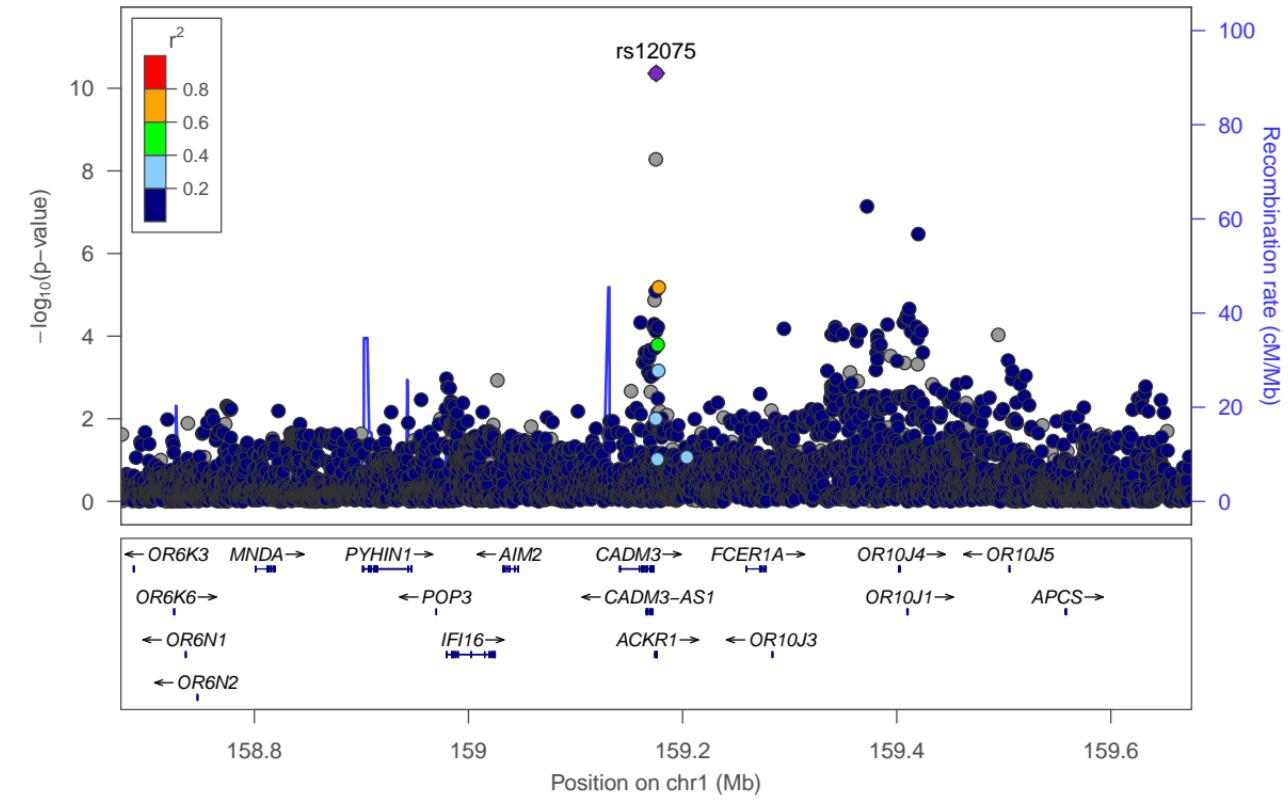
TE seTE

0.12 0.0204  
0.01 0.0368  
-0.13 0.0661  
0.39 0.0426  
0.13 0.0437  
-0.13 0.0464  
0.17 0.0582  
0.01 0.0242  
0.15 0.0744  
0.08 0.0738  
-0.04 0.0469

CCL11 [chr1:159175354\_A\_G (rs12075) (A/G) N=14731]



CCL11 (CCL11)-rs12075

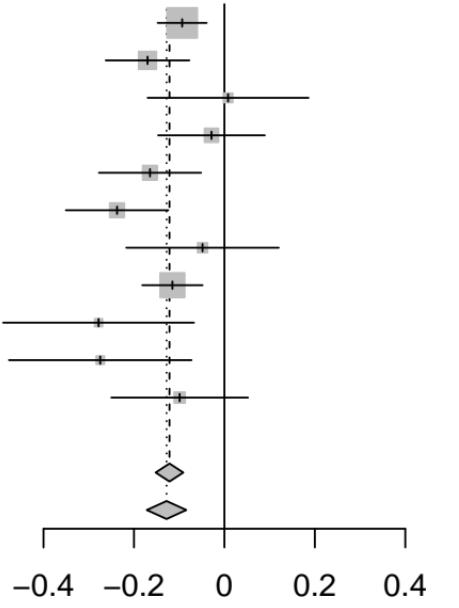


**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (434)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

**CCL11 [chr17:32619052\_C\_T (rs79722574) (T/C) N=14720]****TE seTE**

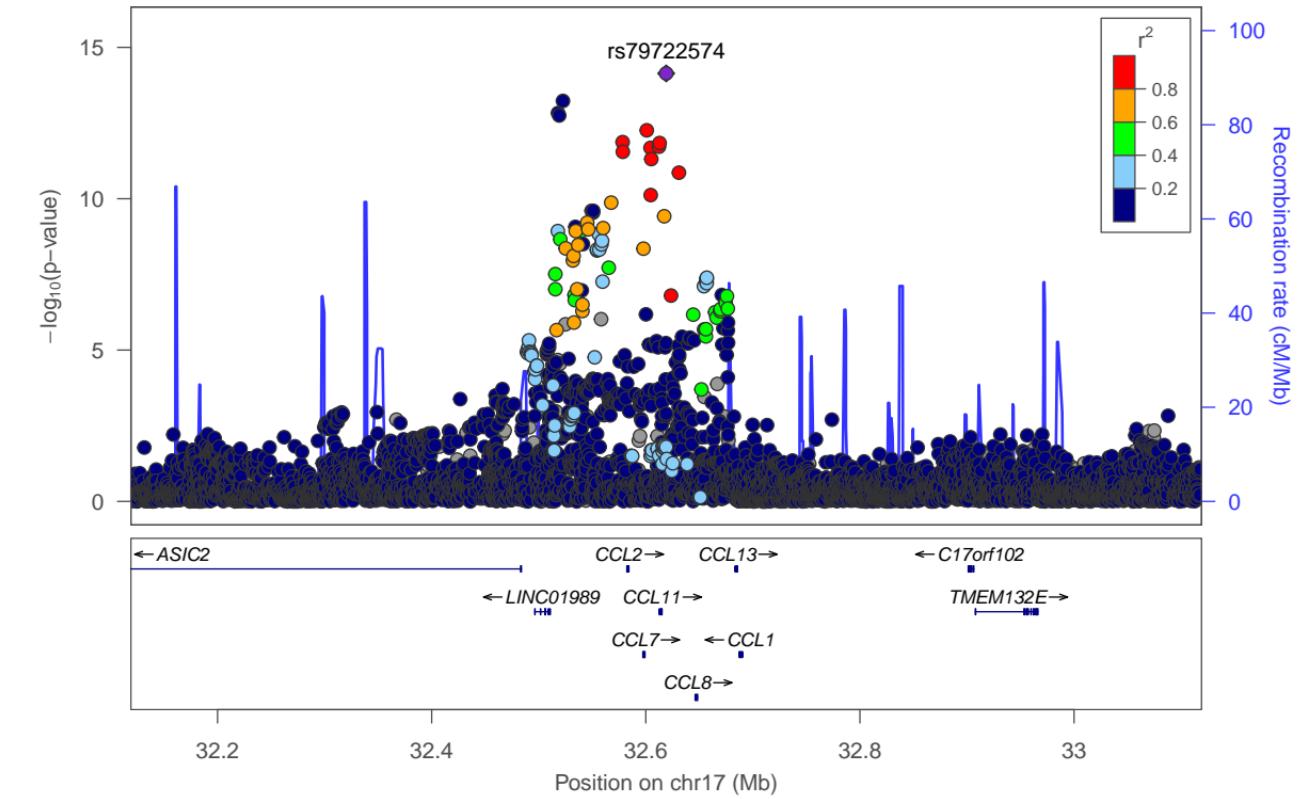
-0.09 0.0277  
-0.17 0.0472  
0.01 0.0908  
-0.03 0.0602  
-0.16 0.0576  
-0.24 0.0578  
-0.05 0.0860  
-0.11 0.0340  
-0.28 0.1077  
-0.27 0.1030  
-0.10 0.0772



Heterogeneity:  $I^2 = 38\%$ ,  $\tau^2 = 0.0019$ ,  $p = 0.09$

**Weight (fixed) Weight (random)**

-0.09 [-0.15; -0.04] 31.9% 18.9%  
-0.17 [-0.26; -0.08] 10.9% 12.1%  
0.01 [-0.17; 0.19] 3.0% 4.9%  
-0.03 [-0.15; 0.09] 6.7% 9.0%  
-0.16 [-0.28; -0.05] 7.3% 9.6%  
-0.24 [-0.35; -0.12] 7.3% 9.5%  
-0.05 [-0.22; 0.12] 3.3% 5.4%  
-0.11 [-0.18; -0.05] 21.1% 16.5%  
-0.28 [-0.49; -0.07] 2.1% 3.7%  
-0.27 [-0.48; -0.07] 2.3% 4.0%  
-0.10 [-0.25; 0.05] 4.1% 6.4%

**CCL11 (CCL11)-rs79722574**

**Study**

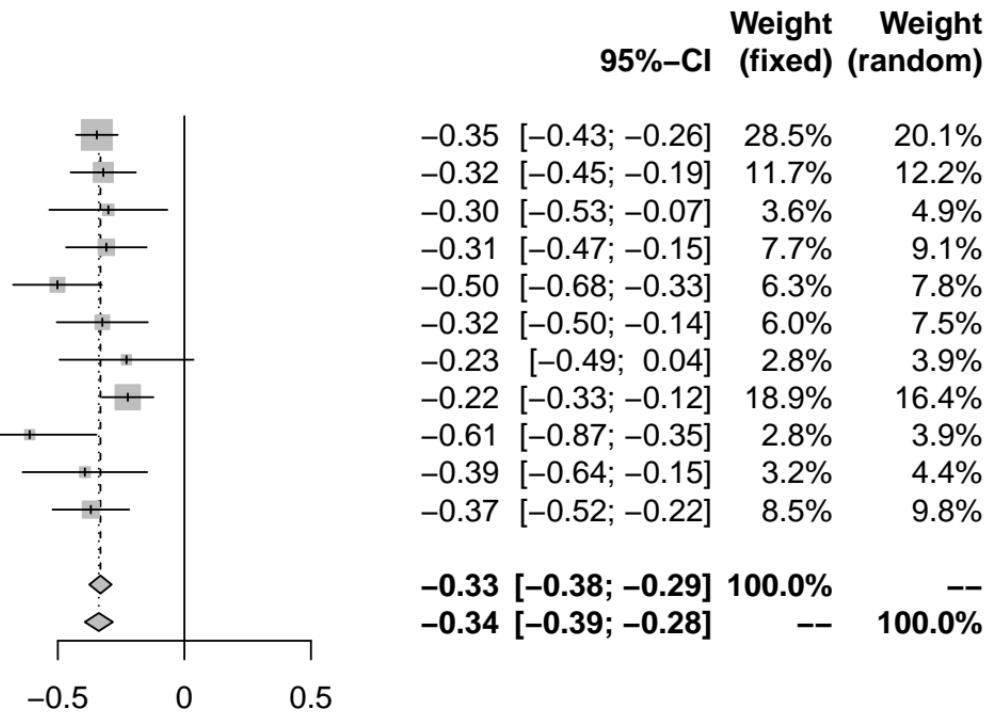
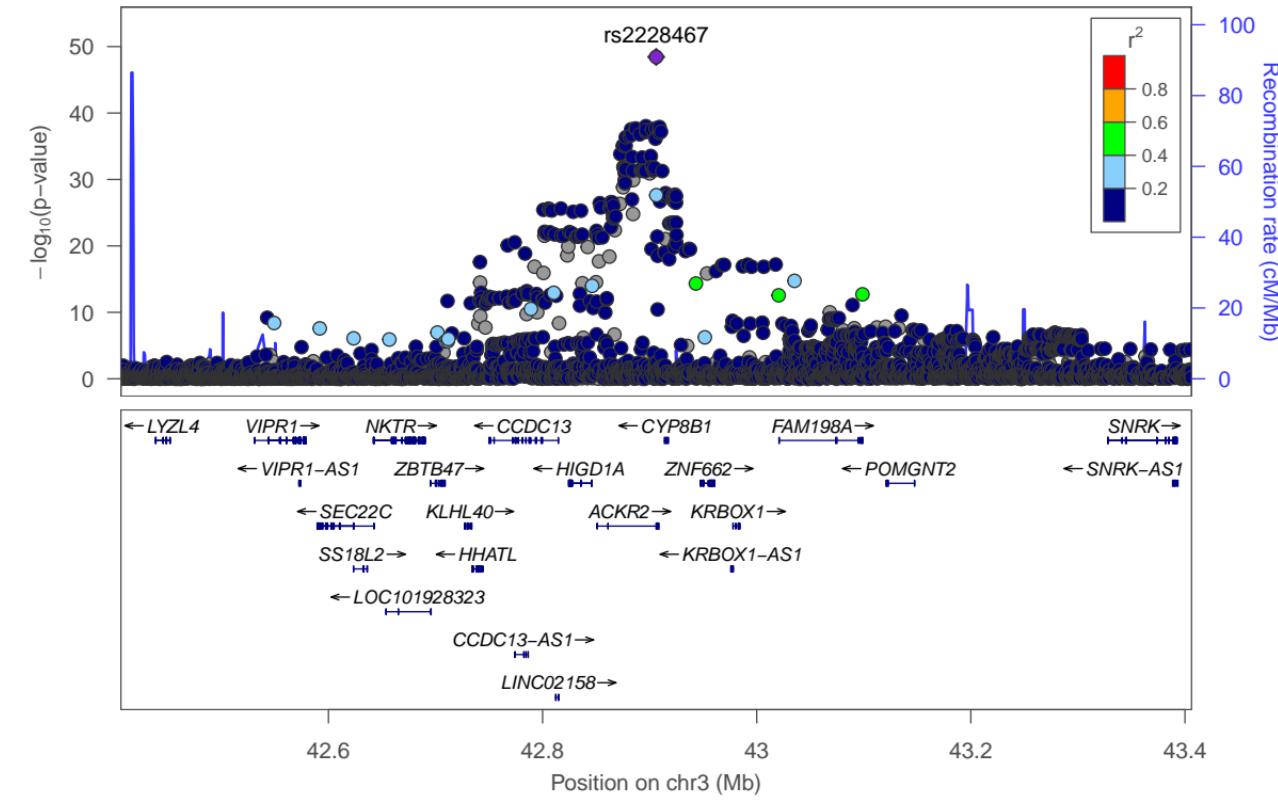
INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (447)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

**TE seTE**

-0.35 0.0421  
-0.32 0.0658  
-0.30 0.1189  
-0.31 0.0813  
-0.50 0.0893  
-0.32 0.0917  
-0.23 0.1350  
-0.22 0.0518  
-0.61 0.1343  
-0.39 0.1255  
-0.37 0.0773

**Fixed effect model****Random effects model**

Heterogeneity:  $I^2 = 27\%$ ,  $\tau^2 = 0.0022$ ,  $p = 0.19$

**CCL11 [chr3:42906116\_C\_T (rs2228467) (T/C) N=14733]****CCL11 (CCL11)-rs2228467**

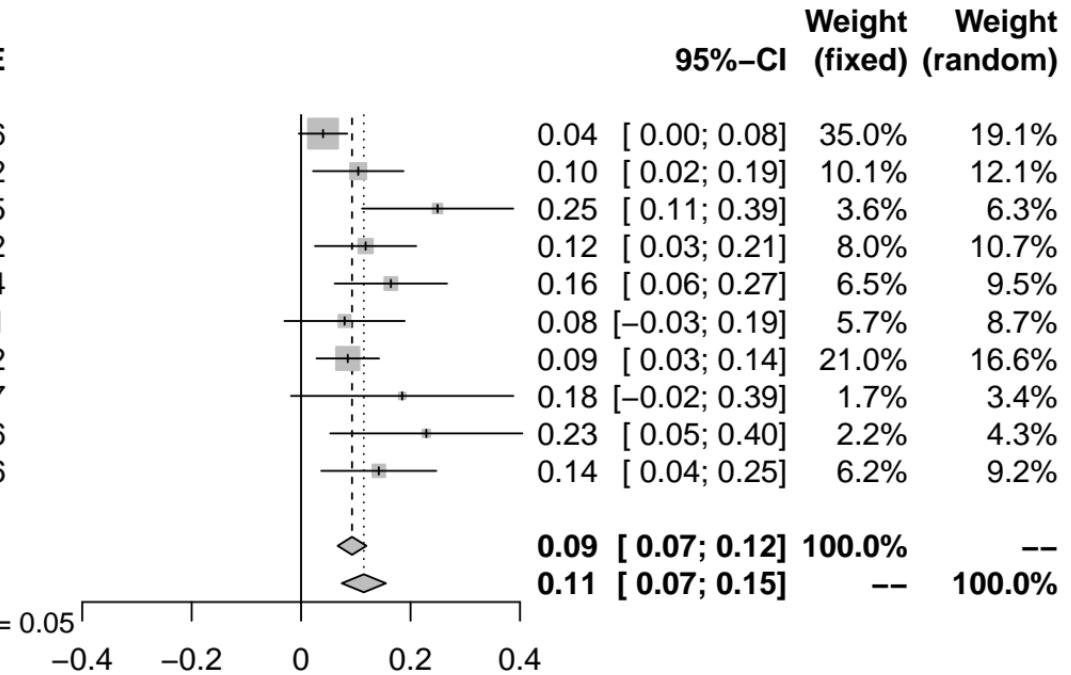
CCL11 [chr3:46250348\_C\_T (rs1491961) (T/C) N=14286]

Study	TE	seTE
INTERVAL (4896)	0.04	0.0226
BioFinder (1496)	0.10	0.0422
EGCUT (487)	0.25	0.0705
KORA (1064)	0.12	0.0472
NSPHS (866)	0.16	0.0524
ORCADES (981)	0.08	0.0561
STABILITY (2951)	0.09	0.0292
STANLEY (344)	0.18	0.1037
STANLEY (300)	0.23	0.0896
VIS (901)	0.14	0.0536

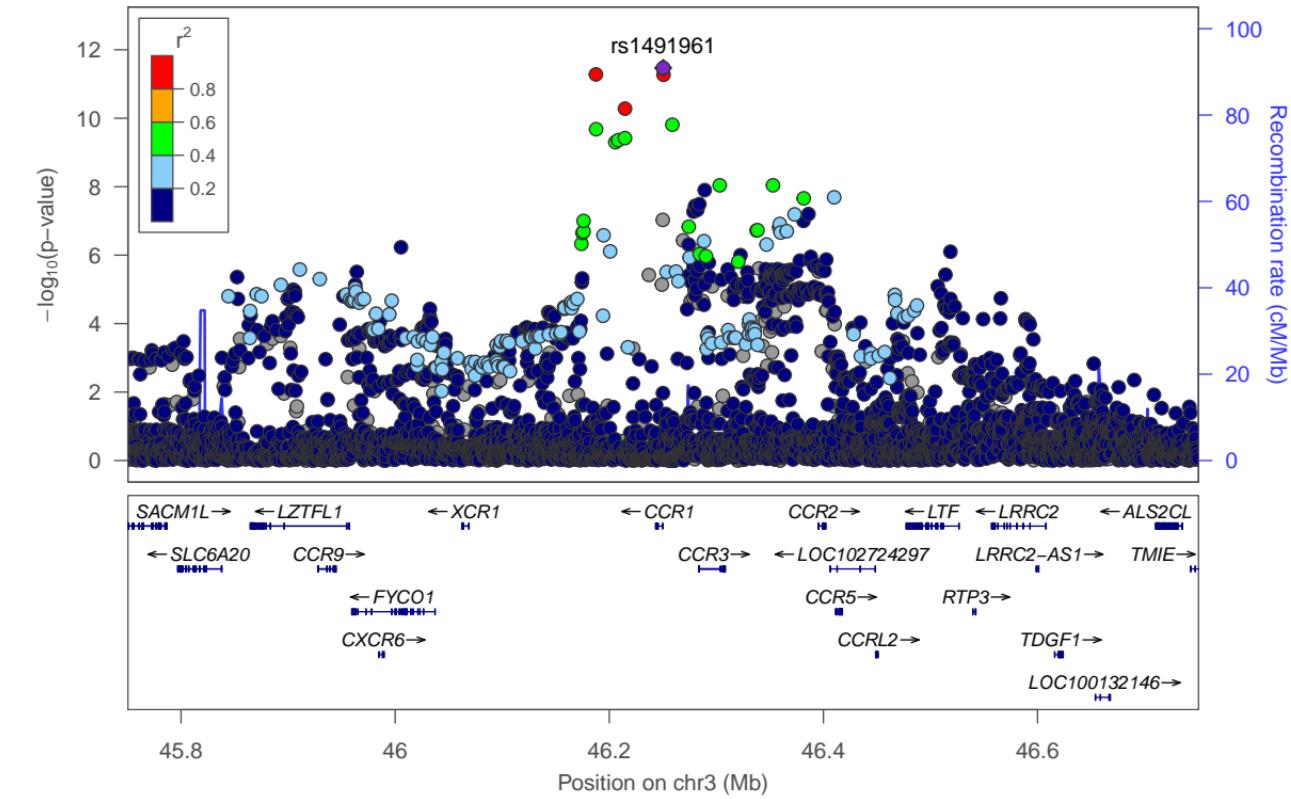
Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 46\%$ ,  $\tau^2 = 0.0017$ ,  $p = 0.05$



# CCL11 (CCL11)-rs1491961



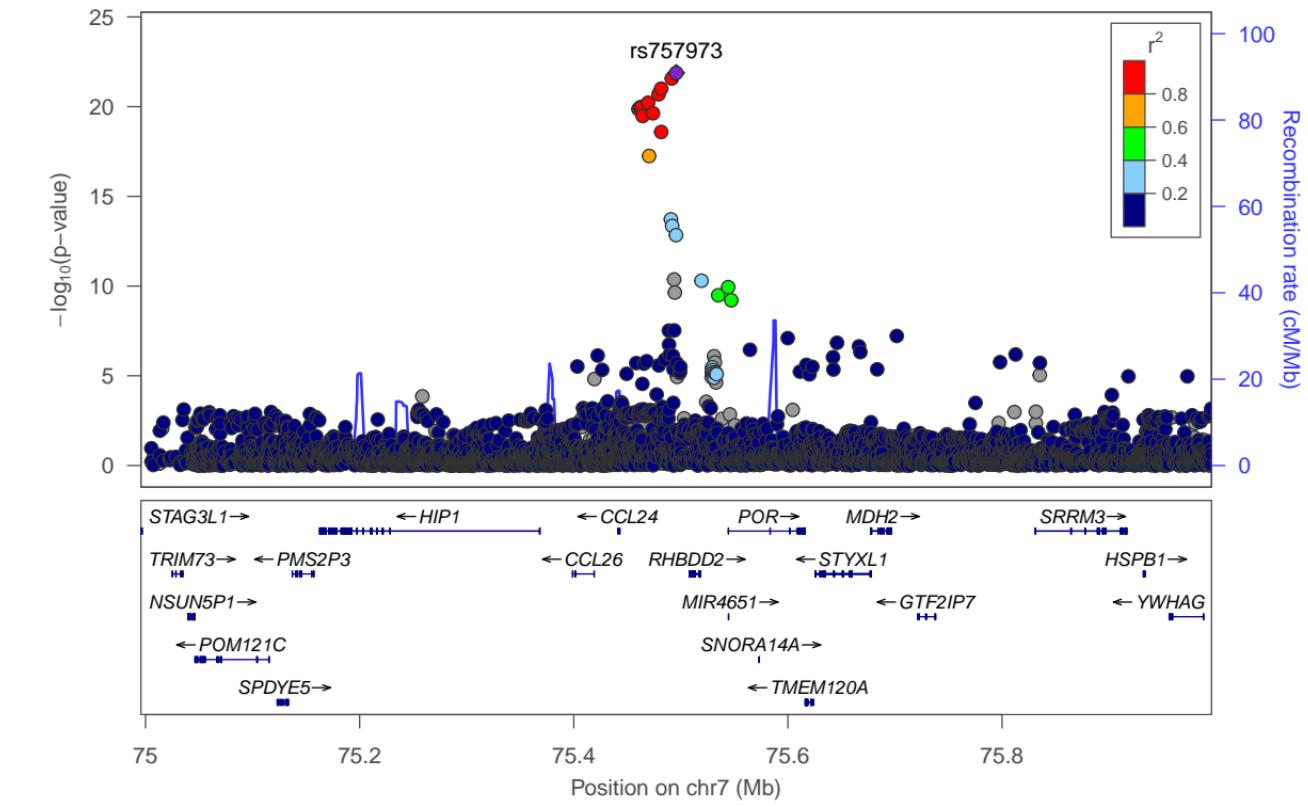
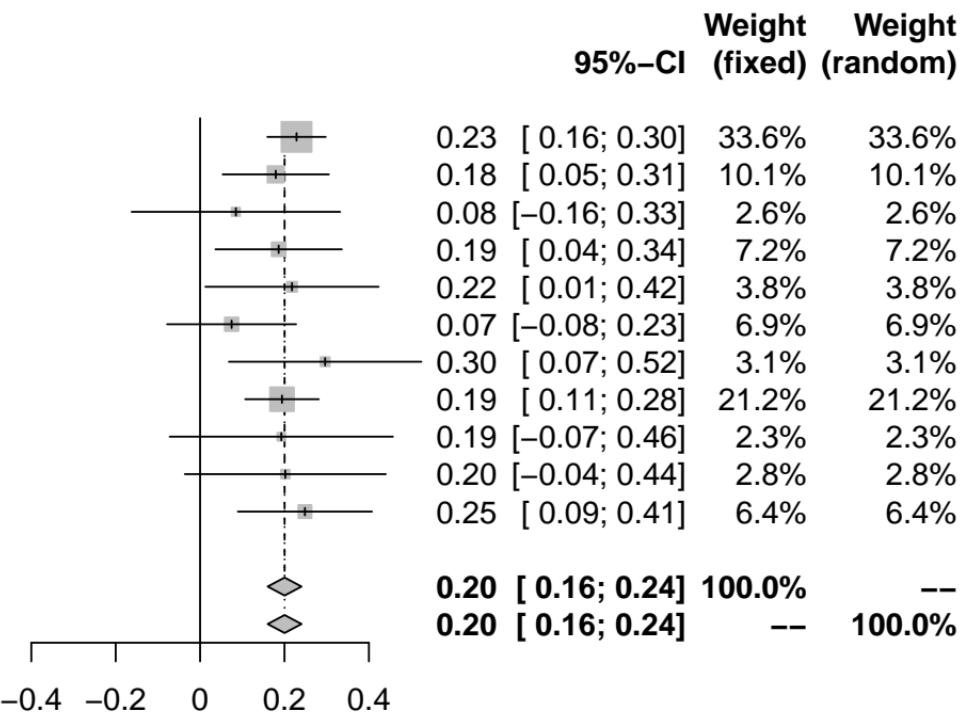
## CCL11 (CCL11)-rs757973

CCL11 [chr7:75495667\_A\_G (rs757973) (A/G) N=14713]

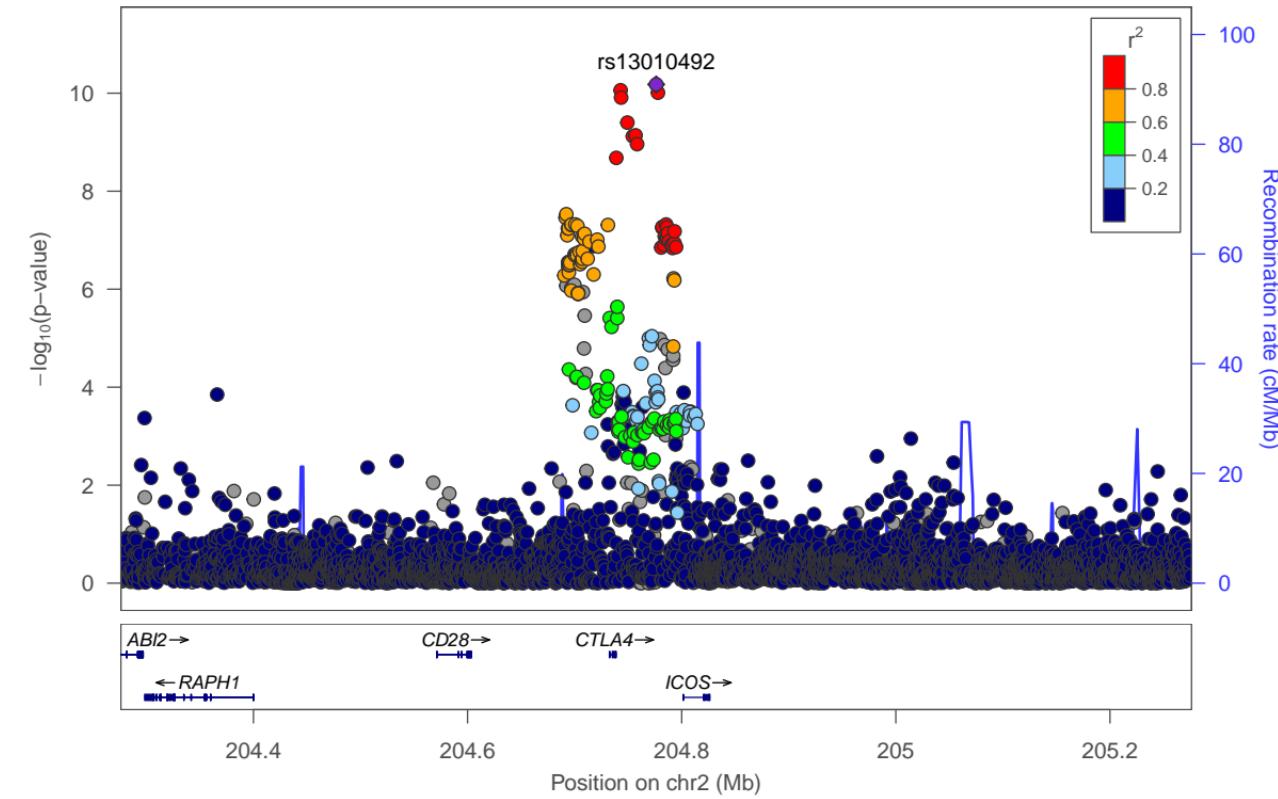
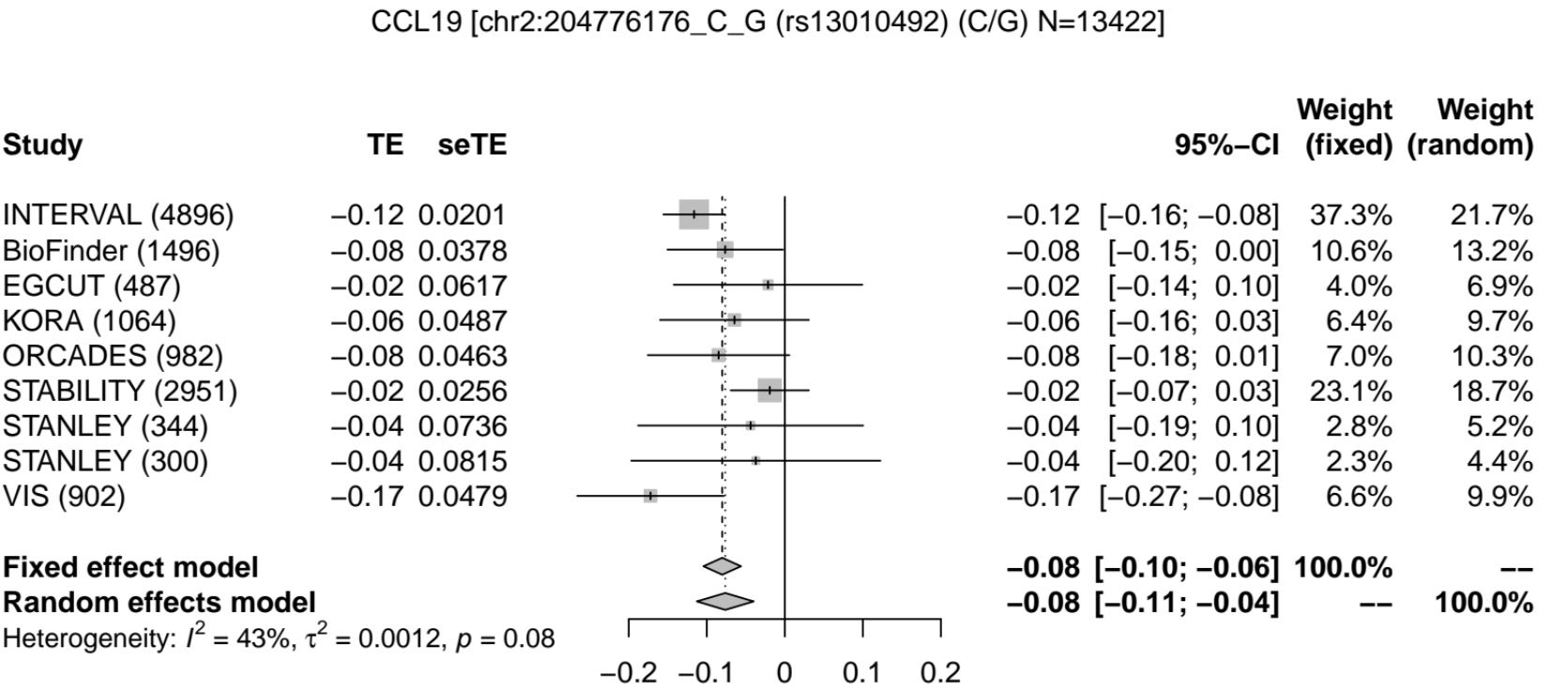
### Study

	TE	seTE
INTERVAL (4896)	0.23	0.0353
BioFinder (1496)	0.18	0.0643
EGCUT (487)	0.08	0.1261
KORA (1064)	0.19	0.0764
NSPHS (866)	0.22	0.1048
ORCADES (981)	0.07	0.0780
RECOMBINE (427)	0.30	0.1164
STABILITY (2951)	0.19	0.0445
STANLEY (344)	0.19	0.1350
STANLEY (300)	0.20	0.1215
VIS (901)	0.25	0.0811

TE seTE

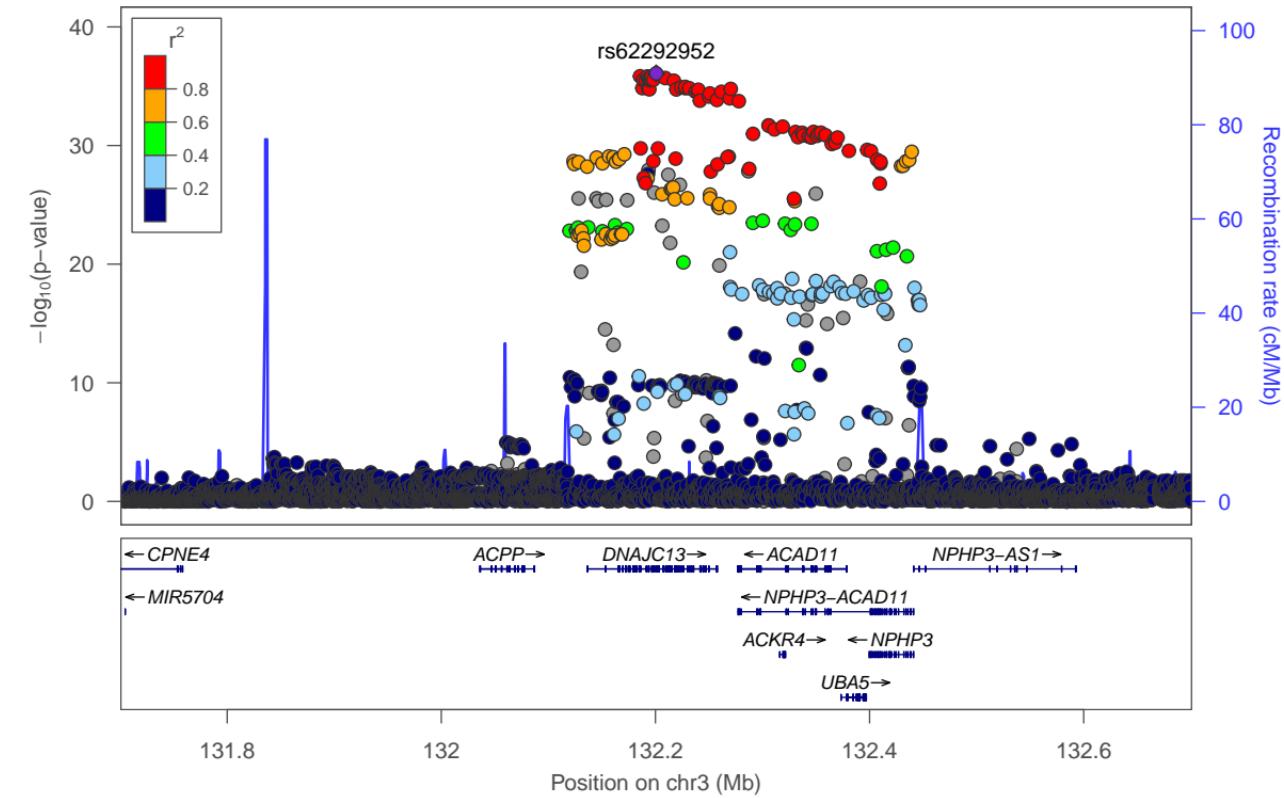
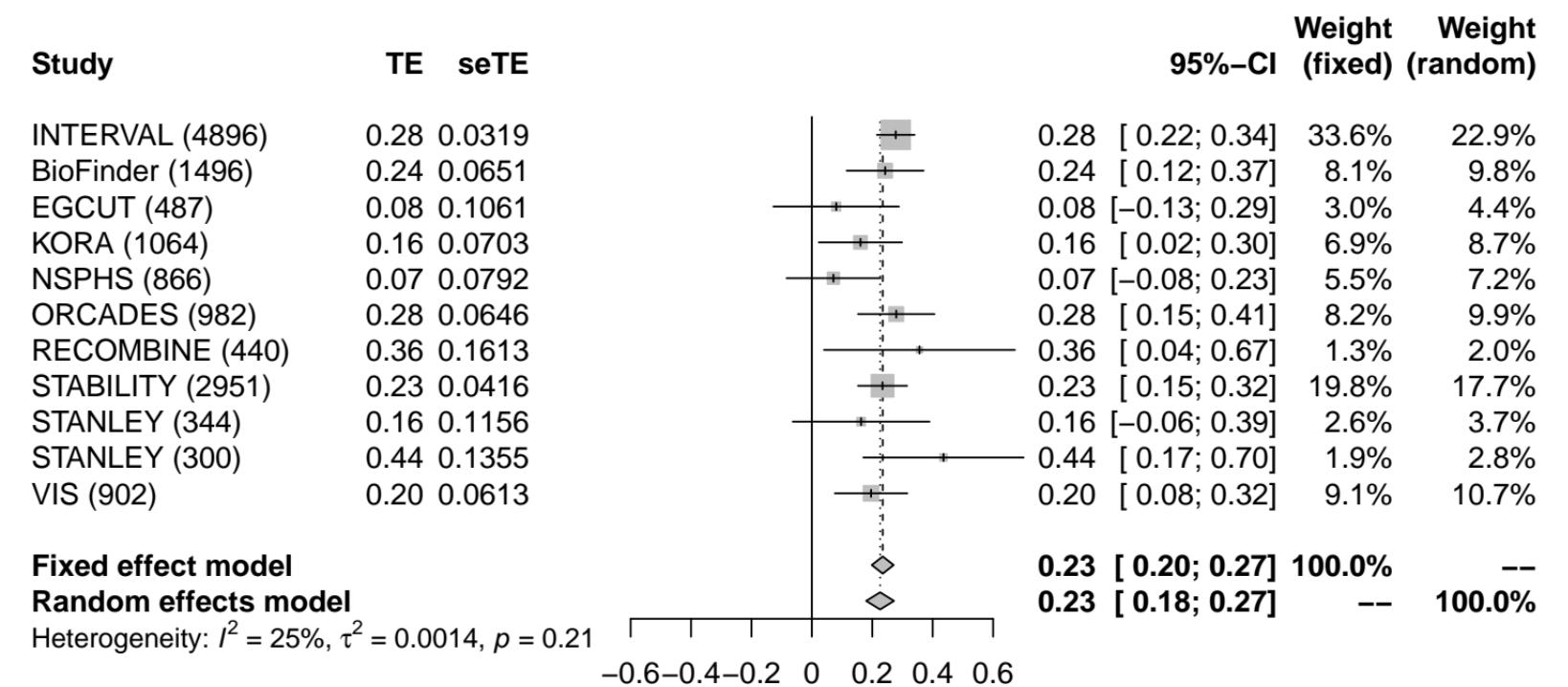


## CCL19 (CCL19)-rs13010492

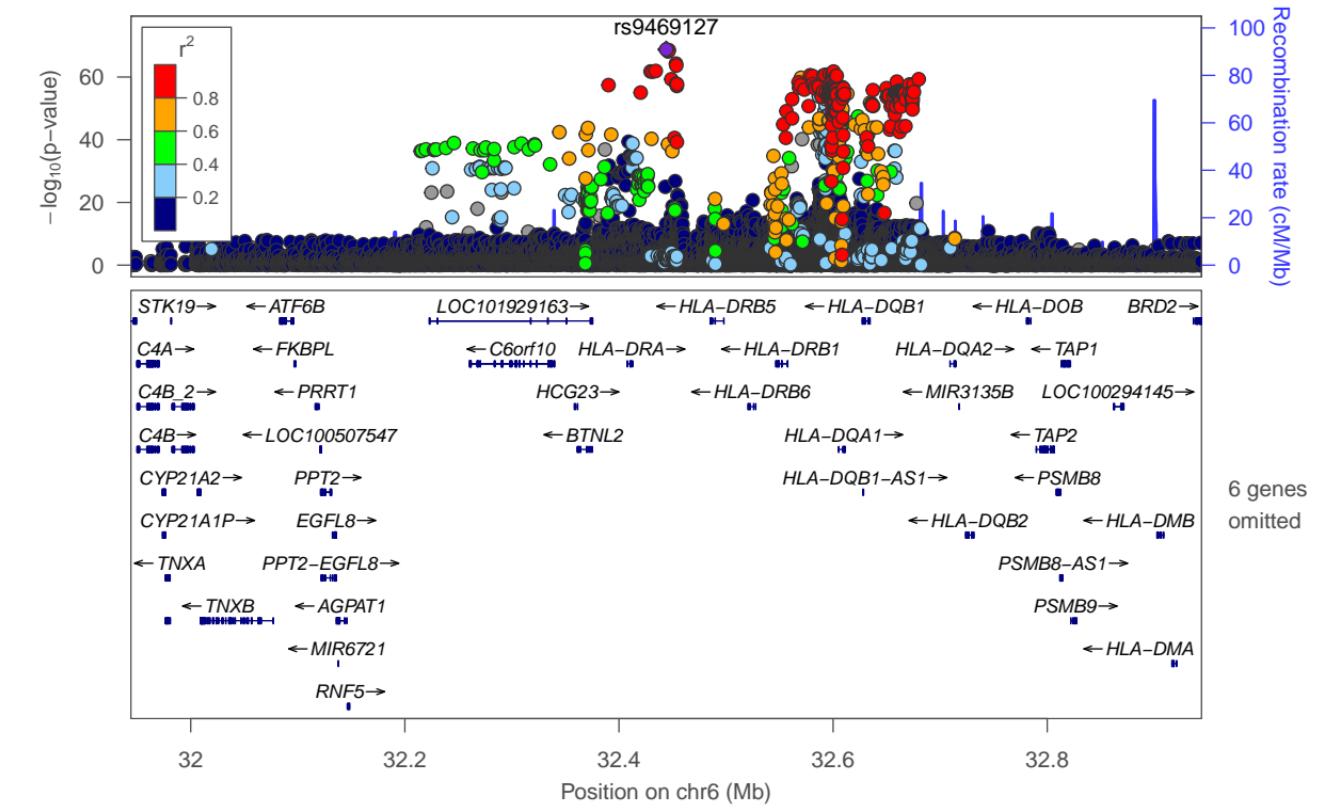
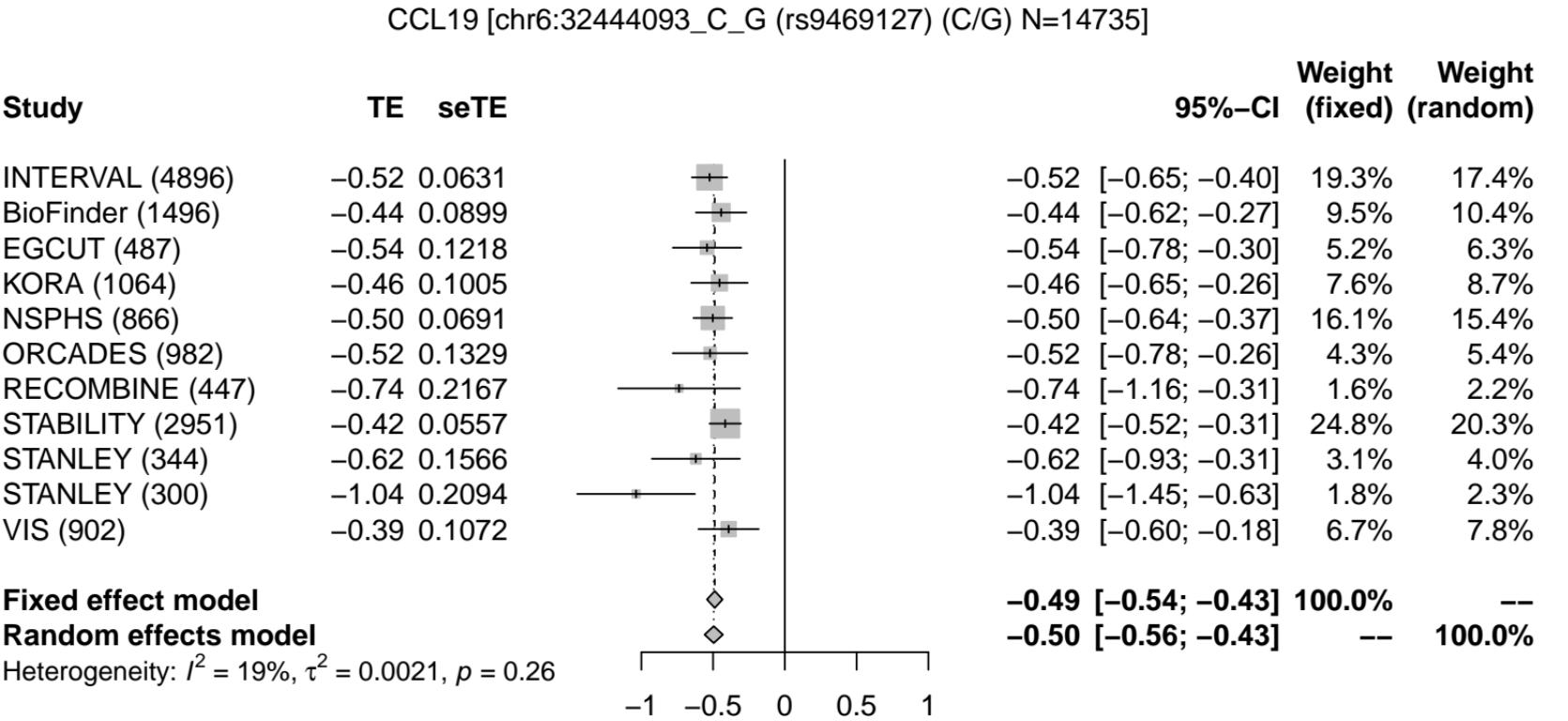


## CCL19 (CCL19)-rs62292952

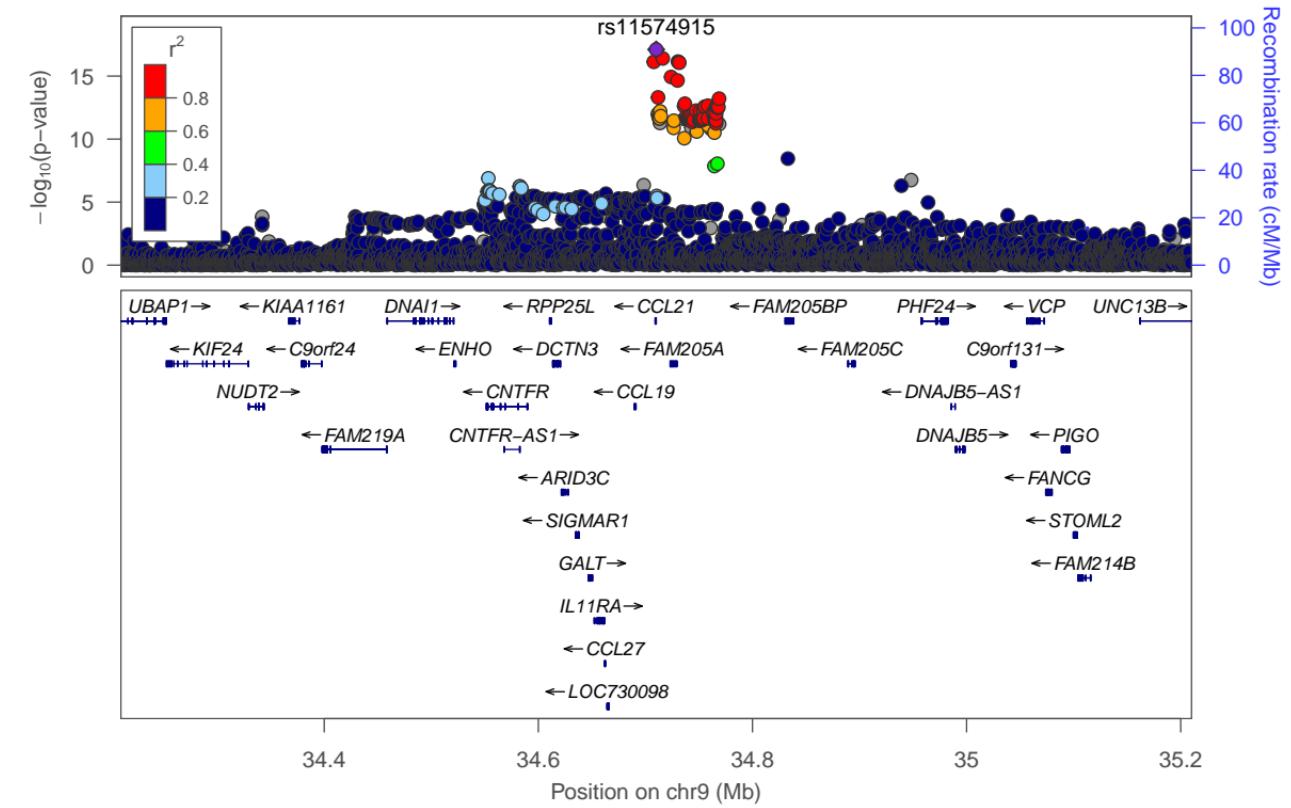
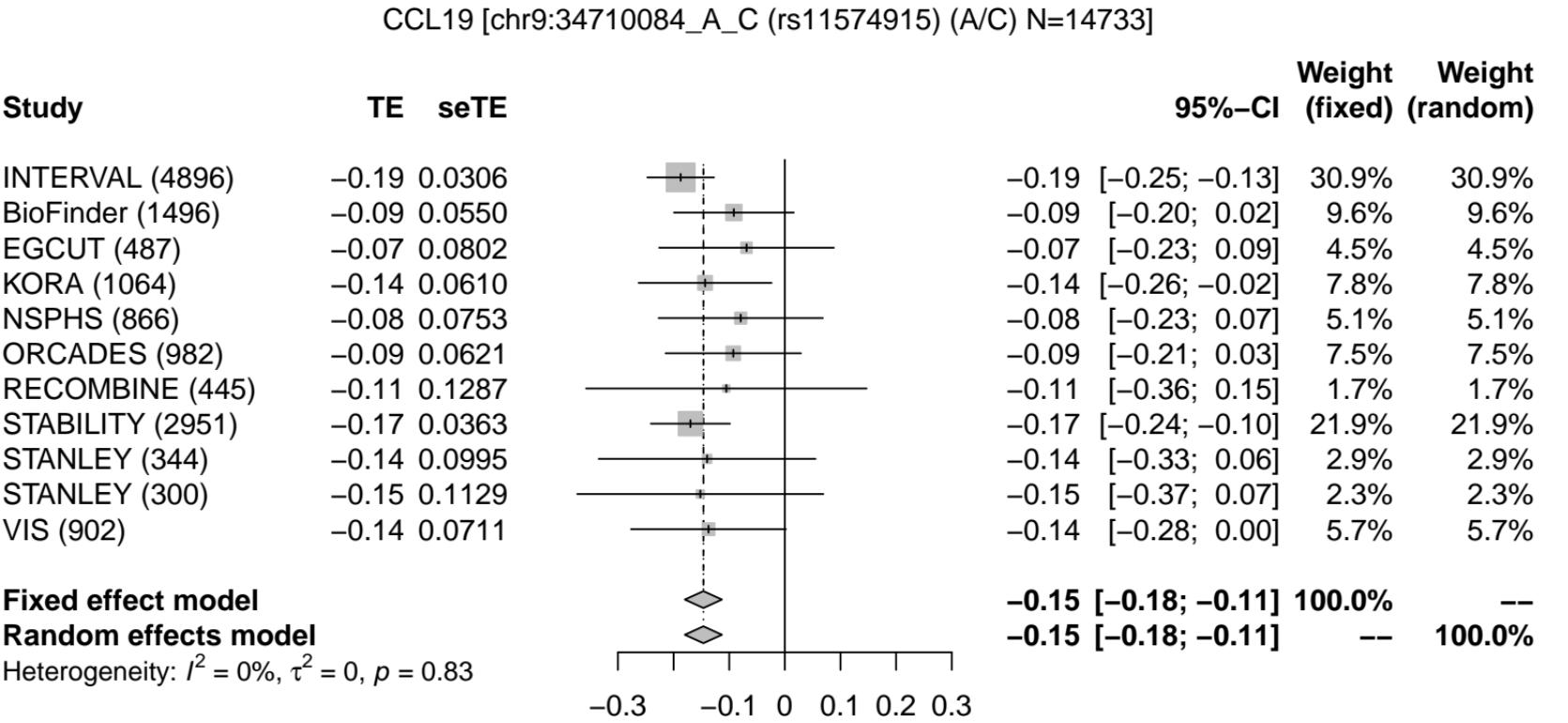
CCL19 [chr3:132200719\_G\_T (rs62292952) (T/G) N=14728]



## CCL19 (CCL19)-rs9469127



# CCL19 (CCL19)-rs11574915



# CCL20 (CCL20)-rs10207134

CCL20 [chr2:228661828\_C\_T (rs10207134) (T/C) N=14288]

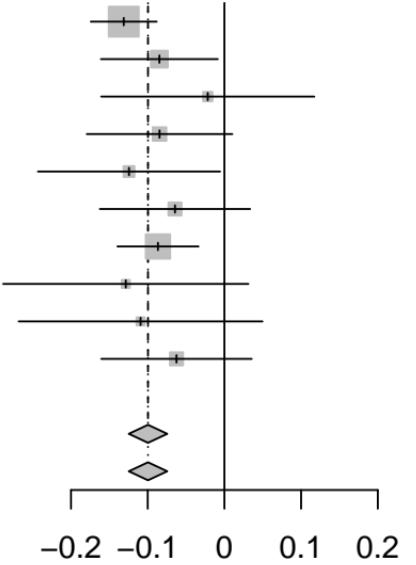
## Study

	TE	seTE
INTERVAL (4896)	-0.13	0.0219
BioFinder (1496)	-0.08	0.0389
EGCUT (487)	-0.02	0.0709
KORA (1064)	-0.08	0.0484
NSPHS (866)	-0.12	0.0606
ORCADES (982)	-0.06	0.0500
STABILITY (2951)	-0.09	0.0270
STANLEY (344)	-0.13	0.0816
STANLEY (300)	-0.11	0.0811
VIS (902)	-0.06	0.0500

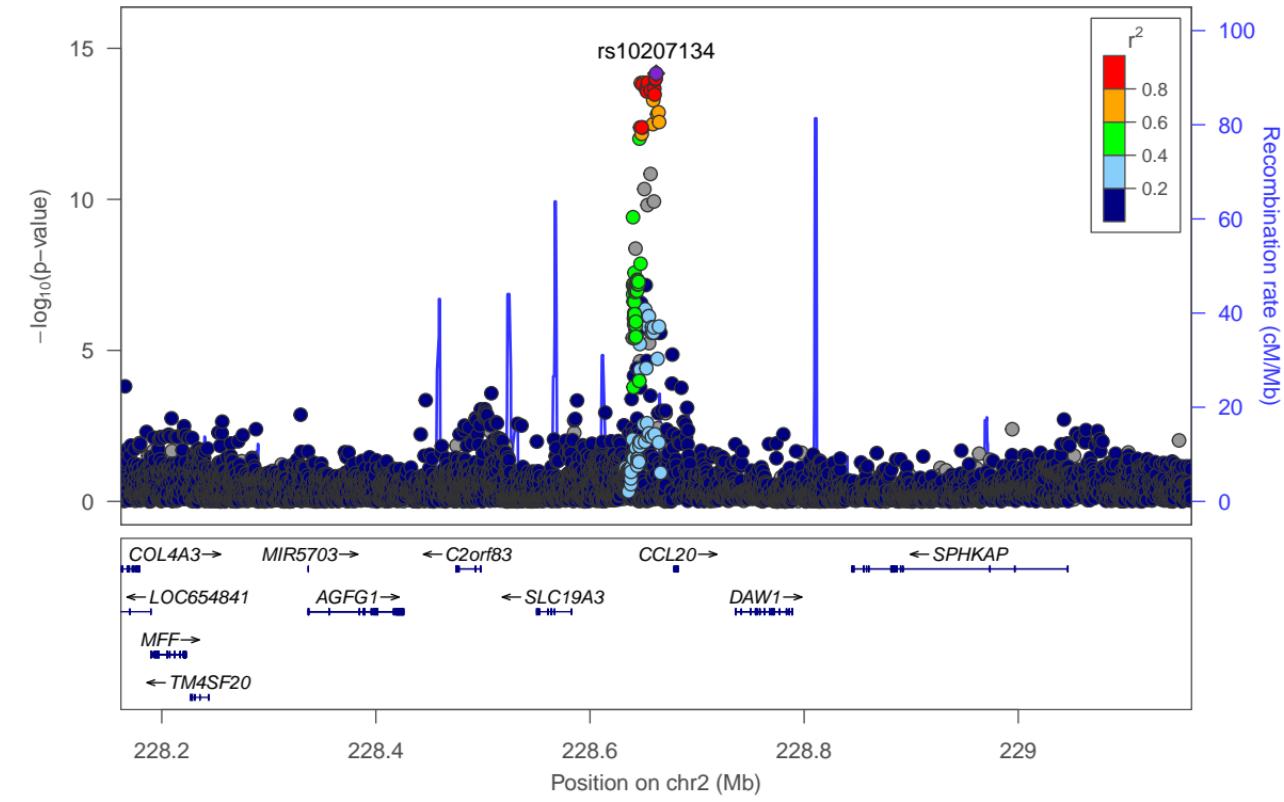
Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.82$



	95%-CI	Weight (fixed)	Weight (random)
	-0.13 [-0.17; -0.09]	34.0%	34.0%
	-0.08 [-0.16; -0.01]	10.8%	10.8%
	-0.02 [-0.16; 0.12]	3.3%	3.3%
	-0.08 [-0.18; 0.01]	7.0%	7.0%
	-0.12 [-0.24; -0.01]	4.5%	4.5%
	-0.06 [-0.16; 0.03]	6.5%	6.5%
	-0.09 [-0.14; -0.03]	22.5%	22.5%
	-0.13 [-0.29; 0.03]	2.5%	2.5%
	-0.11 [-0.27; 0.05]	2.5%	2.5%
	-0.06 [-0.16; 0.04]	6.5%	6.5%
	<b>-0.10 [-0.12; -0.07]</b>	<b>100.0%</b>	--
	<b>-0.10 [-0.12; -0.07]</b>	--	<b>100.0%</b>



## CCL20 (CCL20)-rs742493

CCL20 [chr6:40998167\_C\_T (rs742493) (T/C) N=14735]

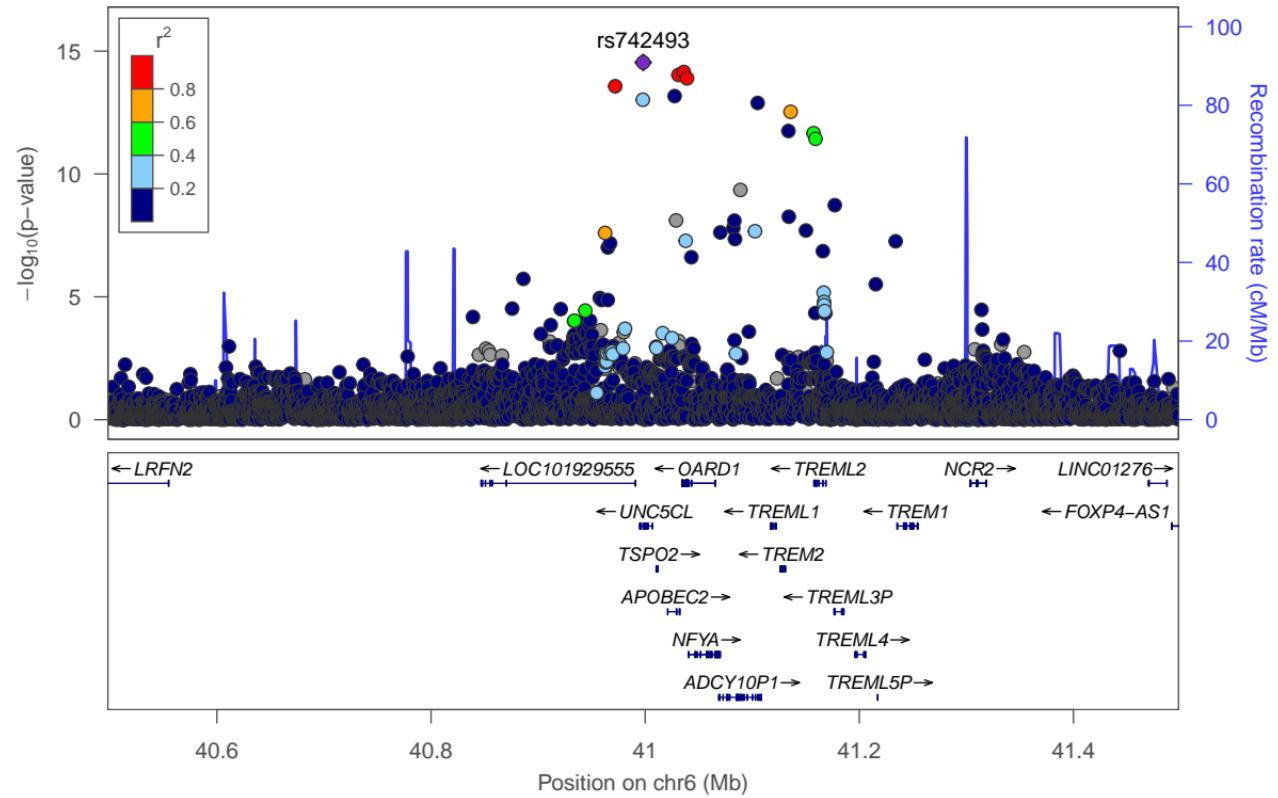
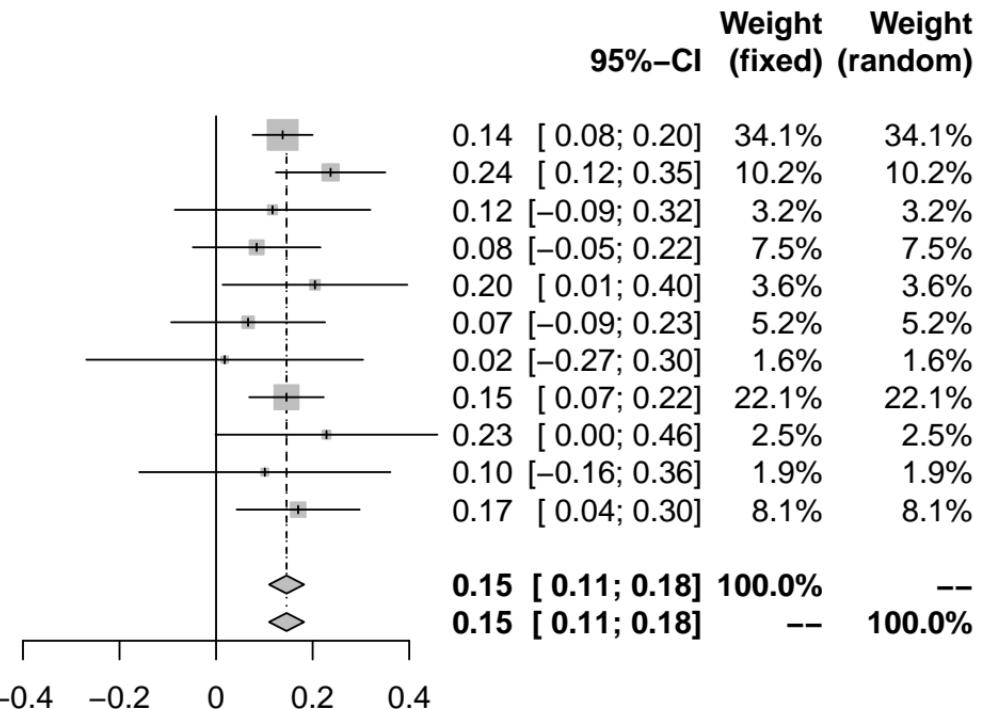
### Study

	TE	seTE
INTERVAL (4896)	0.14	0.0317
BioFinder (1496)	0.24	0.0578
EGCUT (487)	0.12	0.1033
KORA (1064)	0.08	0.0674
NSPHS (866)	0.20	0.0975
ORCADES (982)	0.07	0.0813
RECOMBINE (447)	0.02	0.1462
STABILITY (2951)	0.15	0.0393
STANLEY (344)	0.23	0.1172
STANLEY (300)	0.10	0.1327
VIS (902)	0.17	0.0650

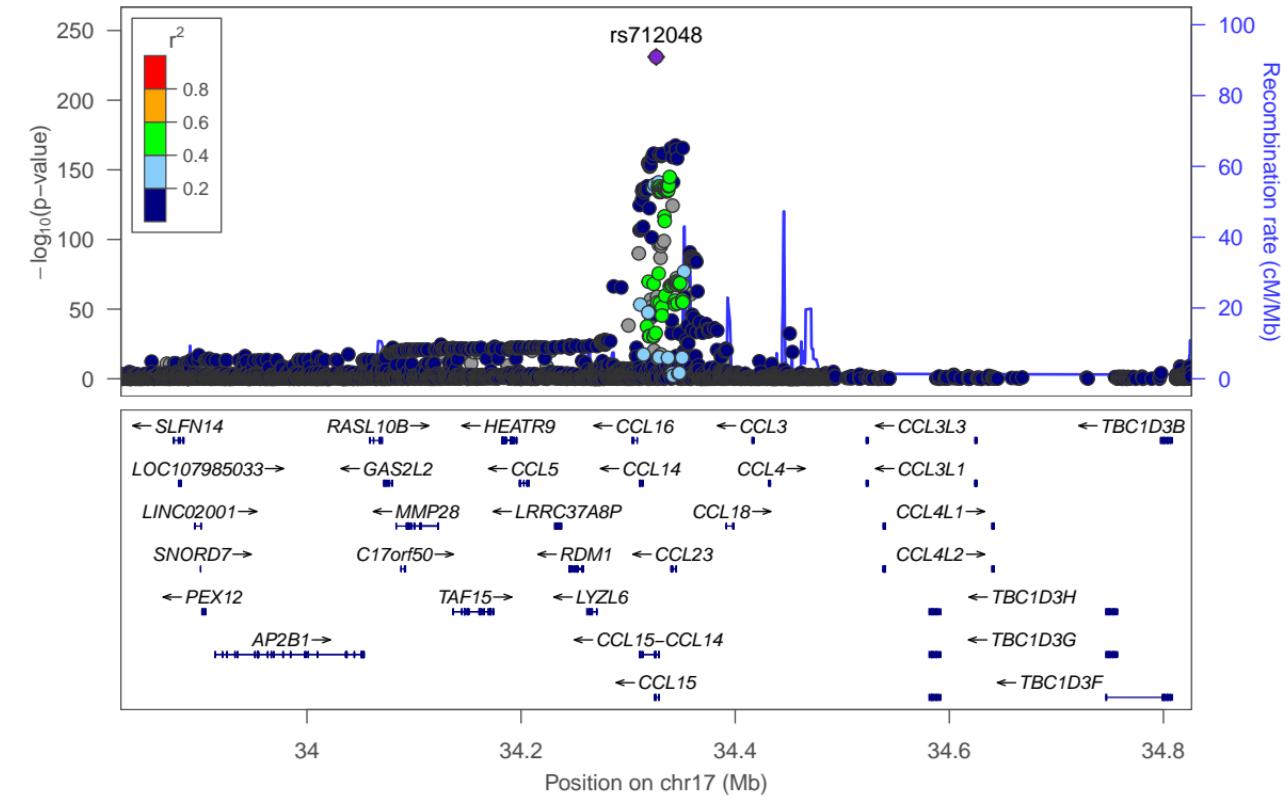
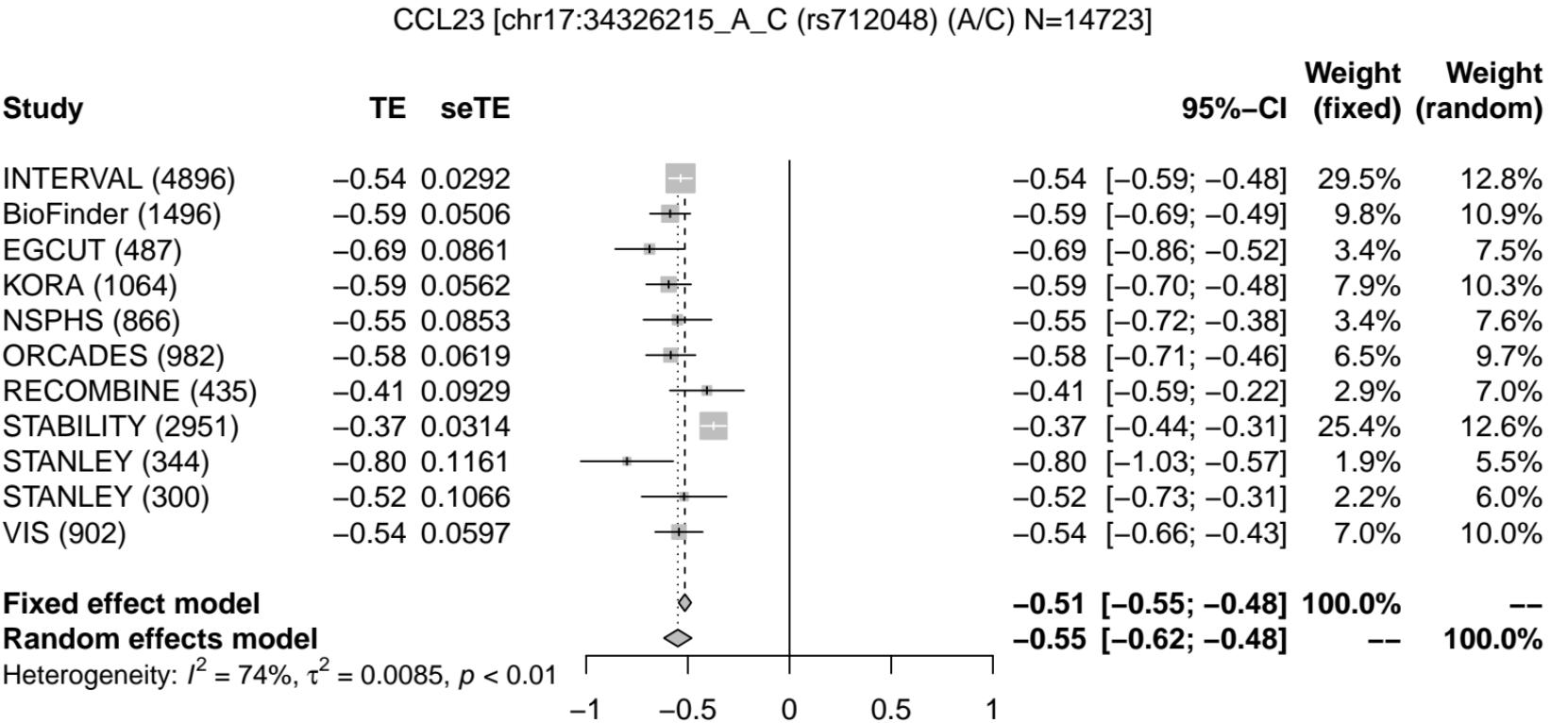
### Fixed effect model

### Random effects model

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.79$



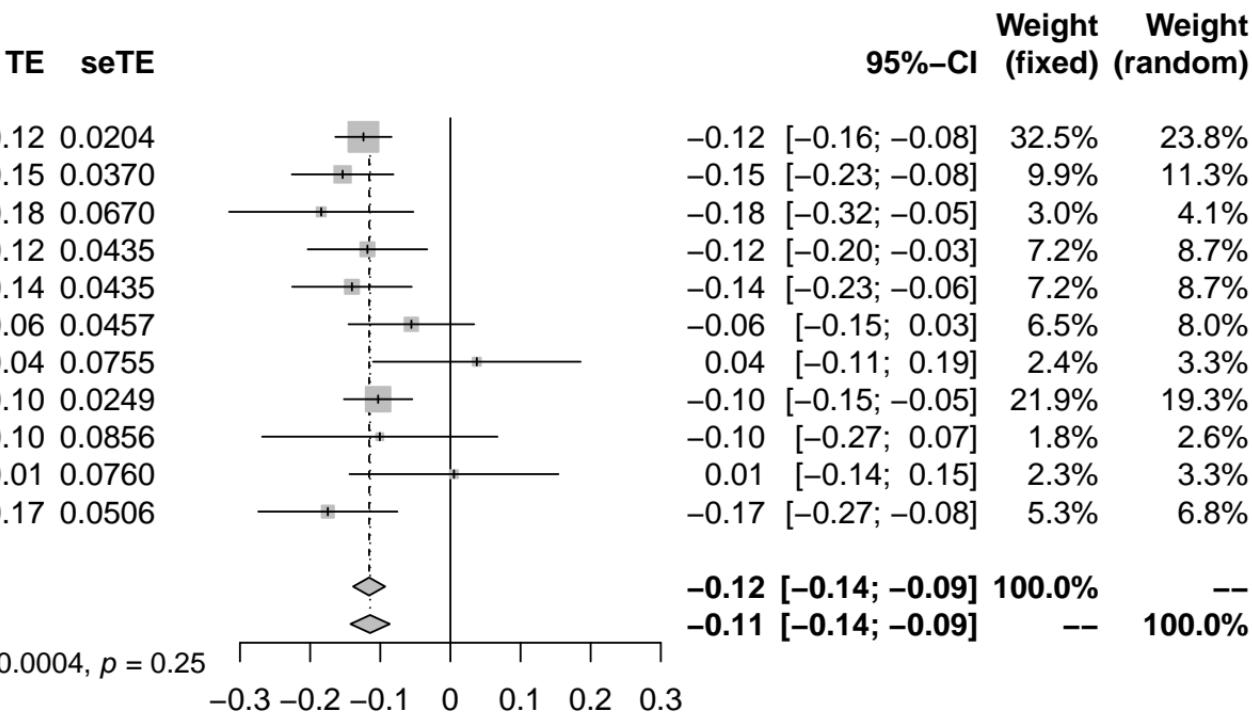
## CCL23 (CCL23)-rs712048



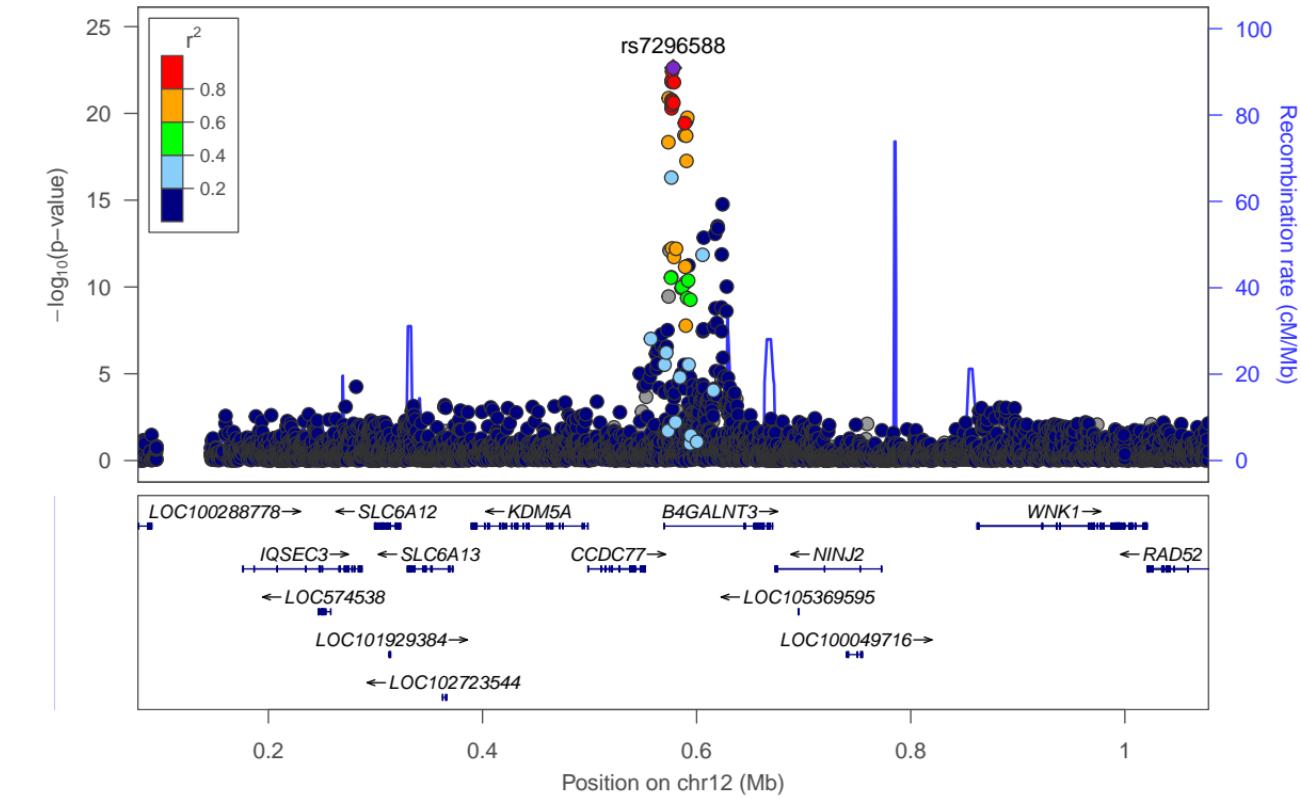
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (438)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

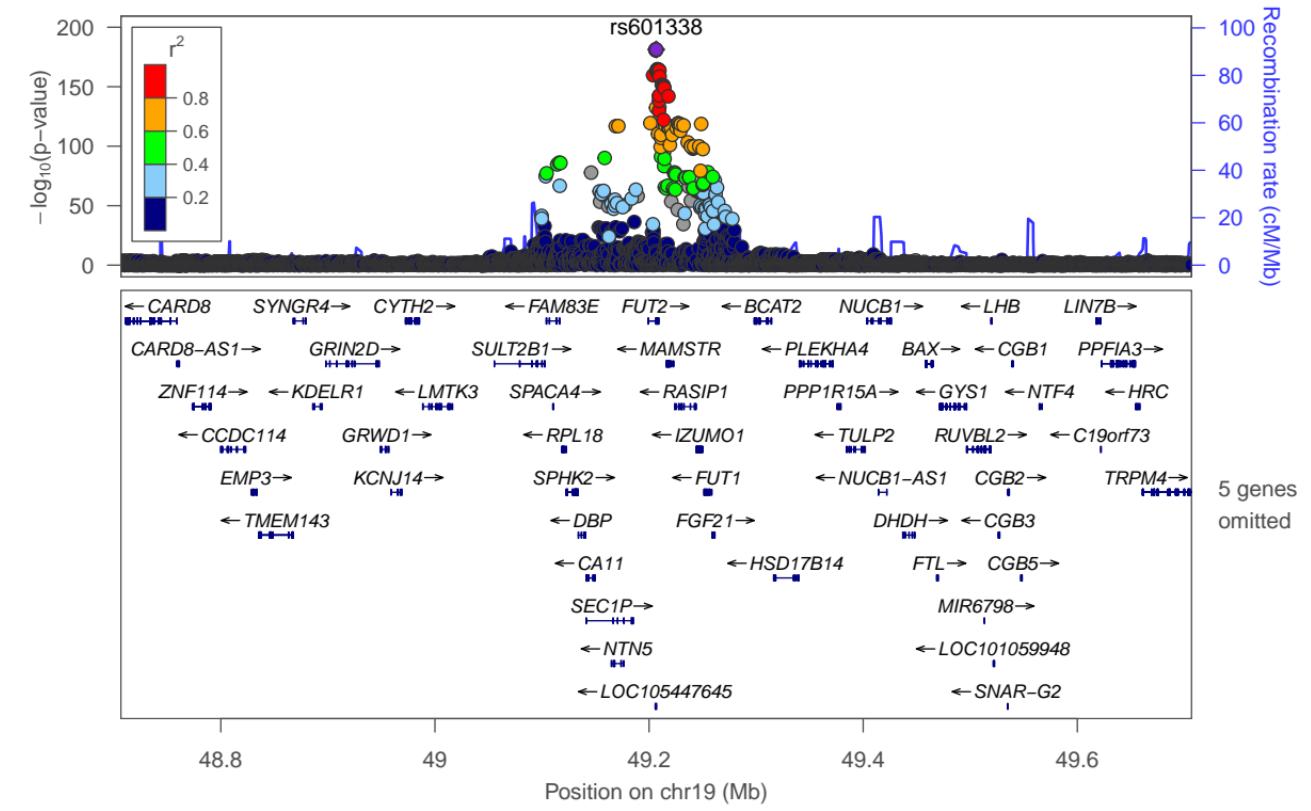
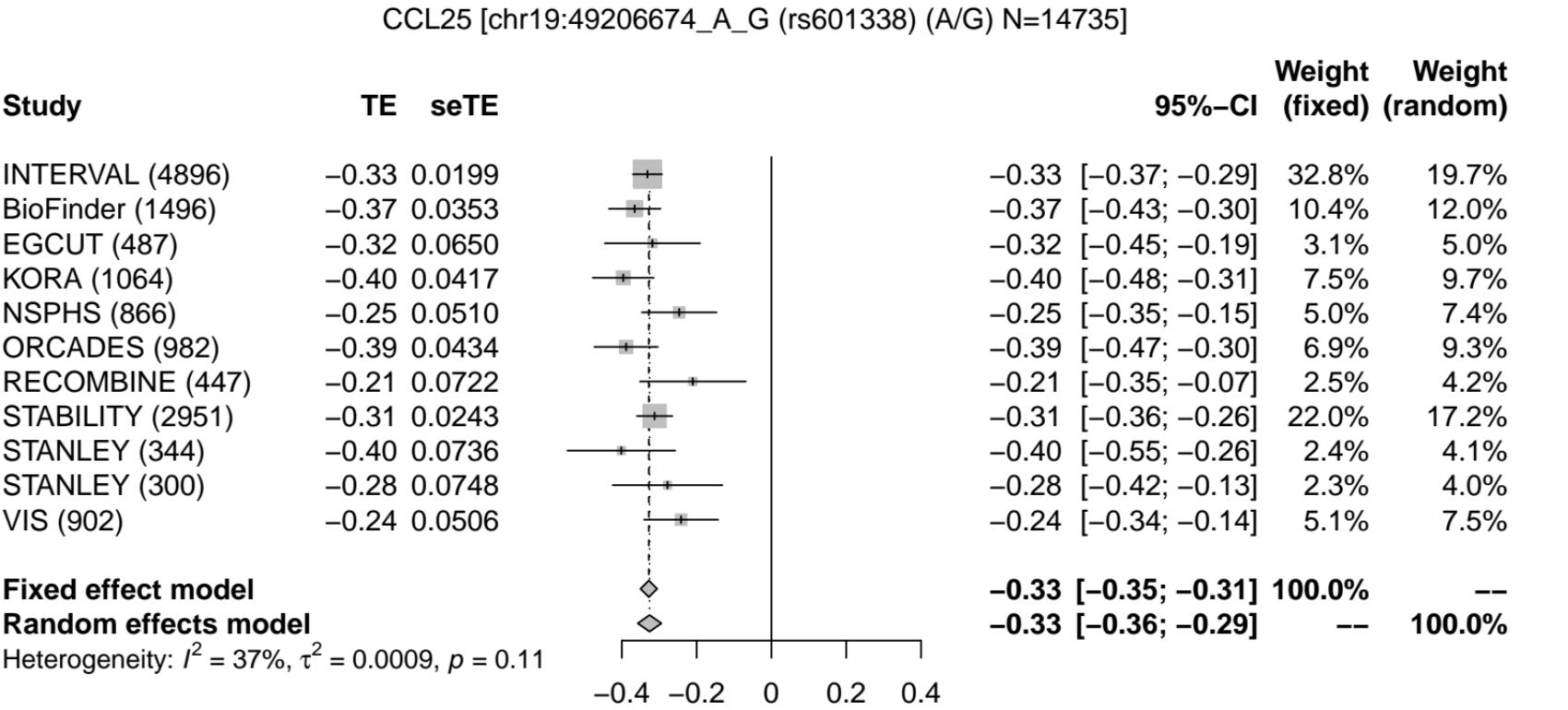
CCL25 [chr12:578100\_A\_G (rs7296588) (A/G) N=14726]



CCL25 (CCL25)-rs7296588

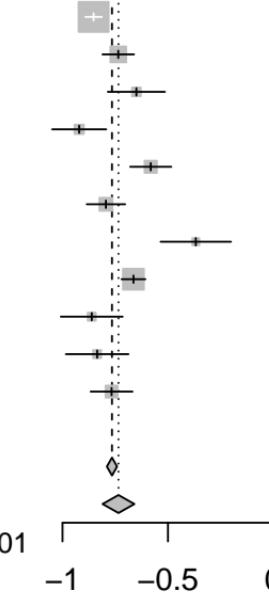


# CCL25 (CCL25)-rs601338



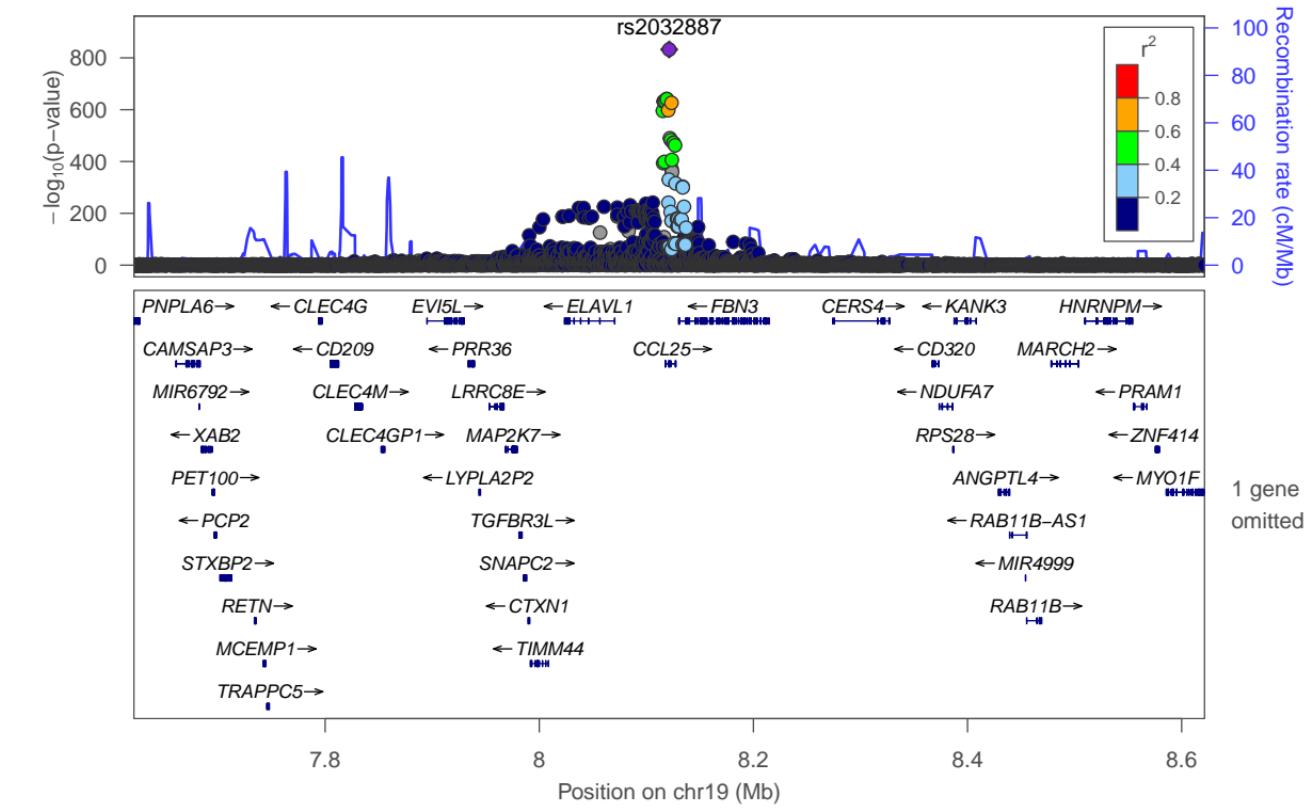
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (446)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

**CCL25 [chr19:8121360\_A\_G (rs2032887) (A/G) N=14734]****TE seTE**

**Fixed effect model**  
**Random effects model**  
Heterogeneity:  $I^2 = 87\%$ ,  $\tau^2 = 0.0132$ ,  $p < 0.01$

	95%-CI	Weight (fixed)	Weight (random)
TE	-0.77 [-0.79; -0.74]	100.0%	--
SE	-0.73 [-0.81; -0.66]	--	100.0%

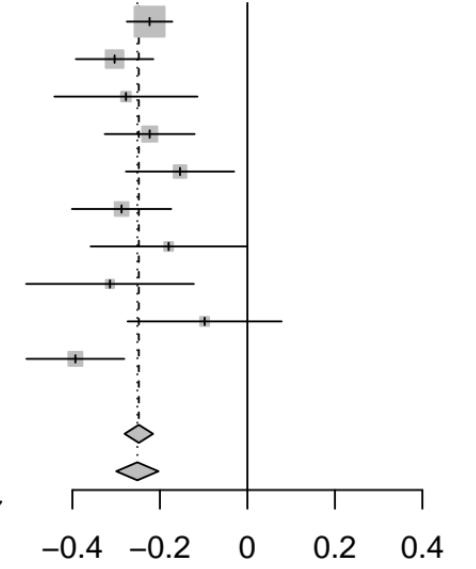
**CCL25 (CCL25)-rs2032887**

**Study**

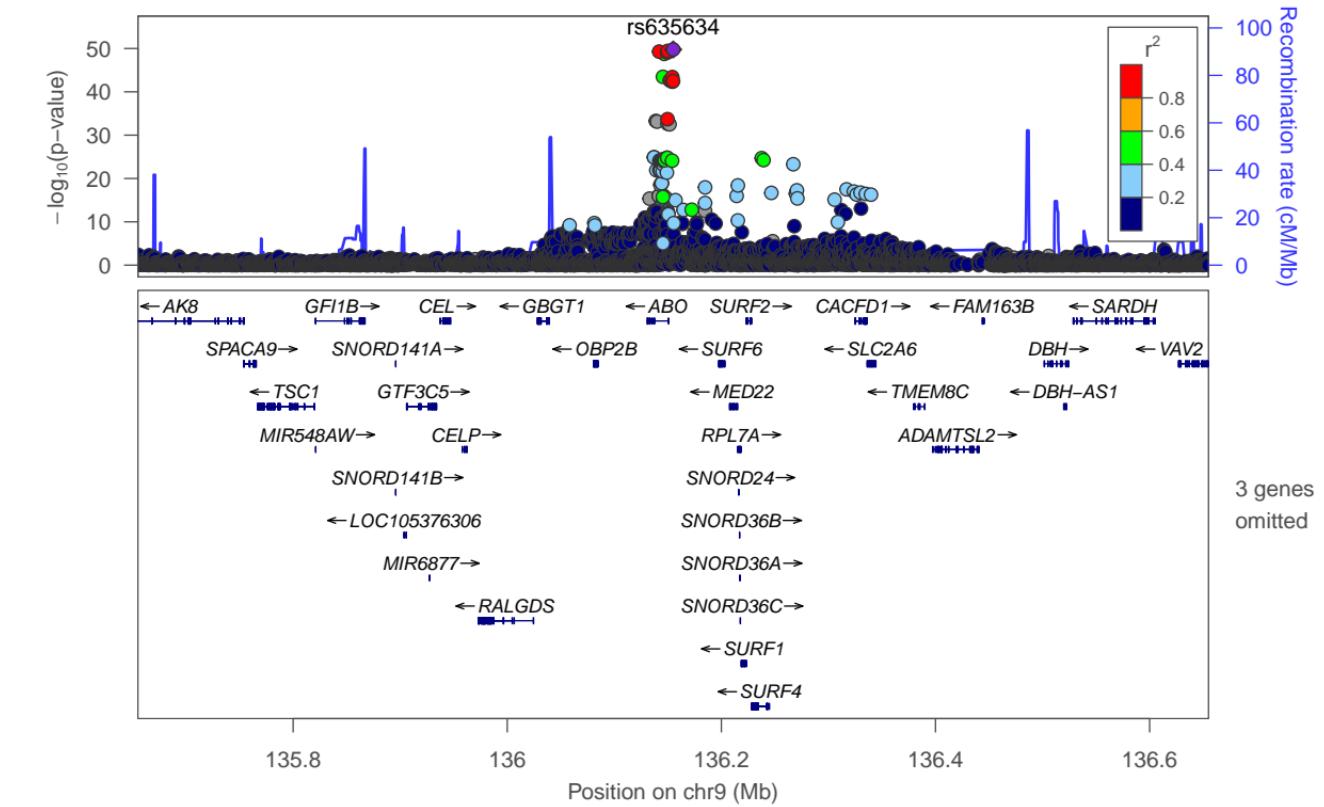
	TE	seTE
INTERVAL (4896)	-0.22	0.0265
BioFinder (1496)	-0.30	0.0452
EGCUT (487)	-0.28	0.0834
KORA (1064)	-0.22	0.0524
NSPHS (866)	-0.15	0.0631
ORCADES (982)	-0.29	0.0579
RECOMBINE (448)	-0.18	0.0910
STANLEY (344)	-0.31	0.0978
STANLEY (300)	-0.10	0.0898
VIS (902)	-0.39	0.0571

**Fixed effect model**  
**Random effects model**

Heterogeneity:  $I^2 = 43\%$ ,  $\tau^2 = 0.0023$ ,  $p = 0.07$

**CCL25 [chr9:136155000\_C\_T (rs635634) (T/C) N=11785]****TE seTE****95%-CI** **Weight (fixed)** **Weight (random)**

-0.22	[-0.28; -0.17]	39.2%	20.0%
-0.30	[-0.39; -0.22]	13.5%	13.9%
-0.28	[-0.44; -0.11]	4.0%	6.5%
-0.22	[-0.33; -0.12]	10.0%	11.9%
-0.15	[-0.28; -0.03]	6.9%	9.6%
-0.29	[-0.40; -0.17]	8.2%	10.7%
-0.18	[-0.36; 0.00]	3.3%	5.7%
-0.31	[-0.51; -0.12]	2.9%	5.1%
-0.10	[-0.27; 0.08]	3.4%	5.8%
-0.39	[-0.51; -0.28]	8.5%	10.8%
<b>-0.25</b>	<b>[-0.28; -0.22]</b>	<b>100.0%</b>	--
<b>-0.25</b>	<b>[-0.30; -0.20]</b>	--	<b>100.0%</b>

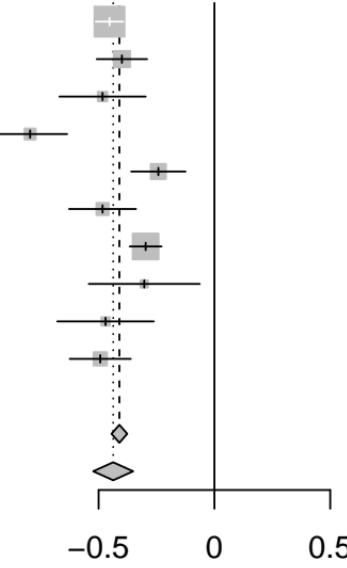
**CCL25 (CCL25)-rs635634**

**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (982)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

**CCL4 [chr17:34819750\_A\_G (rs8064426) (A/G) N=14296]****TE seTE**

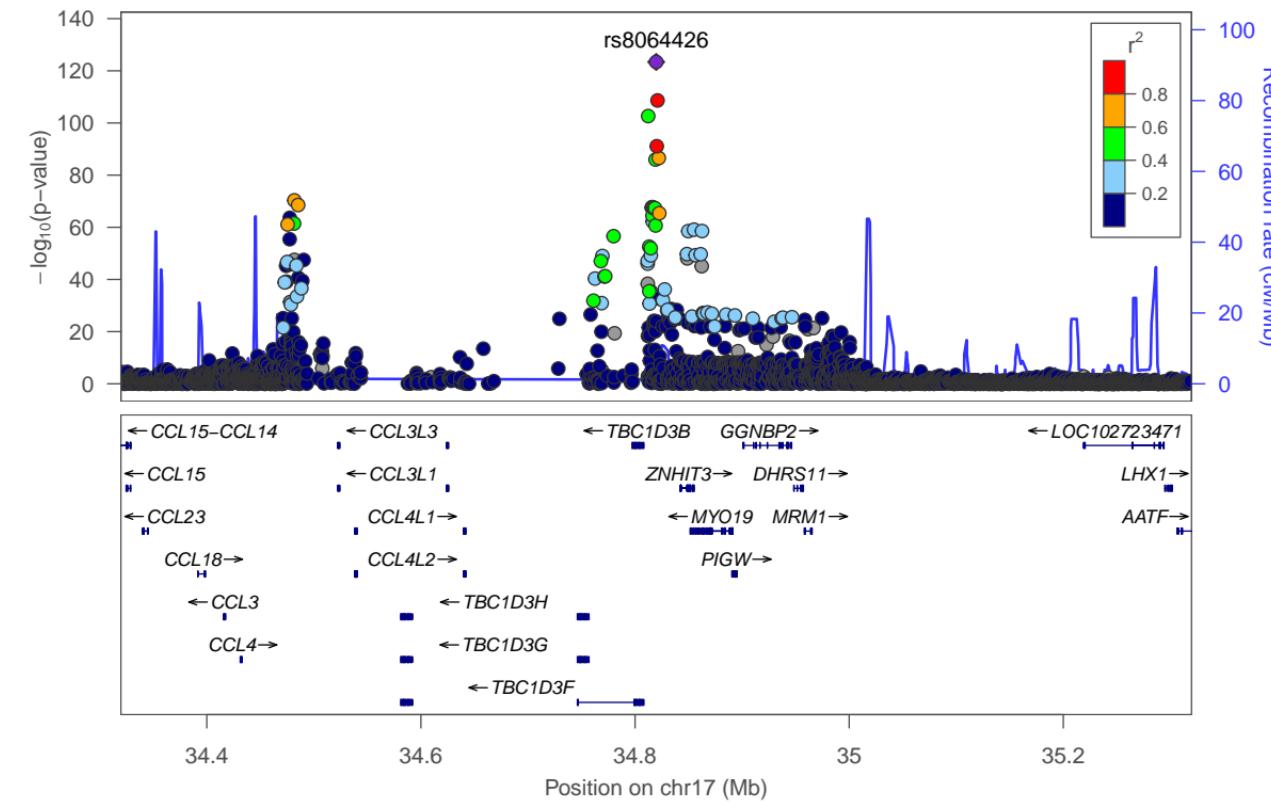
-0.45 0.0302  
-0.40 0.0555  
-0.48 0.0950  
-0.80 0.0816  
-0.24 0.0599  
-0.48 0.0738  
-0.30 0.0351  
-0.30 0.1223  
-0.47 0.1064  
-0.49 0.0673



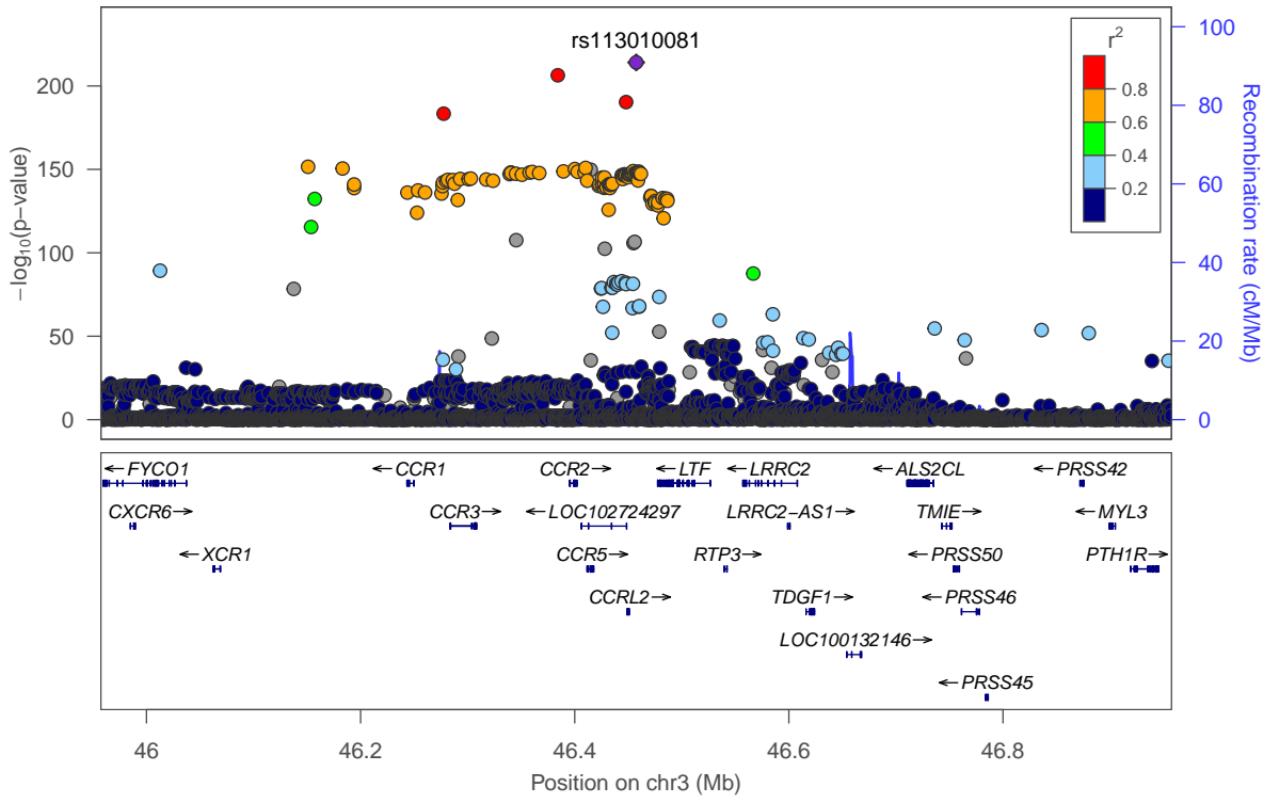
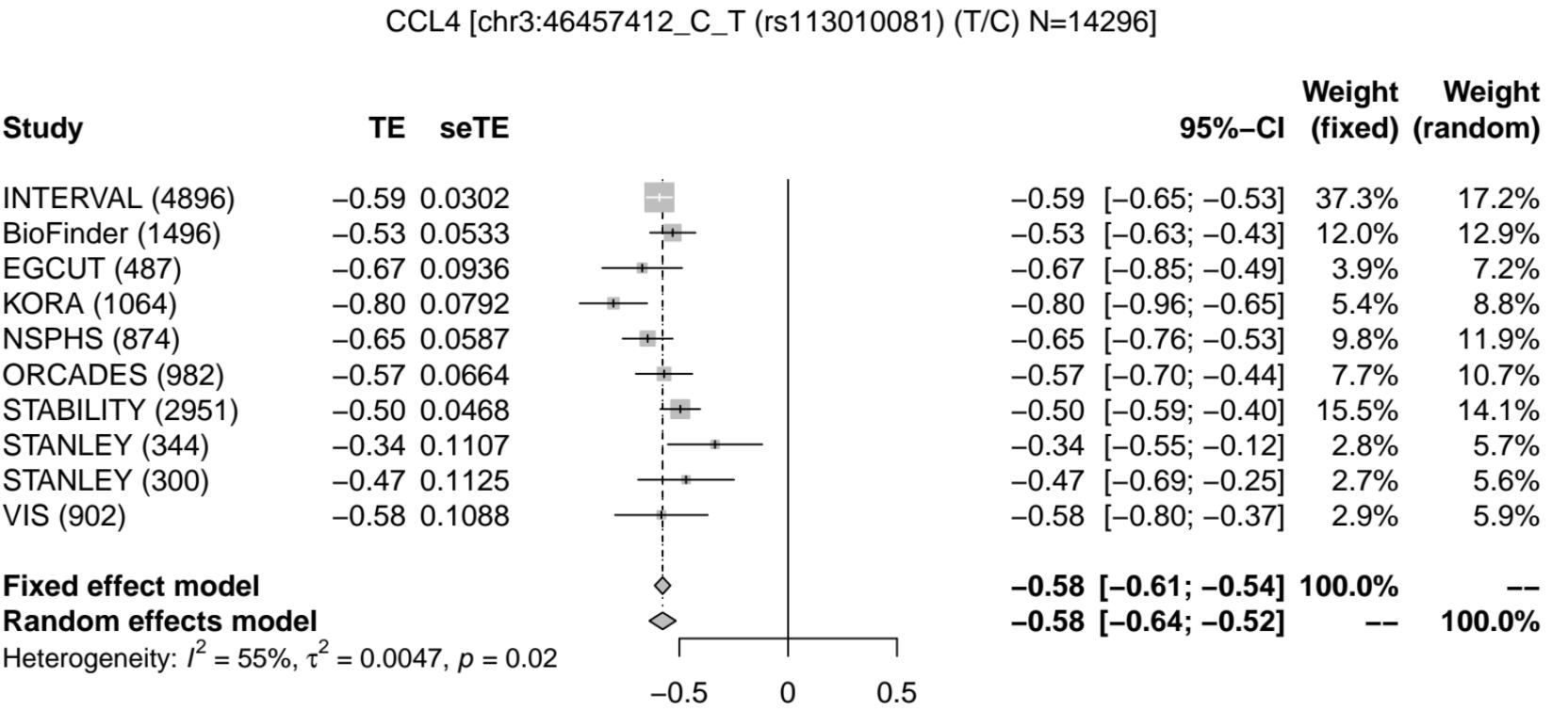
		95%-CI	Weight (fixed)	Weight (random)
		-0.45 [-0.51; -0.39]	32.9%	12.9%
		-0.40 [-0.51; -0.29]	9.7%	11.3%
		-0.48 [-0.67; -0.30]	3.3%	8.4%
		-0.80 [-0.96; -0.64]	4.5%	9.3%
		-0.24 [-0.36; -0.12]	8.4%	10.9%
		-0.48 [-0.63; -0.34]	5.5%	9.9%
		-0.30 [-0.37; -0.23]	24.4%	12.6%
		-0.30 [-0.54; -0.06]	2.0%	6.7%
		-0.47 [-0.68; -0.26]	2.6%	7.6%
		-0.49 [-0.63; -0.36]	6.6%	10.4%
		<b>-0.41 [-0.44; -0.38]</b>	<b>100.0%</b>	--
		<b>-0.44 [-0.52; -0.35]</b>	--	<b>100.0%</b>

**Fixed effect model****Random effects model**

Heterogeneity:  $I^2 = 81\%$ ,  $\tau^2 = 0.0141$ ,  $p < 0.01$

**CCL4 (CCL4)-rs8064426**

# CCL4 (CCL4)-rs113010081



## CD244 (CD244)-rs11265493

CD244 [chr1:160803802\_A\_G (rs11265493) (A/G) N=14287]

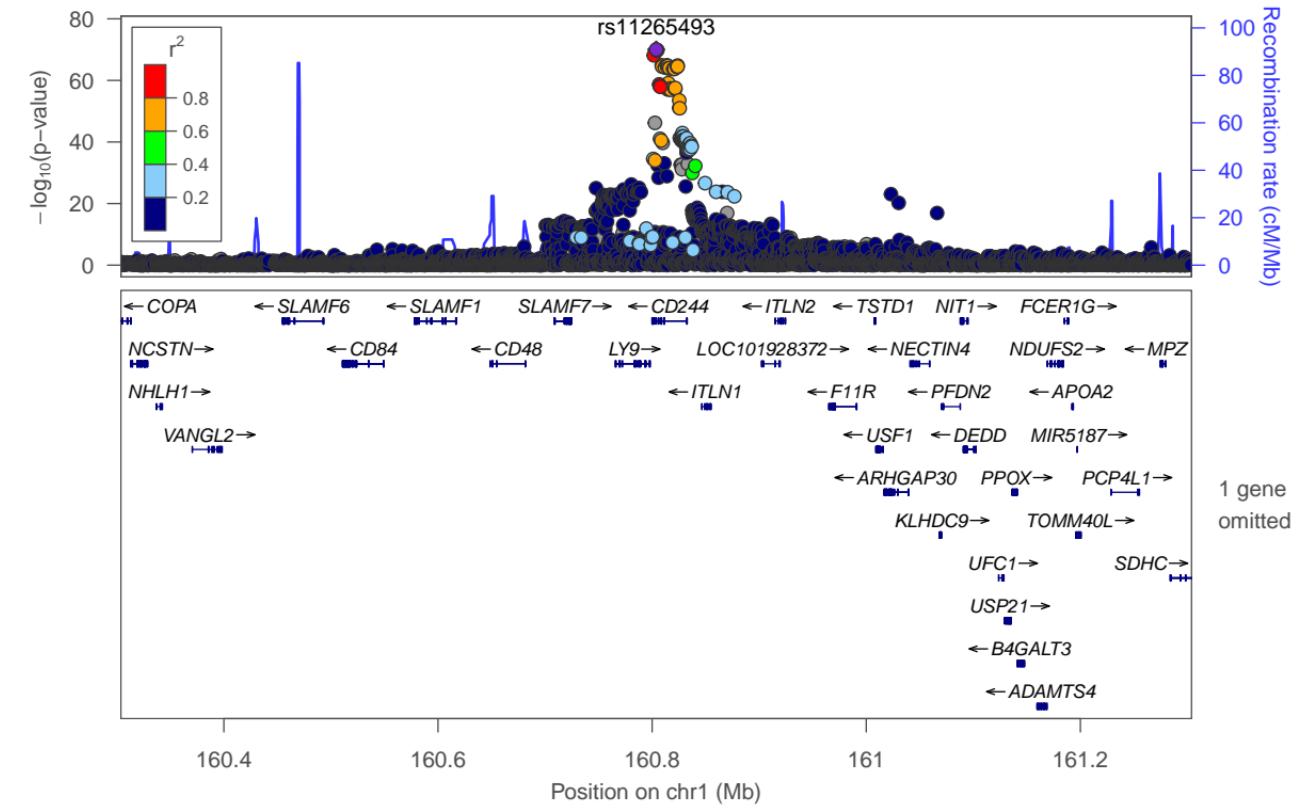
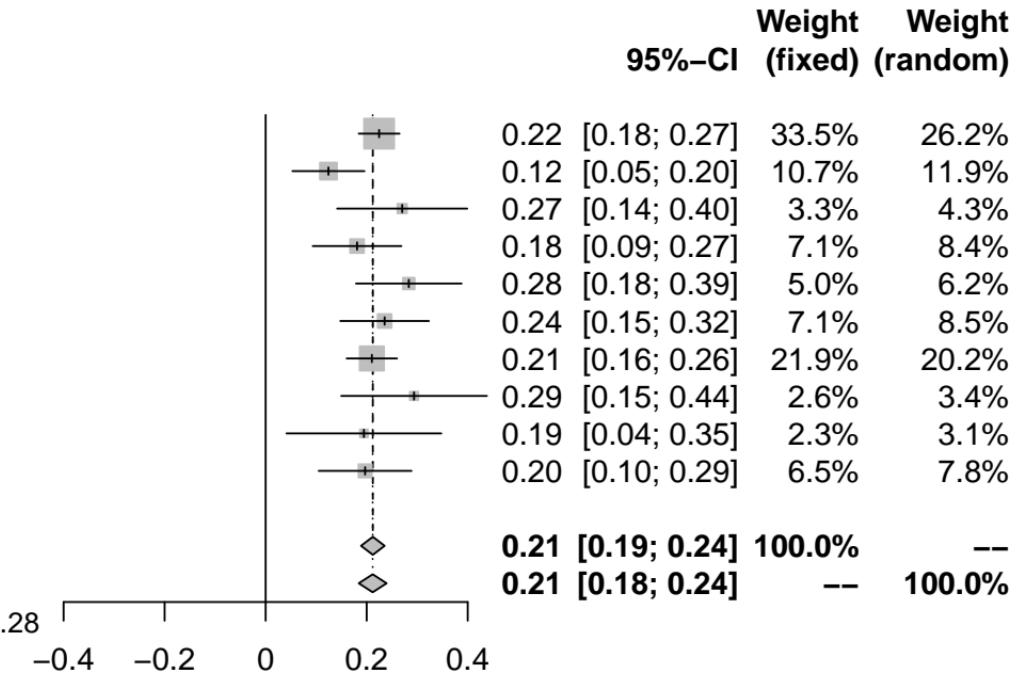
### Study

	TE	seTE
INTERVAL (4896)	0.22	0.0206
BioFinder (1496)	0.12	0.0364
EGCUT (487)	0.27	0.0657
KORA (1064)	0.18	0.0448
NSPHS (866)	0.28	0.0534
ORCADES (981)	0.24	0.0448
STABILITY (2951)	0.21	0.0255
STANLEY (344)	0.29	0.0736
STANLEY (300)	0.19	0.0782
VIS (902)	0.20	0.0469

Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 17\%$ ,  $\tau^2 = 0.0003$ ,  $p = 0.28$



CD244 [chr12:111884608\_C\_T (rs3184504) (T/C) N=11784]

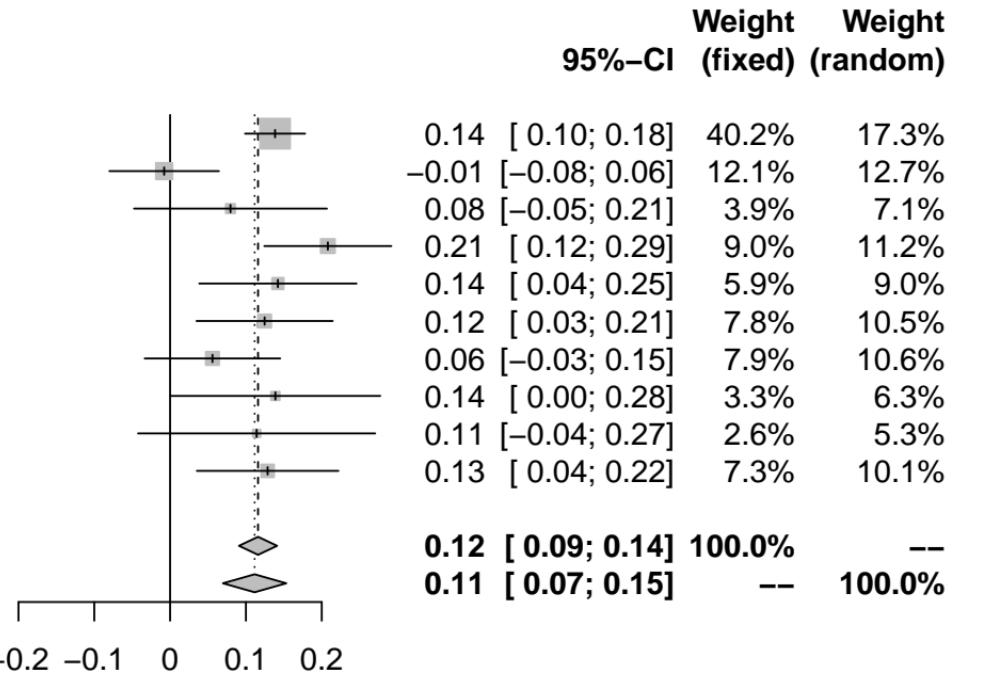
**Study**

	<b>TE</b>	<b>seTE</b>
INTERVAL (4896)	0.14	0.0202
BioFinder (1496)	-0.01	0.0369
EGCUT (487)	0.08	0.0649
KORA (1064)	0.21	0.0428
NSPHS (866)	0.14	0.0529
ORCADES (981)	0.12	0.0458
RECOMBINE (448)	0.06	0.0456
STANLEY (344)	0.14	0.0706
STANLEY (300)	0.11	0.0798
VIS (902)	0.13	0.0476

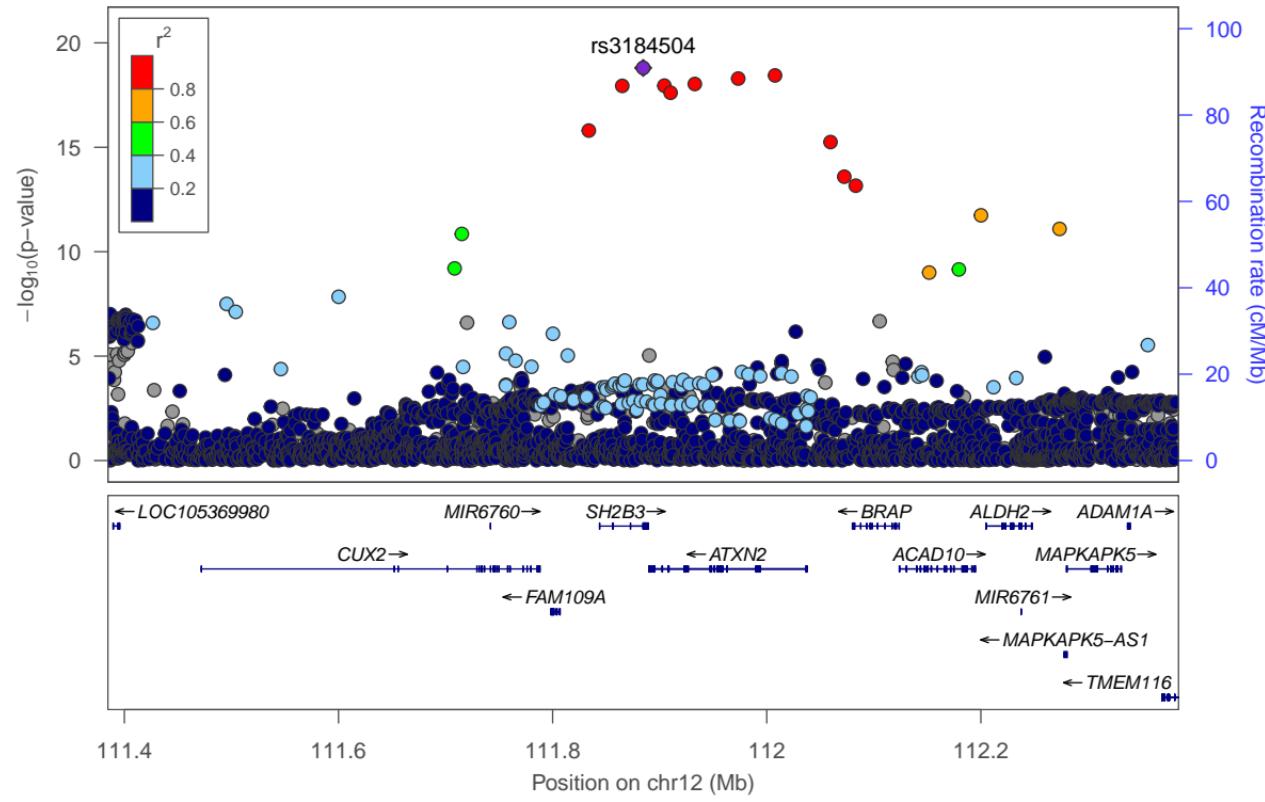
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 54\%$ ,  $\tau^2 = 0.0022$ ,  $p = 0.02$



CD244 (CD244)-rs3184504



CD244 [chr1:44253015\_C\_T (rs3828139) (T/C) N=14287]

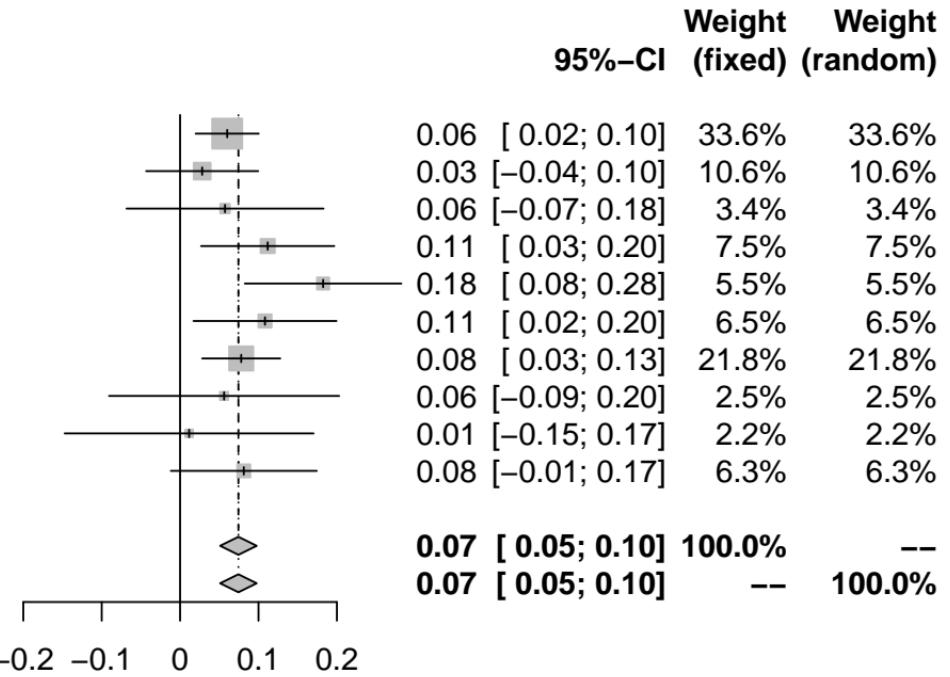
**Study**

	TE	seTE
INTERVAL (4896)	0.06	0.0205
BioFinder (1496)	0.03	0.0365
EGCUT (487)	0.06	0.0641
KORA (1064)	0.11	0.0434
NSPHS (866)	0.18	0.0510
ORCADES (981)	0.11	0.0466
STABILITY (2951)	0.08	0.0255
STANLEY (344)	0.06	0.0749
STANLEY (300)	0.01	0.0810
VIS (902)	0.08	0.0475

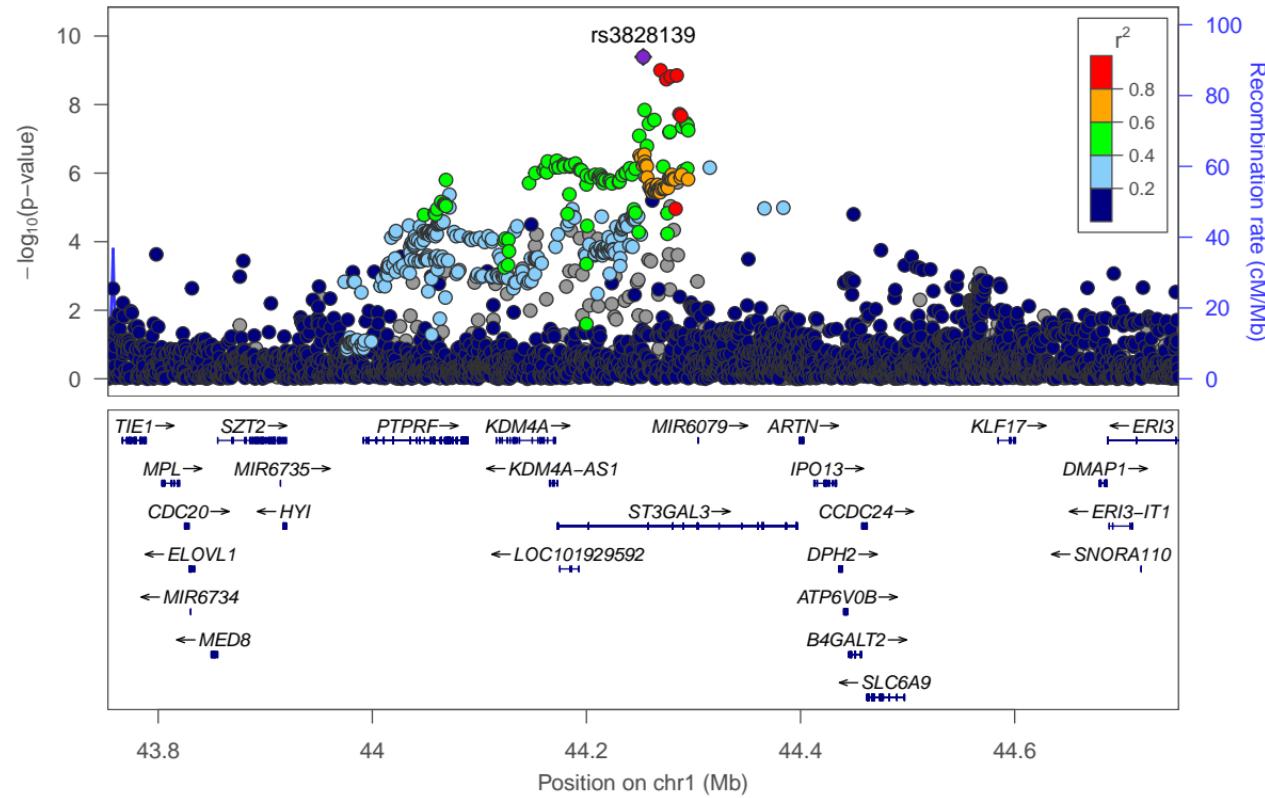
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.47$



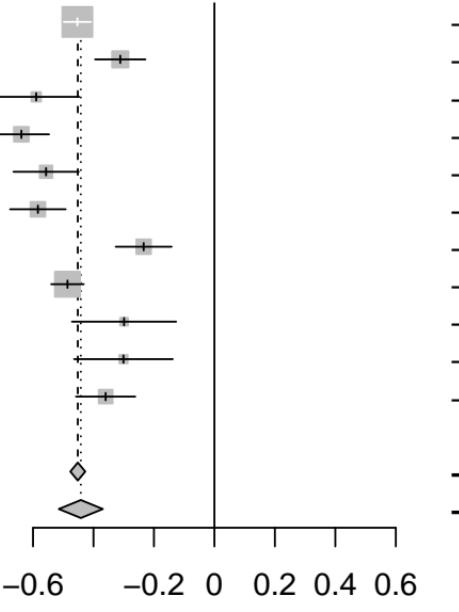
# CD244 (CD244)-rs3828139



**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (448)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

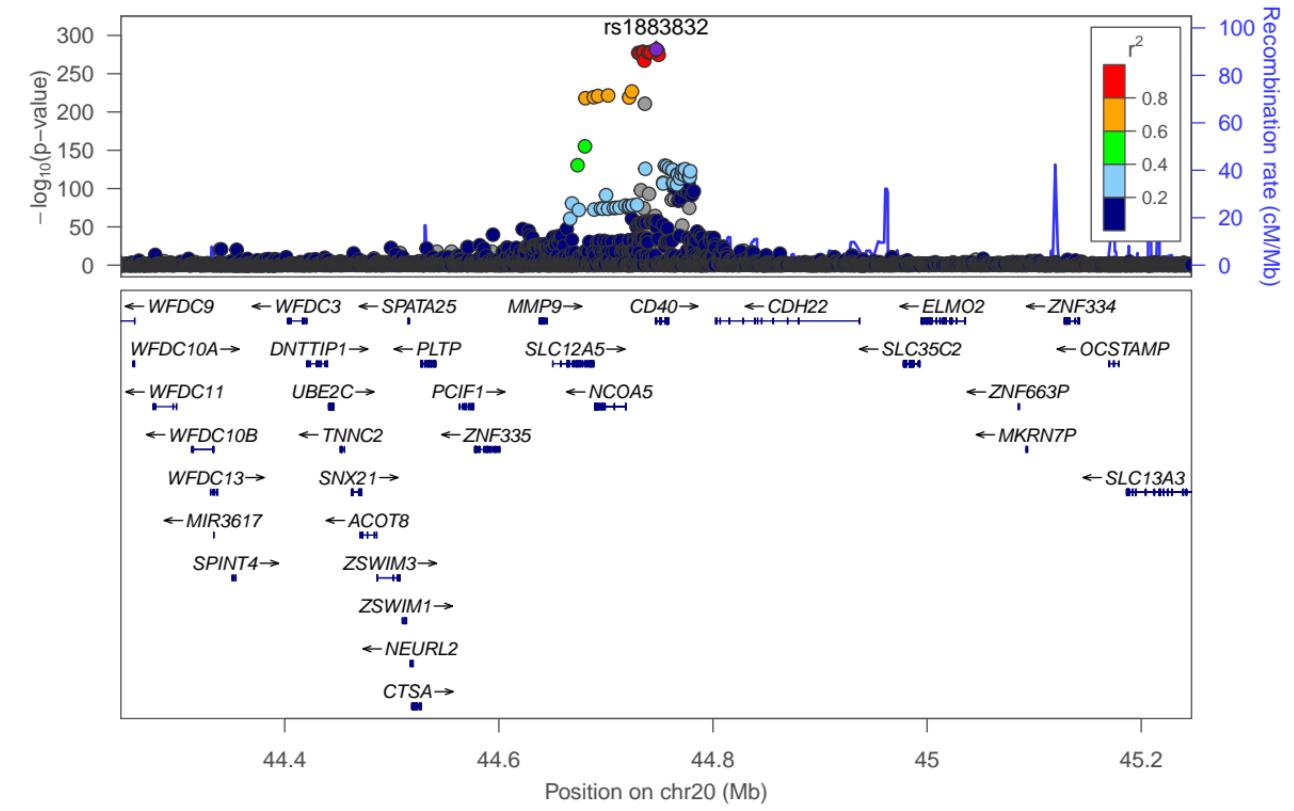
## CD40 [chr20:44746982\_C\_T (rs1883832) (T/C) N=14736]

**TE seTE**

	95%-CI	Weight (fixed)	Weight (random)
	-0.45 [-0.50; -0.41]	29.9%	10.8%
	-0.31 [-0.39; -0.23]	8.8%	9.8%
	-0.59 [-0.73; -0.45]	3.0%	7.9%
	-0.64 [-0.73; -0.55]	7.3%	9.5%
	-0.56 [-0.66; -0.45]	5.2%	9.0%
	-0.58 [-0.68; -0.49]	7.2%	9.5%
	-0.23 [-0.33; -0.14]	7.1%	9.5%
	-0.49 [-0.54; -0.43]	20.9%	10.6%
	-0.30 [-0.47; -0.13]	2.0%	6.9%
	-0.30 [-0.46; -0.14]	2.3%	7.2%
	-0.36 [-0.46; -0.26]	6.3%	9.3%
	<b>-0.45 [-0.48; -0.43]</b>	<b>100.0%</b>	--
	<b>-0.44 [-0.51; -0.37]</b>	--	<b>100.0%</b>

**Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 87\%$ ,  $\tau^2 = 0.0122$ ,  $p < 0.01$ 

## CD40 (CD40)-rs1883832

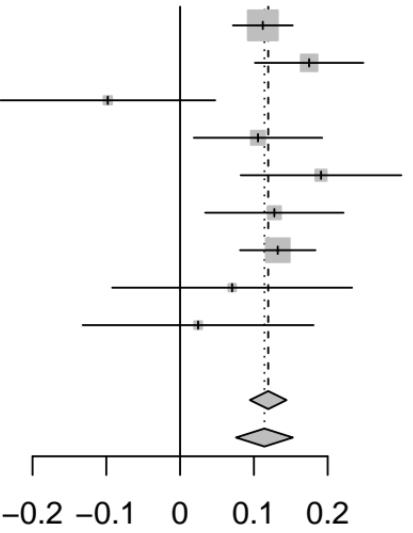


CD5 [chr11:60922561\_C\_G (rs674379) (C/G) N=12835]

**Study**

Study	TE	seTE
INTERVAL (4896)	0.11	0.0207
BioFinder (1496)	0.17	0.0375
EGCUT (487)	-0.10	0.0743
KORA (1064)	0.11	0.0444
NSPHS (866)	0.19	0.0556
RECOMBINE (431)	0.13	0.0478
STABILITY (2951)	0.13	0.0261
STANLEY (344)	0.07	0.0829
STANLEY (300)	0.02	0.0798

TE seTE



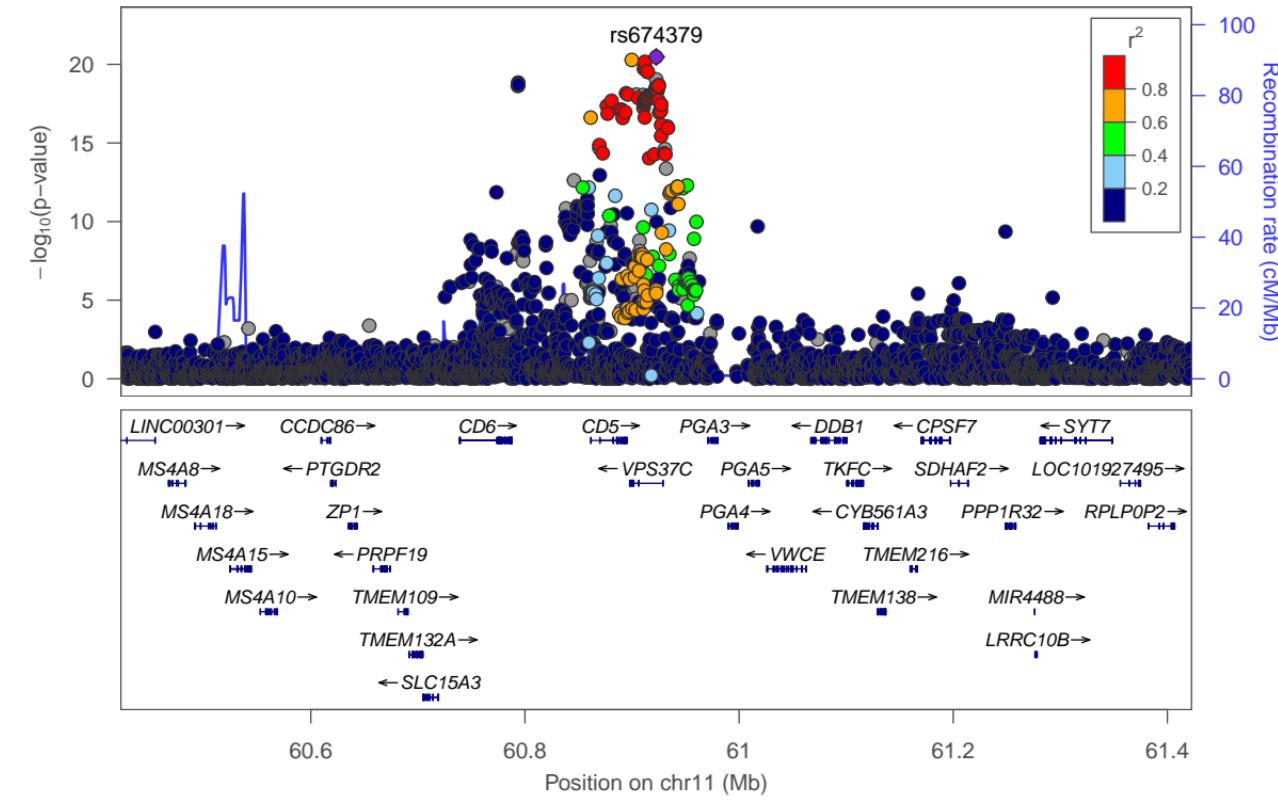
		95%-CI	Weight (fixed)	Weight (random)
		0.11 [ 0.07; 0.15]	37.2%	21.4%
		0.17 [ 0.10; 0.25]	11.4%	13.9%
		-0.10 [-0.24; 0.05]	2.9%	5.6%
		0.11 [ 0.02; 0.19]	8.1%	11.5%
		0.19 [ 0.08; 0.30]	5.2%	8.6%
		0.13 [ 0.03; 0.22]	7.0%	10.5%
		0.13 [ 0.08; 0.18]	23.4%	18.8%
		0.07 [-0.09; 0.23]	2.3%	4.7%
		0.02 [-0.13; 0.18]	2.5%	5.0%
		<b>0.12 [ 0.09; 0.14]</b>	<b>100.0%</b>	--
		<b>0.11 [ 0.08; 0.15]</b>	--	<b>100.0%</b>

**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 45\%$ ,  $\tau^2 = 0.0014$ ,  $p = 0.07$

CD5 (CD5)-rs674379



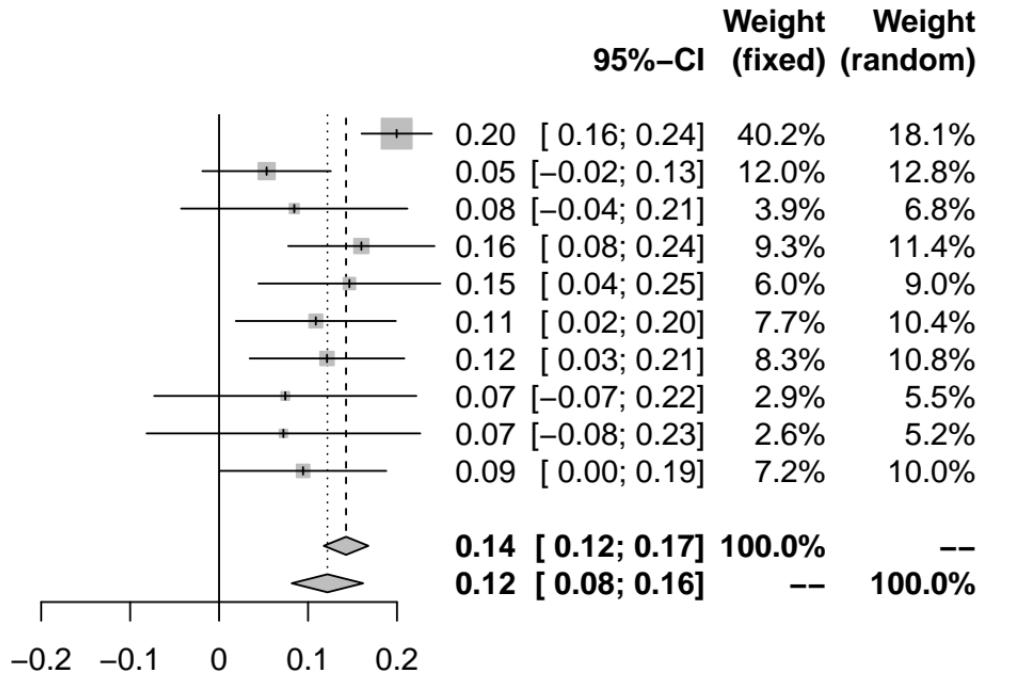
CD5 [chr12:111884608\_C\_T (rs3184504) (T/C) N=11784]

Study	TE	seTE
INTERVAL (4896)	0.20	0.0201
BioFinder (1496)	0.05	0.0368
EGCUT (487)	0.08	0.0649
KORA (1064)	0.16	0.0420
NSPHS (866)	0.15	0.0522
ORCADES (981)	0.11	0.0459
RECOMBINE (448)	0.12	0.0444
STANLEY (344)	0.07	0.0752
STANLEY (300)	0.07	0.0785
VIS (902)	0.09	0.0477

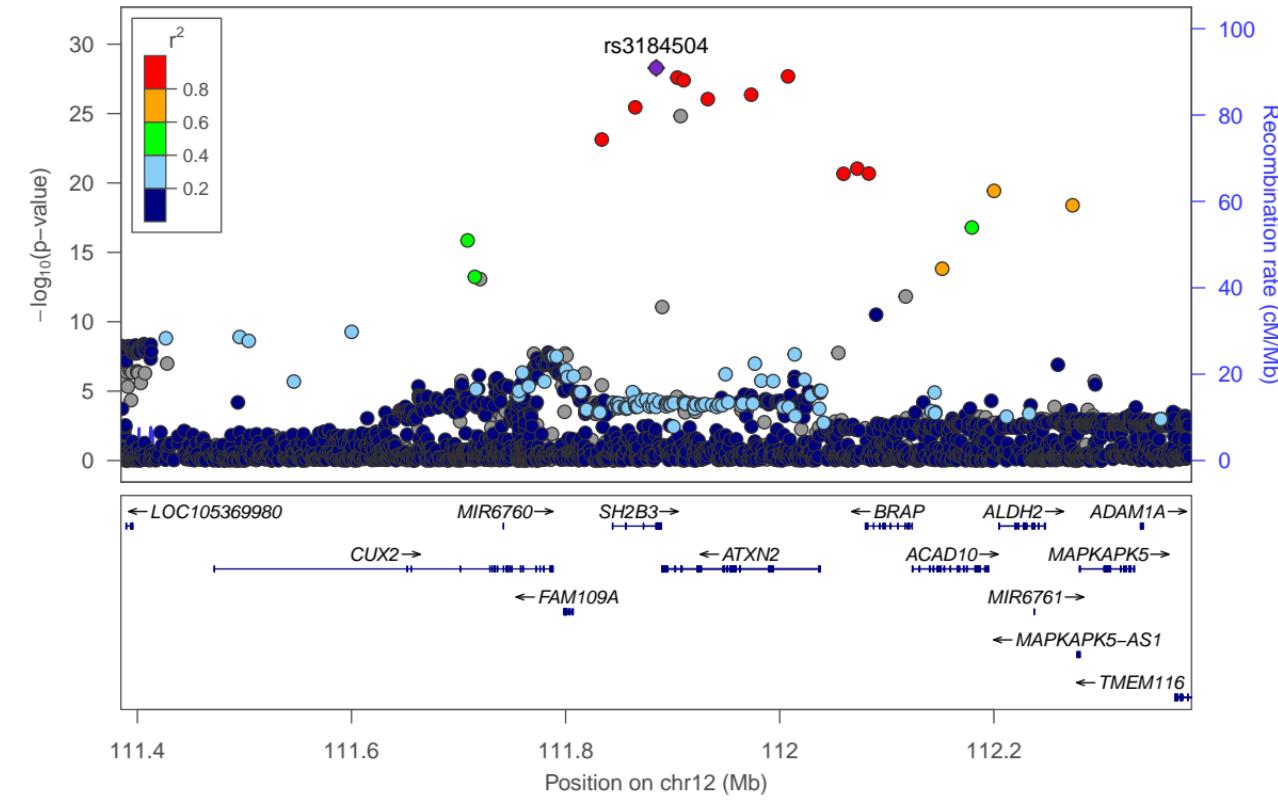
Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 51\%$ ,  $\tau^2 = 0.0019$ ,  $p = 0.03$



# CD5 (CD5)-rs3184504



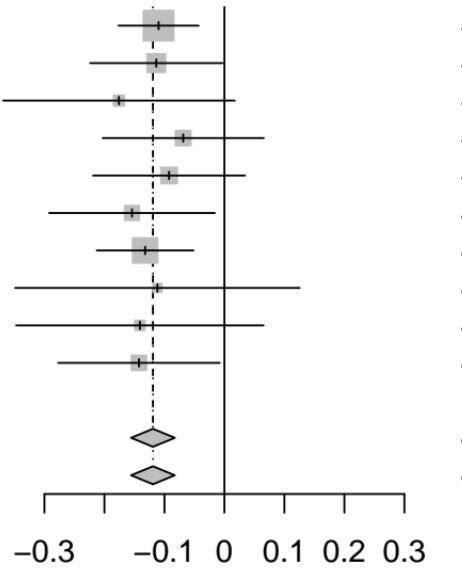
**Study**

Study	TE	seTE
INTERVAL (4896)	-0.11	0.0341
BioFinder (1496)	-0.11	0.0563
EGCUT (487)	-0.18	0.0985
KORA (1064)	-0.07	0.0686
NSPHS (866)	-0.09	0.0647
ORCADES (981)	-0.15	0.0705
STABILITY (2951)	-0.13	0.0412
STANLEY (344)	-0.11	0.1210
STANLEY (300)	-0.14	0.1052
VIS (902)	-0.14	0.0687

**Fixed effect model**  
**Random effects model**

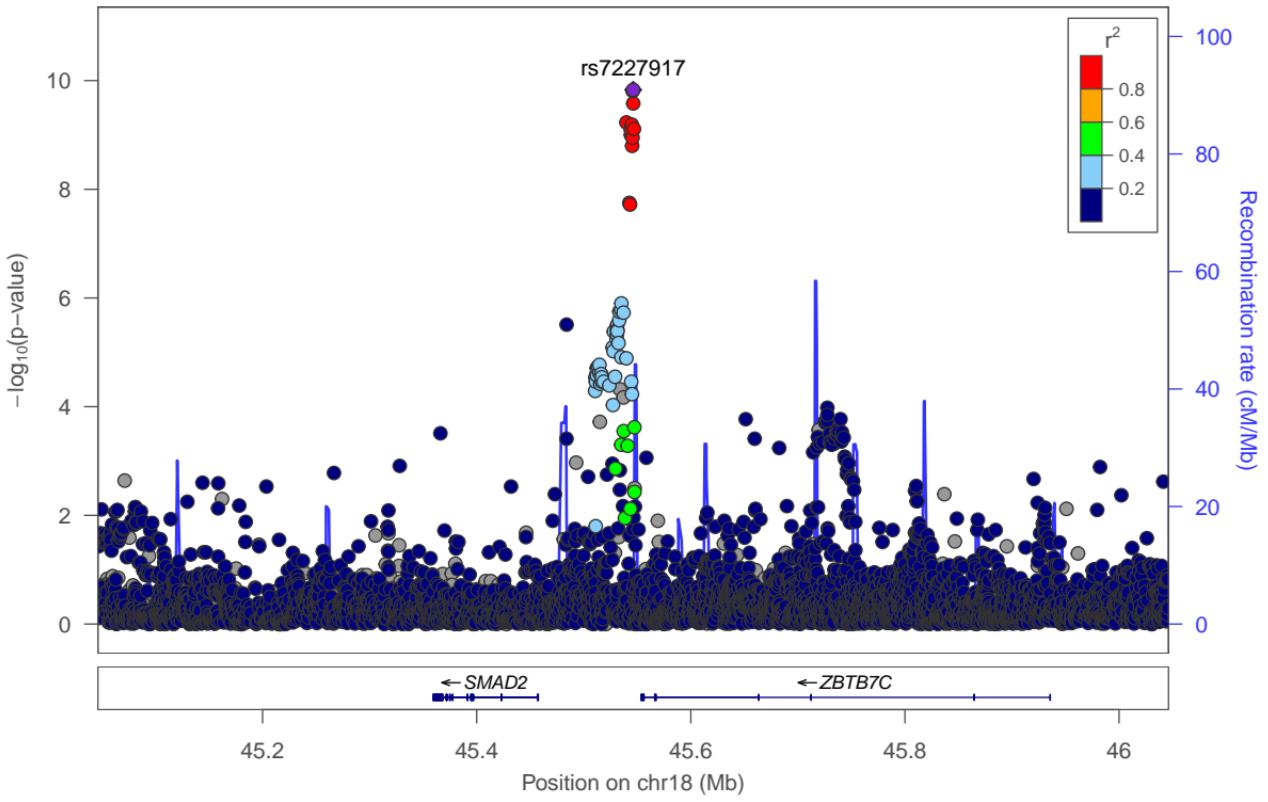
Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 1.00$

## CD5 [chr18:45546185\_A\_G (rs7227917) (A/G) N=14287]

**TE seTE**

	95%-CI	Weight (fixed)	Weight (random)
	-0.11 [-0.18; -0.04]	29.8%	29.8%
	-0.11 [-0.22; 0.00]	10.9%	10.9%
	-0.18 [-0.37; 0.02]	3.6%	3.6%
	-0.07 [-0.20; 0.07]	7.4%	7.4%
	-0.09 [-0.22; 0.03]	8.3%	8.3%
	-0.15 [-0.29; -0.02]	6.9%	6.9%
	-0.13 [-0.21; -0.05]	20.4%	20.4%
	-0.11 [-0.35; 0.13]	2.4%	2.4%
	-0.14 [-0.35; 0.07]	3.1%	3.1%
	-0.14 [-0.28; -0.01]	7.3%	7.3%
	<b>-0.12 [-0.16; -0.08]</b>	<b>100.0%</b>	--
	<b>-0.12 [-0.16; -0.08]</b>	--	<b>100.0%</b>

## CD5 (CD5)-rs7227917



CD6 [chr11:60776781\_C\_T (rs2074227) (T/C) N=14734]

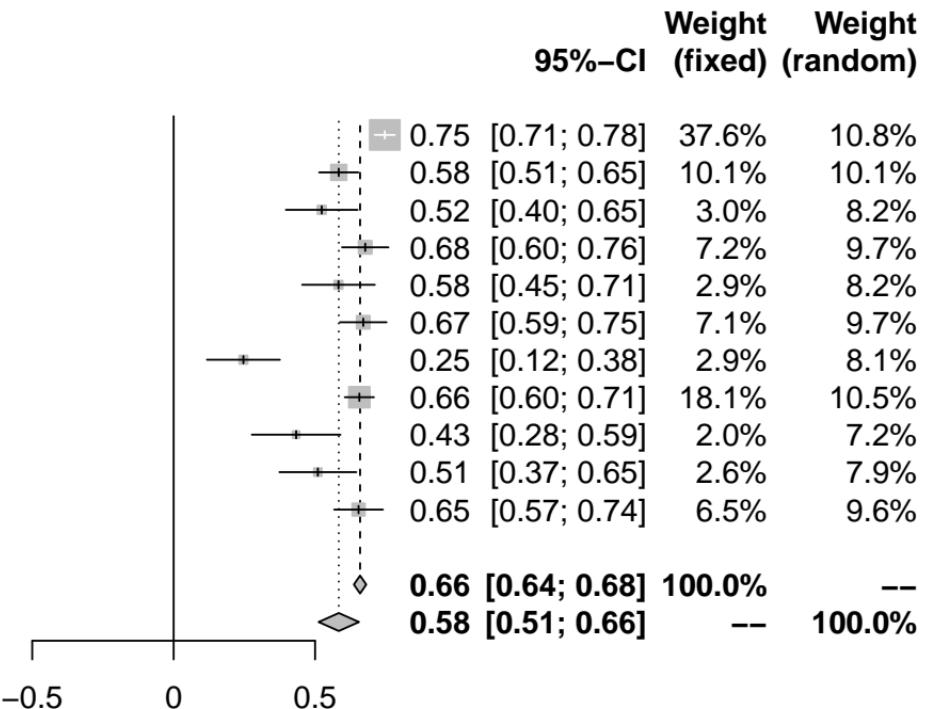
**Study**

	TE	seTE
INTERVAL (4896)	0.75	0.0183
BioFinder (1496)	0.58	0.0353
EGCUT (487)	0.52	0.0647
KORA (1064)	0.68	0.0419
NSPHS (866)	0.58	0.0656
ORCADES (982)	0.67	0.0421
RECOMBINE (447)	0.25	0.0658
STABILITY (2951)	0.66	0.0263
STANLEY (344)	0.43	0.0800
STANLEY (300)	0.51	0.0694
VIS (901)	0.65	0.0441

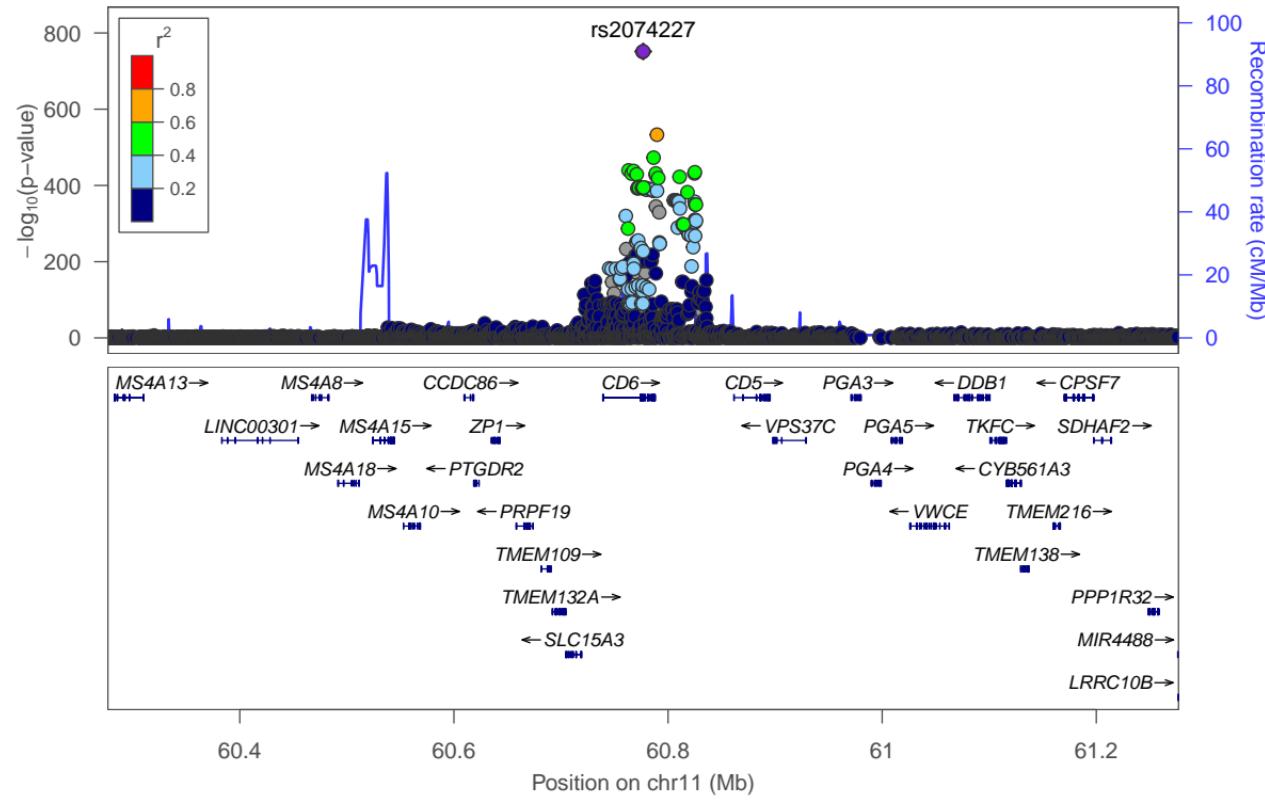
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 88\%$ ,  $\tau^2 = 0.0119$ ,  $p < 0.01$



CD6 (CD6)-rs2074227



CD6 [chr12:111973358\_A\_G (rs597808) (A/G) N=11336]

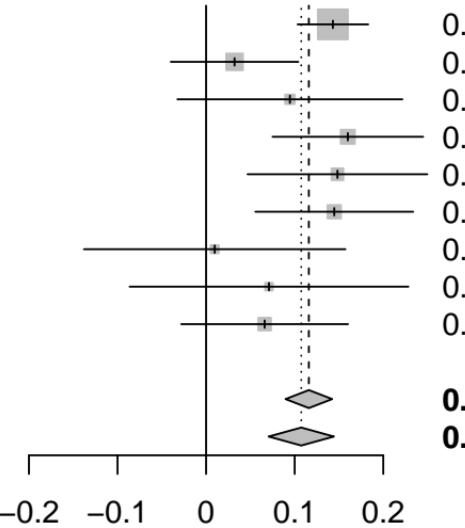
**Study**

Study	TE	seTE
INTERVAL (4896)	0.14	0.0204
BioFinder (1496)	0.03	0.0367
EGCUT (487)	0.09	0.0648
KORA (1064)	0.16	0.0434
NSPHS (866)	0.15	0.0518
ORCADES (982)	0.14	0.0454
STANLEY (344)	0.01	0.0753
STANLEY (300)	0.07	0.0803
VIS (901)	0.07	0.0481

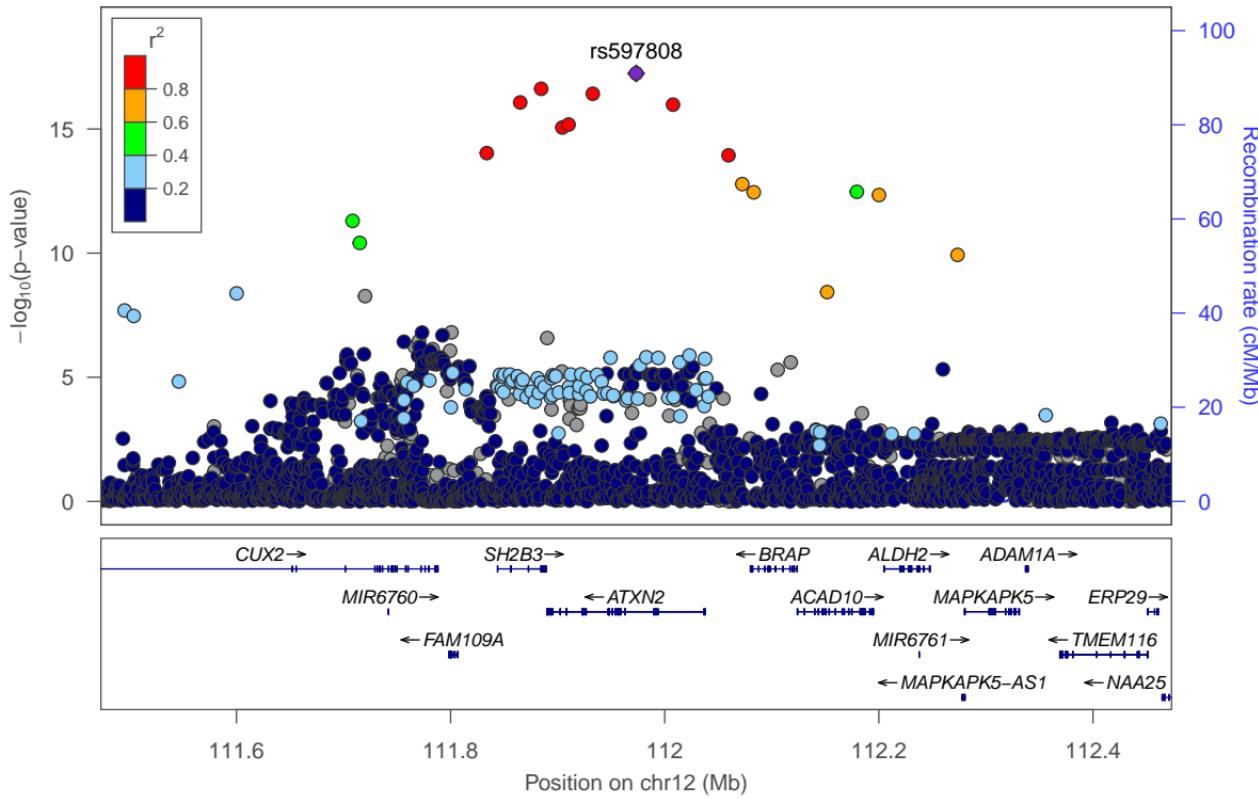
TE seTE

	95%-CI	Weight (fixed)	Weight (random)
	0.14 [ 0.10; 0.18]	43.5%	24.6%
	0.03 [-0.04; 0.10]	13.4%	14.9%
	0.09 [-0.03; 0.22]	4.3%	6.8%
	0.16 [ 0.07; 0.25]	9.6%	12.2%
	0.15 [ 0.05; 0.25]	6.7%	9.5%
	0.14 [ 0.06; 0.23]	8.7%	11.4%
	0.01 [-0.14; 0.16]	3.2%	5.3%
	0.07 [-0.09; 0.23]	2.8%	4.7%
	0.07 [-0.03; 0.16]	7.8%	10.6%
<b>Fixed effect model</b>	<b>0.12 [ 0.09; 0.14]</b>	<b>100.0%</b>	--
<b>Random effects model</b>	<b>0.11 [ 0.07; 0.14]</b>	--	<b>100.0%</b>

Heterogeneity:  $I^2 = 35\%$ ,  $\tau^2 = 0.0010$ ,  $p = 0.14$



CD6 (CD6)-rs597808



# CDCP1 (CDCP1)-rs12290068

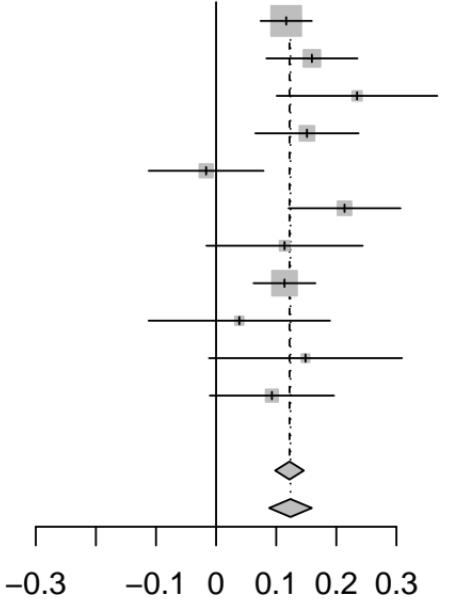
CDCP1 [chr11:126261564\_A\_G (rs12290068) (A/G) N=14726]

## Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (980)  
RECOMBINE (440)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

TE seTE

0.12 0.0217  
0.16 0.0387  
0.23 0.0682  
0.15 0.0438  
-0.02 0.0487  
0.21 0.0475  
0.11 0.0663  
0.11 0.0263  
0.04 0.0770  
0.15 0.0819  
0.09 0.0528



Weight  
(fixed) Weight  
(random)

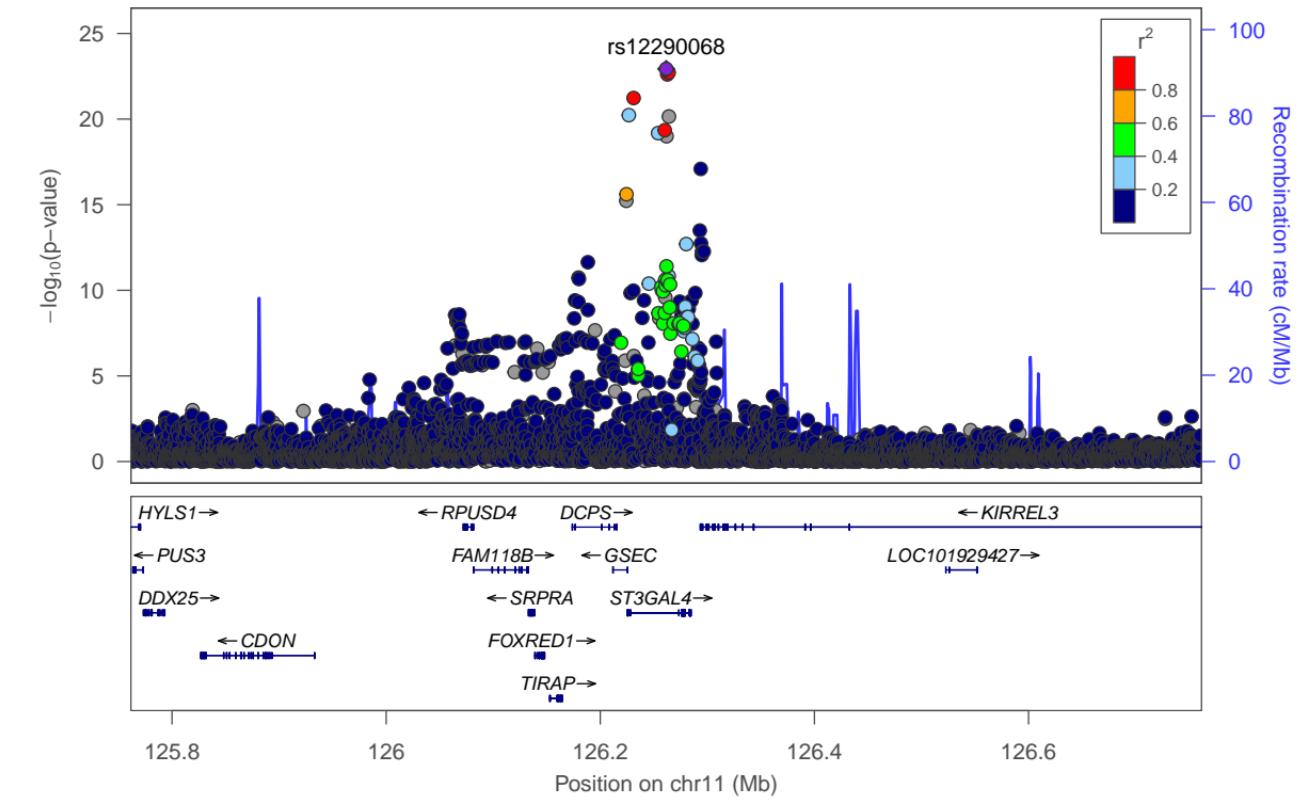
	95%-CI	Weight (fixed)	Weight (random)
0.12 [ 0.07; 0.16]	31.4%	17.7%	
0.16 [ 0.08; 0.24]	9.9%	11.4%	
0.23 [ 0.10; 0.37]	3.2%	5.4%	
0.15 [ 0.07; 0.24]	7.7%	9.9%	
-0.02 [-0.11; 0.08]	6.2%	8.7%	
0.21 [ 0.12; 0.31]	6.6%	9.0%	
0.11 [-0.02; 0.24]	3.4%	5.7%	
0.11 [ 0.06; 0.17]	21.5%	15.8%	
0.04 [-0.11; 0.19]	2.5%	4.5%	
0.15 [-0.01; 0.31]	2.2%	4.0%	
0.09 [-0.01; 0.20]	5.3%	7.9%	

**0.12 [ 0.10; 0.15] 100.0%**  
**0.12 [ 0.09; 0.16] -- 100.0%**

**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 43\%$ ,  $\tau^2 = 0.0014$ ,  $p = 0.06$



## CDCP1 (CDCP1)-rs2276862

CDCP1 [chr3:45187785\_C\_G (rs2276862) (C/G) N=14730]

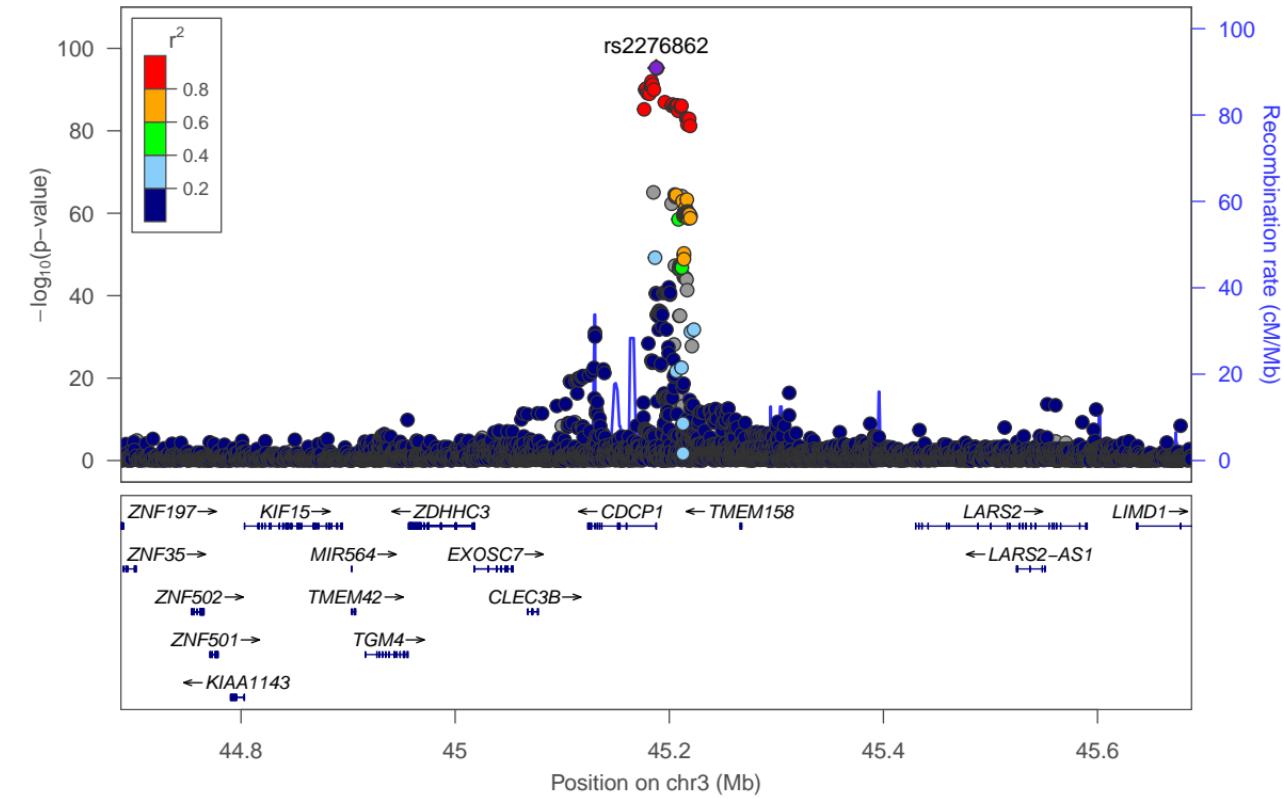
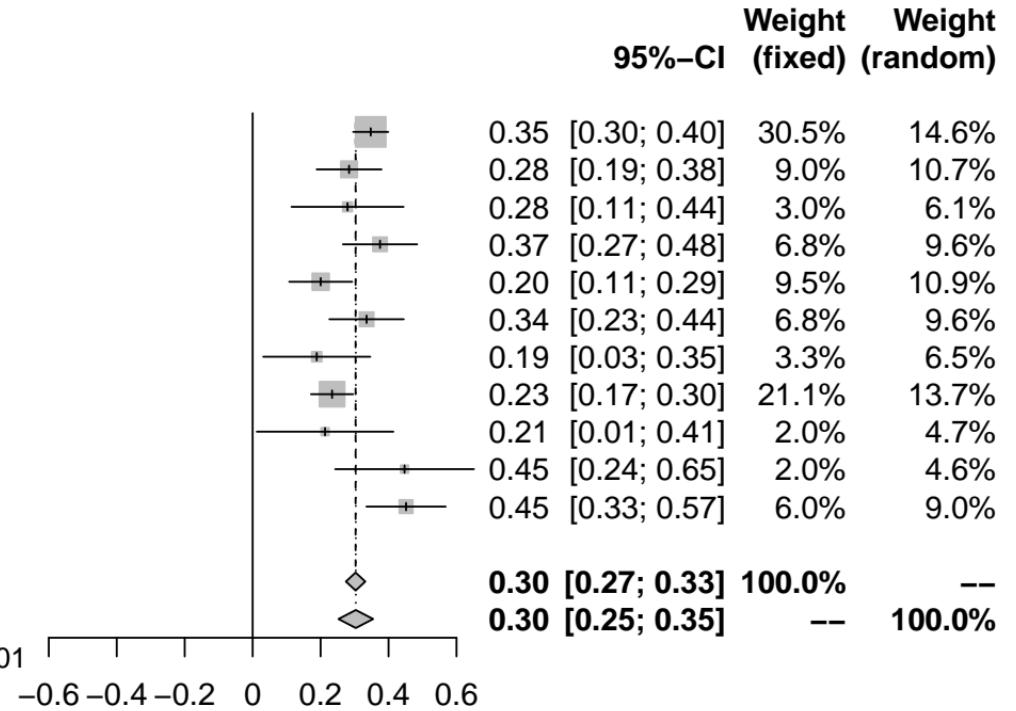
### Study

	TE	seTE
INTERVAL (4896)	0.35	0.0264
BioFinder (1496)	0.28	0.0487
EGCUT (487)	0.28	0.0842
KORA (1064)	0.37	0.0558
NSPHS (866)	0.20	0.0473
ORCADES (980)	0.34	0.0558
RECOMBINE (444)	0.19	0.0804
STABILITY (2951)	0.23	0.0317
STANLEY (344)	0.21	0.1026
STANLEY (300)	0.45	0.1042
VIS (902)	0.45	0.0596

### Fixed effect model

### Random effects model

Heterogeneity:  $I^2 = 61\%$ ,  $\tau^2 = 0.0040$ ,  $p < 0.01$



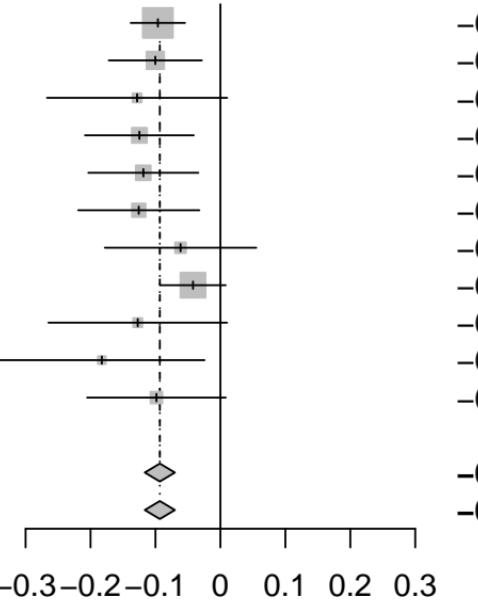
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (980)  
RECOMBINE (447)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

CDCP1 [chr6:32602396\_C\_T (rs9272226) (T/C) N=14733]

**TE seTE**

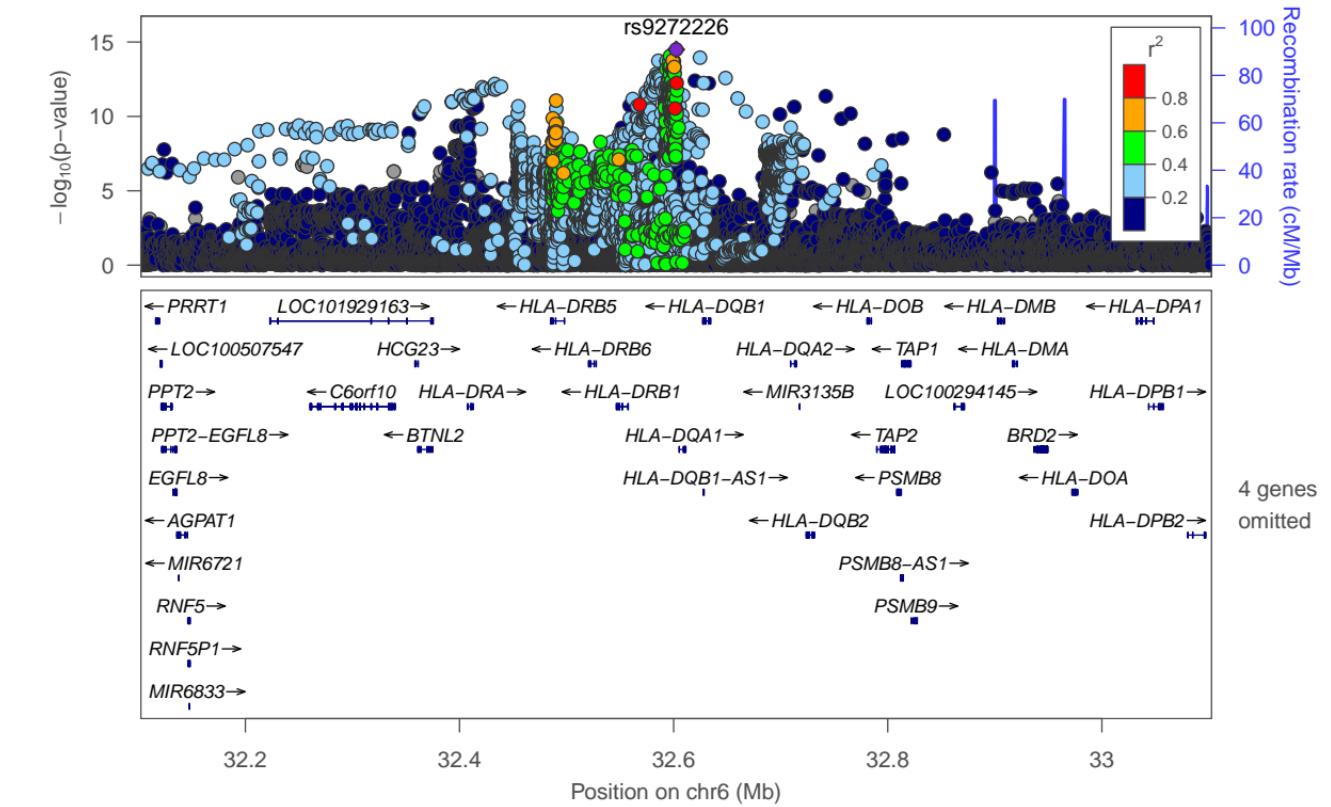
-0.10 0.0214  
-0.10 0.0366  
-0.13 0.0708  
-0.12 0.0428  
-0.12 0.0433  
-0.13 0.0476  
-0.06 0.0595  
-0.04 0.0257  
-0.13 0.0702  
-0.18 0.0807  
-0.10 0.0545

**95%-CI Weight (fixed) Weight (random)**

-0.10 [-0.14; -0.05] 30.6% 30.6%  
-0.10 [-0.17; -0.03] 10.4% 10.4%  
-0.13 [-0.27; 0.01] 2.8% 2.8%  
-0.12 [-0.21; -0.04] 7.7% 7.7%  
-0.12 [-0.20; -0.03] 7.5% 7.5%  
-0.13 [-0.22; -0.03] 6.2% 6.2%  
-0.06 [-0.18; 0.06] 3.9% 3.9%  
-0.04 [-0.09; 0.01] 21.2% 21.2%  
-0.13 [-0.26; 0.01] 2.8% 2.8%  
-0.18 [-0.34; -0.02] 2.1% 2.1%  
-0.10 [-0.21; 0.01] 4.7% 4.7%

**Fixed effect model**  
**Random effects model**  
Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.69$

CDCP1 (CDCP1)-rs9272226



CSF-1 [chr1:110503296\_C\_T (rs17610659) (T/C) N=14286]

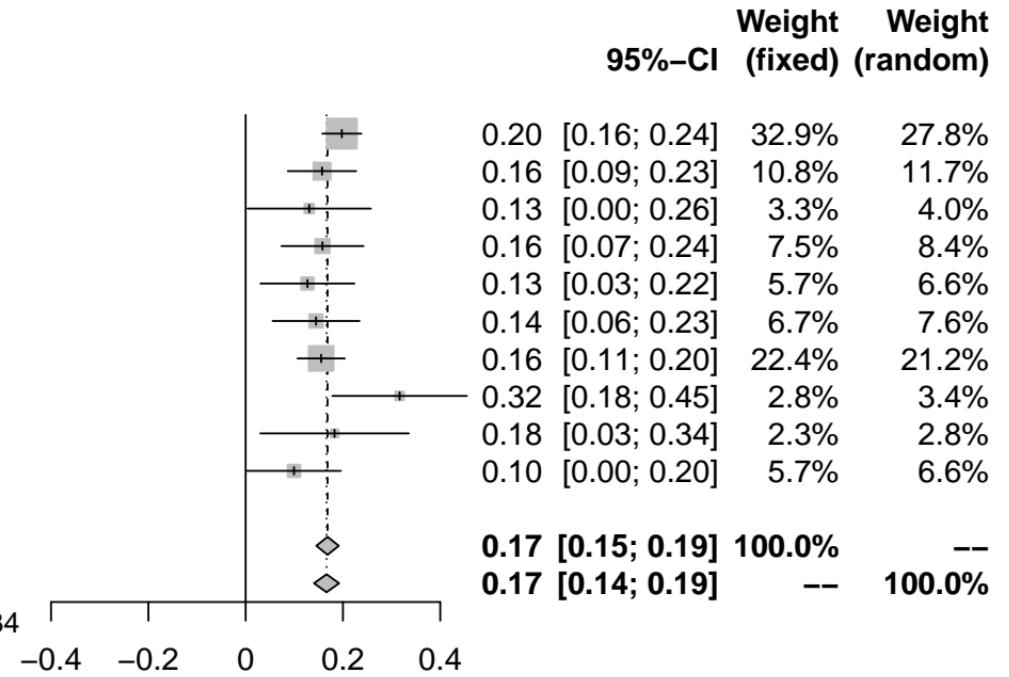
**Study**

	TE	seTE
INTERVAL (4896)	0.20	0.0205
BioFinder (1496)	0.16	0.0359
EGCUT (487)	0.13	0.0647
KORA (1064)	0.16	0.0431
NSPHS (866)	0.13	0.0493
ORCADES (981)	0.14	0.0456
STABILITY (2951)	0.16	0.0249
STANLEY (344)	0.32	0.0706
STANLEY (300)	0.18	0.0779
VIS (901)	0.10	0.0493

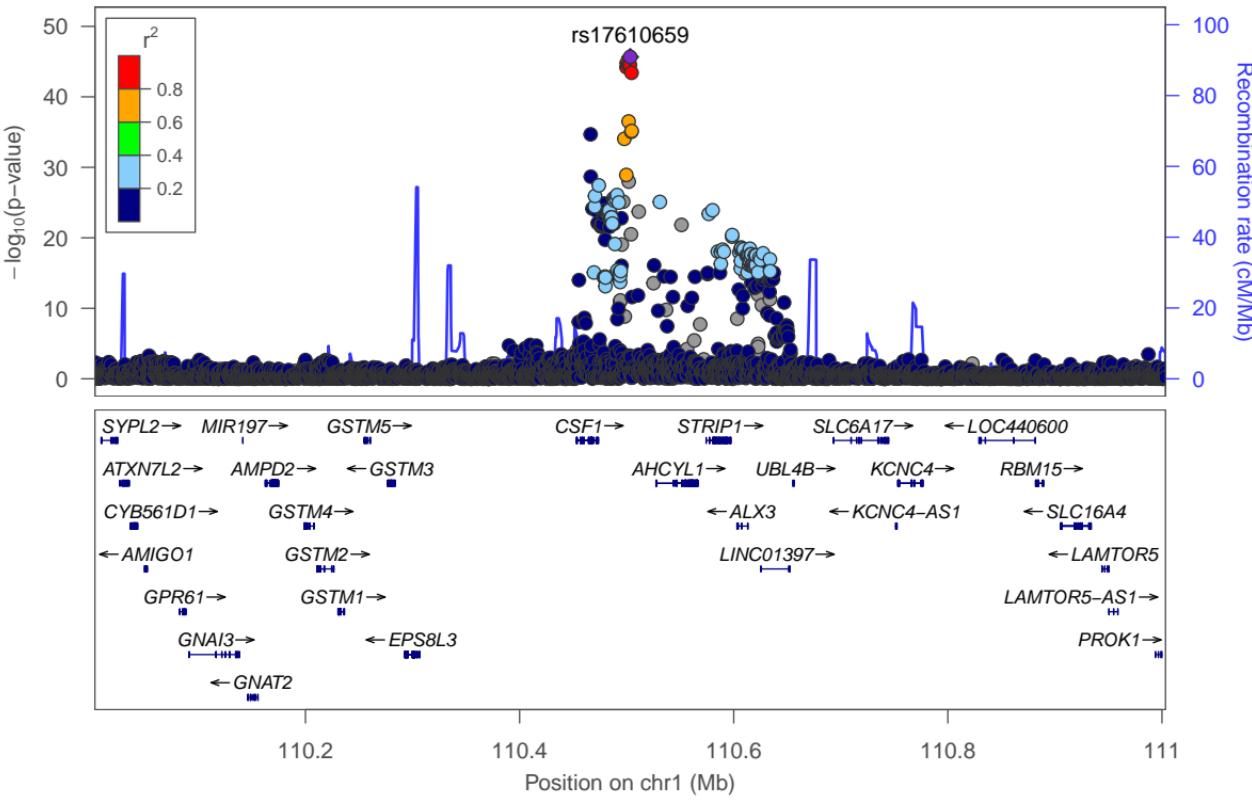
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 12\%$ ,  $\tau^2 = 0.0002$ ,  $p = 0.34$

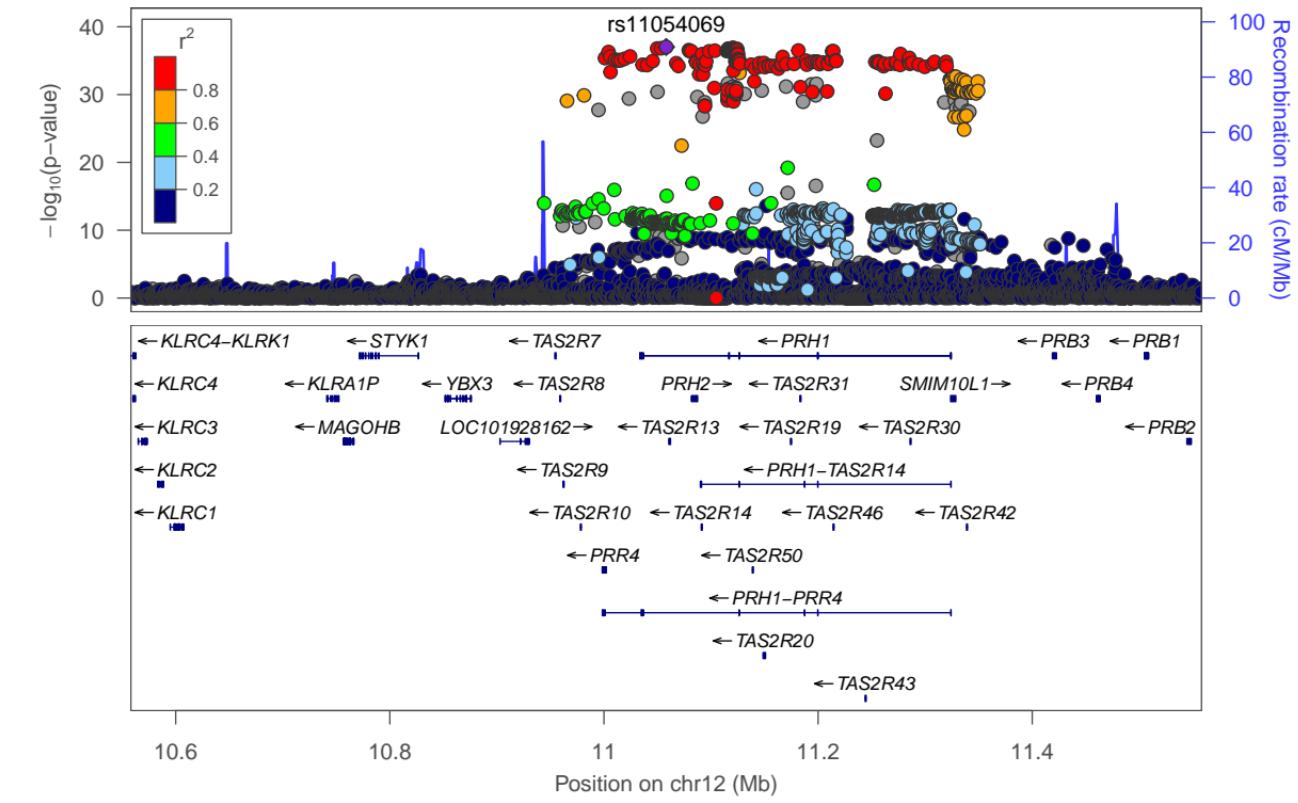
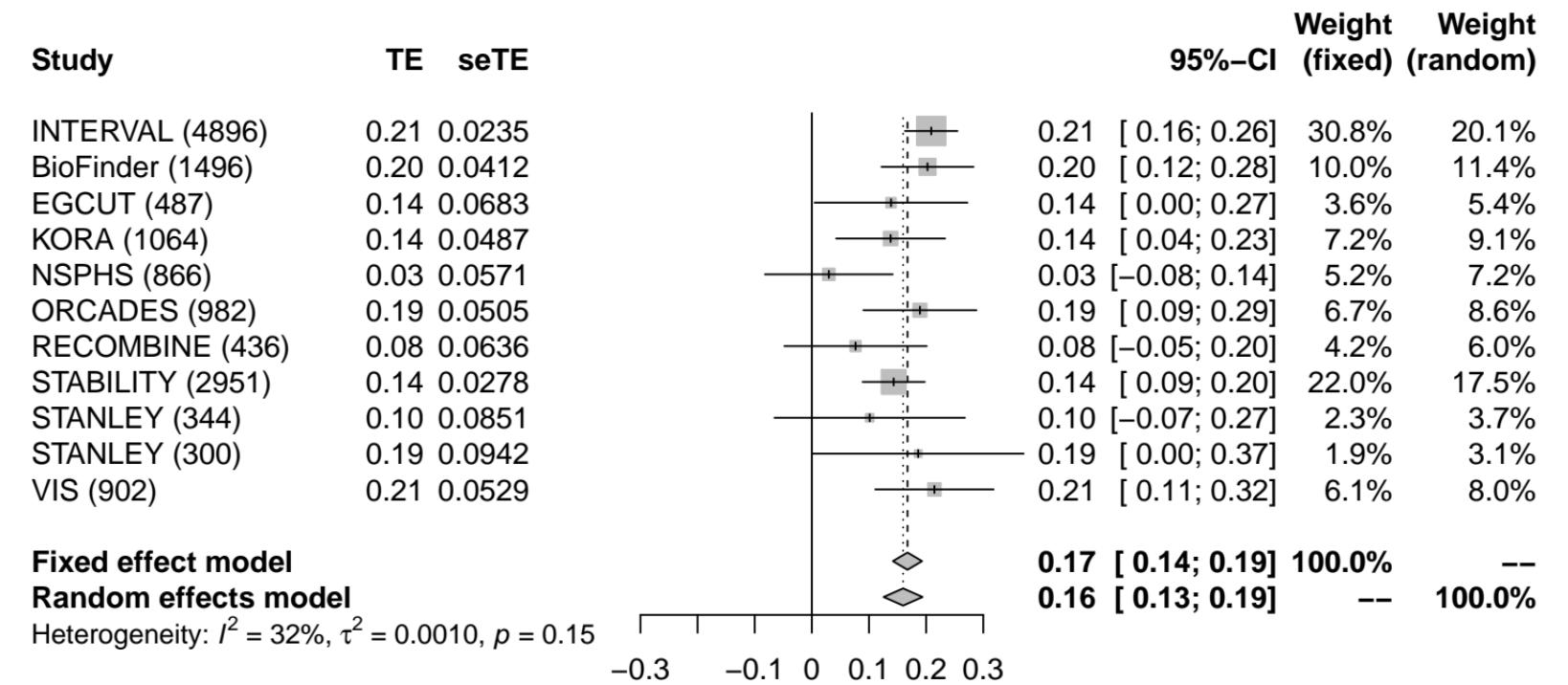


# CSF-1 (CSF1)-rs17610659



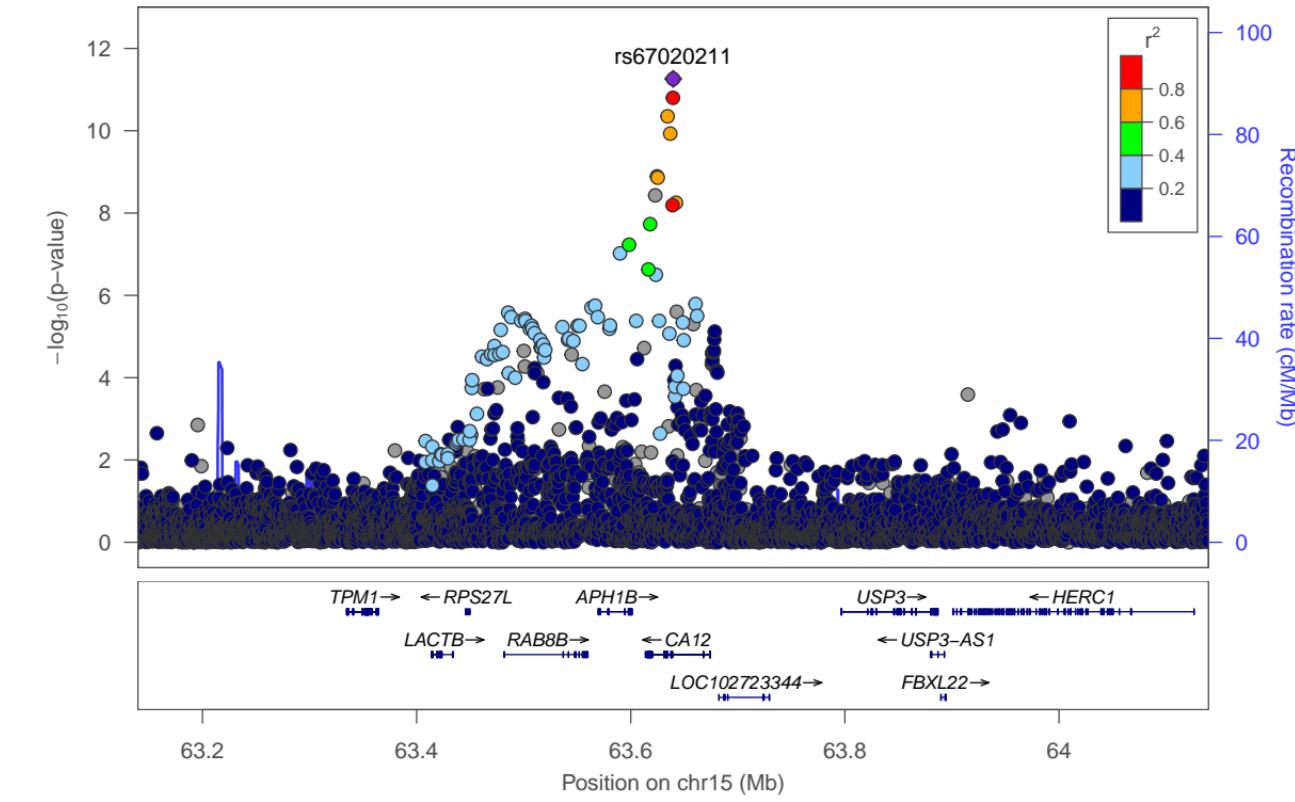
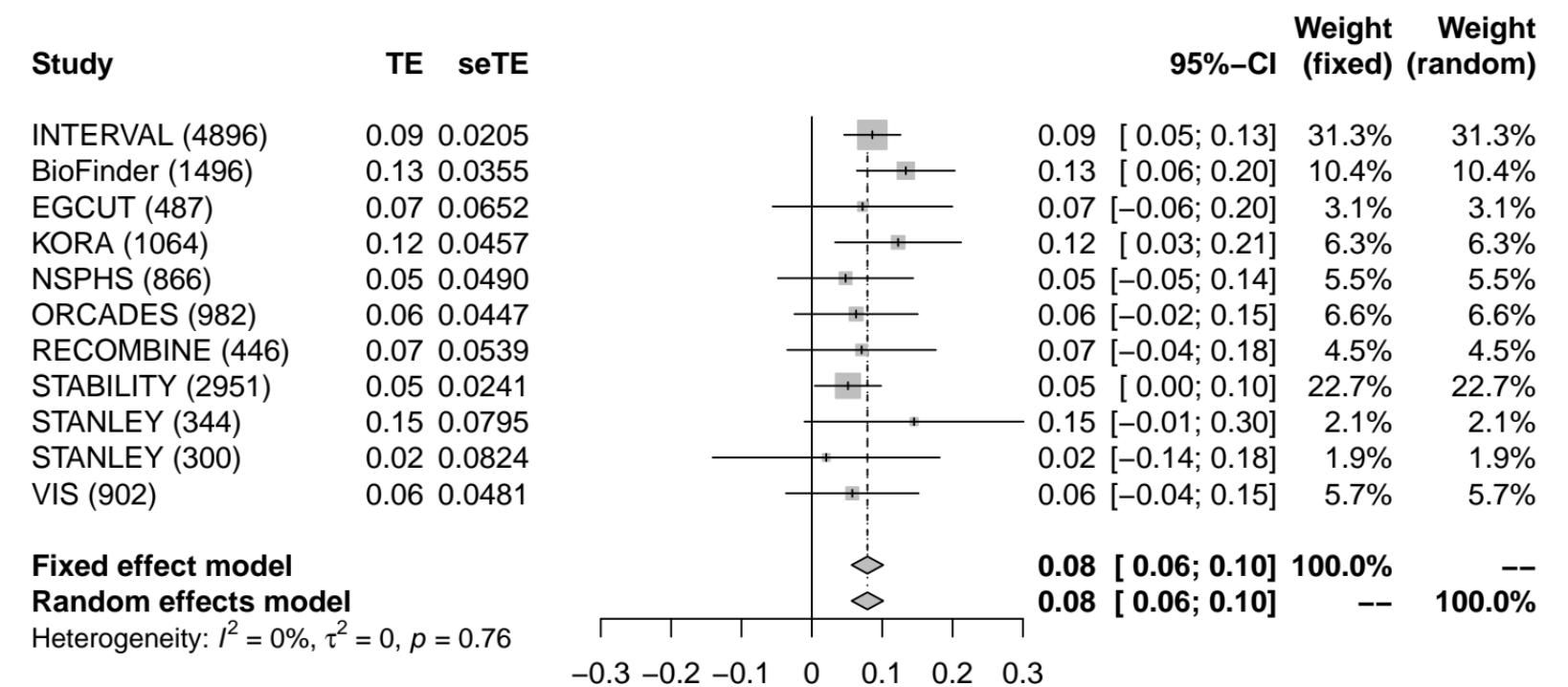
## CST5 (CST5)-rs11054069

CST5 [chr12:11058117\_C\_T (rs11054069) (T/C) N=14724]



# CST5 (CST5)-rs67020211

CST5 [chr15:63639644\_G\_T (rs67020211) (T/G) N=14734]



CST5 [chr19:49206145\_C\_G (rs516316) (C/G) N=14734]

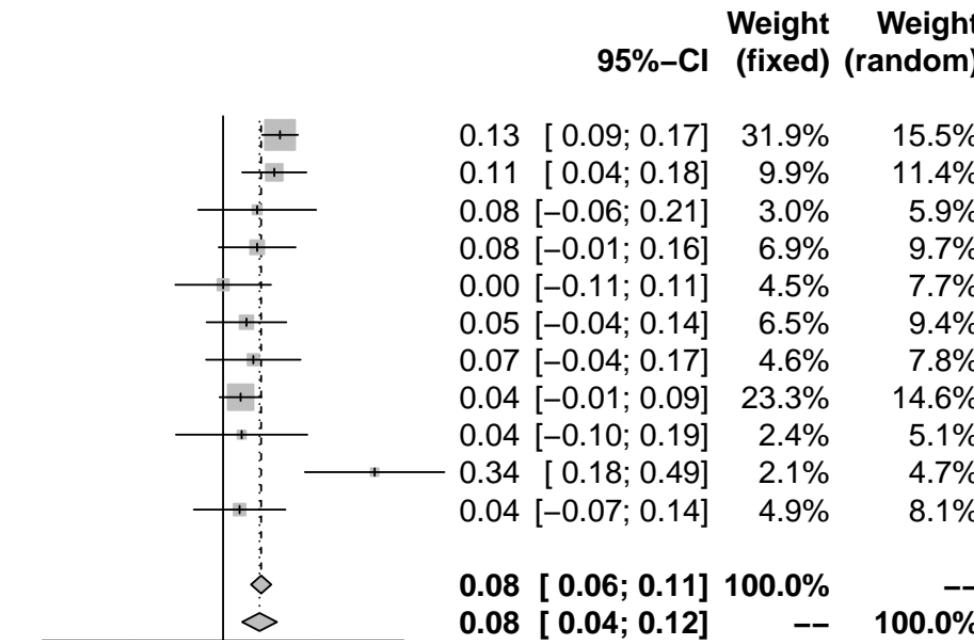
**Study**

	TE	seTE
INTERVAL (4896)	0.13	0.0203
BioFinder (1496)	0.11	0.0364
EGCUT (487)	0.08	0.0668
KORA (1064)	0.08	0.0436
NSPHS (866)	0.00	0.0542
ORCADES (982)	0.05	0.0452
RECOMBINE (446)	0.07	0.0535
STABILITY (2951)	0.04	0.0238
STANLEY (344)	0.04	0.0744
STANLEY (300)	0.34	0.0790
VIS (902)	0.04	0.0519

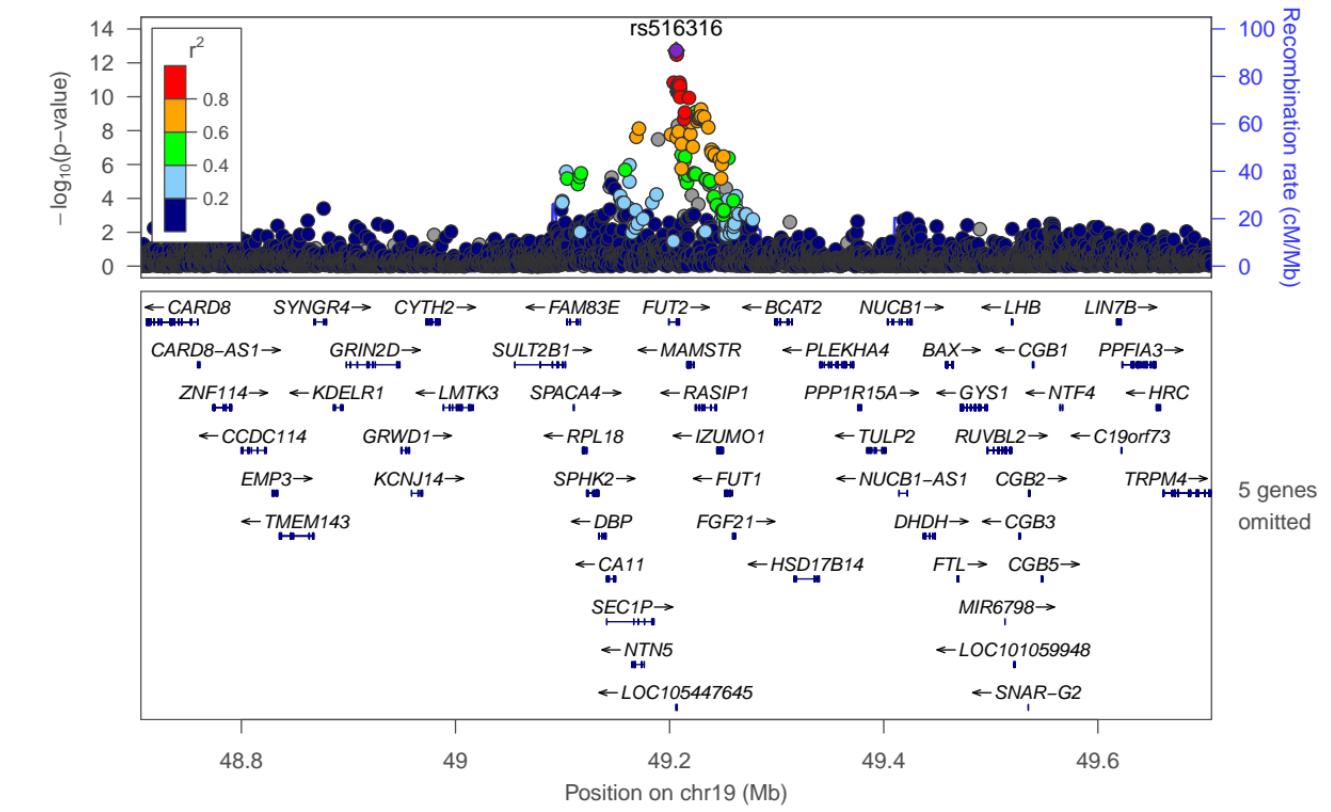
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 57\%$ ,  $\tau^2 = 0.0021$ ,  $p = 0.01$



CST5 (CST5)-rs516316



CST5 [chr20:23858984\_G\_T (rs4815244) (T/G) N=14718]

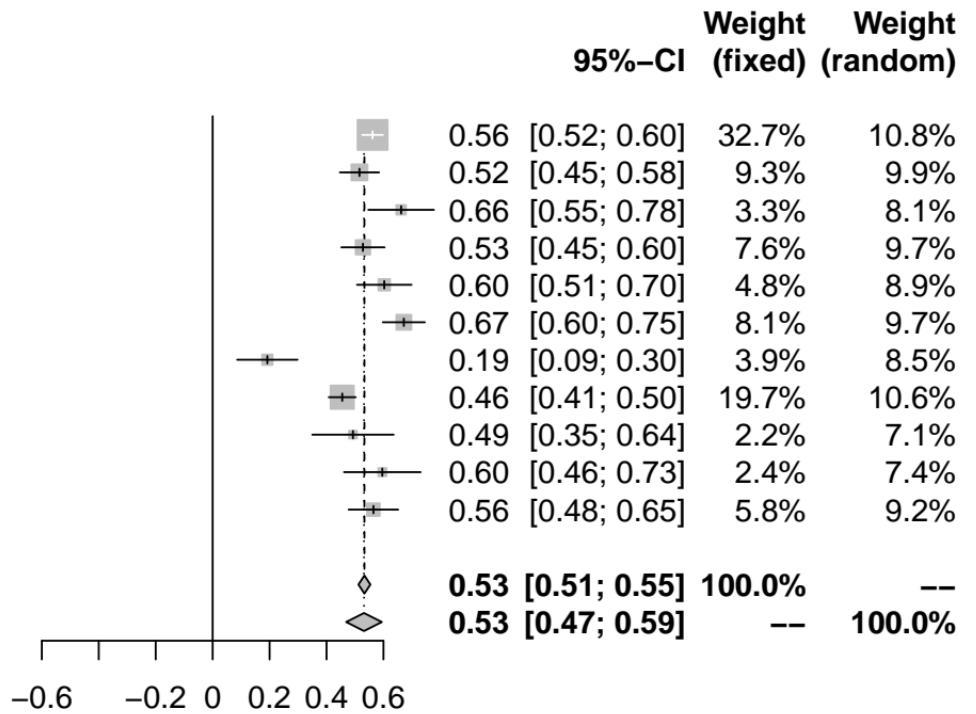
**Study**

	TE	seTE
INTERVAL (4896)	0.56	0.0188
BioFinder (1496)	0.52	0.0352
EGCUT (487)	0.66	0.0588
KORA (1064)	0.53	0.0388
NSPHS (866)	0.60	0.0489
ORCADES (982)	0.67	0.0377
RECOMBINE (430)	0.19	0.0541
STABILITY (2951)	0.46	0.0242
STANLEY (344)	0.49	0.0729
STANLEY (300)	0.60	0.0687
VIS (902)	0.56	0.0445

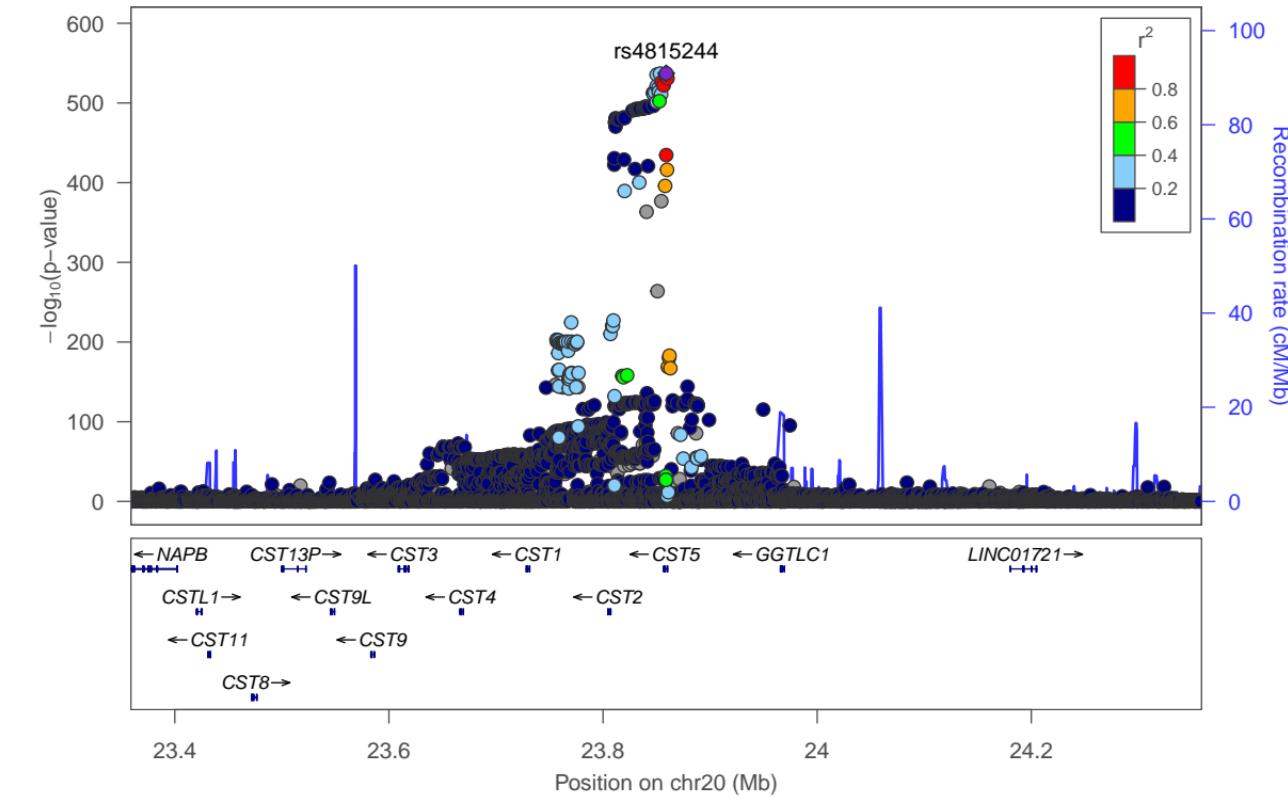
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 87\%$ ,  $\tau^2 = 0.0091$ ,  $p < 0.01$



# CST5 (CST5)-rs4815244



# CX3CL1 (CX3CL1)-rs671623

CX3CL1 [chr16:57412802\_C\_G (rs671623) (C/G) N=14295]

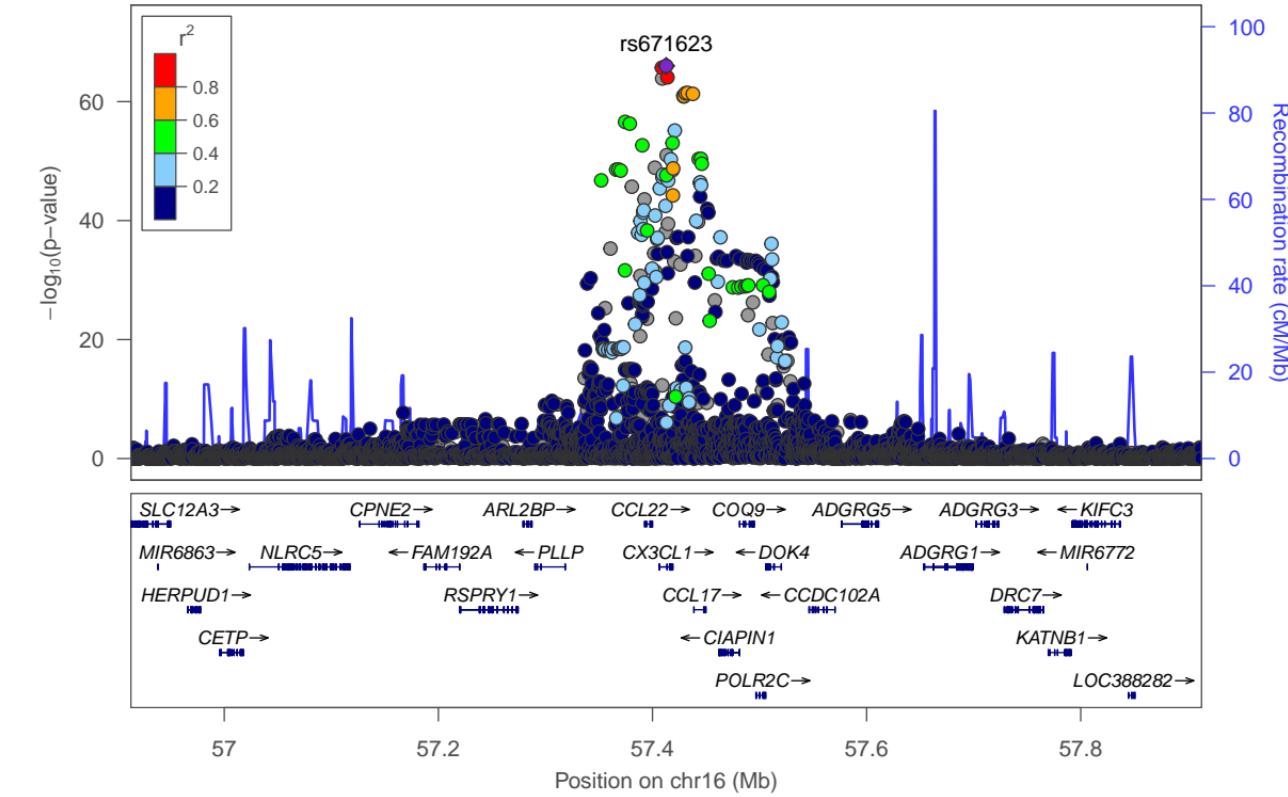
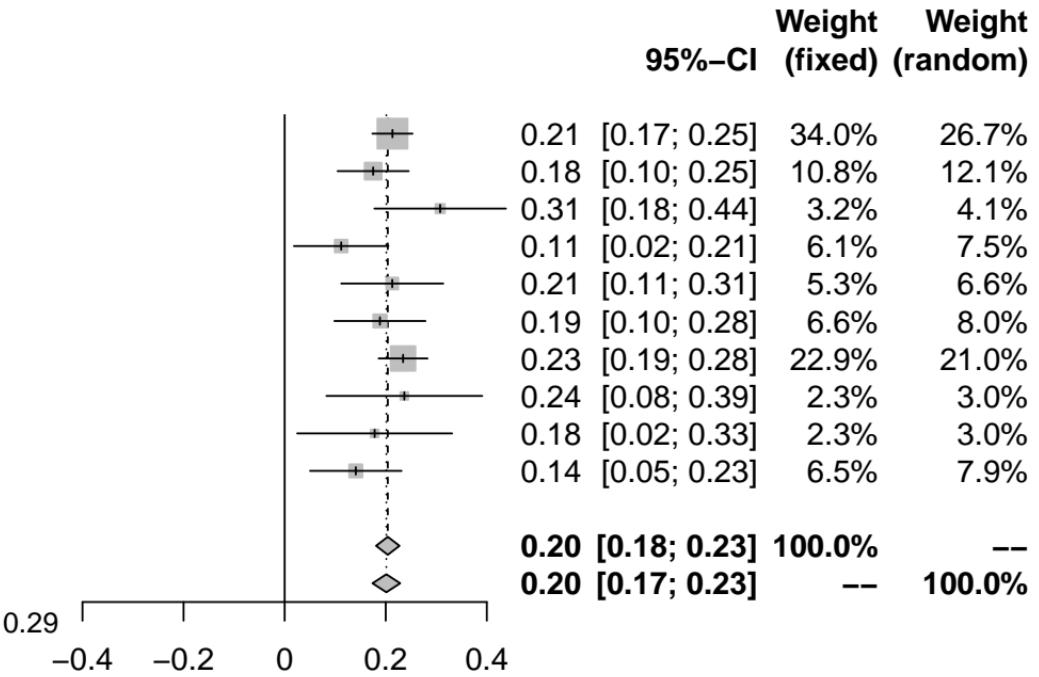
## Study

	TE	seTE
INTERVAL (4896)	0.21	0.0203
BioFinder (1496)	0.18	0.0359
EGCUT (487)	0.31	0.0664
KORA (1064)	0.11	0.0477
NSPHS (874)	0.21	0.0515
ORCADES (982)	0.19	0.0460
STABILITY (2951)	0.23	0.0247
STANLEY (344)	0.24	0.0787
STANLEY (300)	0.18	0.0782
VIS (901)	0.14	0.0462

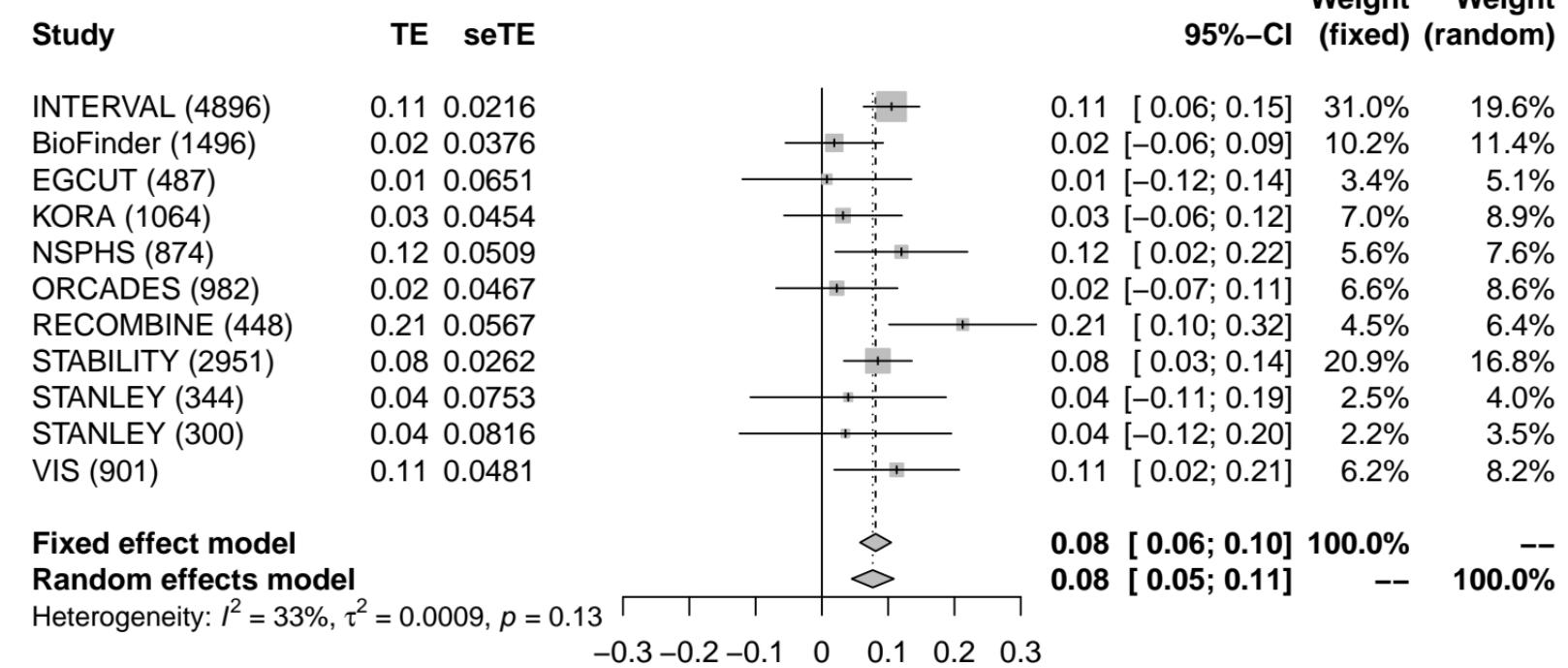
**Fixed effect model**

**Random effects model**

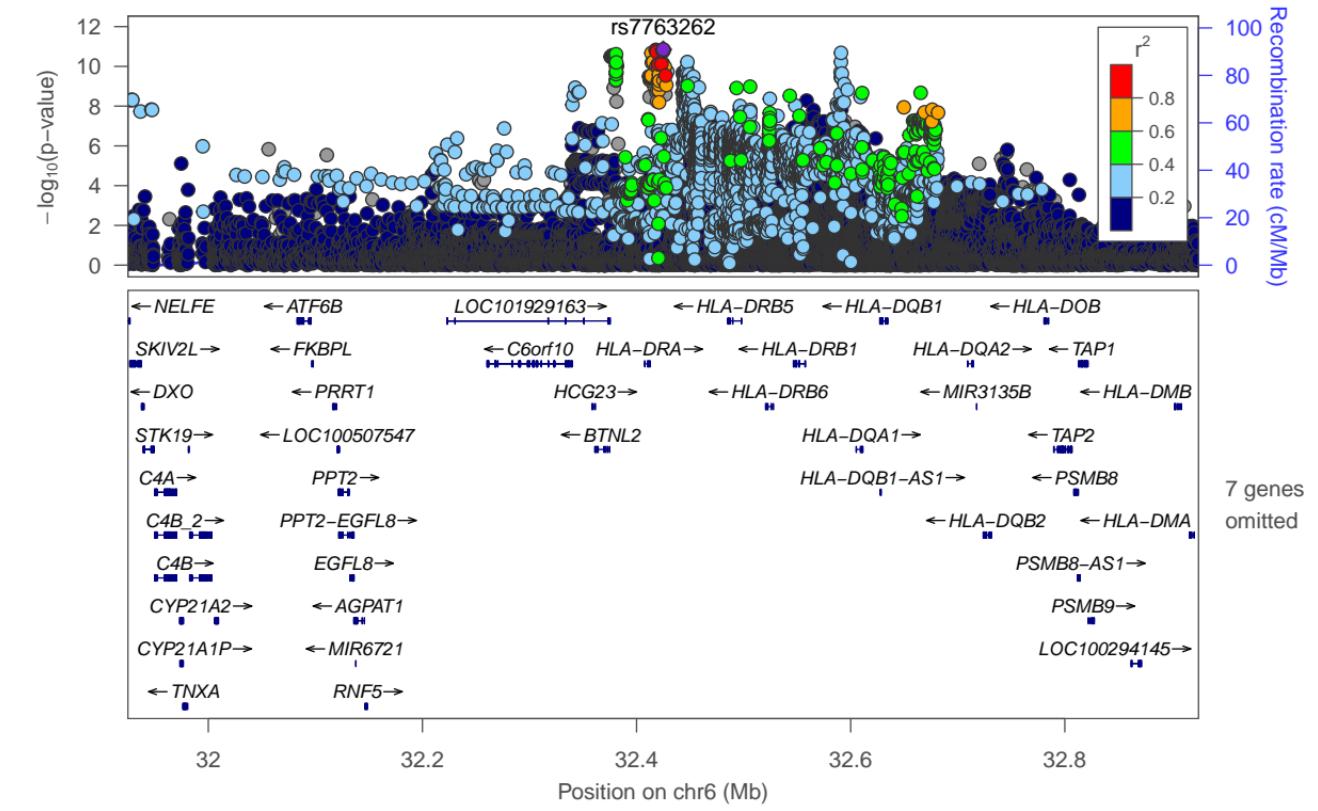
Heterogeneity:  $I^2 = 17\%$ ,  $\tau^2 = 0.0003$ ,  $p = 0.29$



### CX3CL1 [chr6:32424882\_C\_T (rs7763262) (T/C) N=14743]



### CX3CL1 (CX3CL1)-rs7763262

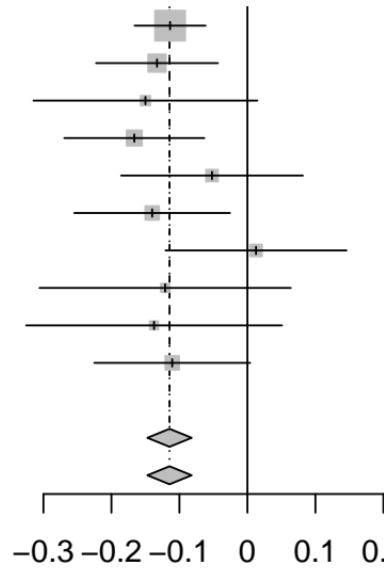


### CX3CL1 [chr9:136155000\_C\_T (rs635634) (T/C) N=11792]

#### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (982)  
RECOMBINE (448)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

TE seTE

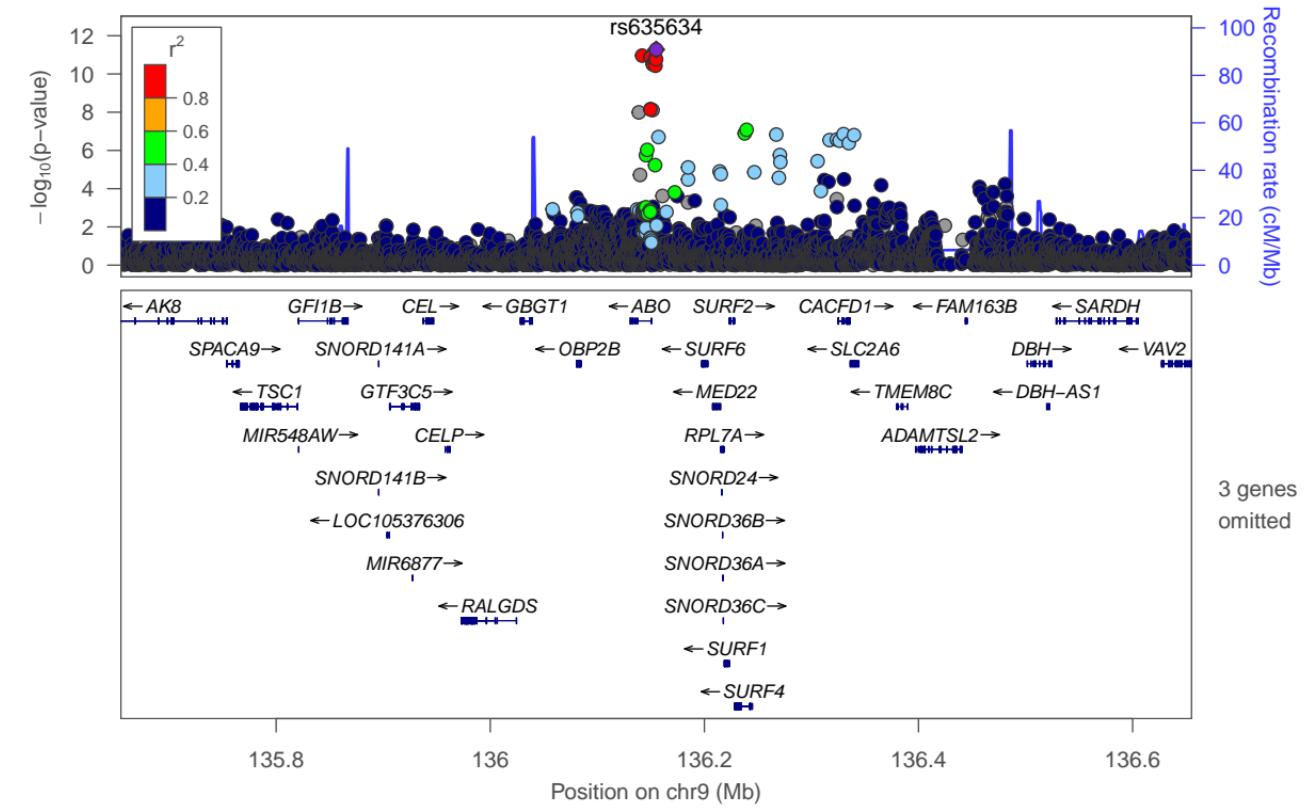


**Fixed effect model**  
**Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.75$

		95%-CI	Weight (fixed)	Weight (random)
		-0.11 [-0.17; -0.06]	38.8%	38.8%
		-0.13 [-0.22; -0.04]	13.2%	13.2%
		-0.15 [-0.31; 0.01]	3.9%	3.9%
		-0.17 [-0.27; -0.06]	10.0%	10.0%
		-0.05 [-0.19; 0.08]	5.9%	5.9%
		-0.14 [-0.25; -0.03]	8.1%	8.1%
		0.01 [-0.12; 0.15]	6.0%	6.0%
		-0.12 [-0.31; 0.06]	3.1%	3.1%
		-0.14 [-0.33; 0.05]	3.0%	3.0%
		-0.11 [-0.23; 0.00]	8.1%	8.1%
		<b>-0.11 [-0.15; -0.08]</b>	<b>100.0%</b>	--
		<b>-0.11 [-0.15; -0.08]</b>	--	<b>100.0%</b>

### CX3CL1 (CX3CL1)-rs635634



## CXCL1 (CXCL1)-rs1366949

CXCL10 [chr12:111884608\_C\_T (rs3184504) (T/C) N=11793]

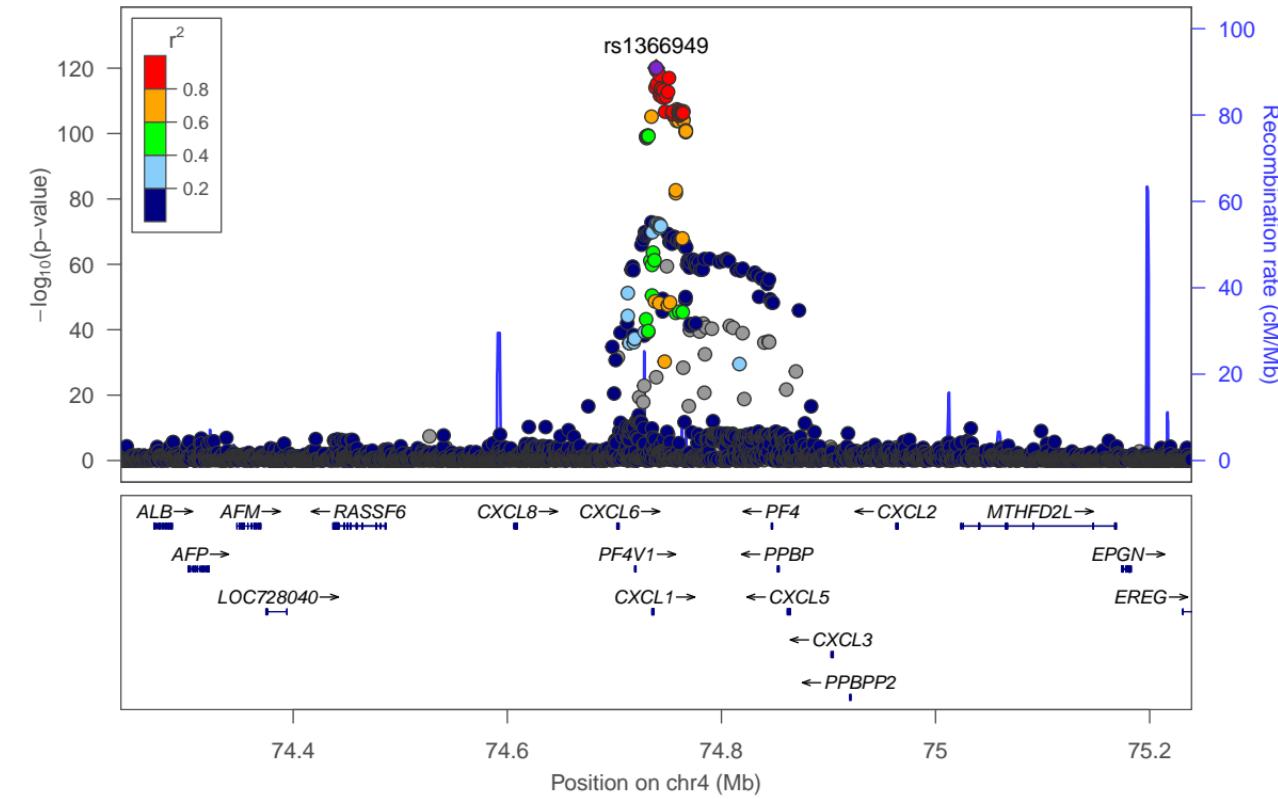
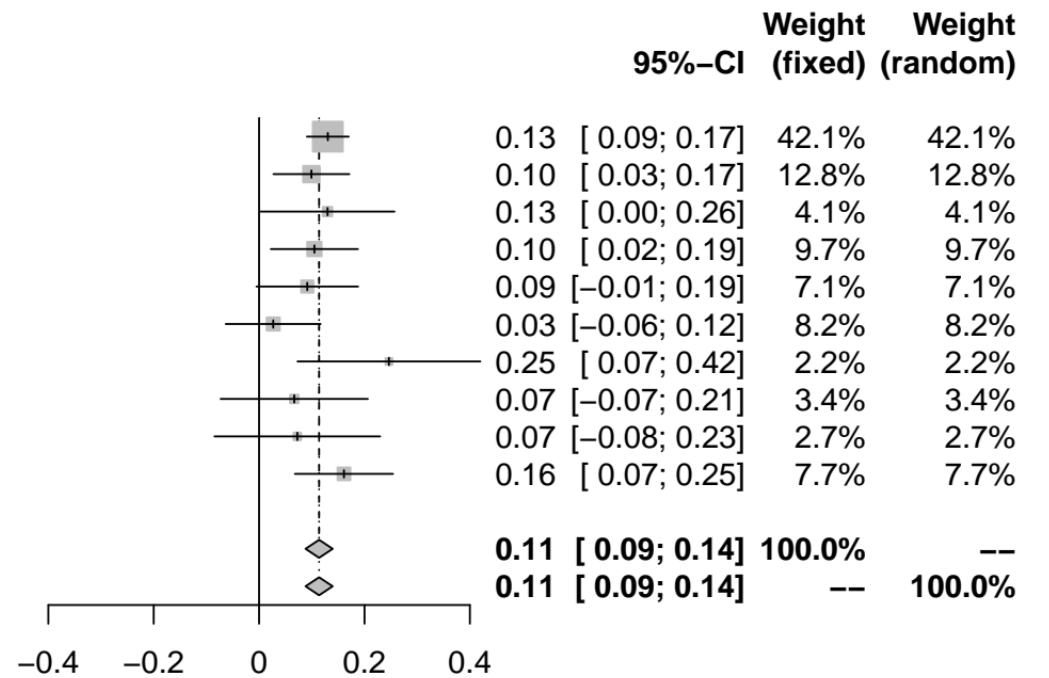
### Study

	TE	seTE
INTERVAL (4896)	0.13	0.0203
BioFinder (1496)	0.10	0.0368
EGCUT (487)	0.13	0.0648
KORA (1064)	0.10	0.0422
NSPHS (874)	0.09	0.0492
ORCADES (982)	0.03	0.0460
RECOMBINE (448)	0.25	0.0885
STANLEY (344)	0.07	0.0713
STANLEY (300)	0.07	0.0802
VIS (902)	0.16	0.0475

### Fixed effect model

### Random effects model

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.47$



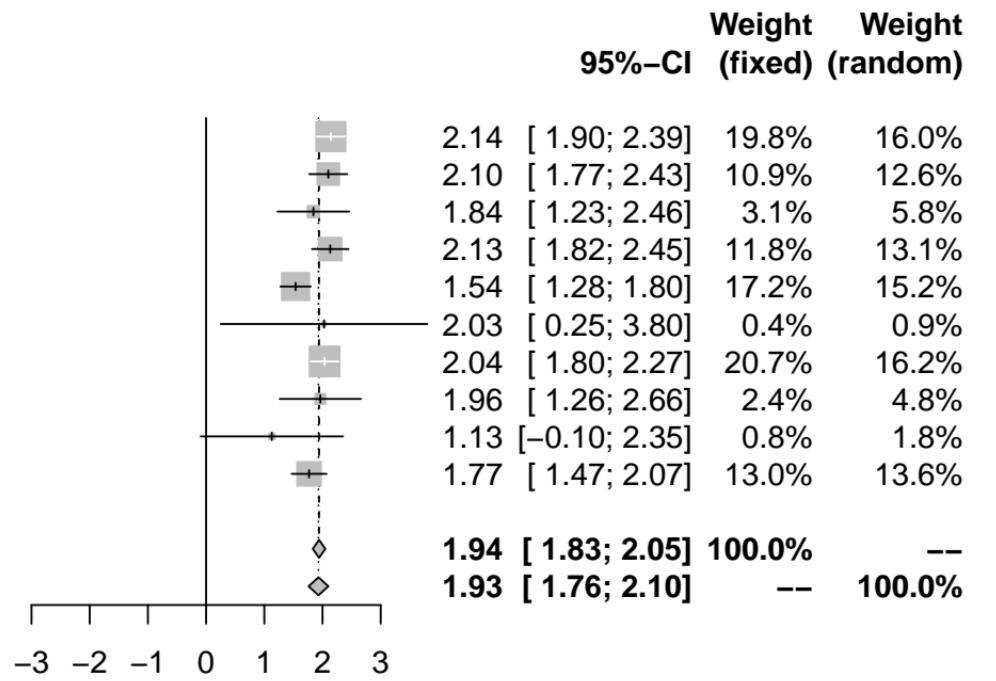
### CXCL10 [chr4:76943947\_A\_G (rs11548618) (A/G) N=14296]

Study	TE	seTE
INTERVAL (4896)	2.14	0.1241
BioFinder (1496)	2.10	0.1671
EGCUT (487)	1.84	0.3147
KORA (1064)	2.13	0.1604
NSPHS (874)	1.54	0.1331
ORCADES (982)	2.03	0.9059
STABILITY (2951)	2.04	0.1213
STANLEY (344)	1.96	0.3565
STANLEY (300)	1.13	0.6246
VIS (902)	1.77	0.1533

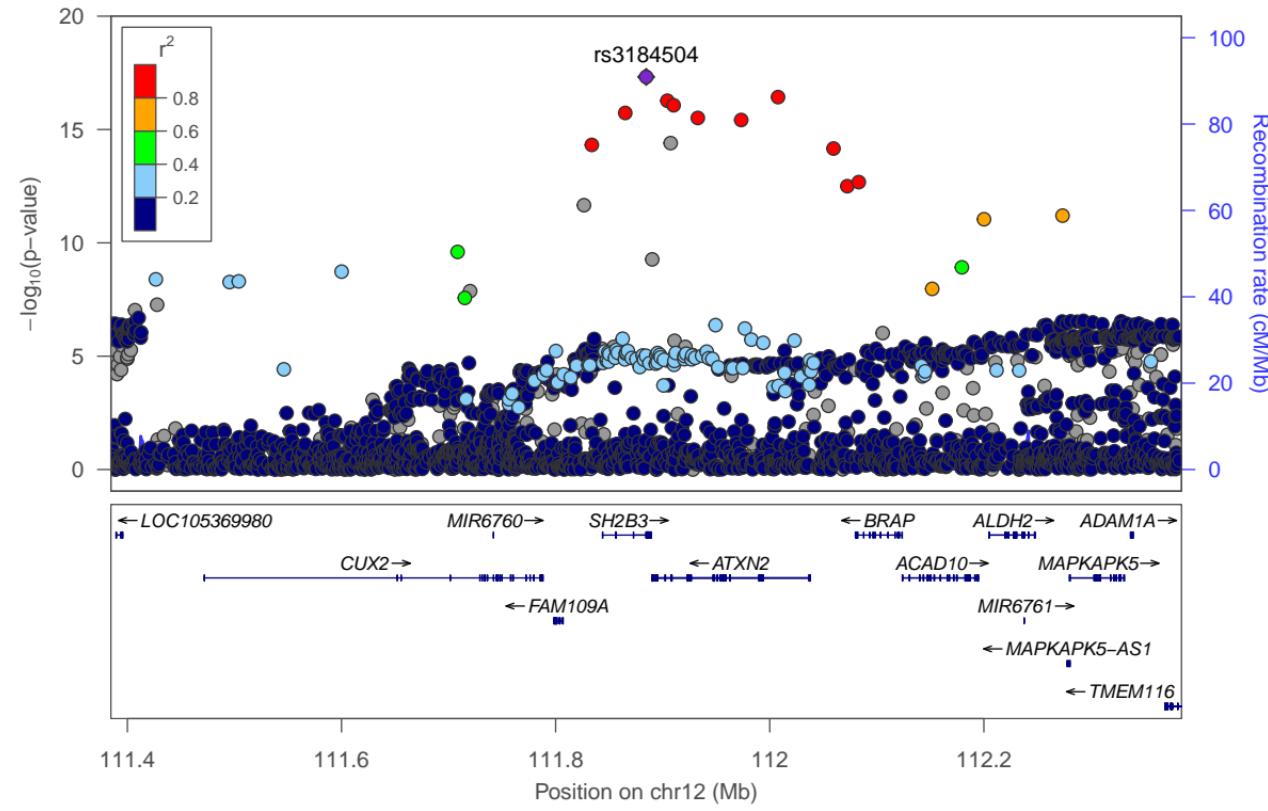
**Fixed effect model**

**Random effects model**

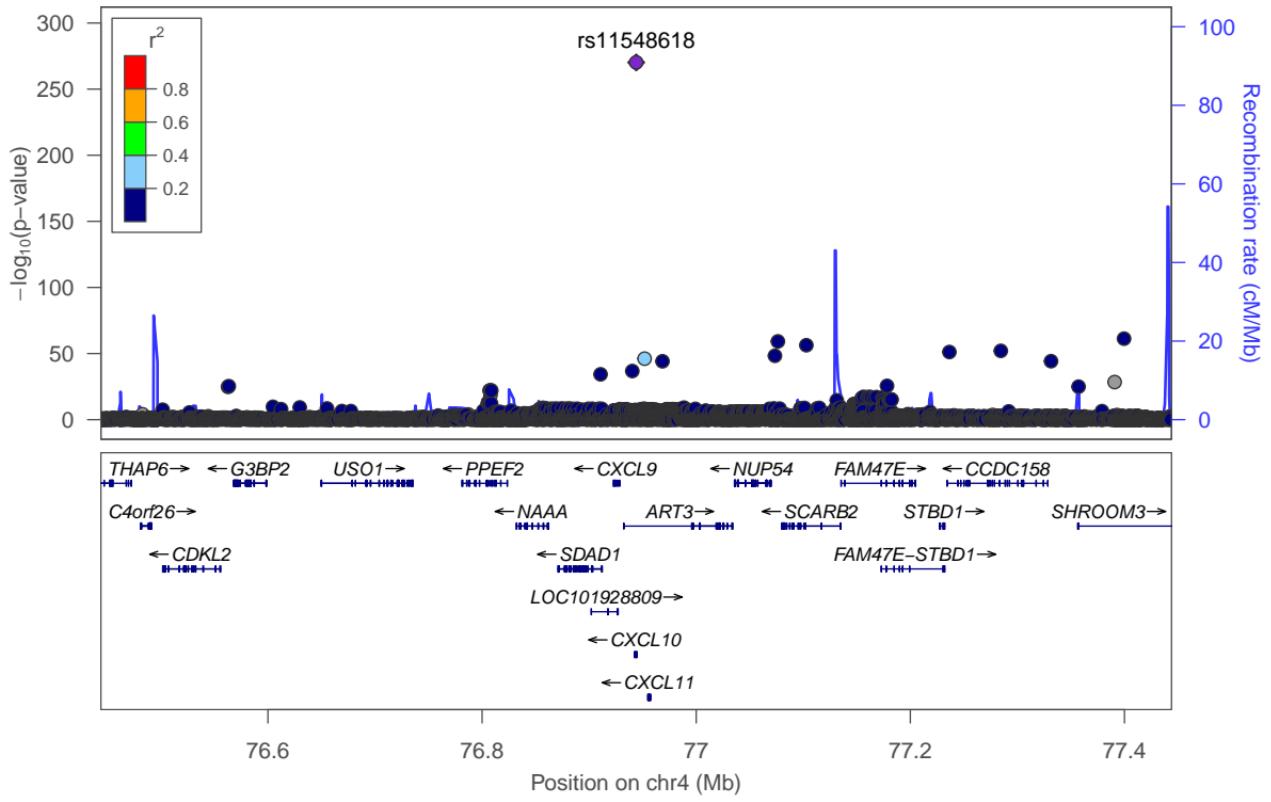
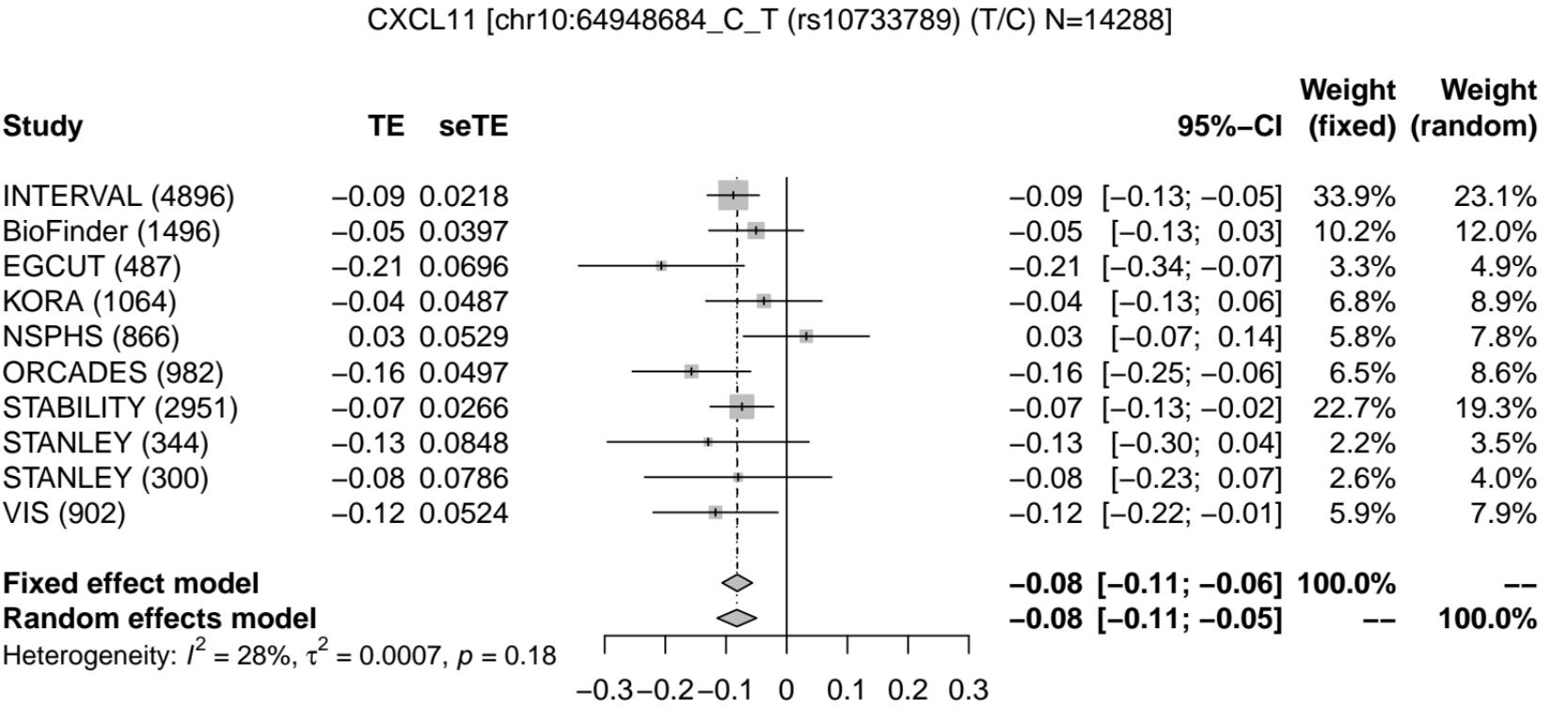
Heterogeneity:  $I^2 = 50\%$ ,  $\tau^2 = 0.0321$ ,  $p = 0.04$



### CXCL10 (CXCL10)-rs3184504



## CXCL10 (CXCL10)-rs11548618



CXCL11 [chr12:111884608\_C\_T (rs3184504) (T/C) N=11785]

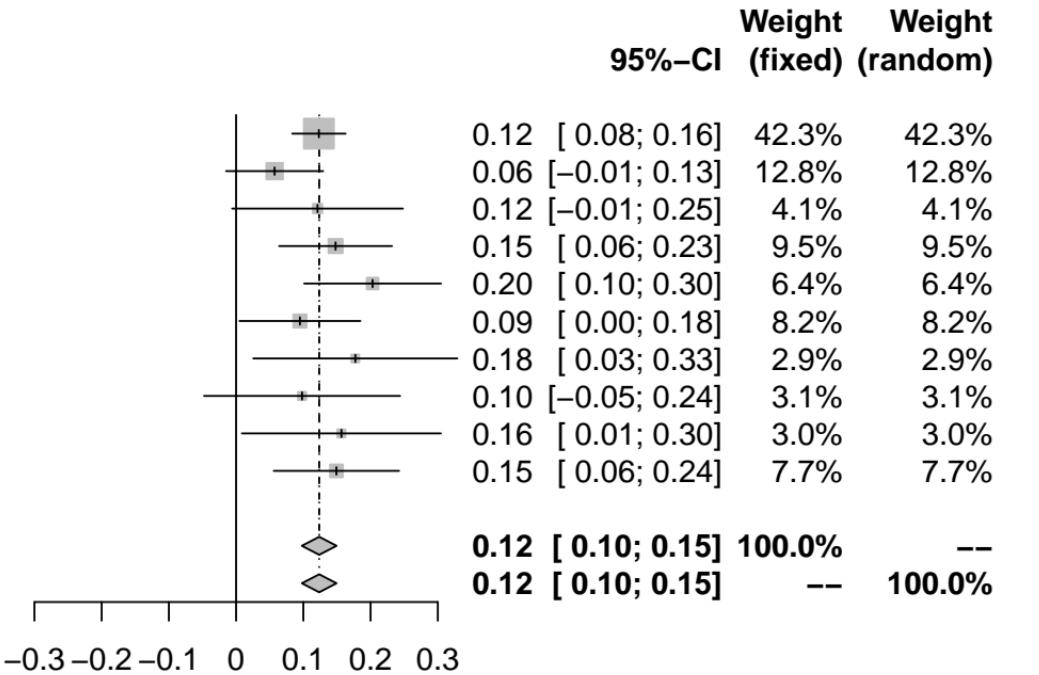
**Study**

	<b>TE</b>	<b>seTE</b>
INTERVAL (4896)	0.12	0.0203
BioFinder (1496)	0.06	0.0368
EGCUT (487)	0.12	0.0648
KORA (1064)	0.15	0.0428
NSPHS (866)	0.20	0.0519
ORCADES (982)	0.09	0.0459
RECOMBINE (448)	0.18	0.0775
STANLEY (344)	0.10	0.0744
STANLEY (300)	0.16	0.0755
VIS (902)	0.15	0.0476

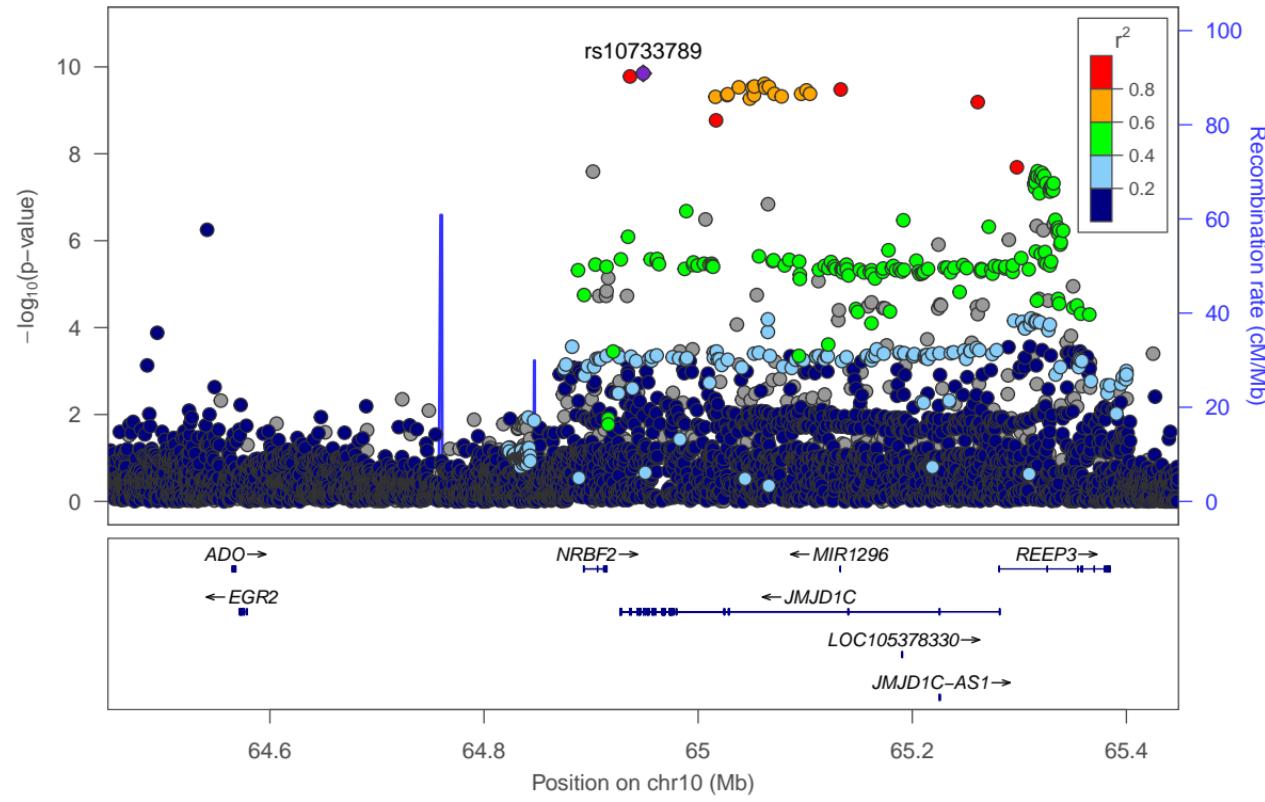
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.60$



CXCL11 (CXCL11)-rs10733789



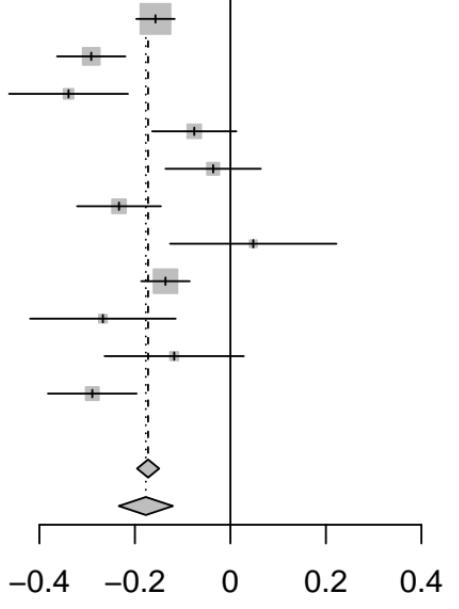
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (430)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

CXCL11 [chr4:76916146\_A\_G (rs6827617) (A/G) N=14718]

**TE seTE**

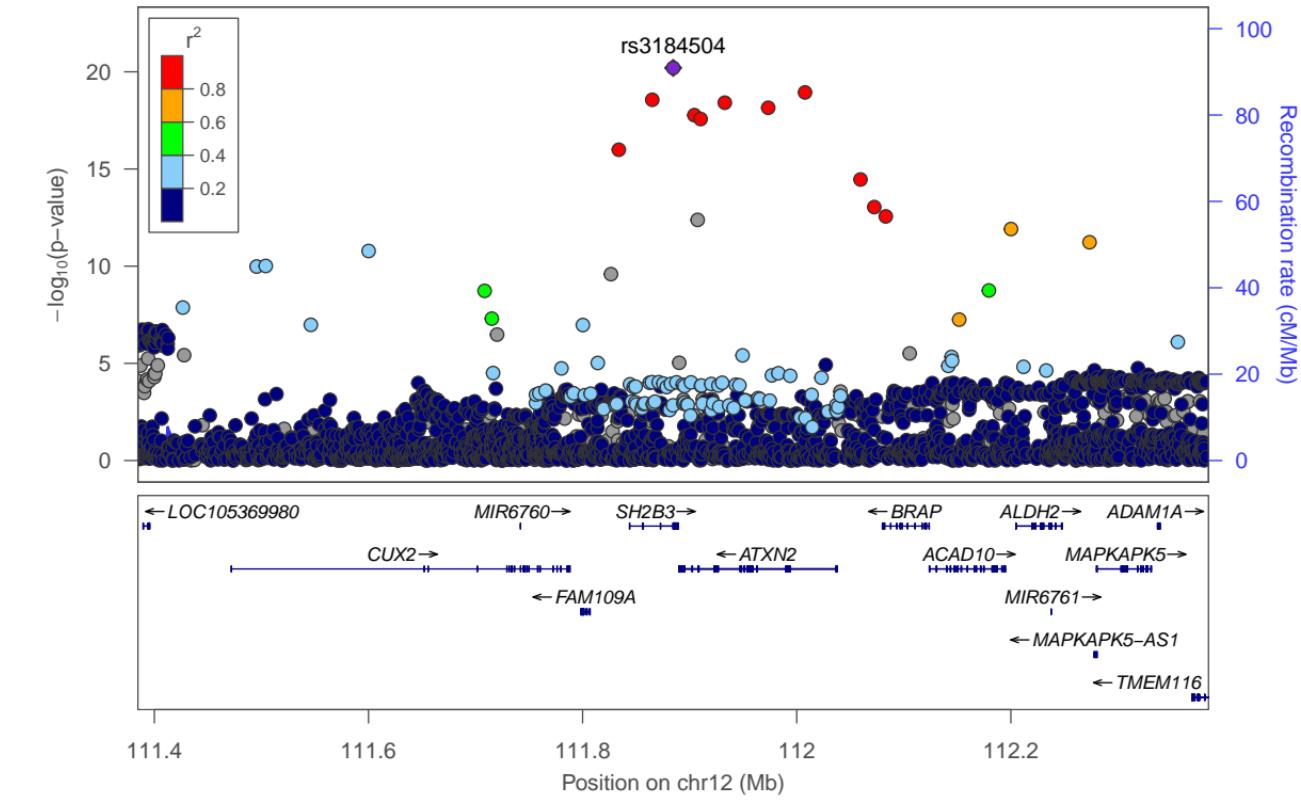
-0.16 0.0206  
-0.29 0.0365  
-0.34 0.0635  
-0.08 0.0450  
-0.04 0.0510  
-0.23 0.0448  
0.05 0.0889  
-0.14 0.0259  
-0.27 0.0778  
-0.12 0.0744  
-0.29 0.0474

**95%-CI Weight (fixed) Weight (random)**

	95%-CI	Weight (fixed)	Weight (random)
-0.16 [-0.20; -0.12]	33.1%	12.1%	
-0.29 [-0.36; -0.22]	10.5%	10.7%	
-0.34 [-0.46; -0.21]	3.5%	7.9%	
-0.08 [-0.16; 0.01]	6.9%	9.8%	
-0.04 [-0.14; 0.06]	5.4%	9.2%	
-0.23 [-0.32; -0.15]	7.0%	9.8%	
0.05 [-0.13; 0.22]	1.8%	5.8%	
-0.14 [-0.19; -0.09]	20.8%	11.6%	
-0.27 [-0.42; -0.11]	2.3%	6.6%	
-0.12 [-0.26; 0.03]	2.5%	6.9%	
-0.29 [-0.38; -0.20]	6.2%	9.5%	
<b>-0.17 [-0.20; -0.15]</b>	<b>100.0%</b>	--	
<b>-0.18 [-0.23; -0.12]</b>	--	<b>100.0%</b>	

**Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 79\%$ ,  $\tau^2 = 0.0065$ ,  $p < 0.01$ 

CXCL11 (CXCL11)-rs3184504

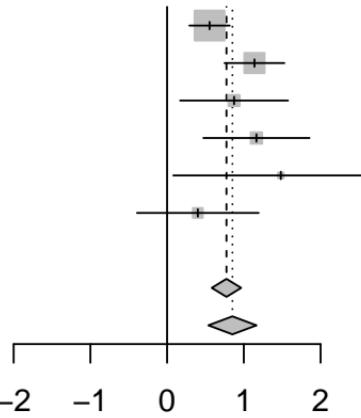


CXCL11 [chr7:101699589\_G\_T (rs141588580) (T/G) N=9082]

**Study**

	TE	seTE
INTERVAL (4896)	0.55	0.1344
BioFinder (1496)	1.14	0.1992
KORA (1064)	0.87	0.3589
ORCADES (982)	1.16	0.3532
STANLEY (344)	1.48	0.7154
STANLEY (300)	0.40	0.4048

**TE seTE**



**95%-CI Weight (fixed) Weight (random)**

0.55 [ 0.29; 0.82]	53.0%	32.0%
1.14 [ 0.75; 1.53]	24.1%	25.2%
0.87 [ 0.17; 1.58]	7.4%	13.4%
1.16 [ 0.47; 1.86]	7.7%	13.7%
1.48 [ 0.08; 2.88]	1.9%	4.5%
0.40 [-0.39; 1.19]	5.8%	11.3%

**0.77 [ 0.58; 0.97] 100.0%**

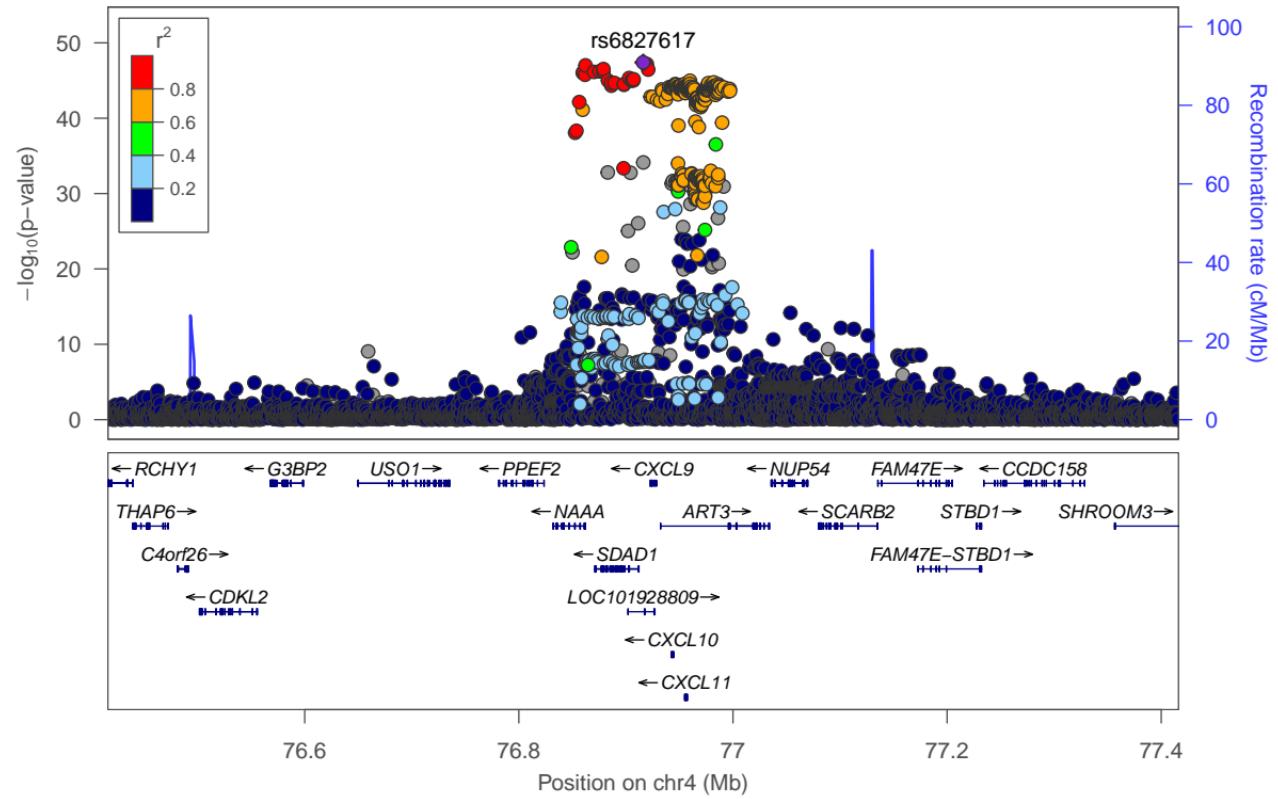
**0.85 [ 0.54; 1.16] -- 100.0%**

**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 46\%$ ,  $\tau^2 = 0.0620$ ,  $p = 0.10$

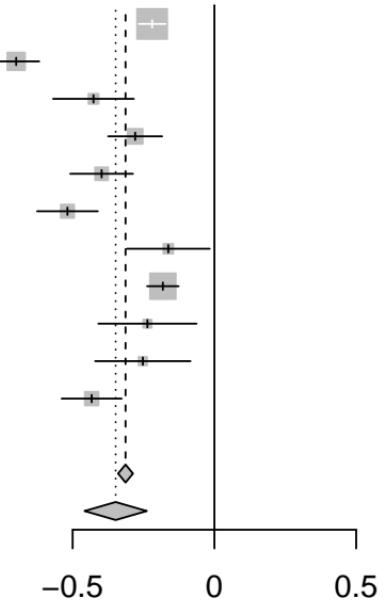
# CXCL11 (CXCL11)-rs6827617



**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (443)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

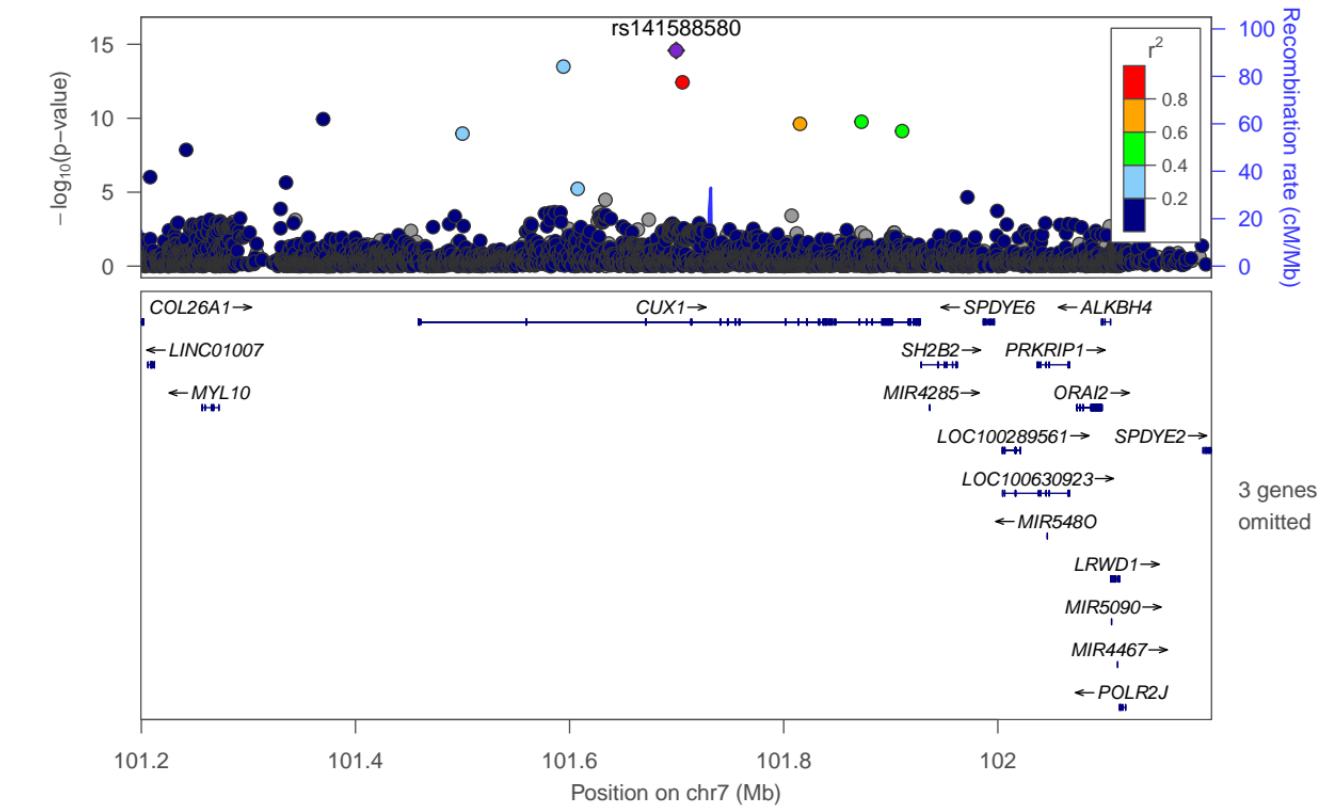
## CXCL1 [chr4:74739076\_G\_T (rs1366949) (T/G) N=14731]

**TE**-0.22 0.0243  
-0.70 0.0415  
-0.43 0.0727  
-0.28 0.0486  
-0.40 0.0565  
-0.52 0.0547  
-0.16 0.0746  
-0.18 0.0284  
-0.24 0.0884  
-0.25 0.0858  
-0.43 0.0540
**95%-CI**  
**Weight (fixed)**  
**Weight (random)**

	95%-CI	Weight (fixed)	Weight (random)
-0.22 [-0.27; -0.17]	30.5%	9.9%	
-0.70 [-0.78; -0.62]	10.4%	9.6%	
-0.43 [-0.57; -0.28]	3.4%	8.7%	
-0.28 [-0.37; -0.18]	7.6%	9.4%	
-0.40 [-0.51; -0.29]	5.6%	9.2%	
-0.52 [-0.63; -0.41]	6.0%	9.2%	
-0.16 [-0.31; -0.02]	3.2%	8.6%	
-0.18 [-0.24; -0.13]	22.3%	9.9%	
-0.24 [-0.41; -0.06]	2.3%	8.1%	
-0.25 [-0.42; -0.08]	2.4%	8.2%	
-0.43 [-0.54; -0.33]	6.2%	9.3%	
<b>-0.31 [-0.34; -0.29]</b>	<b>100.0%</b>	--	
<b>-0.35 [-0.46; -0.24]</b>	--	<b>100.0%</b>	

**Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 93\%$ ,  $\tau^2 = 0.0309$ ,  $p < 0.01$ 

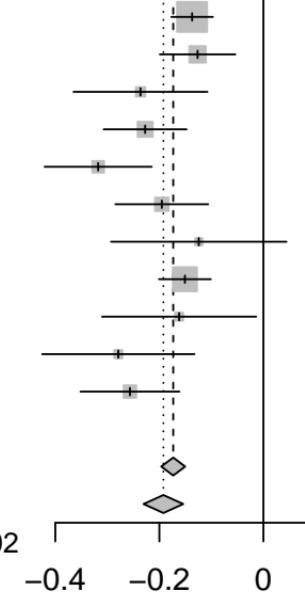
## CXCL11 (CXCL11)-rs141588580



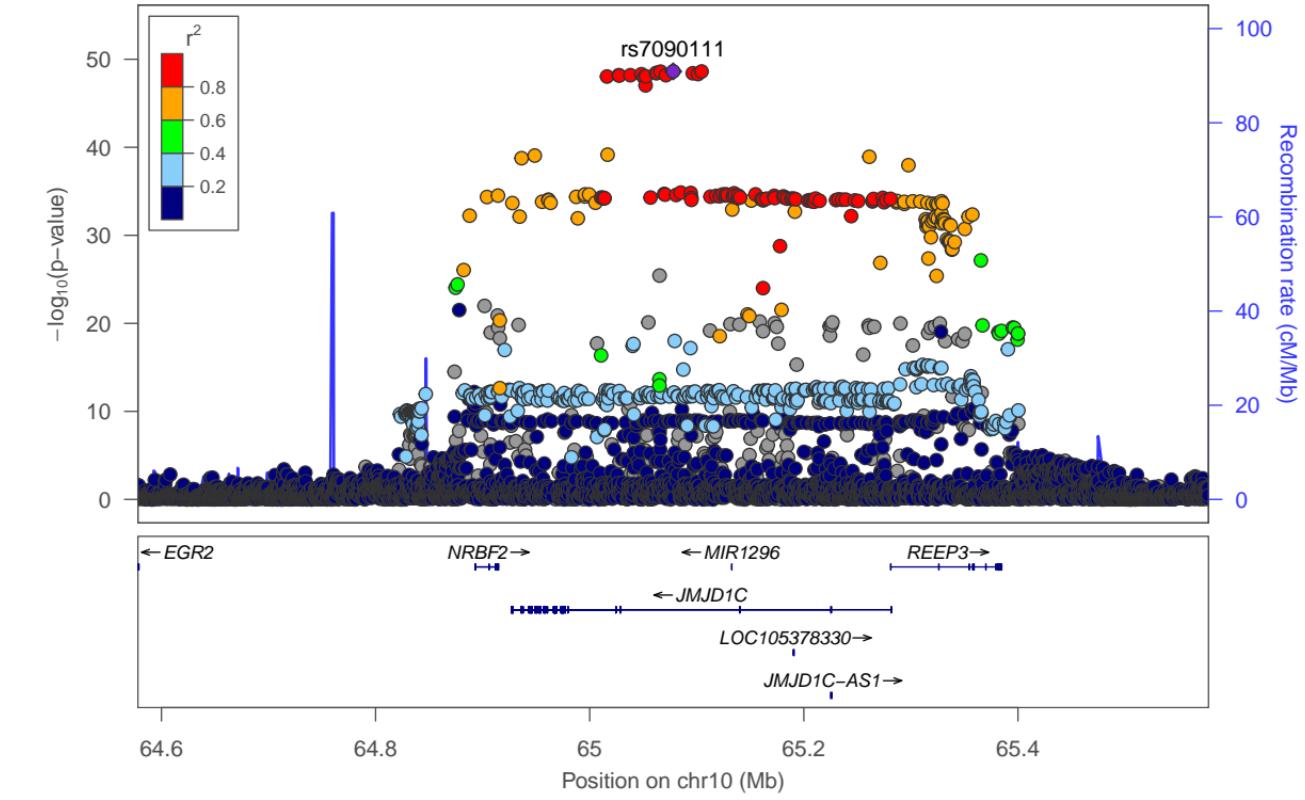
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (448)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

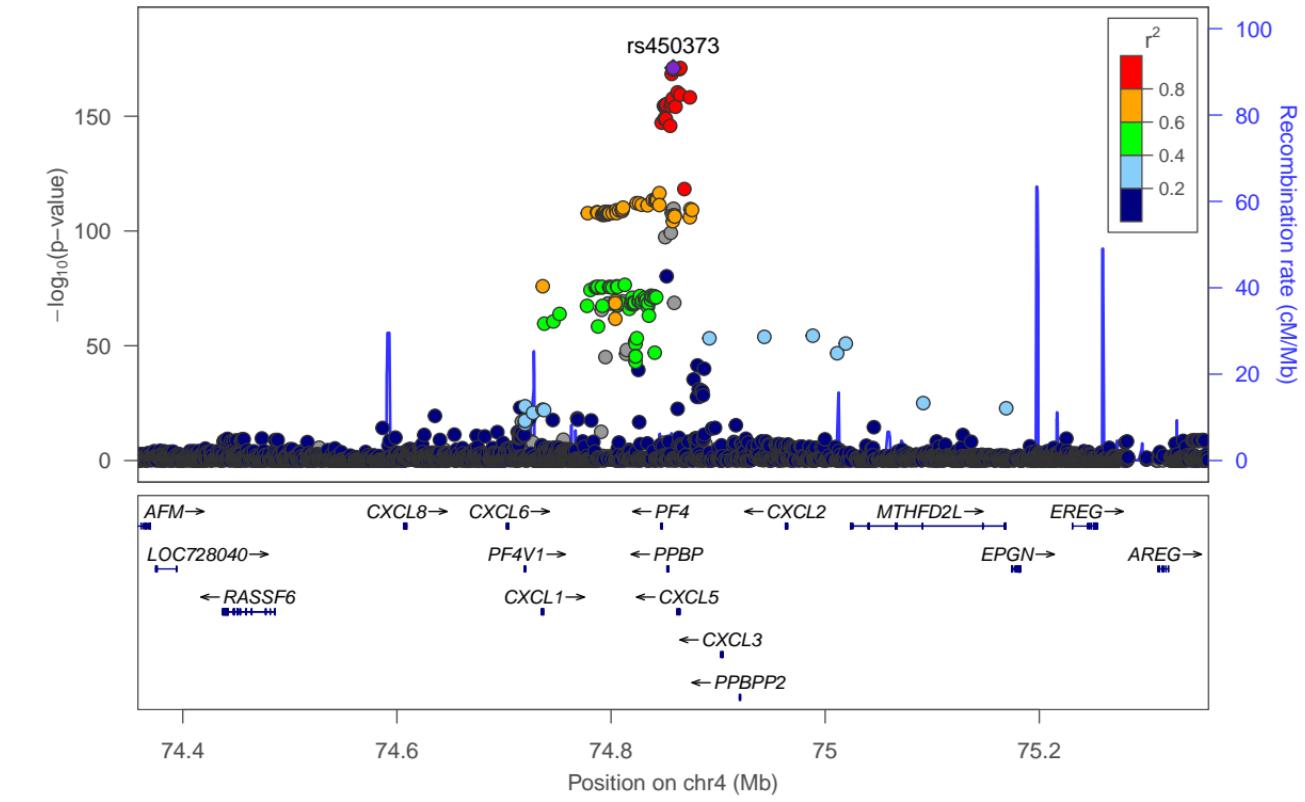
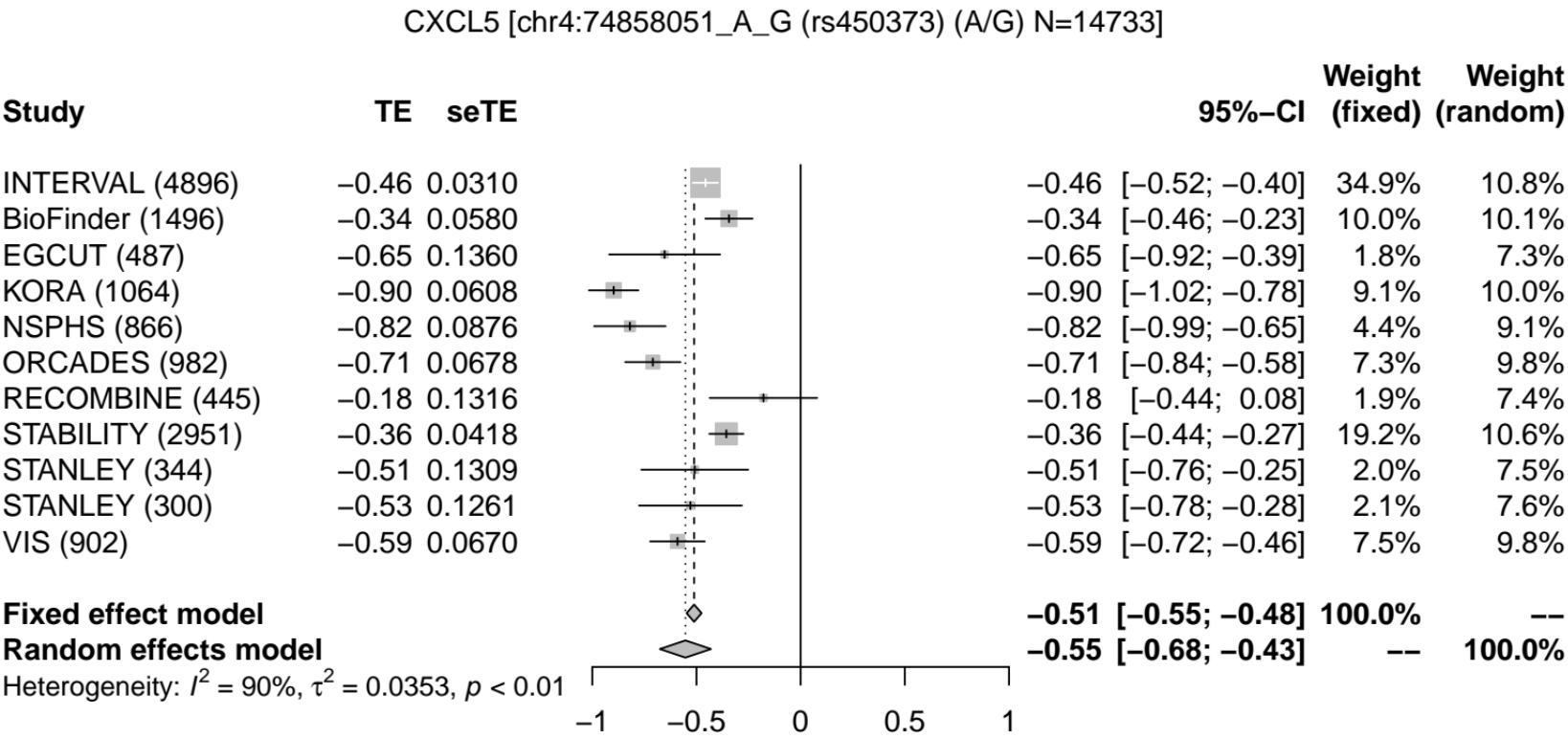
CXCL5 [chr10:65077994\_C\_G (rs7090111) (C/G) N=14736]

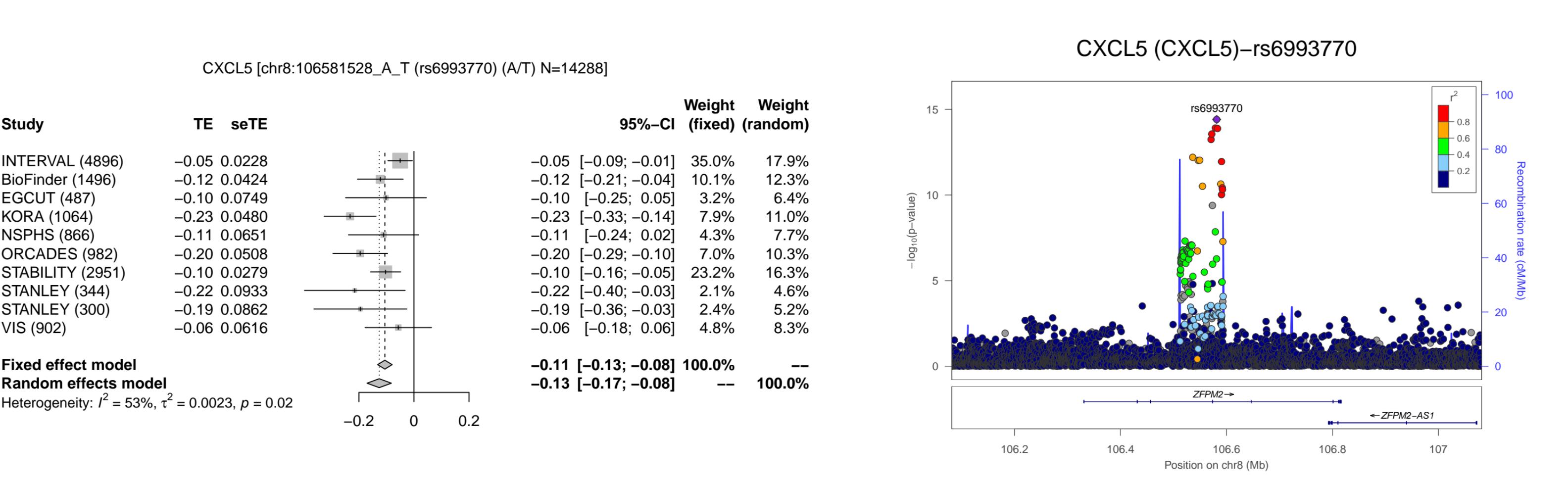
**TE****seTE**

Heterogeneity:  $I^2 = 53\%$ ,  $\tau^2 = 0.0019$ ,  $p = 0.02$

**95%-CI****Weight (fixed)****Weight (random)**

## CXCL5 (CXCL5)-rs450373





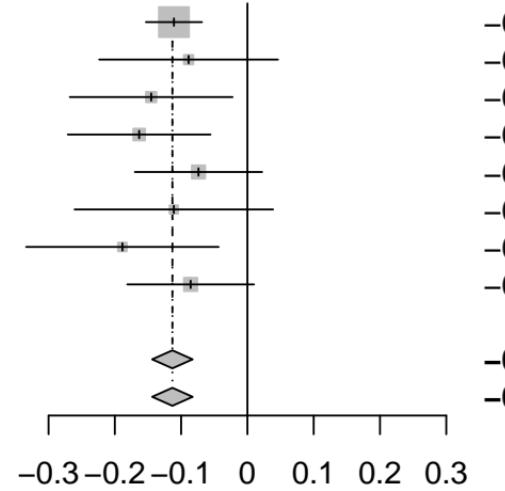
**Study**

INTERVAL (4896)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

**Fixed effect model**  
**Random effects model**

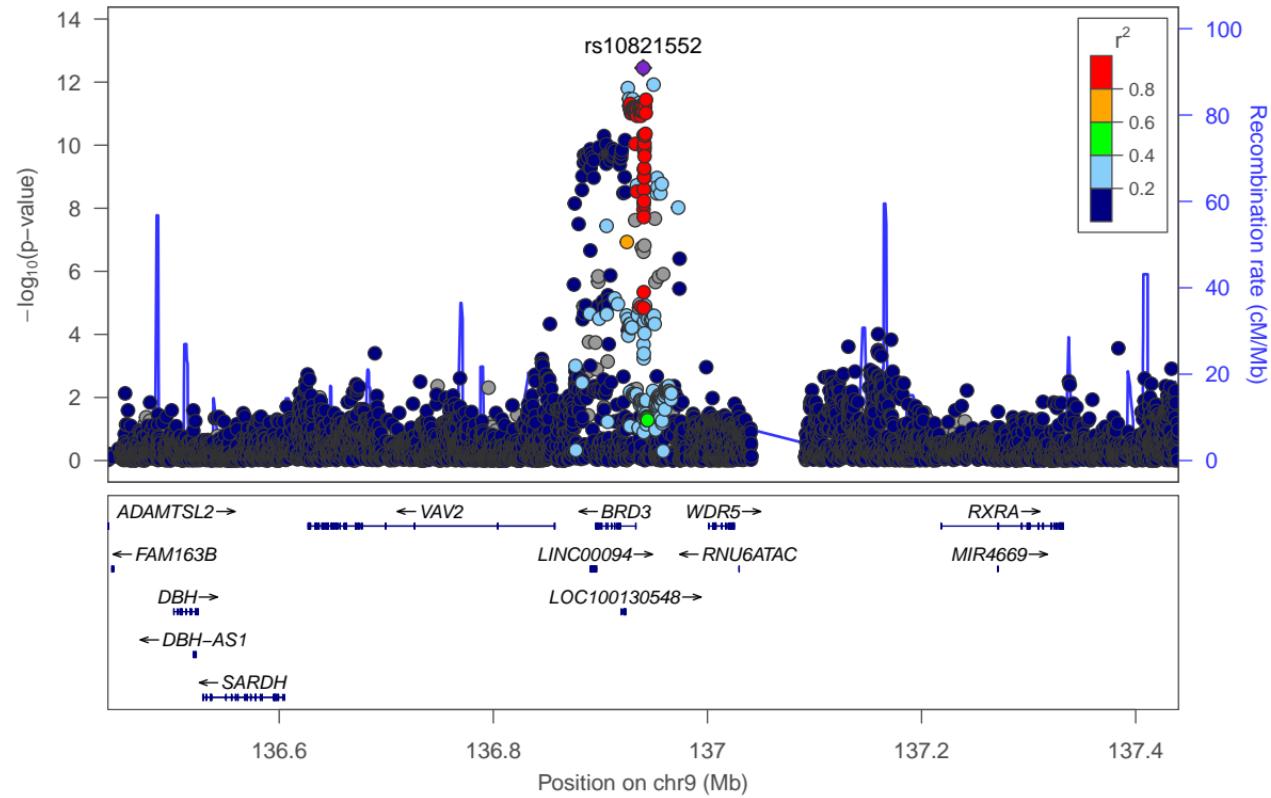
Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.86$

## CXCL5 [chr9:136939992\_A\_C (rs10821552) (A/C) N=9841]

**TE seTE**

		95%-CI	Weight (fixed)	Weight (random)
		-0.11 [-0.15; -0.07]	51.9%	51.9%
		-0.09 [-0.22; 0.05]	5.1%	5.1%
		-0.15 [-0.27; -0.02]	6.2%	6.2%
		-0.16 [-0.27; -0.06]	8.0%	8.0%
		-0.07 [-0.17; 0.02]	10.1%	10.1%
		-0.11 [-0.26; 0.04]	4.1%	4.1%
		-0.19 [-0.33; -0.04]	4.4%	4.4%
		-0.09 [-0.18; 0.01]	10.2%	10.2%
		<b>-0.11 [-0.14; -0.08]</b>	<b>100.0%</b>	--
		<b>-0.11 [-0.14; -0.08]</b>	--	<b>100.0%</b>

## CXCL5 (CXCL5)-rs10821552



CXCL6 [chr1:159175354\_A\_G (rs12075) (A/G) N=14741]

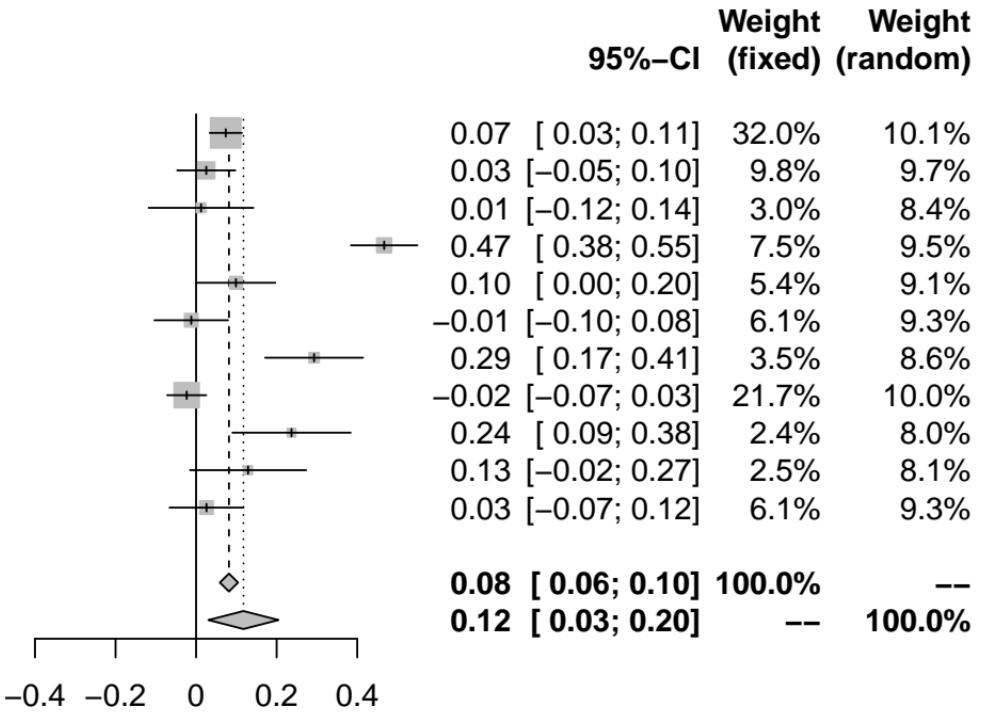
**Study**

	TE	seTE
INTERVAL (4896)	0.07	0.0204
BioFinder (1496)	0.03	0.0368
EGCUT (487)	0.01	0.0664
KORA (1064)	0.47	0.0421
NSPHS (874)	0.10	0.0498
ORCADES (982)	-0.01	0.0466
RECOMBINE (445)	0.29	0.0620
STABILITY (2951)	-0.02	0.0248
STANLEY (344)	0.24	0.0749
STANLEY (300)	0.13	0.0736
VIS (902)	0.03	0.0469

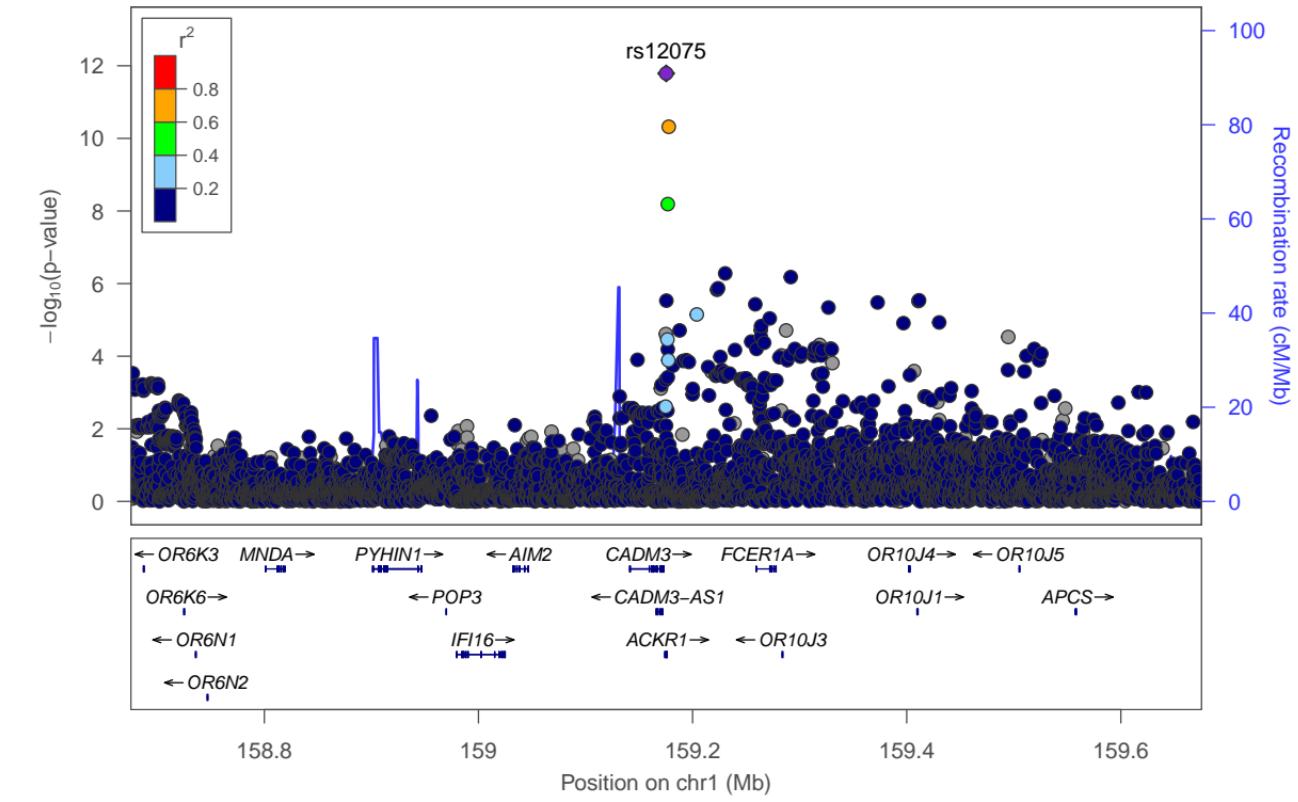
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 92\%$ ,  $\tau^2 = 0.0190$ ,  $p < 0.01$



CXCL6 (CXCL6)-rs12075



## CXCL6 (CXCL6)-rs16850073

CXCL6 [chr4:74703999\_C\_T (rs16850073) (T/C) N=14296]

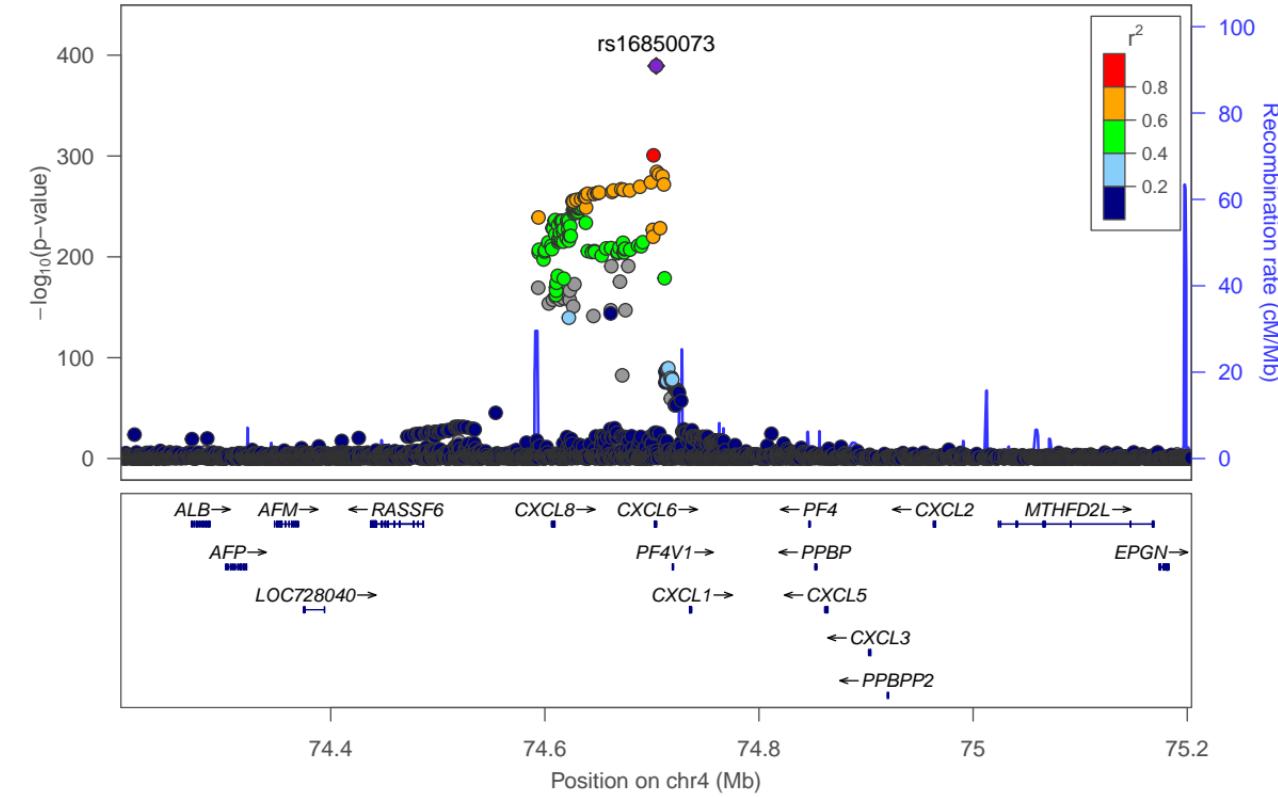
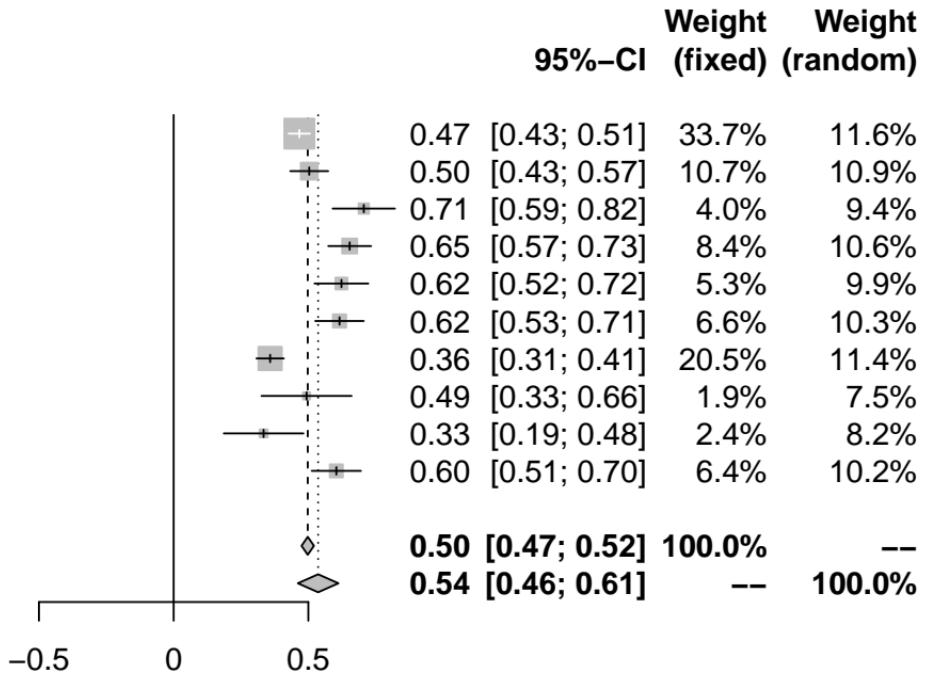
### Study

	TE	seTE
INTERVAL (4896)	0.47	0.0203
BioFinder (1496)	0.50	0.0359
EGCUT (487)	0.71	0.0590
KORA (1064)	0.65	0.0406
NSPHS (874)	0.62	0.0510
ORCADES (982)	0.62	0.0460
STABILITY (2951)	0.36	0.0260
STANLEY (344)	0.49	0.0854
STANLEY (300)	0.33	0.0755
VIS (902)	0.60	0.0466

Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 89\%$ ,  $\tau^2 = 0.0123$ ,  $p < 0.01$



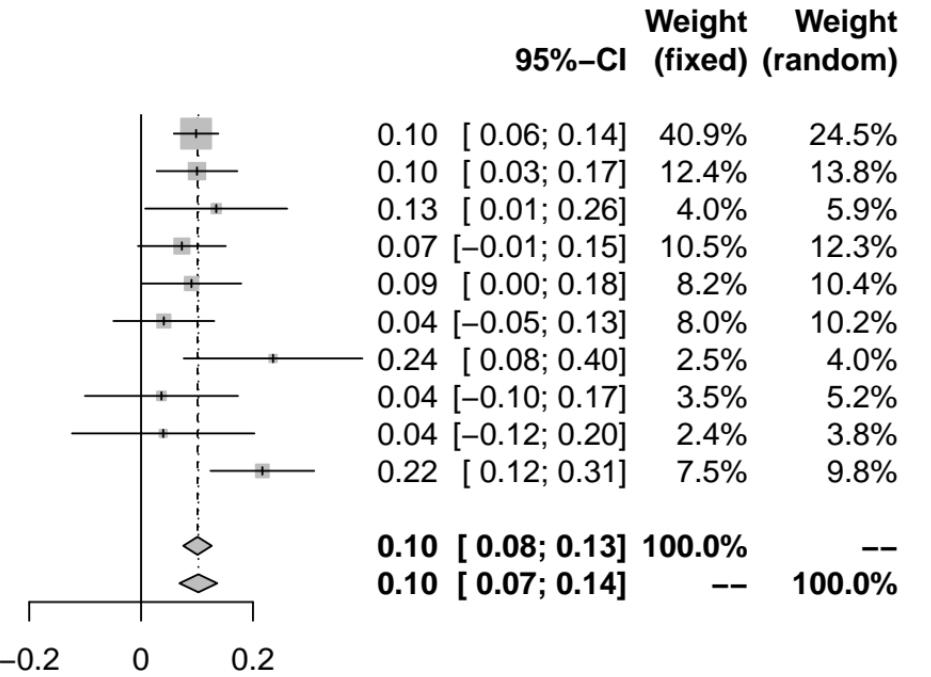
CXCL9 [chr12:111884608\_C\_T (rs3184504) (T/C) N=11784]

Study	TE	seTE
INTERVAL (4896)	0.10	0.0203
BioFinder (1496)	0.10	0.0368
EGCUT (487)	0.13	0.0647
KORA (1064)	0.07	0.0401
NSPHS (866)	0.09	0.0454
ORCADES (982)	0.04	0.0460
RECOMBINE (448)	0.24	0.0815
STANLEY (344)	0.04	0.0698
STANLEY (300)	0.04	0.0832
VIS (901)	0.22	0.0473

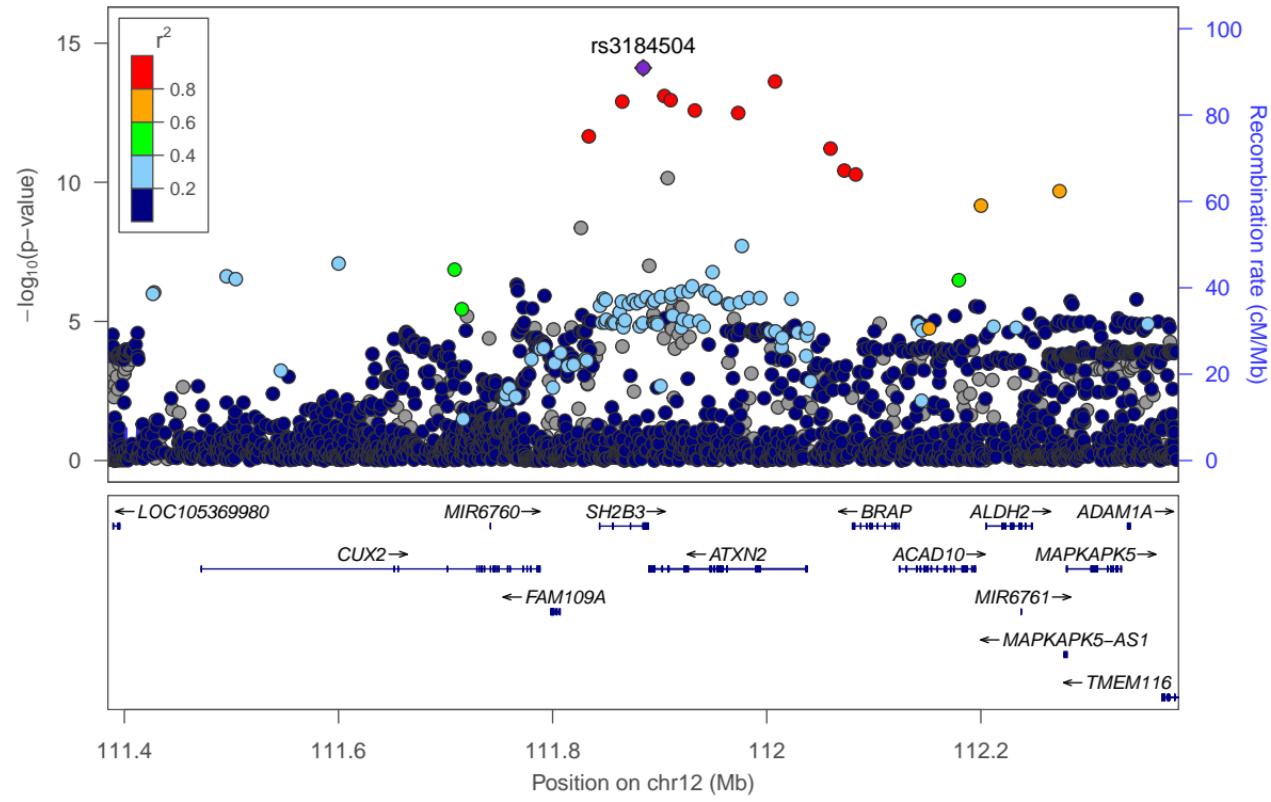
Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 29\%$ ,  $\tau^2 = 0.0008$ ,  $p = 0.18$



# CXCL9 (CXCL9)-rs3184504



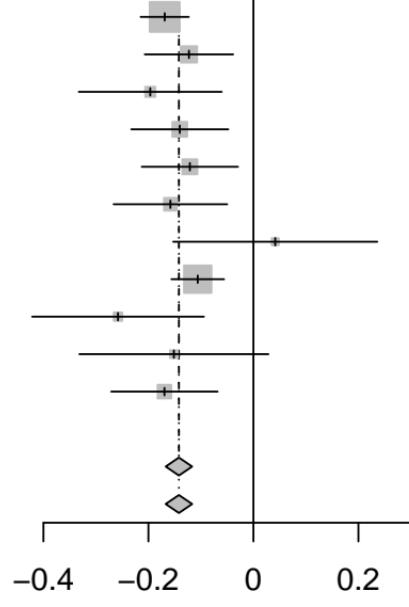
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (437)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

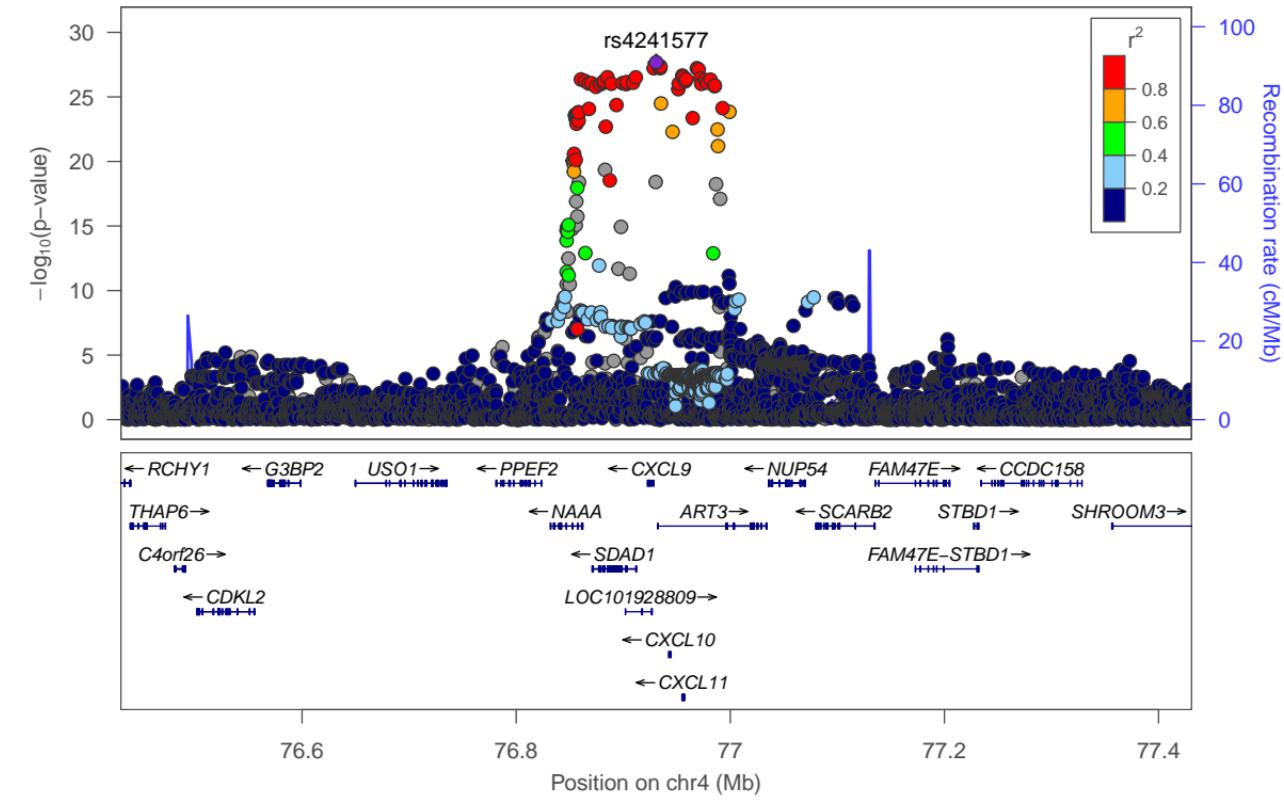
CXCL9 [chr4:76930776\_A\_C (rs4241577) (A/C) N=14724]

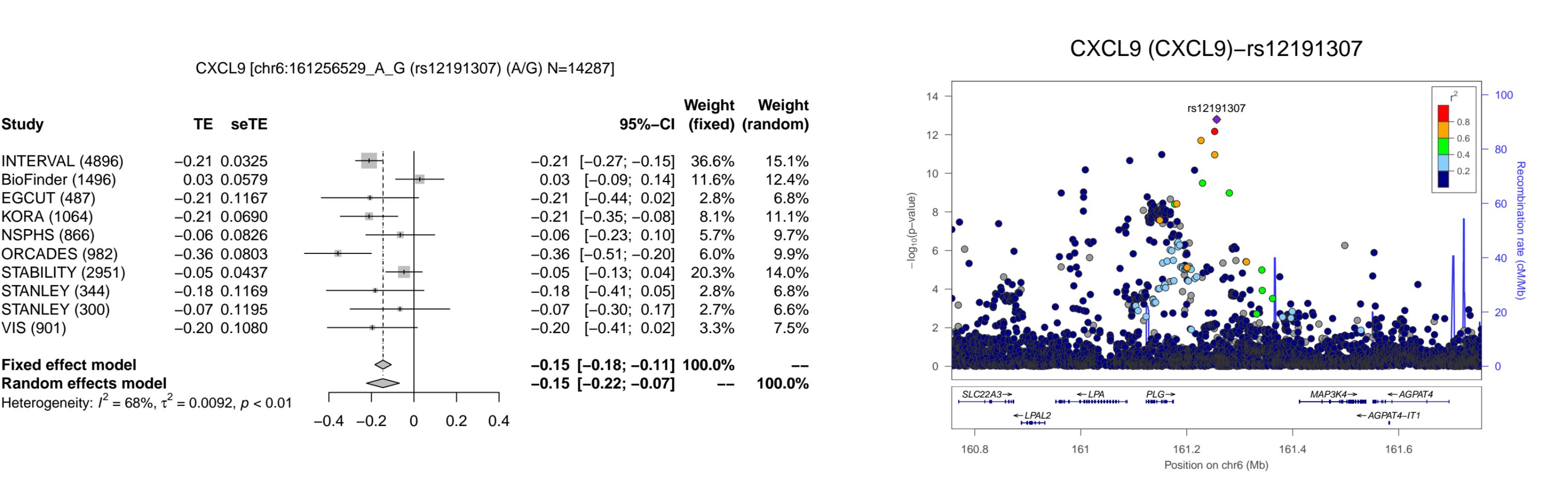
**TE** **seTE**

-0.17 0.0234  
-0.12 0.0430  
-0.20 0.0695  
-0.14 0.0472  
-0.12 0.0468  
-0.16 0.0552  
0.04 0.0992  
-0.11 0.0256  
-0.26 0.0835  
-0.15 0.0919  
-0.17 0.0517

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 < 0.0001$ ,  $p = 0.44$ 

CXCL9 (CXCL9)-rs4241577





## DNER (DNER)-rs62193248

DNER [chr2:230596917\_A\_T (rs62193248) (A/T) N=14287]

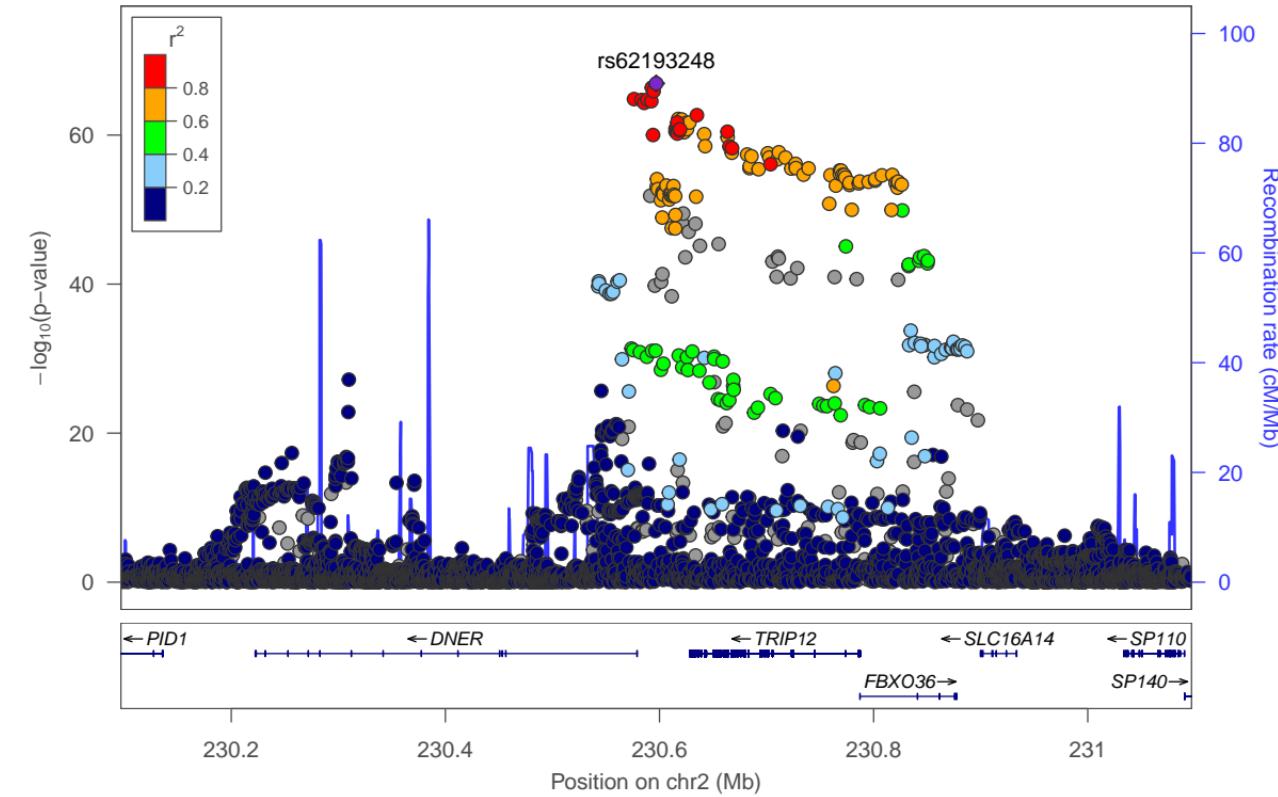
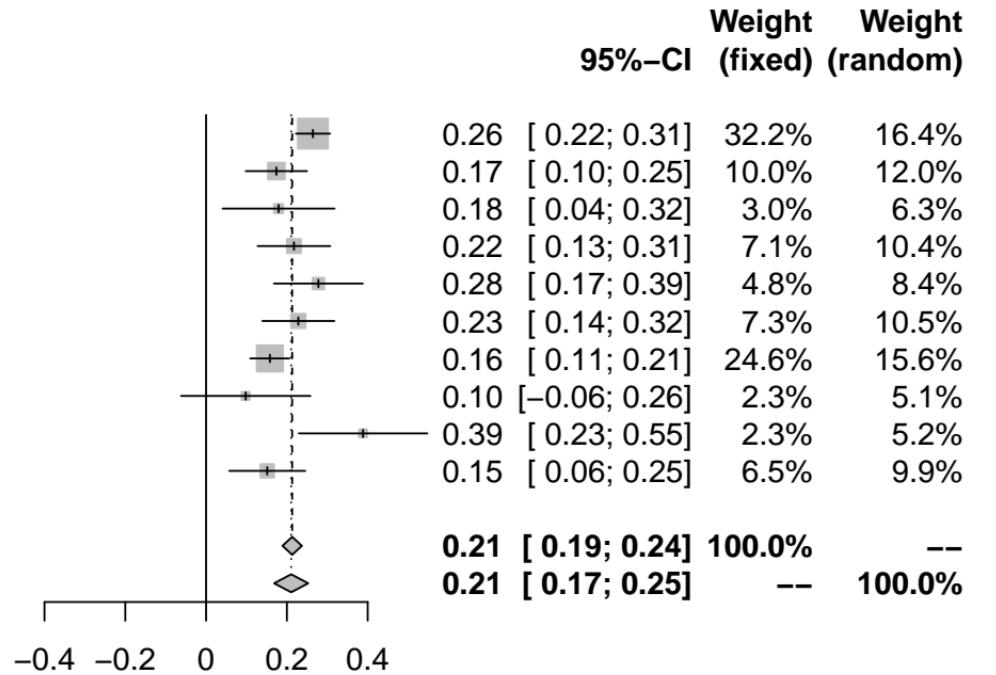
### Study

	TE	seTE
INTERVAL (4896)	0.26	0.0216
BioFinder (1496)	0.17	0.0387
EGCUT (487)	0.18	0.0707
KORA (1064)	0.22	0.0459
NSPHS (866)	0.28	0.0562
ORCADES (982)	0.23	0.0455
STABILITY (2951)	0.16	0.0247
STANLEY (344)	0.10	0.0817
STANLEY (300)	0.39	0.0812
VIS (901)	0.15	0.0481

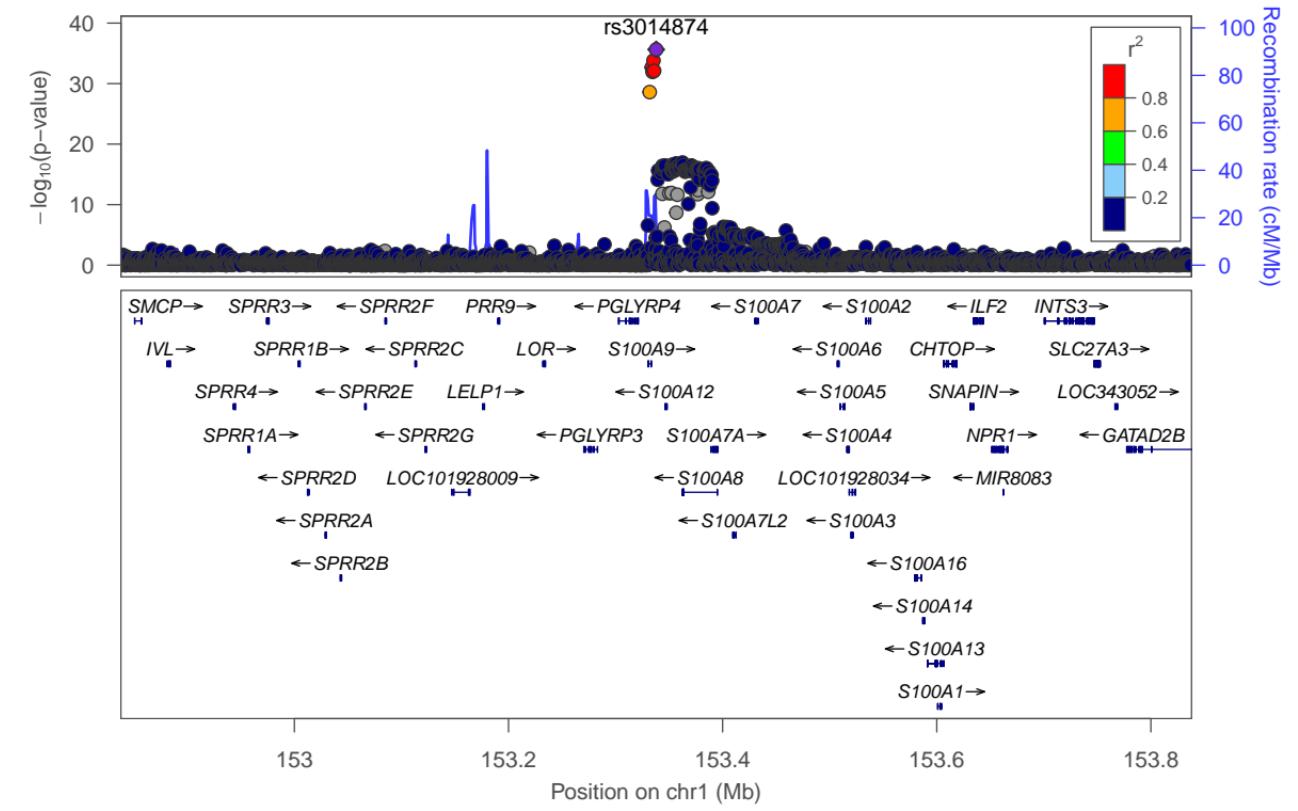
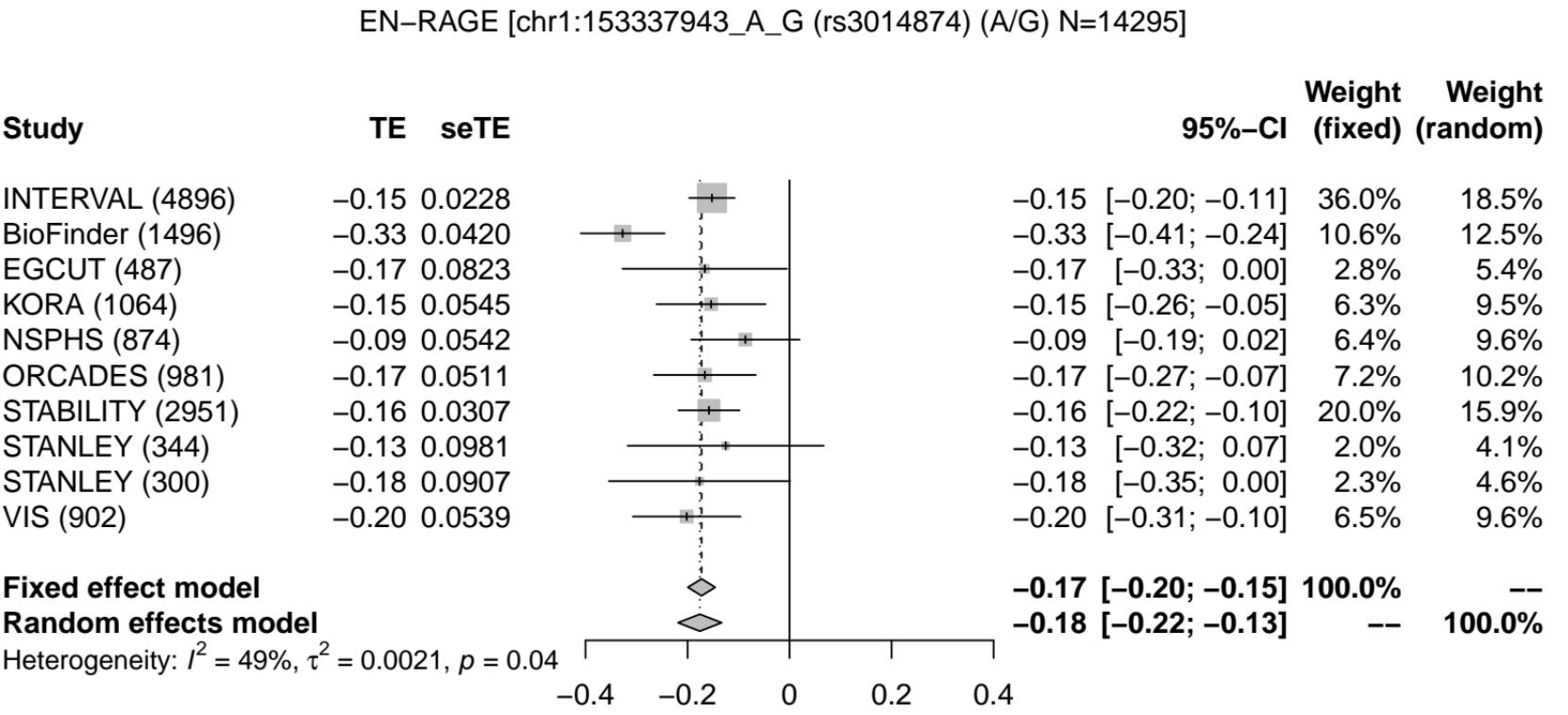
### Fixed effect model

### Random effects model

Heterogeneity:  $I^2 = 58\%$ ,  $\tau^2 = 0.0024$ ,  $p = 0.01$



## EN-RAGE (S100A12)-rs3014874

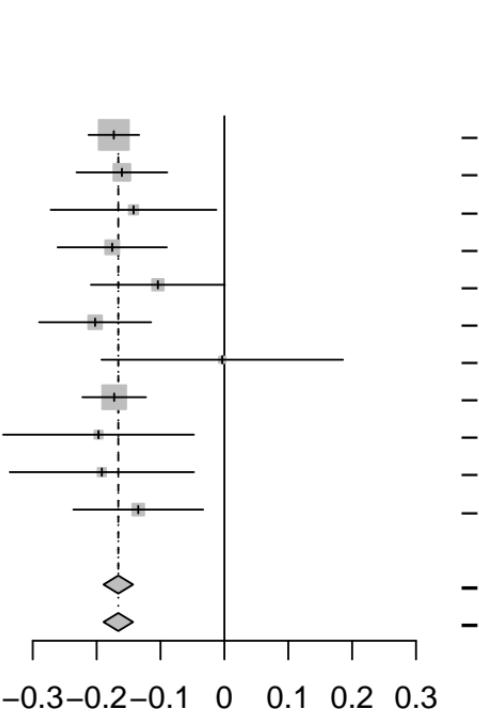


**Study**

INTERVAL (4896)  
 BioFinder (1496)  
 EGCUT (487)  
 KORA (1064)  
 NSPHS (874)  
 ORCADES (982)  
 RECOMBINE (448)  
 STABILITY (2951)  
 STANLEY (344)  
 STANLEY (300)  
 VIS (902)

**TE**    **seTE**

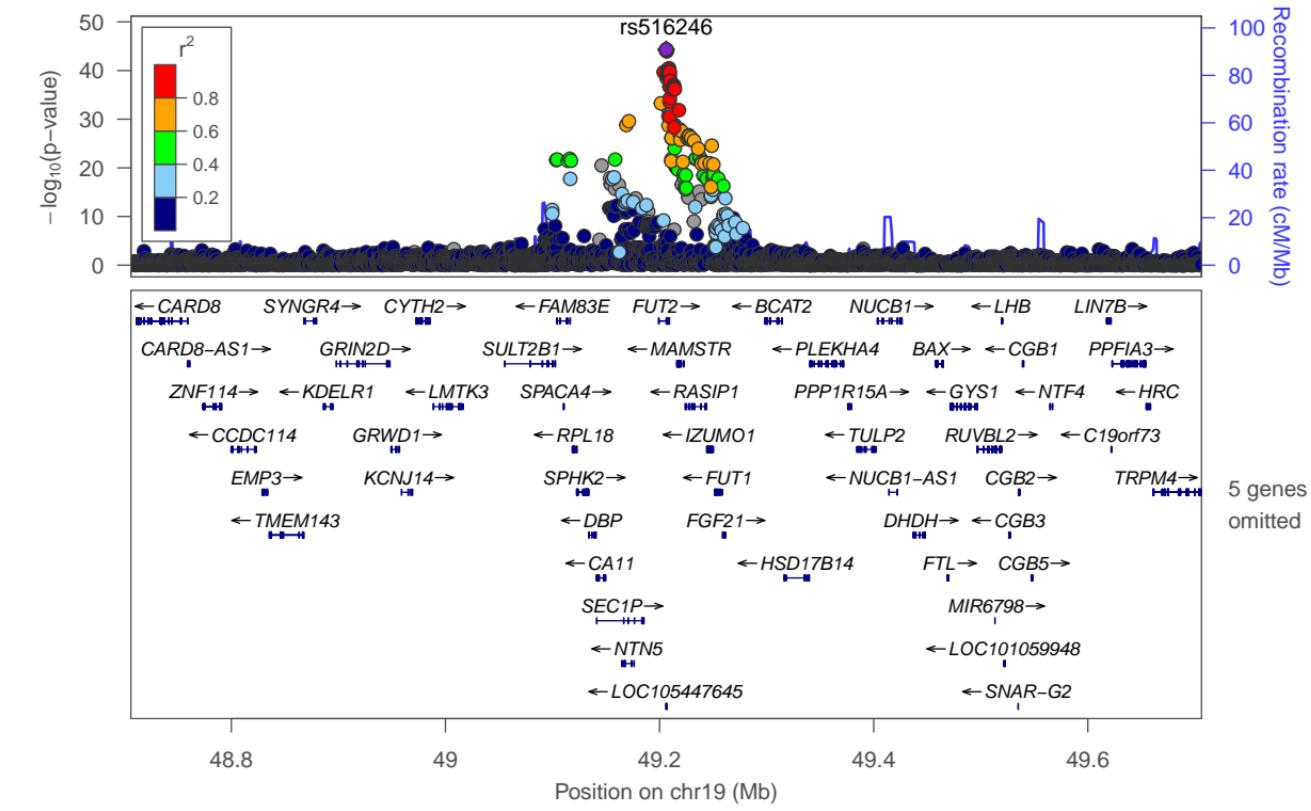
-0.17 0.0202  
 -0.16 0.0363  
 -0.14 0.0662  
 -0.18 0.0436  
 -0.10 0.0535  
 -0.20 0.0447  
 -0.00 0.0965  
 -0.17 0.0254  
 -0.20 0.0762  
 -0.19 0.0736  
 -0.13 0.0519

**FGF-19 [chr19:49206172\_C\_T (rs516246) (T/C) N=14744]**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.83$

**95%-CI**    **Weight (fixed)**    **Weight (random)**

-0.17 [-0.21; -0.13] 33.9% 33.9%  
 -0.16 [-0.23; -0.09] 10.6% 10.6%  
 -0.14 [-0.27; -0.01] 3.2% 3.2%  
 -0.18 [-0.26; -0.09] 7.3% 7.3%  
 -0.10 [-0.21; 0.00] 4.9% 4.9%  
 -0.20 [-0.29; -0.11] 7.0% 7.0%  
 -0.00 [-0.19; 0.19] 1.5% 1.5%  
 -0.17 [-0.22; -0.12] 21.5% 21.5%  
 -0.20 [-0.35; -0.05] 2.4% 2.4%  
 -0.19 [-0.34; -0.05] 2.6% 2.6%  
 -0.13 [-0.24; -0.03] 5.2% 5.2%

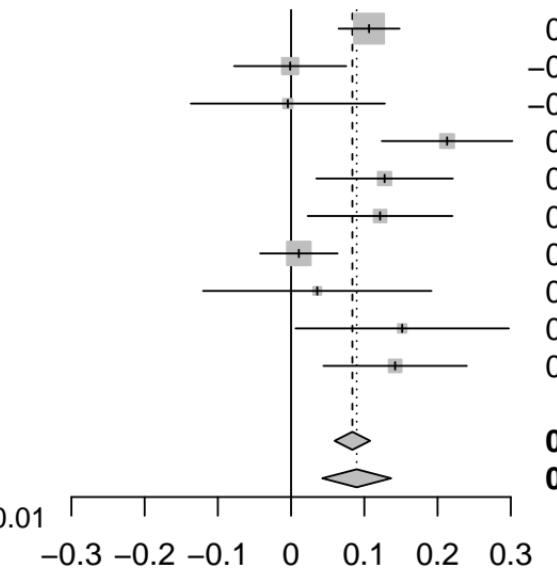
**FGF-19 (FGF19)-rs516246**

FGF-19 [chr4:39457617\_A\_G (rs13103023) (A/G) N=14296]

**Study**

Study	TE	seTE
INTERVAL (4896)	0.11	0.0212
BioFinder (1496)	-0.00	0.0390
EGCUT (487)	-0.00	0.0676
KORA (1064)	0.21	0.0455
NSPHS (874)	0.13	0.0476
ORCADES (982)	0.12	0.0504
STABILITY (2951)	0.01	0.0270
STANLEY (344)	0.04	0.0796
STANLEY (300)	0.15	0.0743
VIS (902)	0.14	0.0499

**TE seTE**



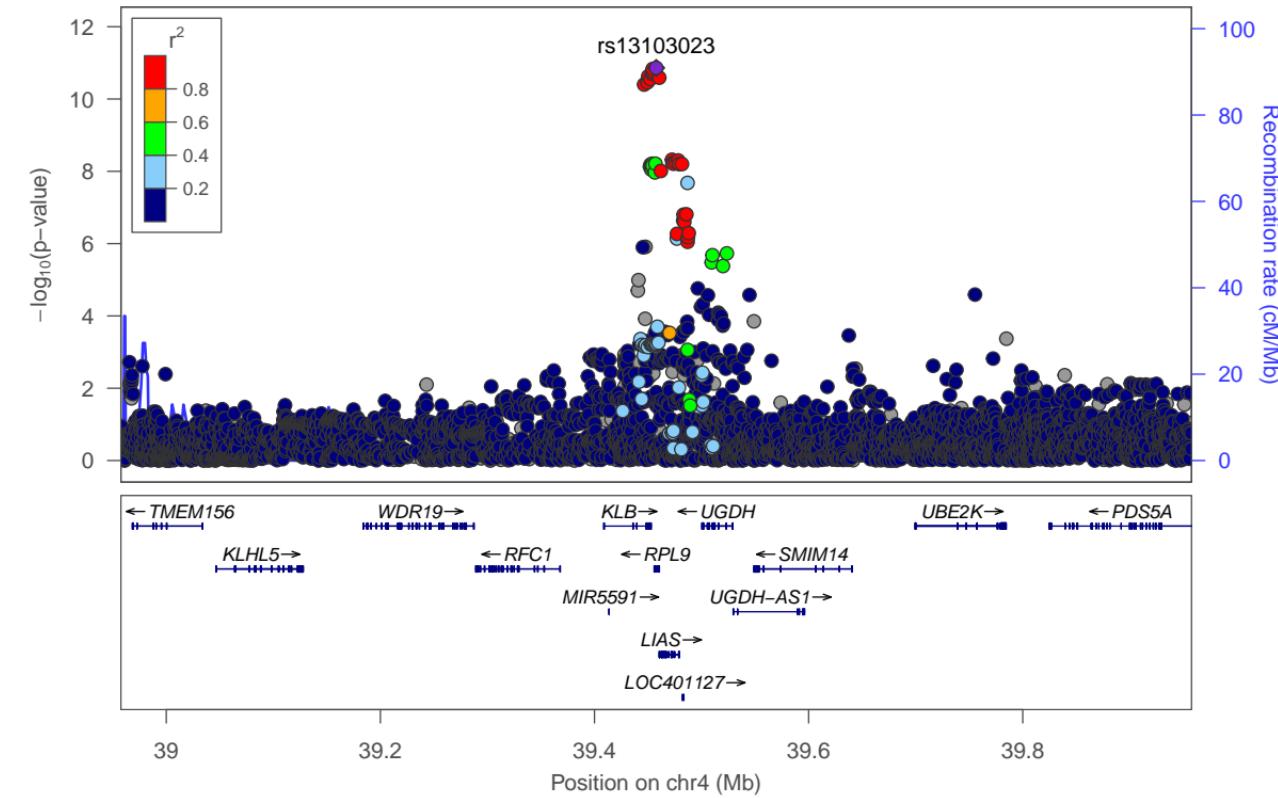
			<b>Weight</b>	<b>Weight</b>
			<b>95%-CI</b>	<b>(fixed)</b> <b>(random)</b>
			0.11 [ 0.06; 0.15]	34.0% 14.9%
			-0.00 [-0.08; 0.08]	10.1% 11.7%
			-0.00 [-0.14; 0.13]	3.4% 7.2%
			0.21 [ 0.12; 0.30]	7.4% 10.5%
			0.13 [ 0.03; 0.22]	6.8% 10.1%
			0.12 [ 0.02; 0.22]	6.0% 9.7%
			0.01 [-0.04; 0.06]	21.1% 13.9%
			0.04 [-0.12; 0.19]	2.4% 5.9%
			0.15 [ 0.01; 0.30]	2.8% 6.4%
			0.14 [ 0.04; 0.24]	6.1% 9.7%
			<b>0.08 [ 0.06; 0.11]</b>	<b>100.0%</b> --
			<b>0.09 [ 0.04; 0.14]</b>	-- <b>100.0%</b>

**Fixed effect model**

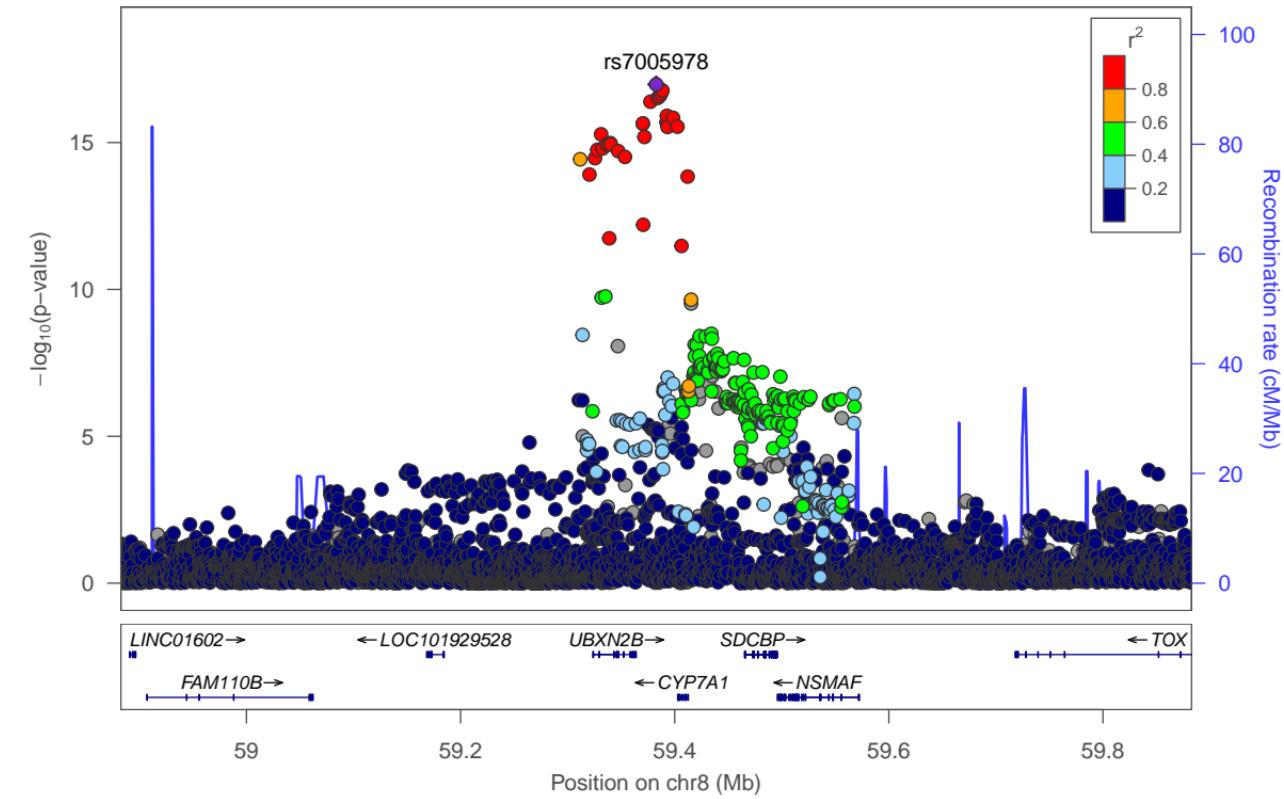
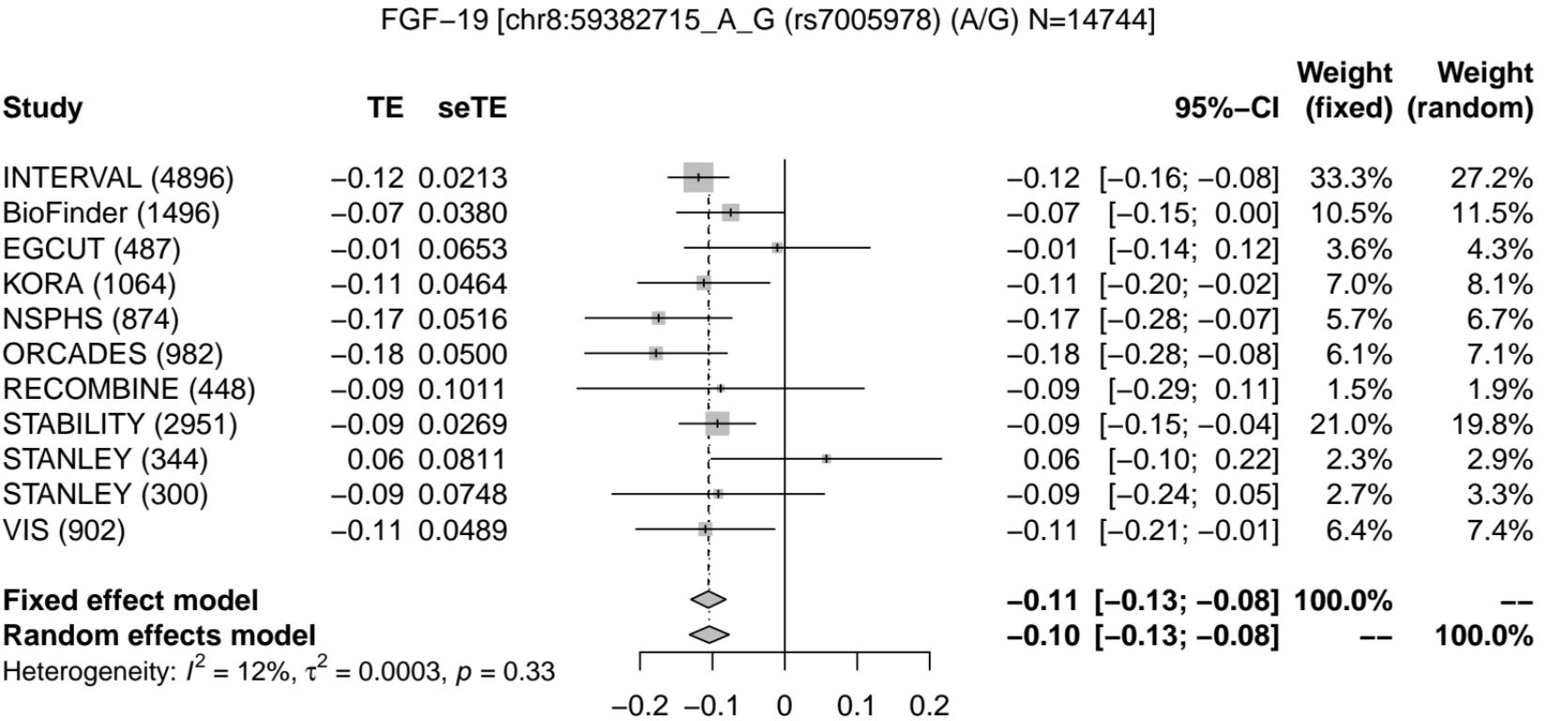
**Random effects model**

Heterogeneity:  $I^2 = 67\%, \tau^2 = 0.0034$ ,  $p < 0.01$

FGF-19 (FGF19)-rs13103023



# FGF-19 (FGF19)-rs7005978



# FGF-21 (FGF21)-rs838131

FGF-21 [chr19:49260677\_A\_C (rs838131) (A/C) N=14295]

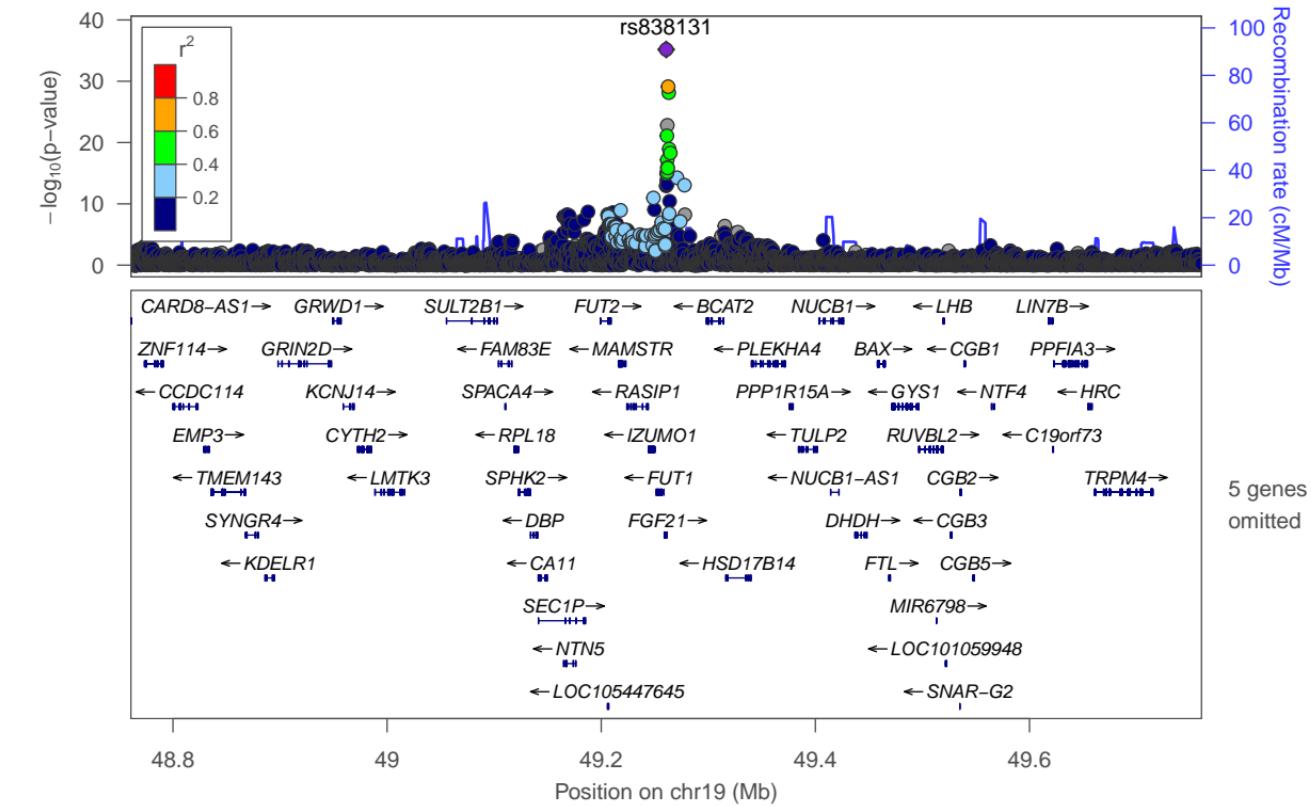
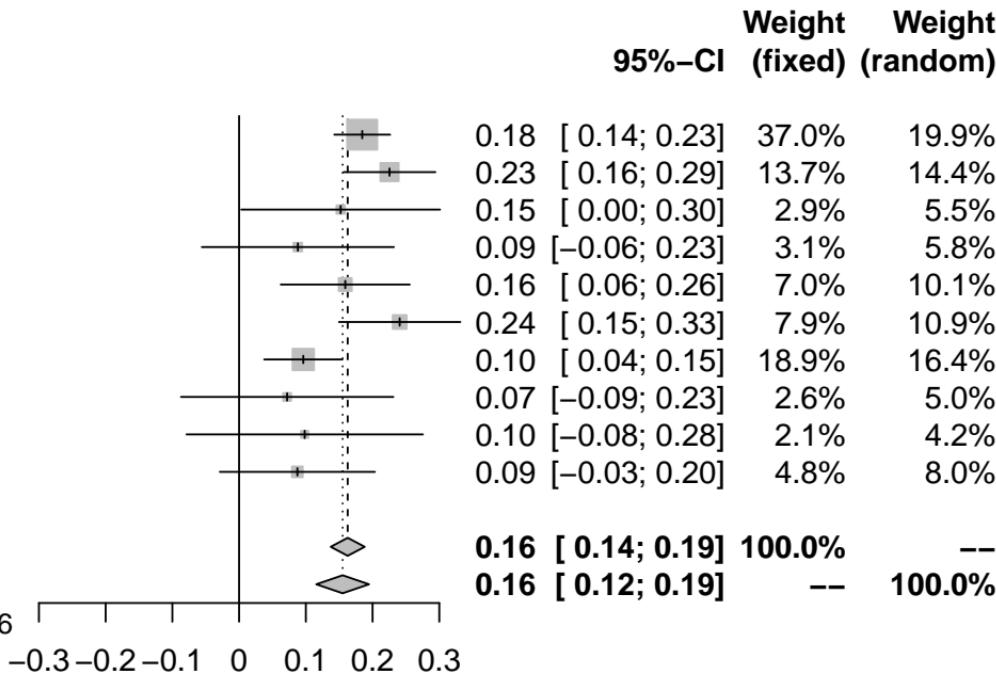
## Study

	TE	seTE
INTERVAL (4896)	0.18	0.0214
BioFinder (1496)	0.23	0.0351
EGCUT (487)	0.15	0.0760
KORA (1064)	0.09	0.0735
NSPHS (874)	0.16	0.0493
ORCADES (982)	0.24	0.0464
STABILITY (2951)	0.10	0.0299
STANLEY (344)	0.07	0.0812
STANLEY (300)	0.10	0.0904
VIS (901)	0.09	0.0593

## Fixed effect model

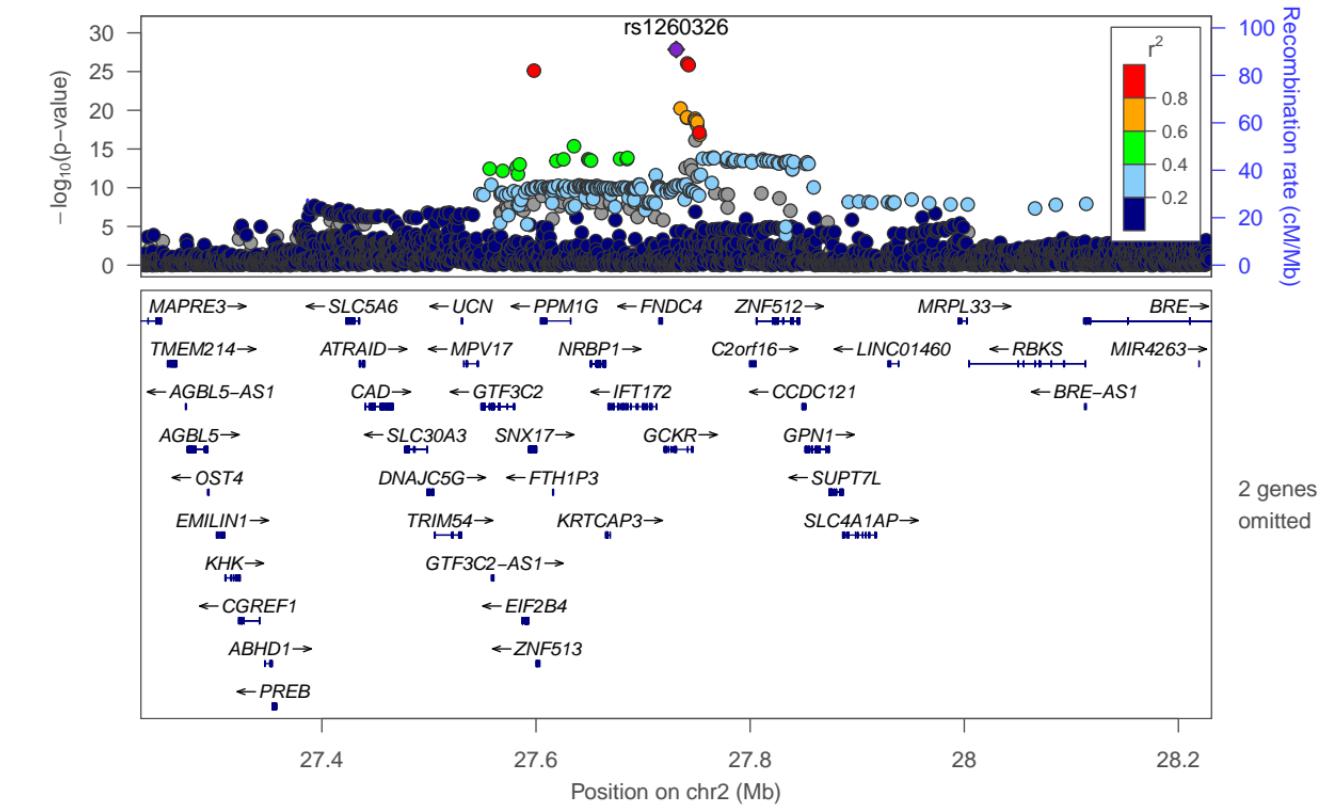
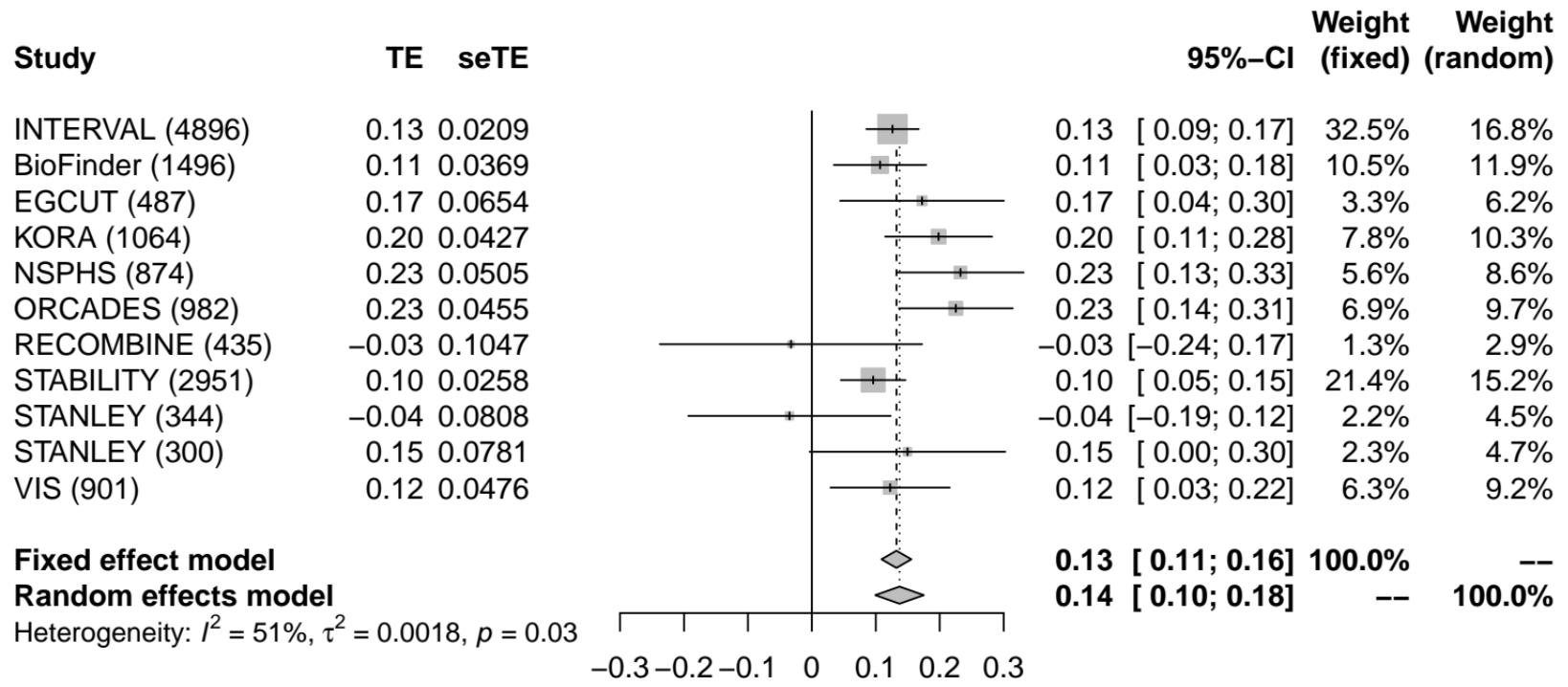
## Random effects model

Heterogeneity:  $I^2 = 45\%$ ,  $\tau^2 = 0.0016$ ,  $p = 0.06$



## FGF-21 (FGF21)-rs1260326

FGF-21 [chr2:27730940\_C\_T (rs1260326) (T/C) N=14730]



**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (982)  
RECOMBINE (448)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

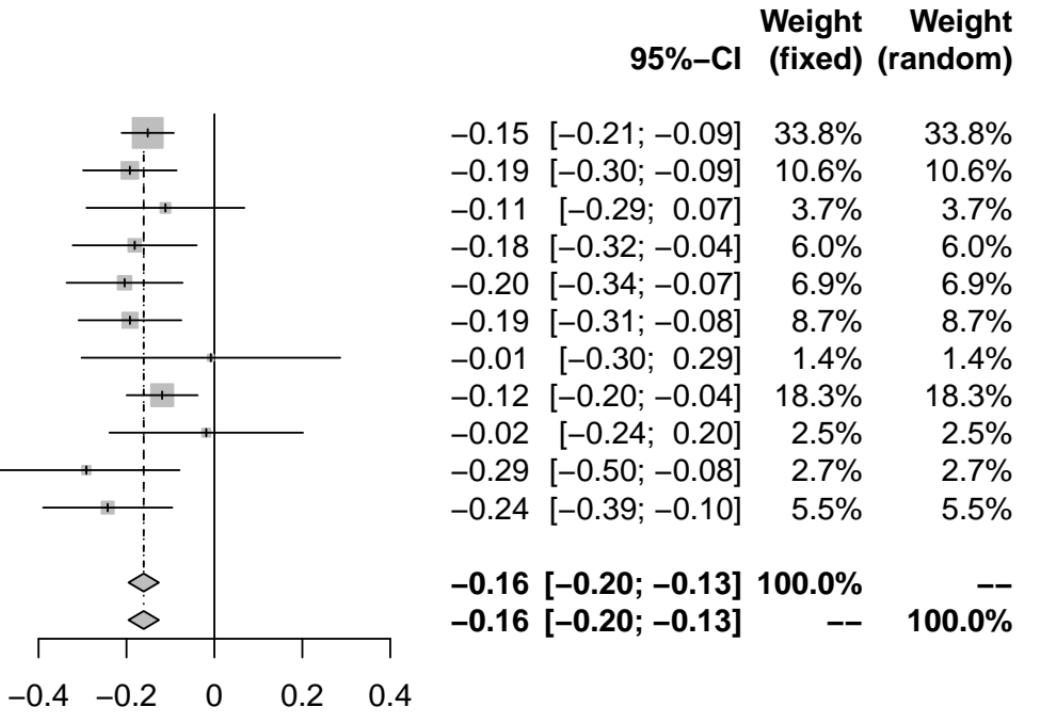
TE seTE

Study	TE	seTE
INTERVAL (4896)	-0.15	0.0303
BioFinder (1496)	-0.19	0.0543
EGCUT (487)	-0.11	0.0917
KORA (1064)	-0.18	0.0720
NSPHS (874)	-0.20	0.0673
ORCADES (982)	-0.19	0.0596
RECOMBINE (448)	-0.01	0.1501
STABILITY (2951)	-0.12	0.0412
STANLEY (344)	-0.02	0.1123
STANLEY (300)	-0.29	0.1082
VIS (901)	-0.24	0.0750

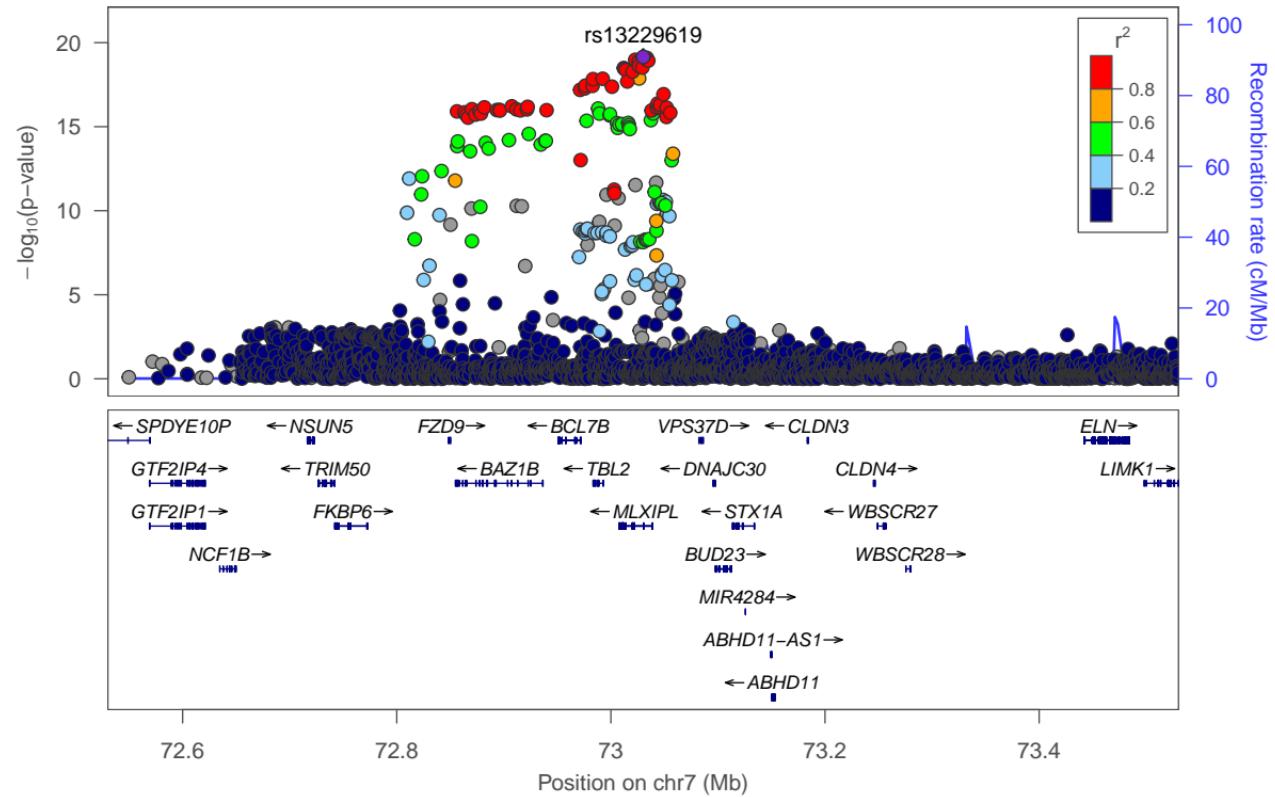
**Fixed effect model****Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.65$

## FGF-21 [chr7:73030175\_A\_G (rs13229619) (A/G) N=14743]



## FGF-21 (FGF21)-rs13229619



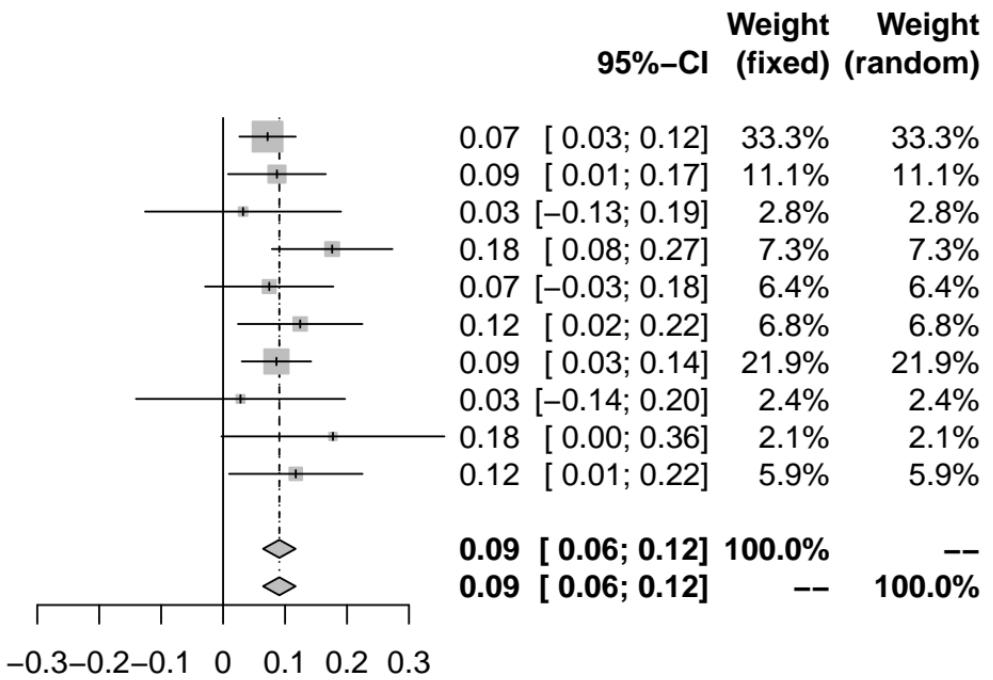
### FGF-23 [chr20:52731402\_A\_T (rs6127099) (A/T) N=14287]

Study	TE	seTE
INTERVAL (4896)	0.07	0.0232
BioFinder (1496)	0.09	0.0402
EGCUT (487)	0.03	0.0807
KORA (1063)	0.18	0.0496
NSPHS (866)	0.07	0.0528
ORCADES (982)	0.12	0.0512
STABILITY (2951)	0.09	0.0286
STANLEY (344)	0.03	0.0861
STANLEY (300)	0.18	0.0918
VIS (902)	0.12	0.0549

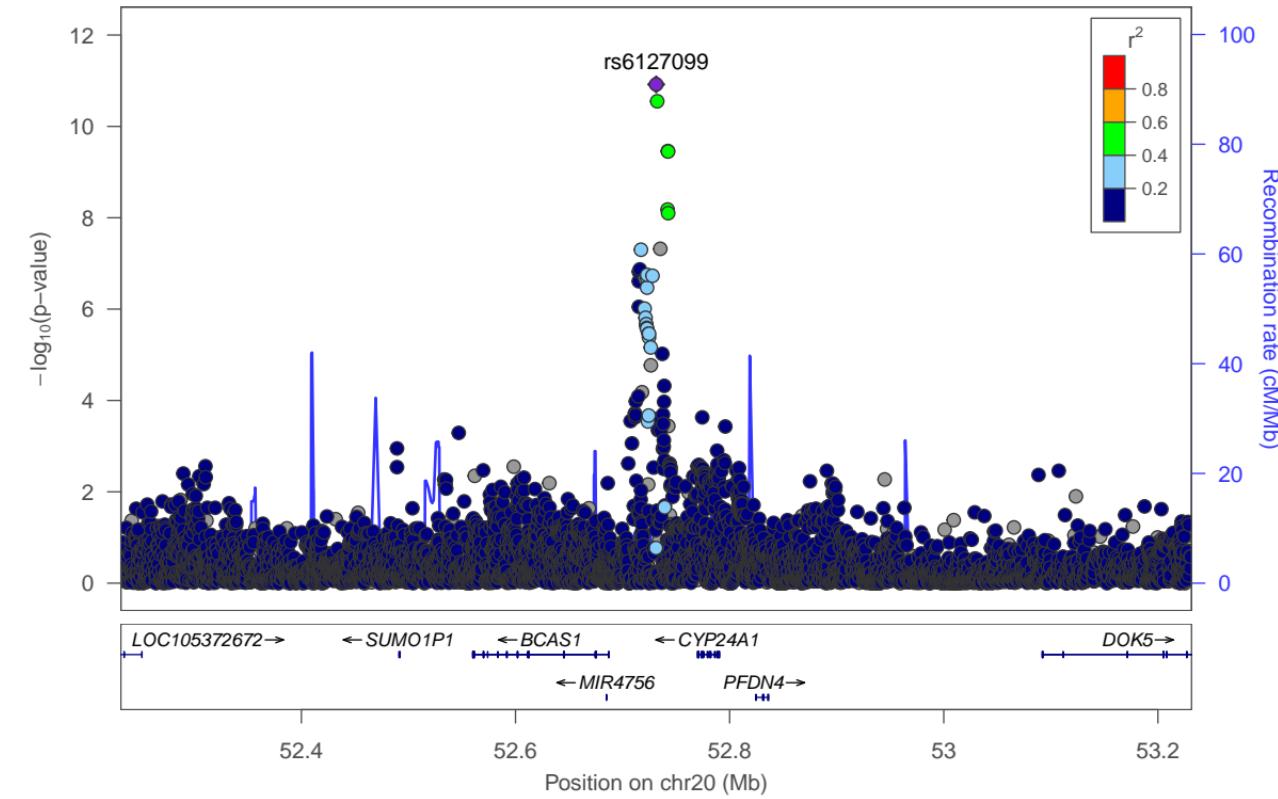
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.70$



### FGF-23 (FGF23)-rs6127099



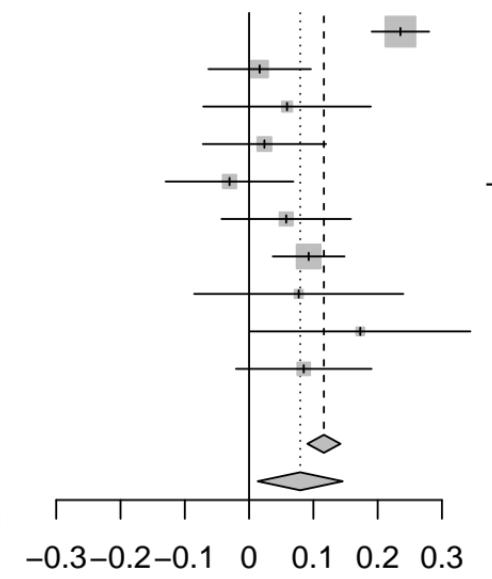
FGF-23 [chr2:190446541\_C\_G (rs3811621) (C/G) N=14287]

**Study**

Study	TE	seTE
INTERVAL (4896)	0.24	0.0228
BioFinder (1496)	0.02	0.0407
EGCUT (487)	0.06	0.0665
KORA (1063)	0.02	0.0489
NSPHS (866)	-0.03	0.0507
ORCADES (982)	0.06	0.0514
STABILITY (2951)	0.09	0.0285
STANLEY (344)	0.08	0.0830
STANLEY (300)	0.17	0.0874
VIS (902)	0.08	0.0538

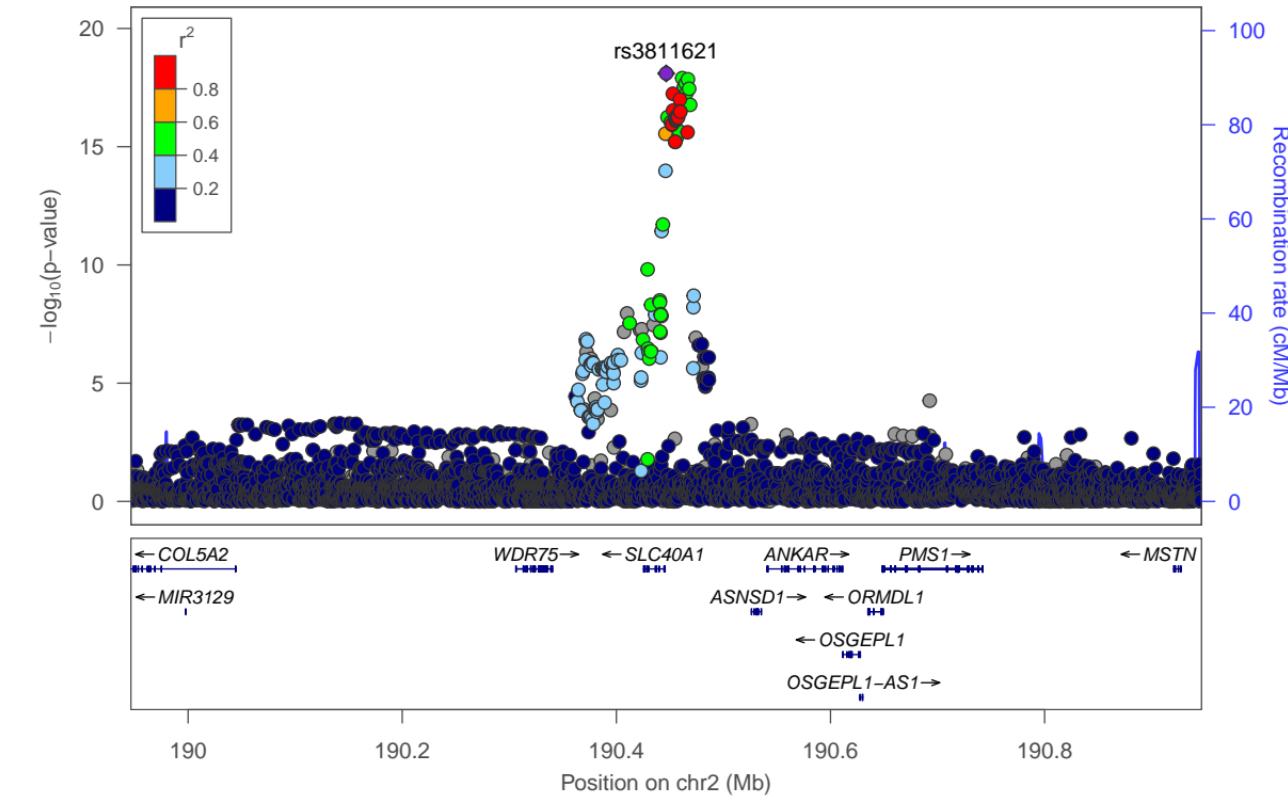
**Fixed effect model**  
**Random effects model**

Heterogeneity:  $I^2 = 82\%$ ,  $\tau^2 = 0.0085$ ,  $p < 0.01$

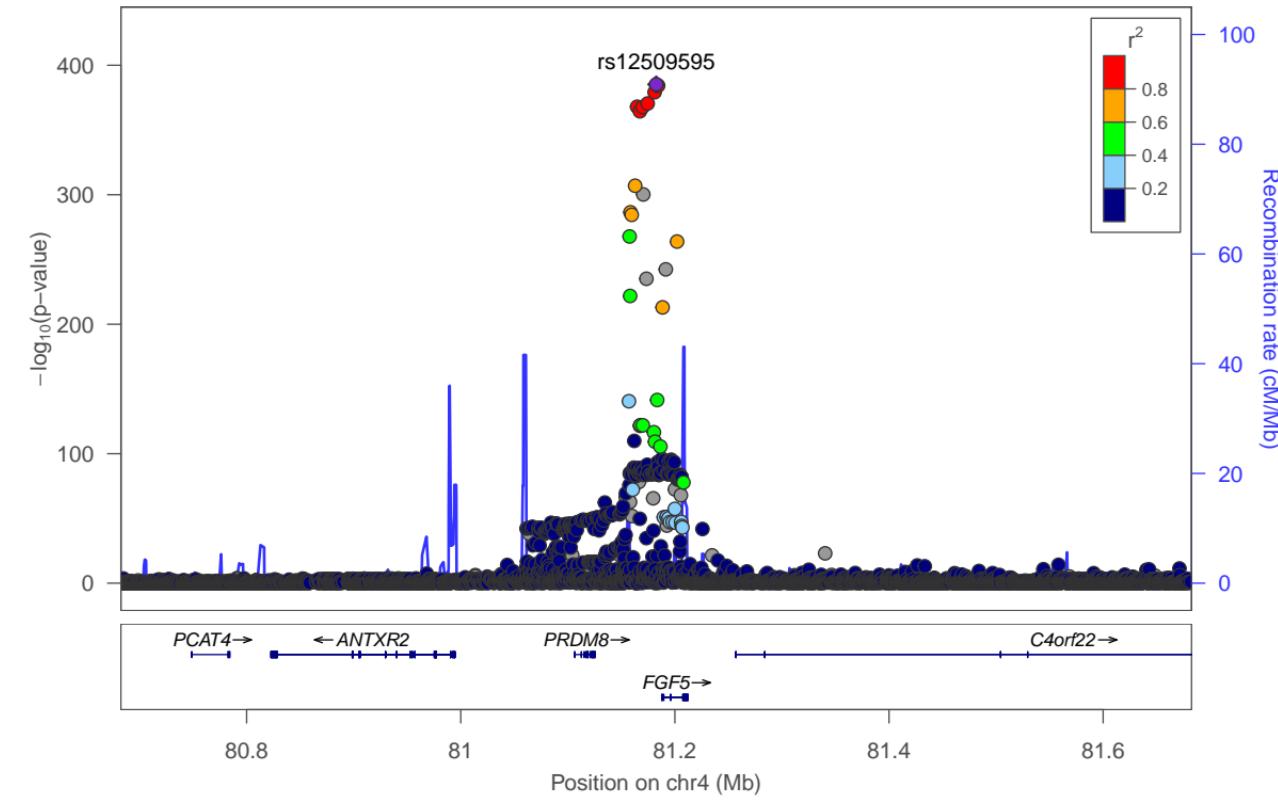
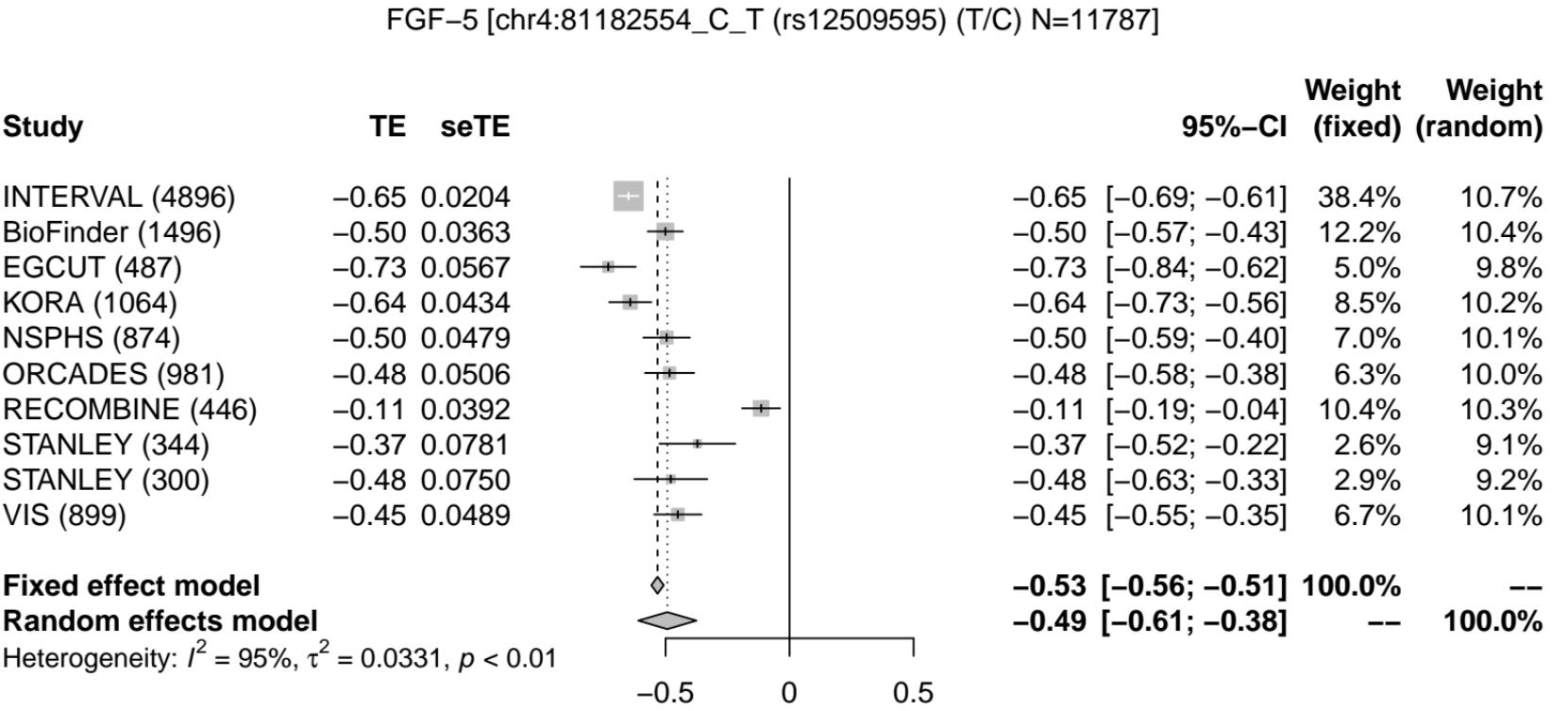


		Weight (fixed)	Weight (random)
	95%-CI		
	[ 0.19; 0.28 ]	33.3%	12.6%
	[ -0.06; 0.10 ]	10.4%	11.2%
	[ -0.07; 0.19 ]	3.9%	8.8%
	[ -0.07; 0.12 ]	7.2%	10.4%
	[ -0.13; 0.07 ]	6.7%	10.3%
	[ -0.04; 0.16 ]	6.5%	10.2%
	[ 0.04; 0.15 ]	21.2%	12.2%
	[ -0.09; 0.24 ]	2.5%	7.4%
	[ 0.00; 0.34 ]	2.3%	7.0%
	[ -0.02; 0.19 ]	6.0%	10.0%
	<b>0.12 [ 0.09; 0.14 ]</b>	<b>100.0%</b>	--
	<b>0.08 [ 0.01; 0.15 ]</b>	--	<b>100.0%</b>

FGF-23 (FGF23)-rs3811621



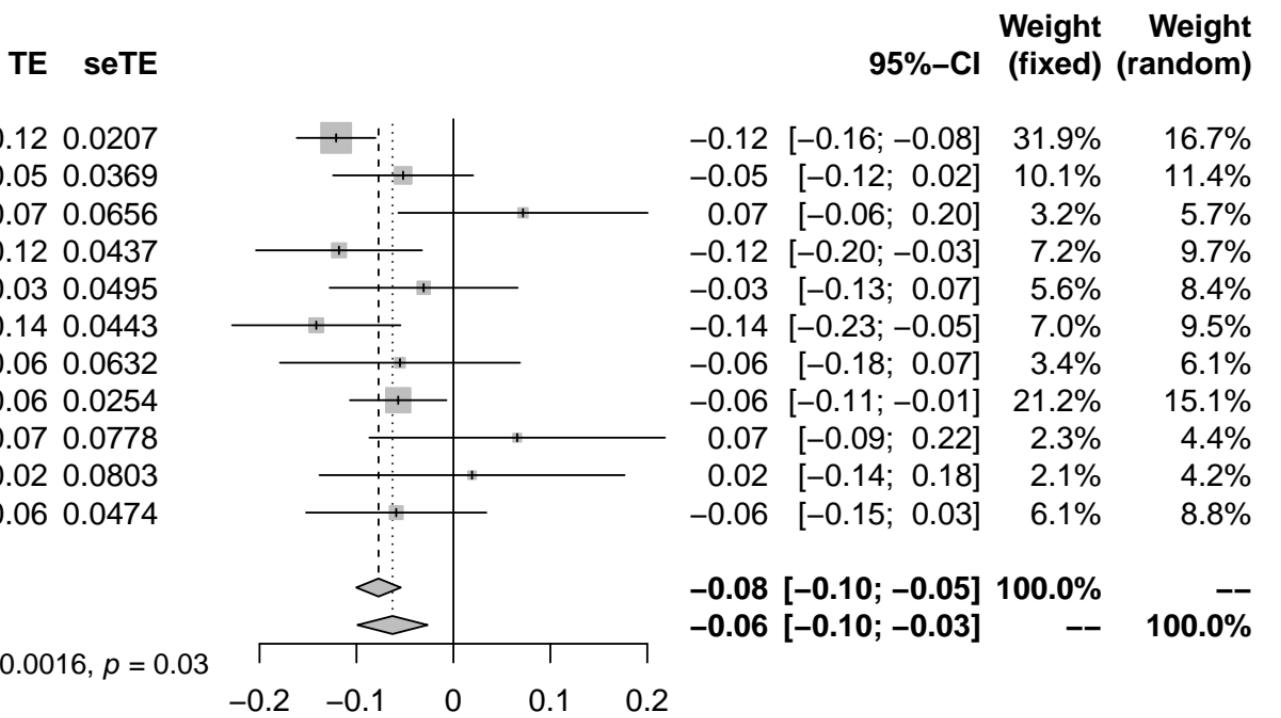
## FGF-5 (FGF5)-rs12509595



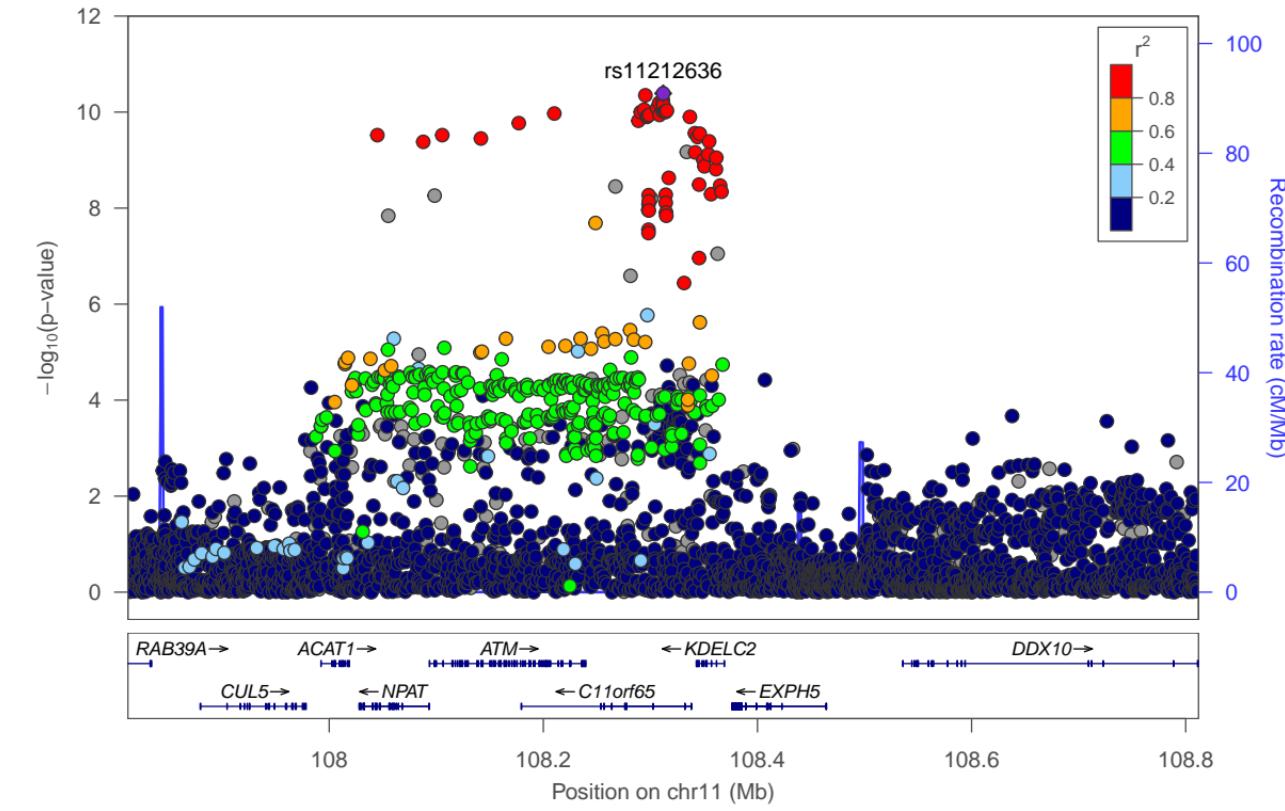
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (438)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

Flt3L [chr11:108311965\_A\_G (rs11212636) (A/G) N=14724]



Flt3L (FLT3LG)-rs11212636



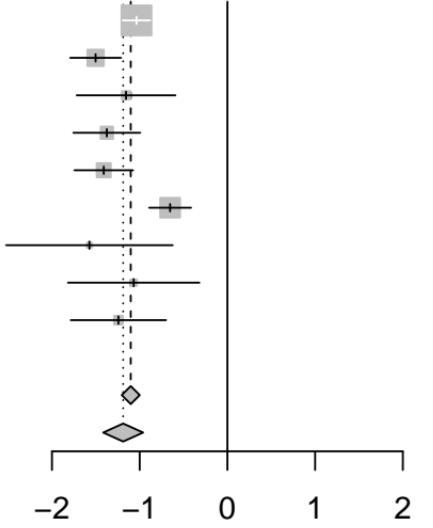
**Study**

INTERVAL (4896)  
BioFinder (1496)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

**TE seTE**

-1.04 0.0804  
-1.50 0.1477  
-1.16 0.2872  
-1.37 0.1947  
-1.41 0.1706  
-0.65 0.1218  
-1.57 0.4845  
-1.07 0.3822  
-1.24 0.2773

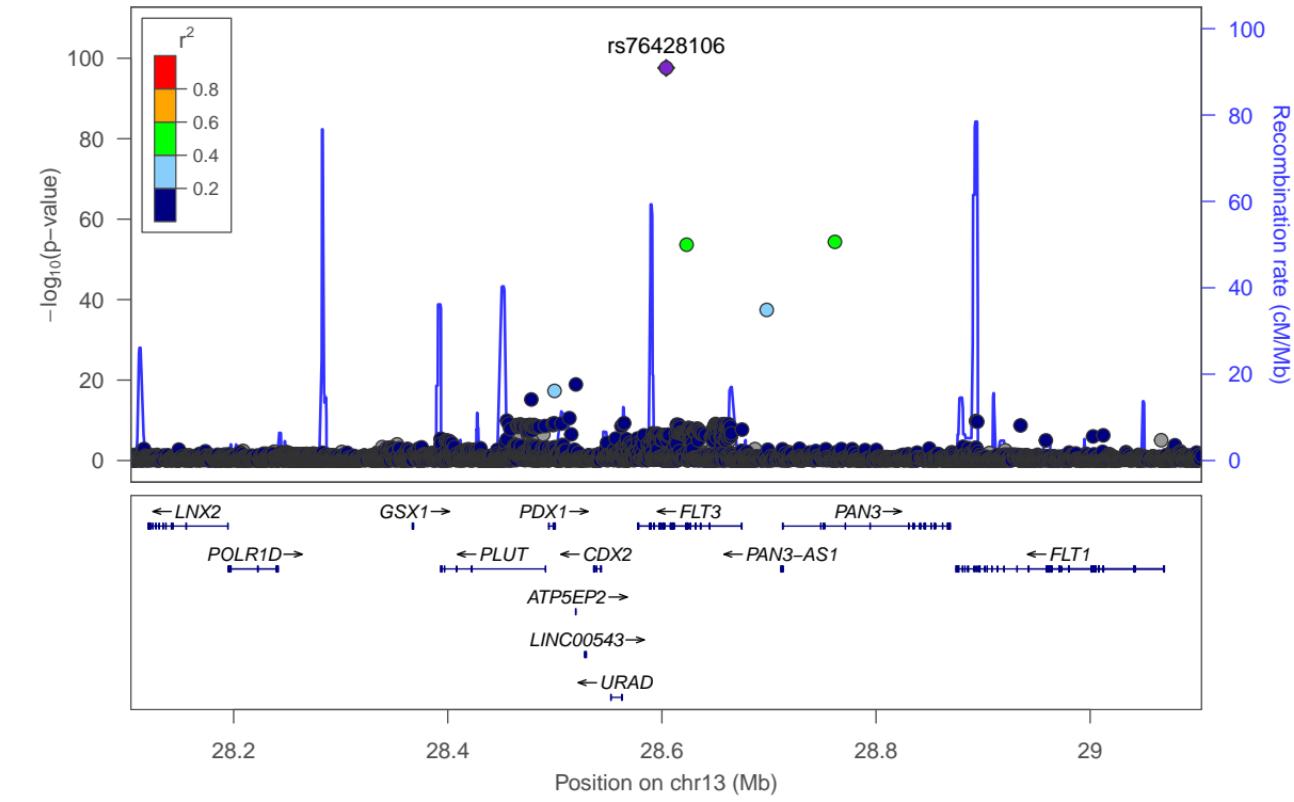
Flt3L [chr13:28604007\_C\_T (rs76428106) (T/C) N=13799]



**Weight (fixed) Weight (random)**

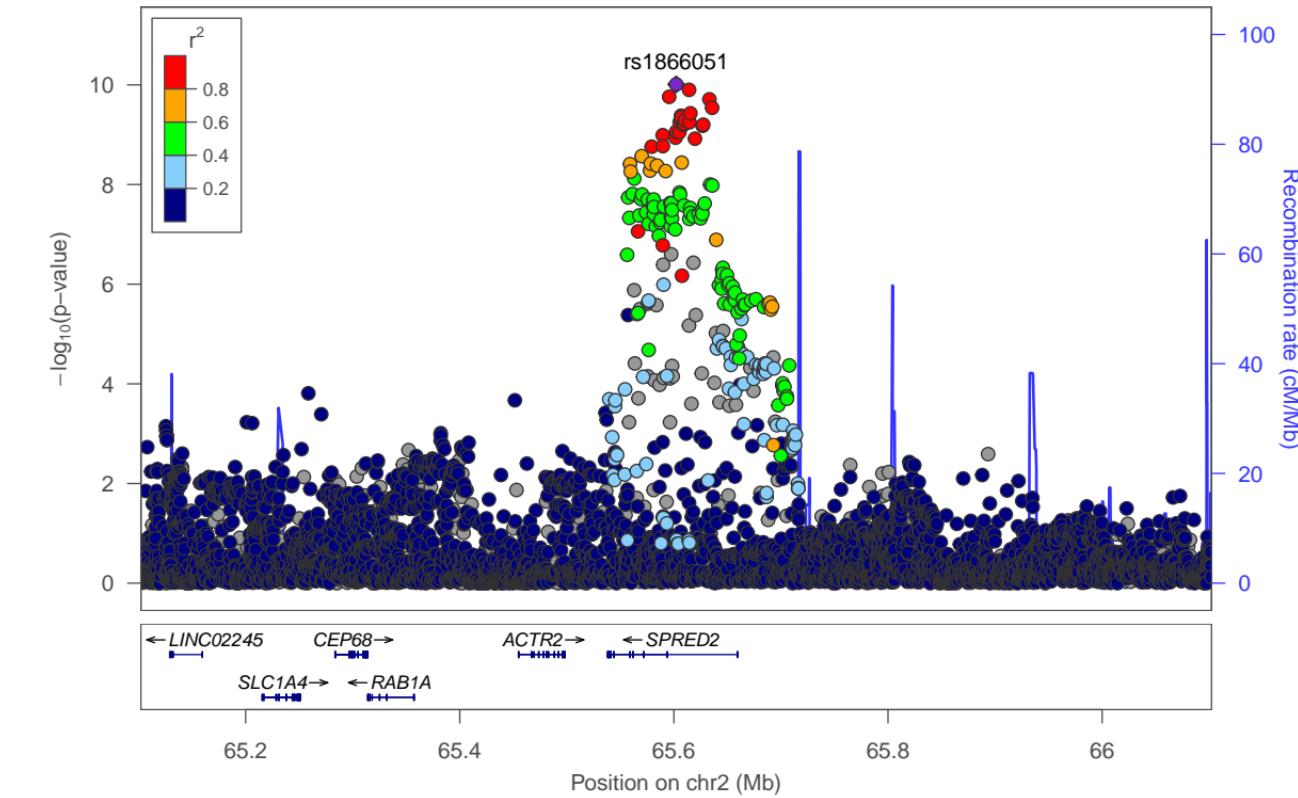
	95%-CI	Weight (fixed)	Weight (random)
-1.04 [-1.19; -0.88]	42.4%	17.0%	
-1.50 [-1.79; -1.21]	12.6%	14.2%	
-1.16 [-1.72; -0.59]	3.3%	8.7%	
-1.37 [-1.76; -0.99]	7.2%	12.1%	
-1.41 [-1.74; -1.08]	9.4%	13.2%	
-0.65 [-0.89; -0.41]	18.5%	15.3%	
-1.57 [-2.52; -0.62]	1.2%	4.4%	
-1.07 [-1.82; -0.32]	1.9%	6.1%	
-1.24 [-1.79; -0.70]	3.6%	9.0%	

**Fixed effect model**  
**Random effects model**  
Heterogeneity:  $I^2 = 71\%$ ,  $\tau^2 = 0.0729$ ,  $p < 0.01$

**Flt3L (FLT3LG)-rs76428106**

Flt3L [chr2:65602149\_C\_T (rs1866051) (T/C) N=14732]

Study	TE	seTE	Weight 95%-CI (fixed)	Weight (random)
INTERVAL (4896)	-0.07	0.0203	-0.07 [-0.11; -0.03]	32.2%
BioFinder (1496)	-0.09	0.0364	-0.09 [-0.16; -0.02]	10.0%
EGCUT (487)	0.04	0.0650	0.04 [-0.09; 0.17]	3.1%
KORA (1064)	-0.00	0.0422	-0.00 [-0.08; 0.08]	7.5%
NSPHS (866)	-0.09	0.0495	-0.09 [-0.19; 0.00]	5.4%
ORCADES (981)	-0.13	0.0457	-0.13 [-0.22; -0.04]	6.4%
RECOMBINE (446)	-0.09	0.0616	-0.09 [-0.21; 0.03]	3.5%
STABILITY (2951)	-0.08	0.0251	-0.08 [-0.13; -0.03]	21.2%
STANLEY (344)	-0.06	0.0727	-0.06 [-0.20; 0.08]	2.5%
STANLEY (300)	-0.12	0.0780	-0.12 [-0.27; 0.03]	2.2%
VIS (901)	-0.11	0.0470	-0.11 [-0.20; -0.01]	6.0%
<b>Fixed effect model</b>			<b>-0.07 [-0.10; -0.05]</b>	<b>100.0%</b>
<b>Random effects model</b>			<b>-0.07 [-0.10; -0.05]</b>	<b>--</b>
Heterogeneity: $I^2 = 0\%$ , $\tau^2 = 0$ , $p = 0.54$				<b>100.0%</b>

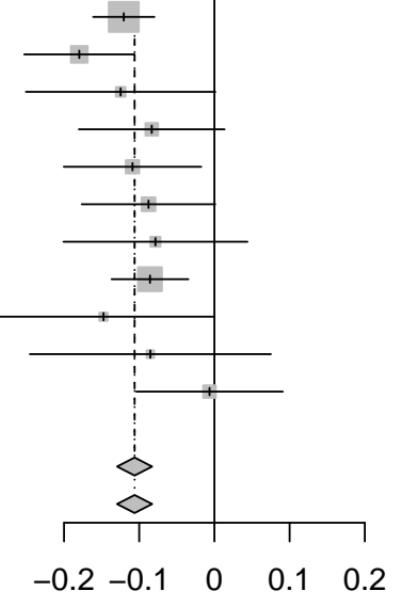


**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (433)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

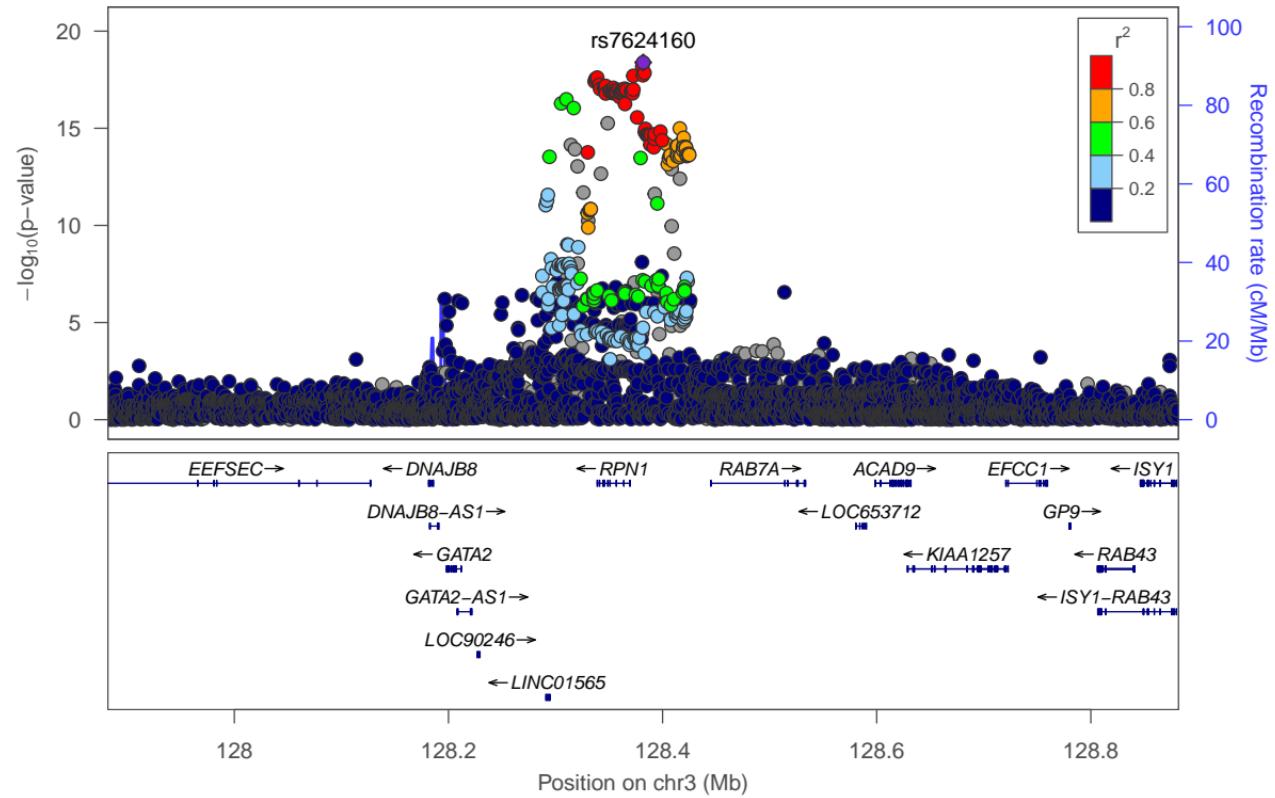
**TE seTE**

-0.12 0.0208  
-0.18 0.0374  
-0.12 0.0643  
-0.08 0.0494  
-0.11 0.0466  
-0.09 0.0453  
-0.08 0.0624  
-0.09 0.0261  
-0.15 0.0749  
-0.09 0.0818  
-0.01 0.0498



		95%-CI	Weight (fixed)	Weight (random)
		-0.12 [-0.16; -0.08]	32.6%	32.5%
		-0.18 [-0.25; -0.11]	10.1%	10.1%
		-0.12 [-0.25; 0.00]	3.4%	3.4%
		-0.08 [-0.18; 0.01]	5.8%	5.8%
		-0.11 [-0.20; -0.02]	6.5%	6.5%
		-0.09 [-0.18; 0.00]	6.9%	6.9%
		-0.08 [-0.20; 0.04]	3.6%	3.6%
		-0.09 [-0.14; -0.03]	20.8%	20.8%
		-0.15 [-0.29; 0.00]	2.5%	2.5%
		-0.09 [-0.25; 0.08]	2.1%	2.1%
		-0.01 [-0.10; 0.09]	5.7%	5.7%
	<b>Fixed effect model</b>	<b>-0.11 [-0.13; -0.08]</b>	<b>100.0%</b>	--
	<b>Random effects model</b>	<b>-0.11 [-0.13; -0.08]</b>	--	<b>100.0%</b>

# Flt3L (FLT3LG)-rs7624160



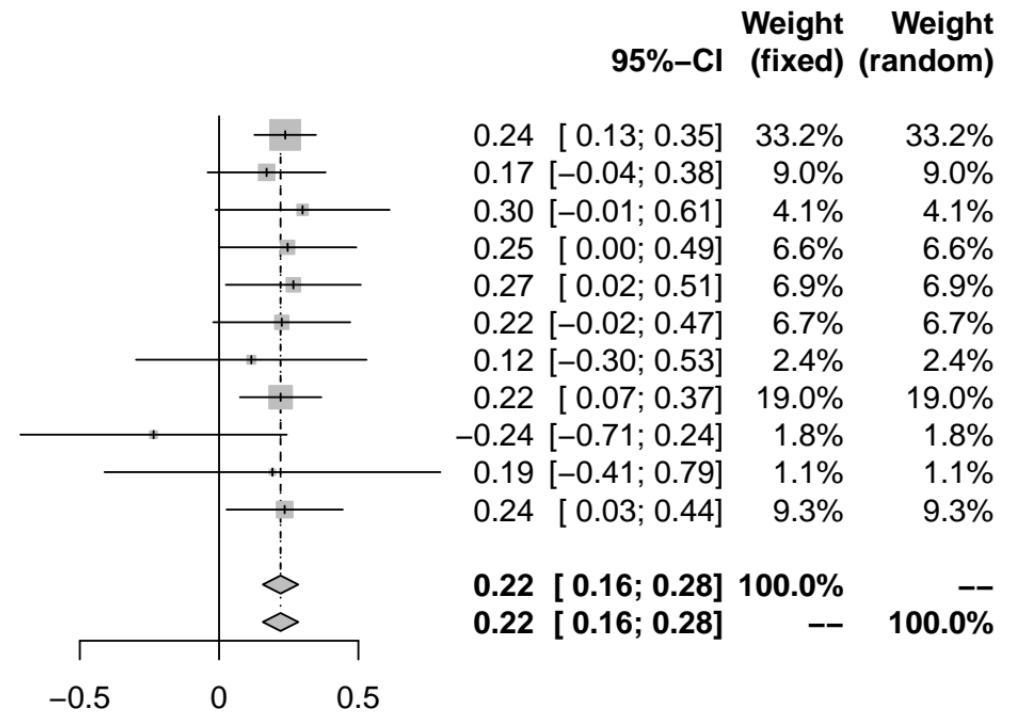
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (436)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

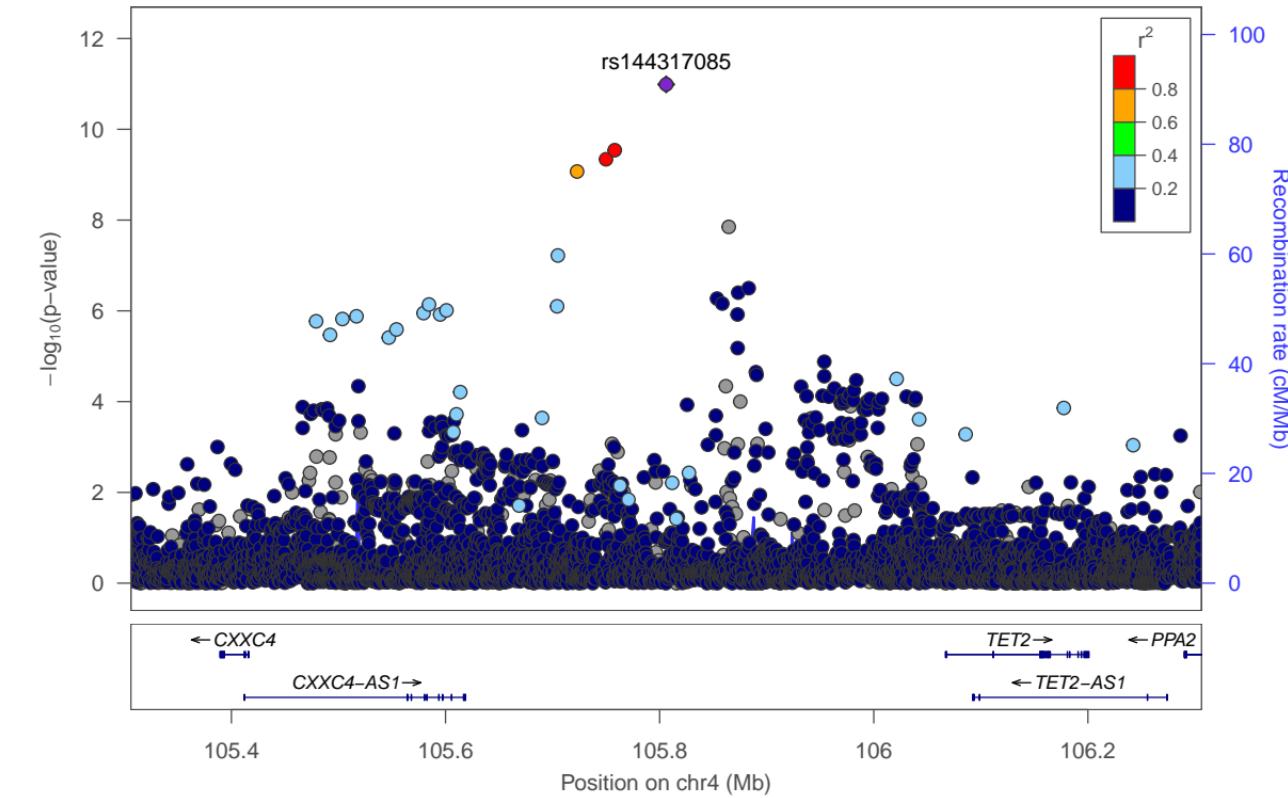
Flt3L [chr4:105806108\_A\_T (rs144317085) (A/T) N=14722]

**TE seTE**

0.24 0.0563  
0.17 0.1080  
0.30 0.1594  
0.25 0.1259  
0.27 0.1236  
0.22 0.1255  
0.12 0.2111  
0.22 0.0745  
-0.24 0.2439  
0.19 0.3076  
0.24 0.1065

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.92$ 

Flt3L (FLT3LG)-rs144317085

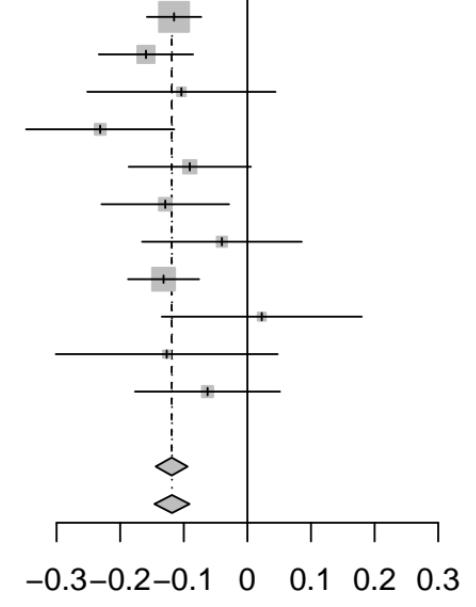


**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (447)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

**TE seTE**

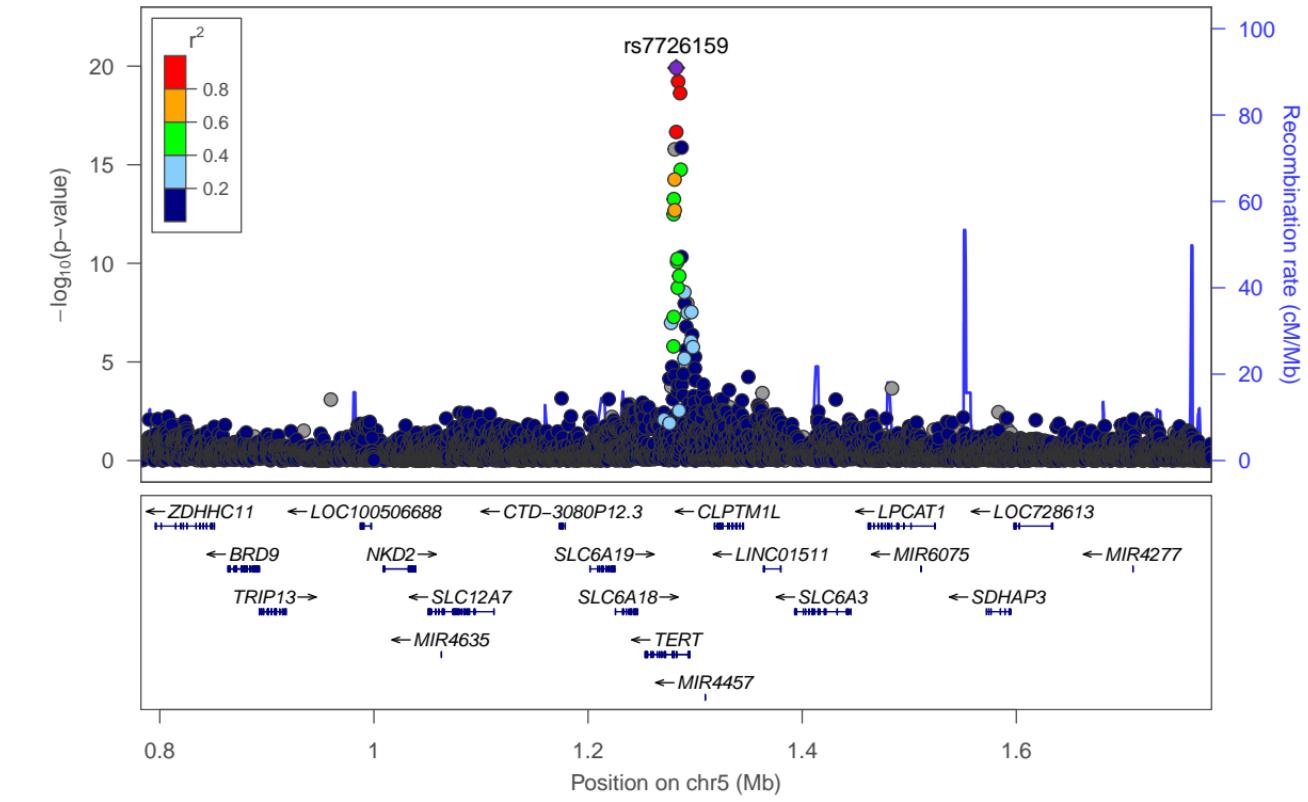
-0.12 0.0218  
-0.16 0.0378  
-0.10 0.0755  
-0.23 0.0594  
-0.09 0.0490  
-0.13 0.0512  
-0.04 0.0640  
-0.13 0.0285  
0.02 0.0802  
-0.13 0.0890  
-0.06 0.0582



Heterogeneity:  $I^2 = 9\%$ ,  $\tau^2 = 0.0002$ ,  $p = 0.36$

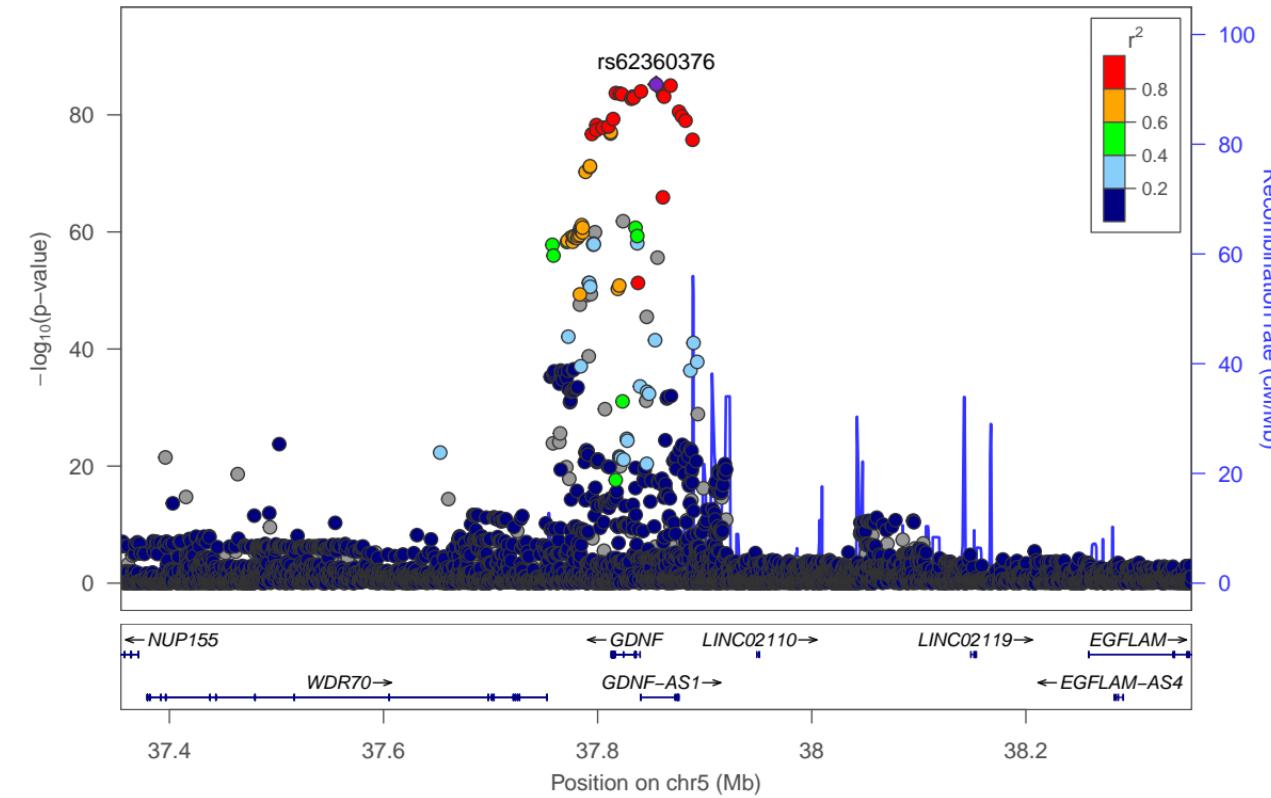
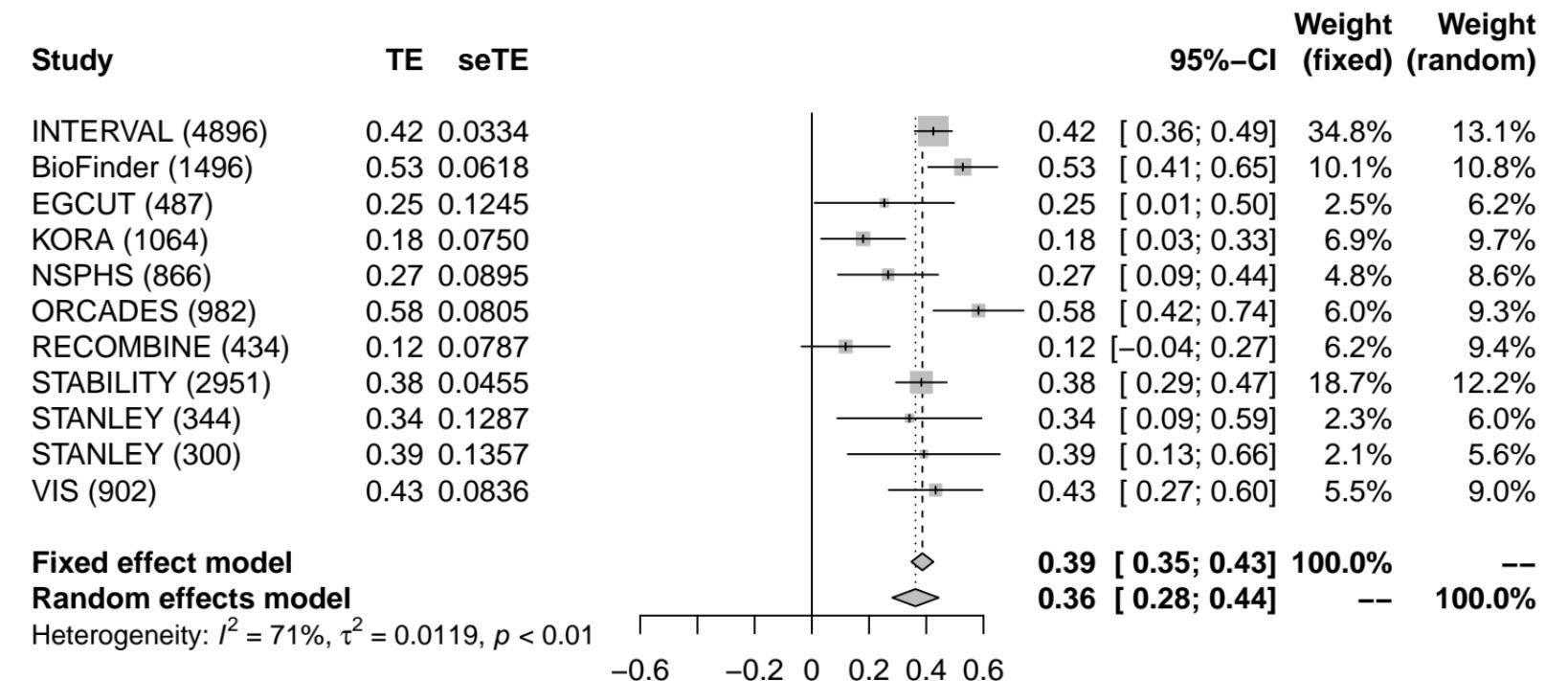
Flt3L [chr5:1282319\_A\_C (rs7726159) (A/C) N=14733]

Flt3L (FLT3LG)-rs7726159



## hGDNF (GDNF)-rs62360376

hGDNF [chr5:37854688\_A\_T (rs62360376) (A/T) N=14722]



HGF [chr4:3452345\_A\_G (rs59950280) (A/G) N=13222]

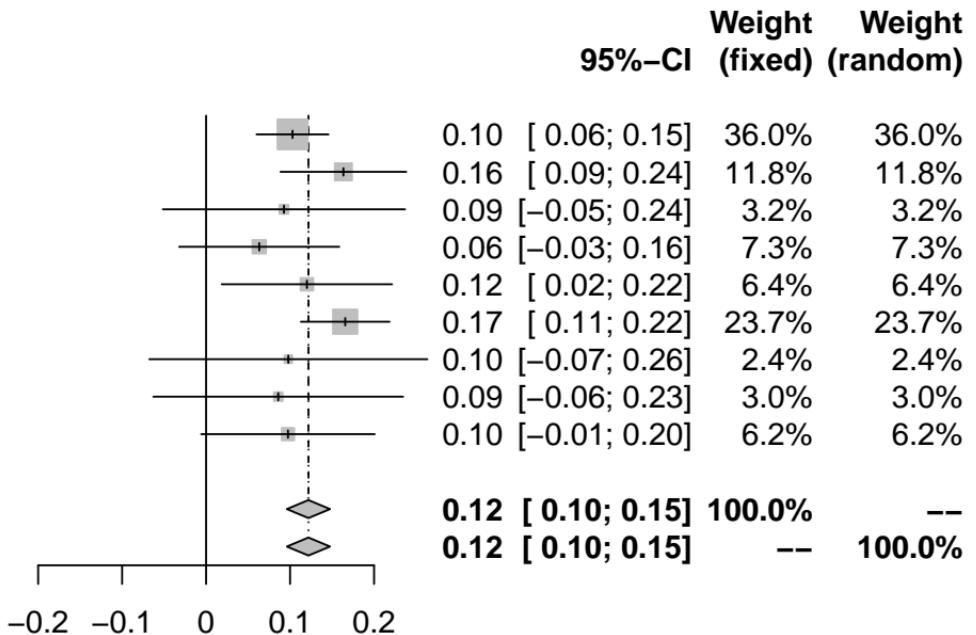
**Study**

	TE	seTE
INTERVAL (4896)	0.10	0.0219
BioFinder (1496)	0.16	0.0382
EGCUT (487)	0.09	0.0736
NSPHS (866)	0.06	0.0487
ORCADES (980)	0.12	0.0517
STABILITY (2951)	0.17	0.0269
STANLEY (344)	0.10	0.0845
STANLEY (300)	0.09	0.0759
VIS (902)	0.10	0.0527

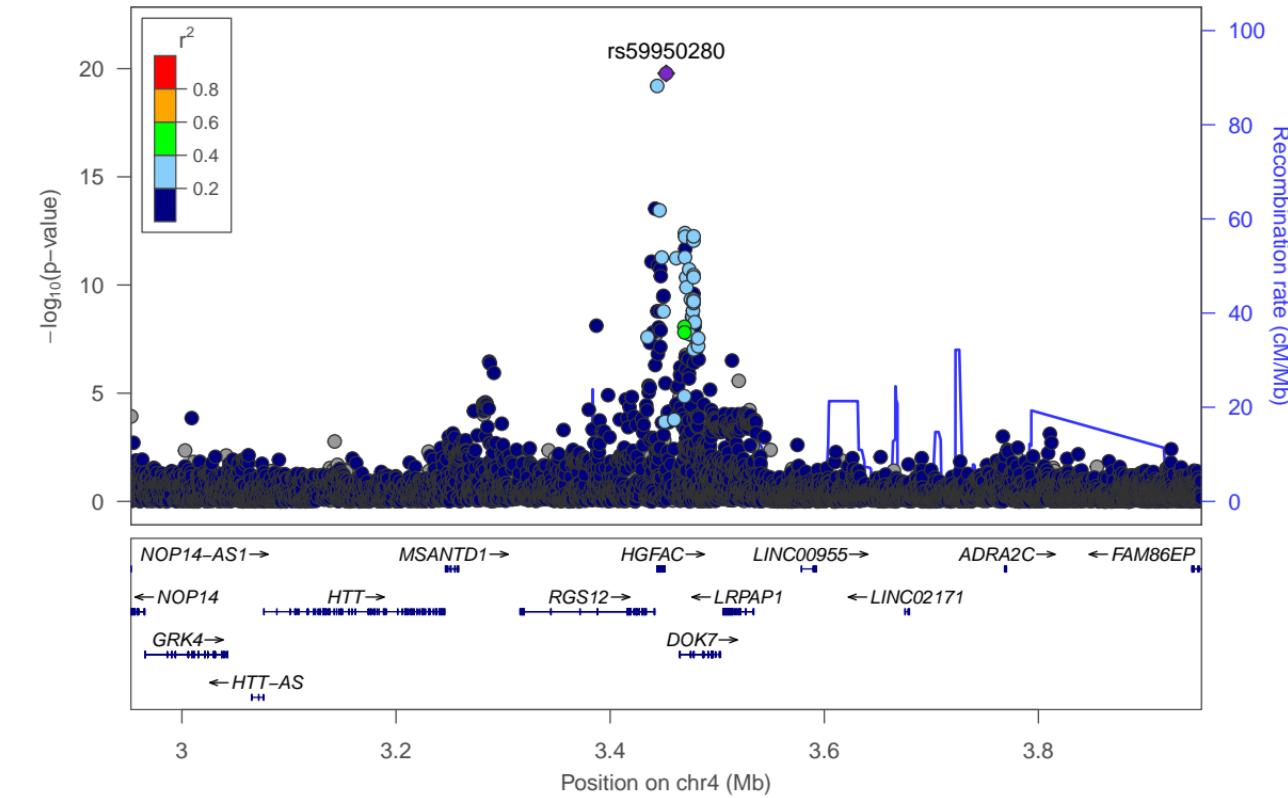
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.57$



# HGF (HGF)-rs59950280

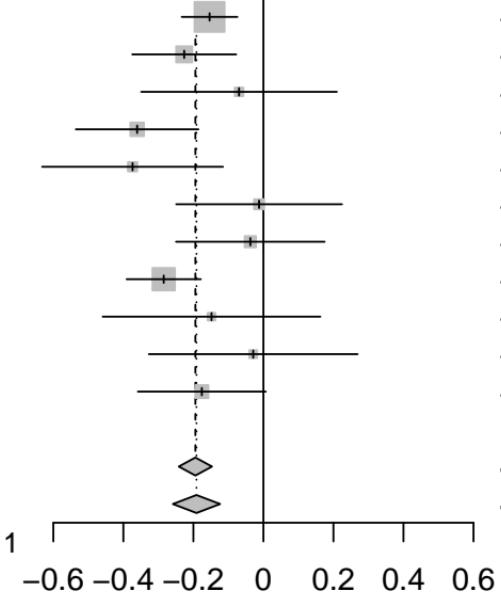


**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (980)  
RECOMBINE (447)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

**TE seTE**

-0.15 0.0406  
-0.23 0.0758  
-0.07 0.1426  
-0.36 0.0893  
-0.37 0.1318  
-0.01 0.1208  
-0.04 0.1083  
-0.28 0.0541  
-0.15 0.1586  
-0.03 0.1521  
-0.18 0.0932

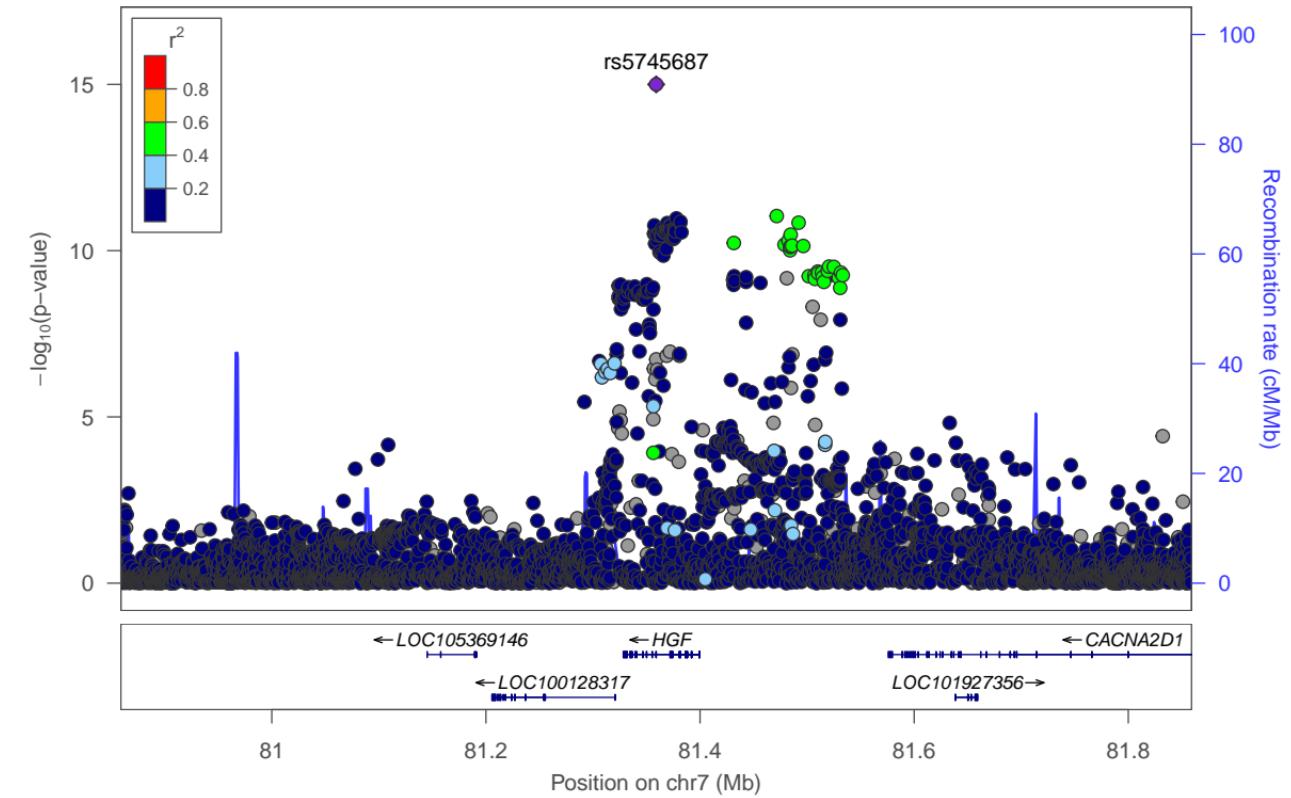


Heterogeneity:  $I^2 = 36\%$ ,  $\tau^2 = 0.0042$ ,  $p = 0.11$

**95%-CI**      **Weight (fixed)**      **Weight (random)**

	95%-CI	Weight (fixed)	Weight (random)
	-0.19 [-0.24; -0.15]	100.0%	--
	-0.19 [-0.26; -0.12]	--	100.0%

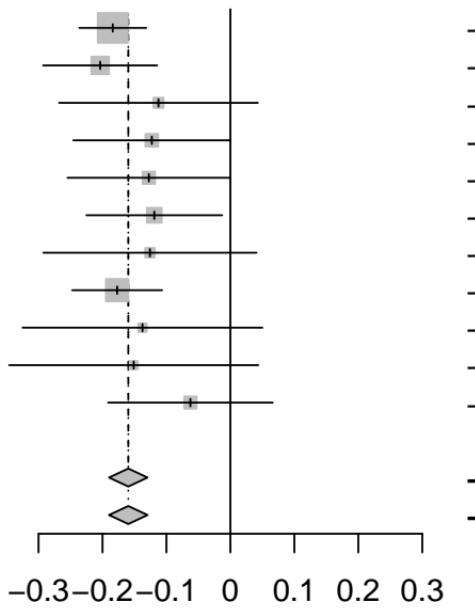
## HGF (HGF)-rs5745687



**Study**

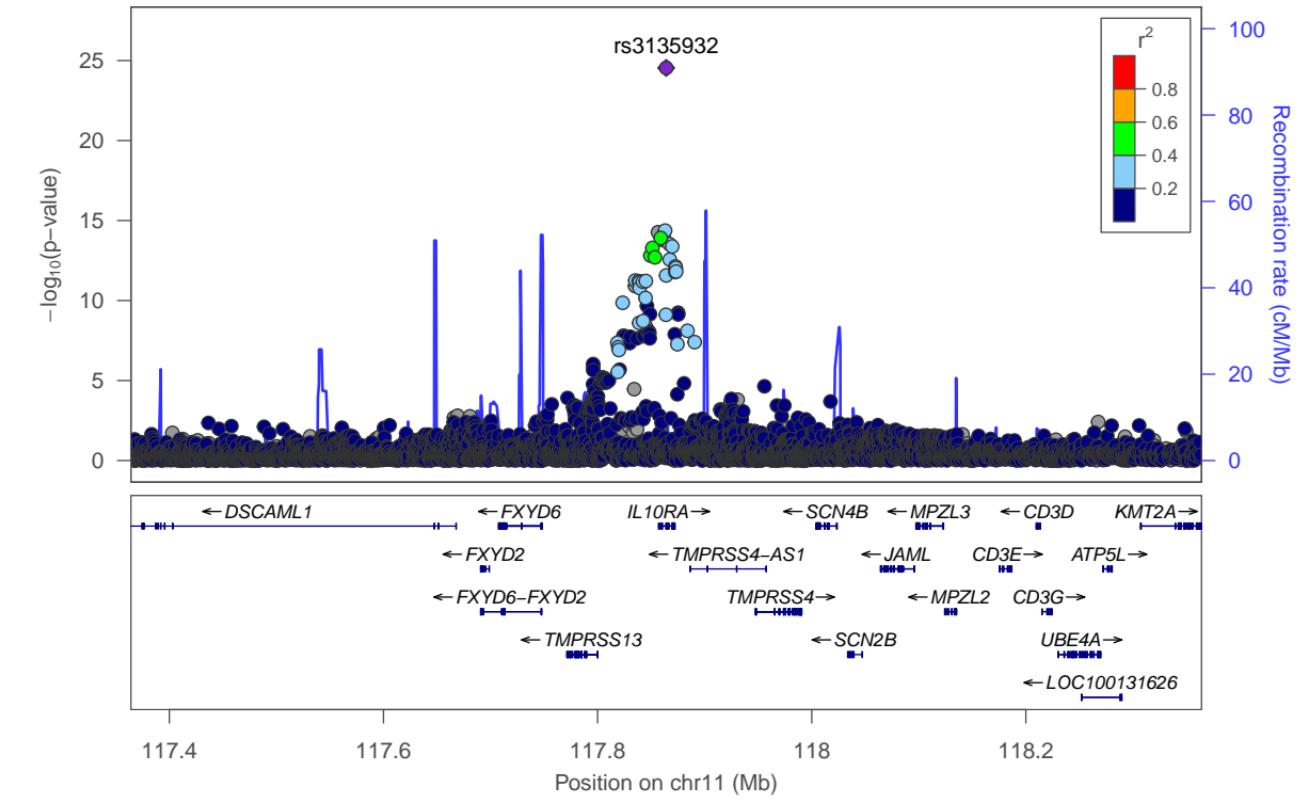
INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (982)  
RECOMBINE (448)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

## IL-10 [chr11:117864063\_A\_G (rs3135932) (A/G) N=14744]

**TE seTE****Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.82$ 

		95%-CI	Weight (fixed)	Weight (random)
		-0.18 [-0.24; -0.13]	33.1%	33.1%
		-0.20 [-0.29; -0.11]	11.4%	11.4%
		-0.11 [-0.27; 0.04]	3.8%	3.8%
		-0.12 [-0.25; 0.00]	6.0%	6.0%
		-0.13 [-0.25; 0.00]	5.6%	5.6%
		-0.12 [-0.23; -0.01]	8.1%	8.1%
		-0.13 [-0.29; 0.04]	3.3%	3.3%
		-0.18 [-0.25; -0.11]	18.3%	18.3%
		-0.14 [-0.33; 0.05]	2.6%	2.6%
		-0.15 [-0.35; 0.04]	2.4%	2.4%
		-0.06 [-0.19; 0.07]	5.5%	5.5%
	<b>TE</b>	<b>-0.16 [-0.19; -0.13]</b>	<b>100.0%</b>	--
	<b>seTE</b>	<b>--</b>	<b>--</b>	<b>100.0%</b>

## IL-10 (IL10)-rs3135932



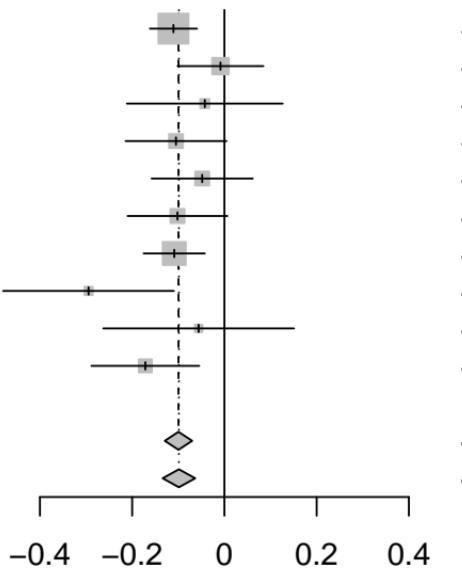
IL-10 [chr1:206954566\_A\_G (rs12123181) (A/G) N=14296]

**Study**

	<b>TE</b>	<b>seTE</b>
INTERVAL (4896)	-0.11	0.0261
BioFinder (1496)	-0.01	0.0475
EGCUT (487)	-0.04	0.0862
KORA (1064)	-0.10	0.0559
NSPHS (874)	-0.05	0.0560
ORCADES (982)	-0.10	0.0552
STABILITY (2951)	-0.11	0.0339
STANLEY (344)	-0.29	0.0945
STANLEY (300)	-0.06	0.1055
VIS (902)	-0.17	0.0597

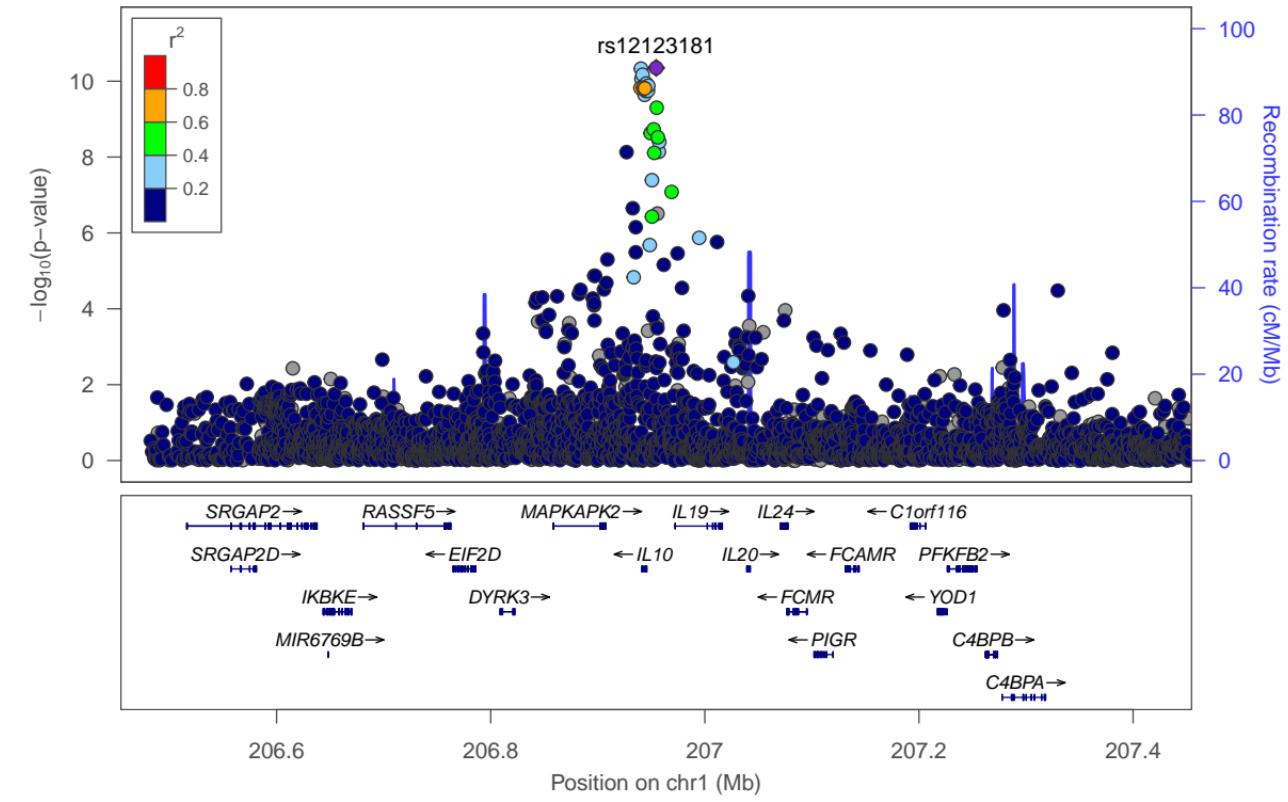
**Fixed effect model**  
**Random effects model**

Heterogeneity:  $I^2 = 19\%$ ,  $\tau^2 = 0.0006$ ,  $p = 0.27$



		<b>Weight</b>	<b>Weight</b>
	<b>95%-CI</b>	<b>(fixed)</b>	<b>(random)</b>
	-0.11 [-0.16; -0.06]	33.7%	25.6%
	-0.01 [-0.10; 0.08]	10.2%	11.4%
	-0.04 [-0.21; 0.13]	3.1%	4.0%
	-0.10 [-0.21; 0.00]	7.3%	8.7%
	-0.05 [-0.16; 0.06]	7.3%	8.7%
	-0.10 [-0.21; 0.01]	7.5%	8.9%
	-0.11 [-0.18; -0.04]	19.9%	18.7%
	-0.29 [-0.48; -0.11]	2.6%	3.4%
	-0.06 [-0.26; 0.15]	2.1%	2.8%
	-0.17 [-0.29; -0.05]	6.4%	7.8%
	<b>-0.10 [-0.13; -0.07]</b>	<b>100.0%</b>	--
	<b>-0.10 [-0.13; -0.06]</b>	--	<b>100.0%</b>

IL-10 (IL10)-rs12123181



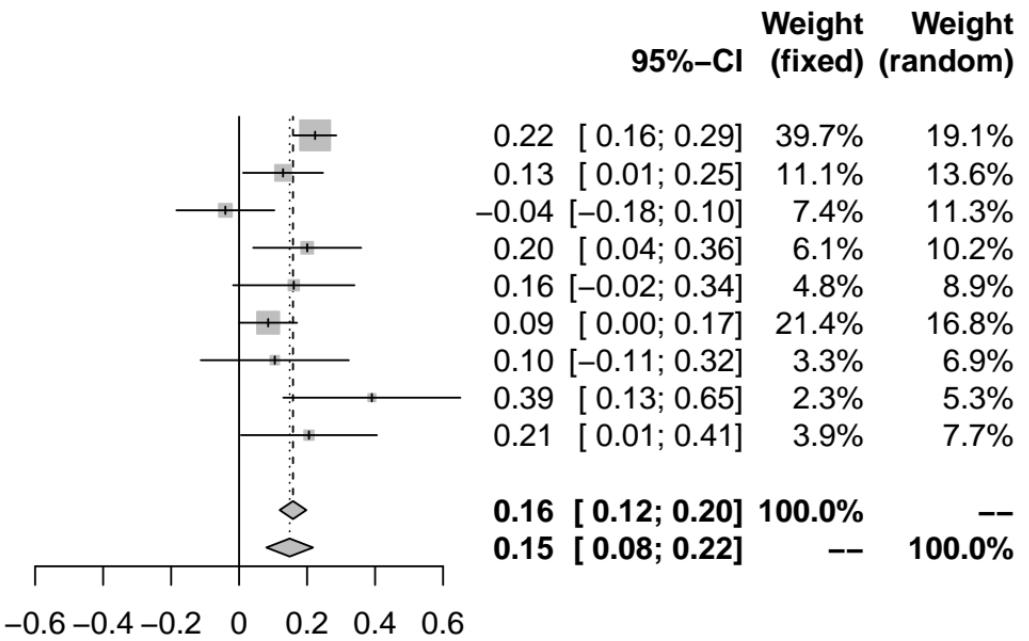
IL-10 [chr6:32434716\_A\_C (rs28377109) (A/C) N=13383]

Study	TE	seTE
INTERVAL (4896)	0.22	0.0318
BioFinder (1496)	0.13	0.0600
KORA (1064)	-0.04	0.0735
ORCADES (982)	0.20	0.0810
RECOMBINE (448)	0.16	0.0911
STABILITY (2951)	0.09	0.0433
STANLEY (344)	0.10	0.1111
STANLEY (300)	0.39	0.1329
VIS (902)	0.21	0.1020

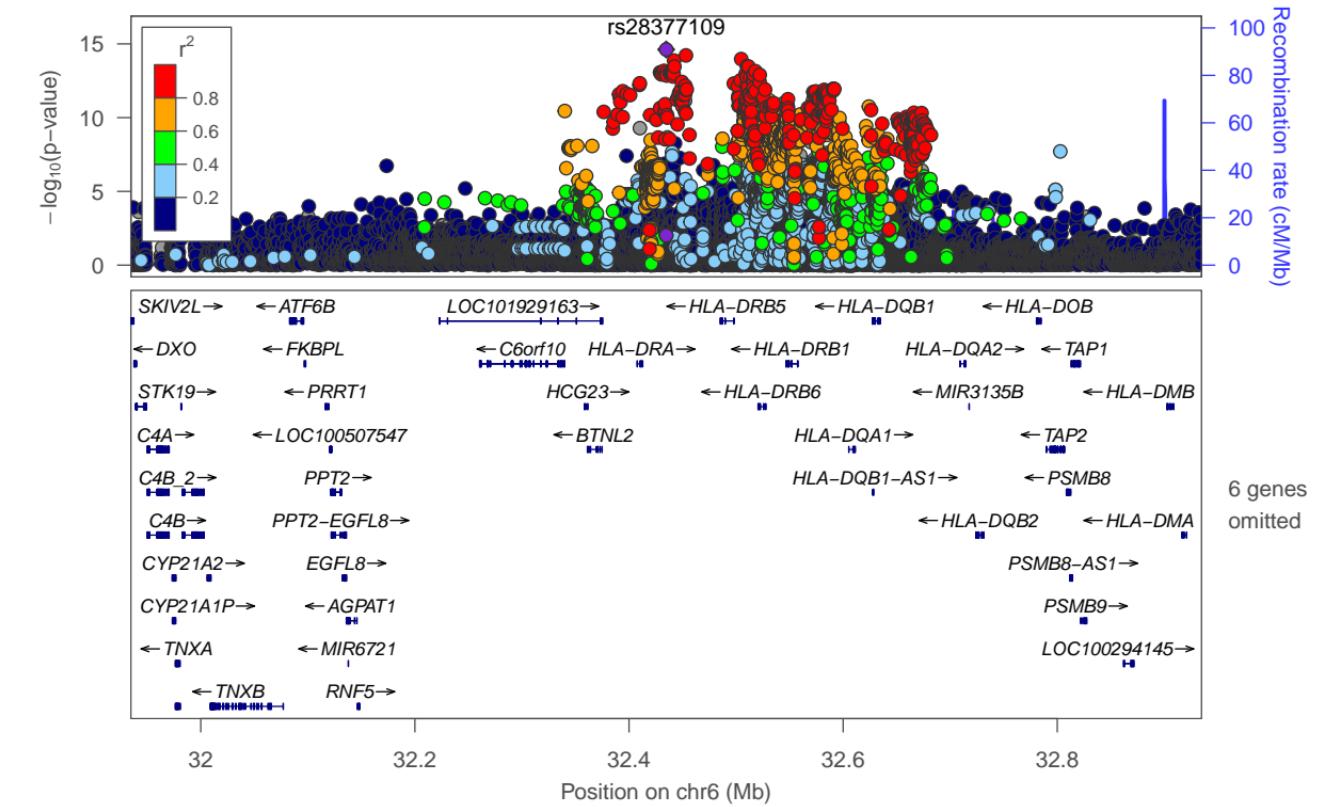
Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 56\%$ ,  $\tau^2 = 0.0054$ ,  $p = 0.02$



IL-10 (IL10)-rs28377109



IL10RB [chr1:179682087\_A\_G (rs142421172) (A/G) N=12840]

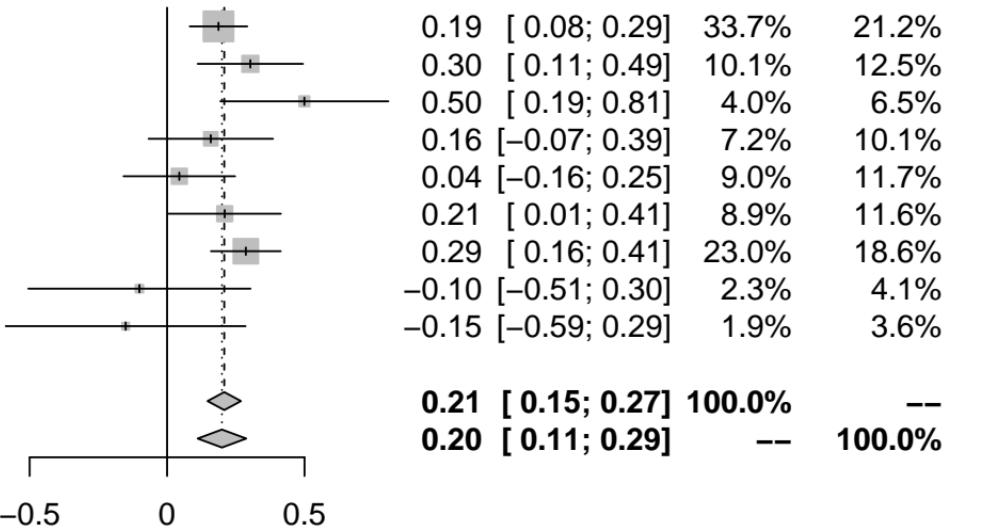
**Study**      **TE**    **seTE**

INTERVAL (4896)	0.19	0.0534
BioFinder (1496)	0.30	0.0978
EGCUT (487)	0.50	0.1560
KORA (1064)	0.16	0.1155
NSPHS (866)	0.04	0.1036
RECOMBINE (436)	0.21	0.1043
STABILITY (2951)	0.29	0.0648
STANLEY (344)	-0.10	0.2063
STANLEY (300)	-0.15	0.2226

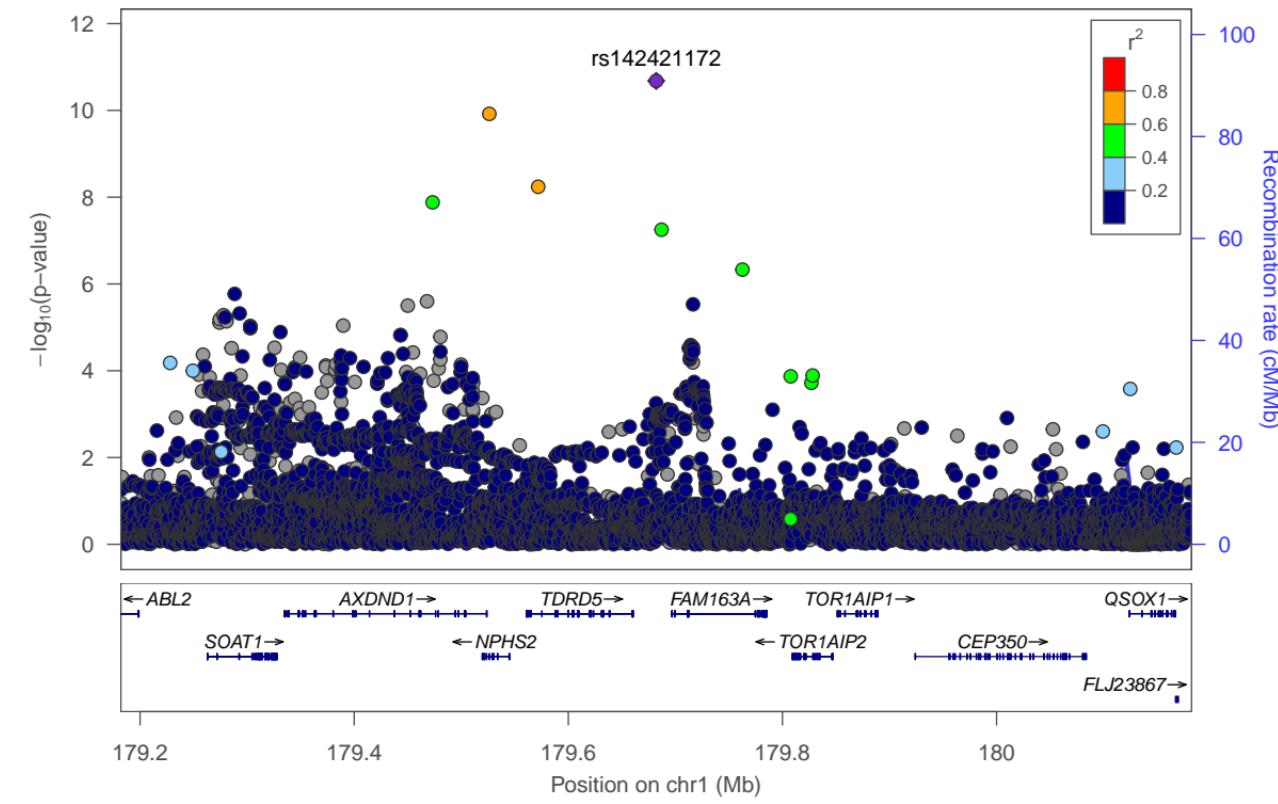
**Fixed effect model**

**Random effects model**

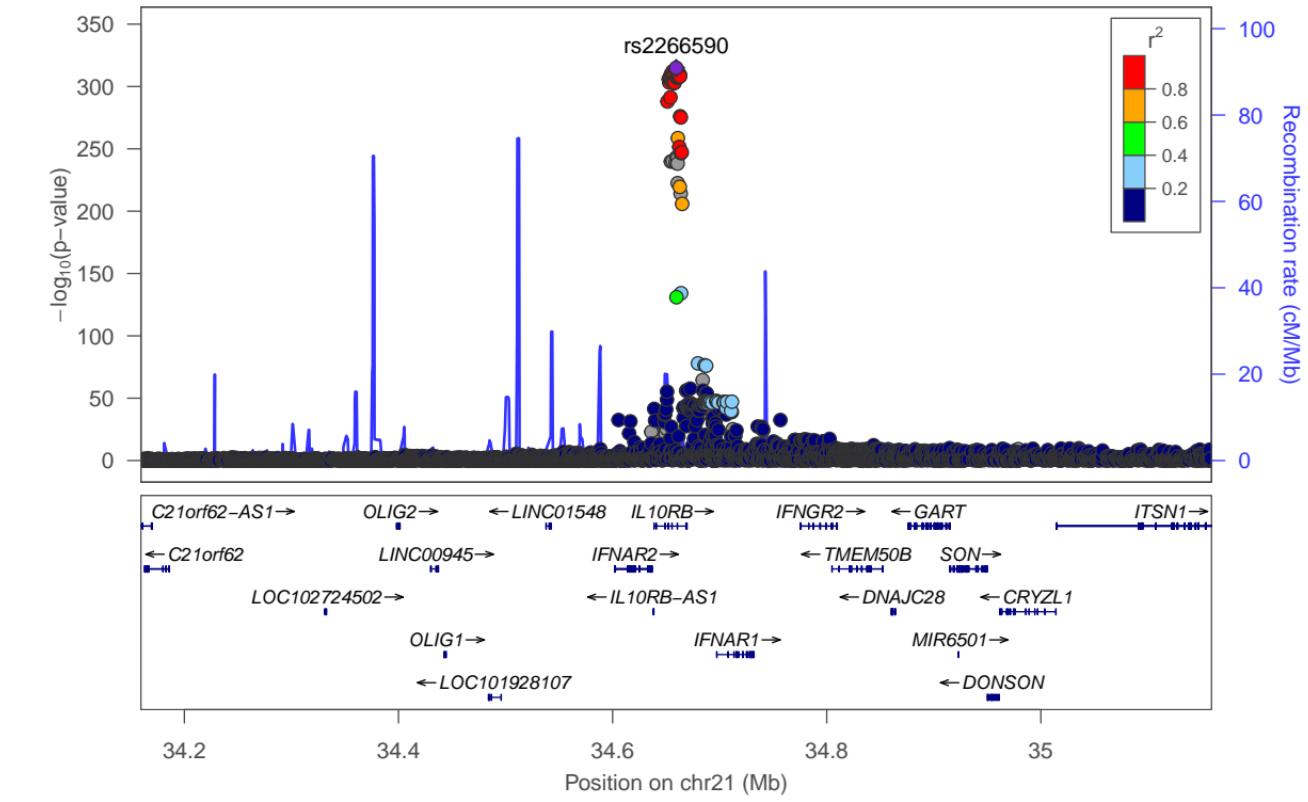
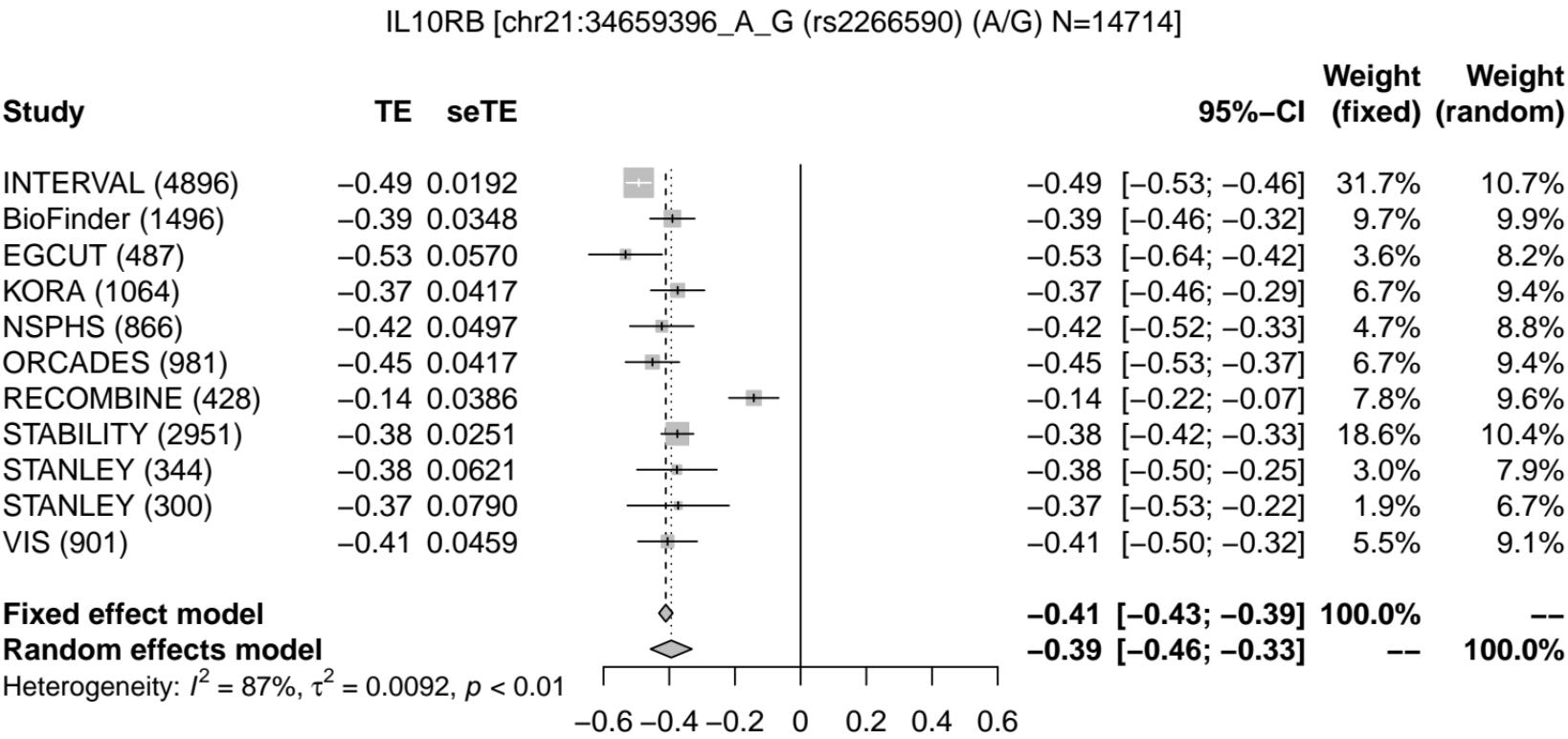
Heterogeneity:  $I^2 = 41\%$ ,  $\tau^2 = 0.0067$ ,  $p = 0.09$



IL10RB (IL10RB)-rs142421172

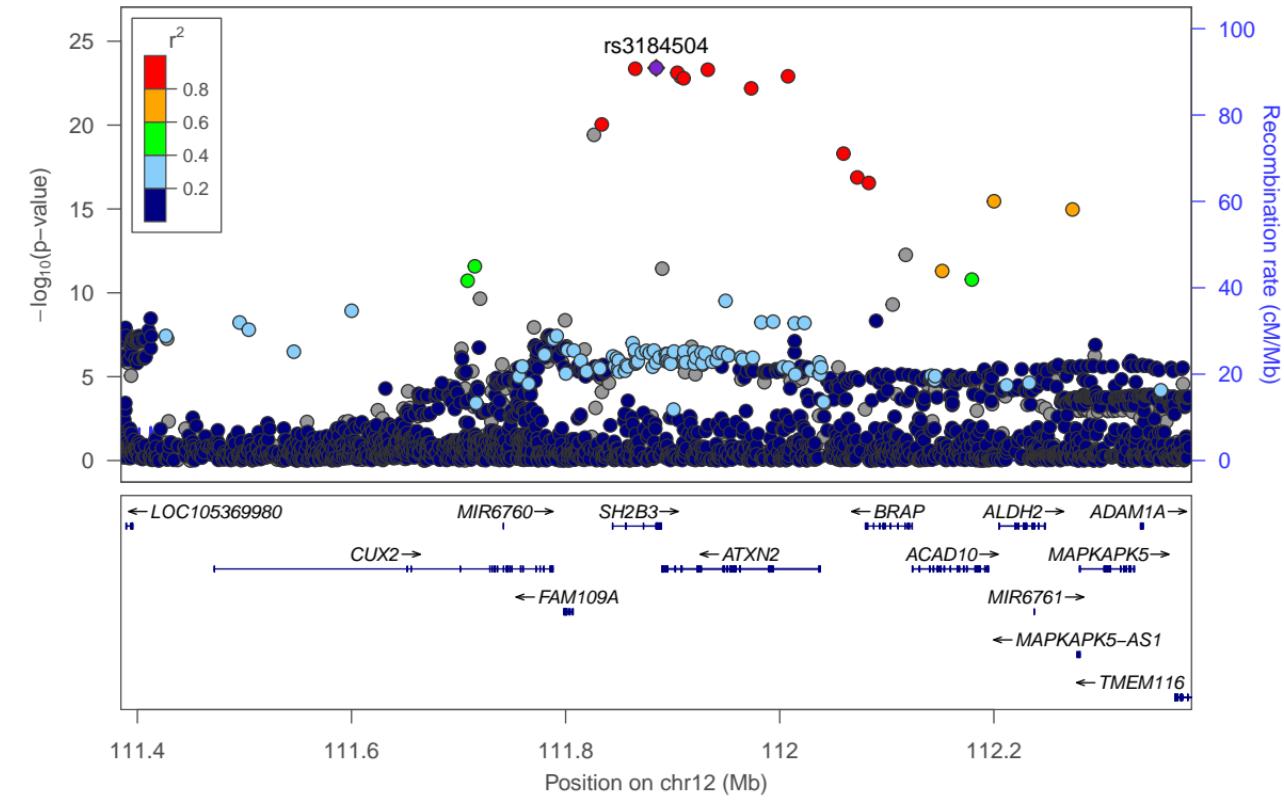
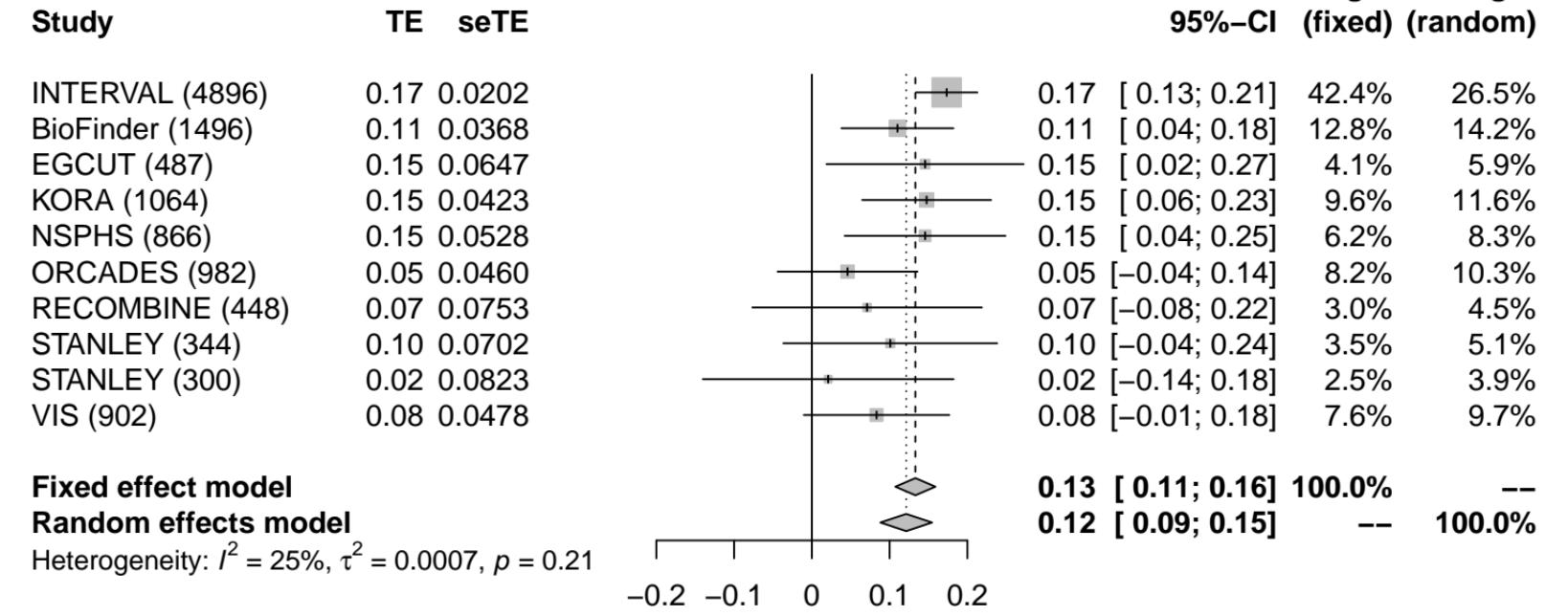


## IL10RB (IL10RB)-rs2266590



## IL-12B (IL12B)-rs3184504

IL-12B [chr12:111884608\_C\_T (rs3184504) (T/C) N=11785]



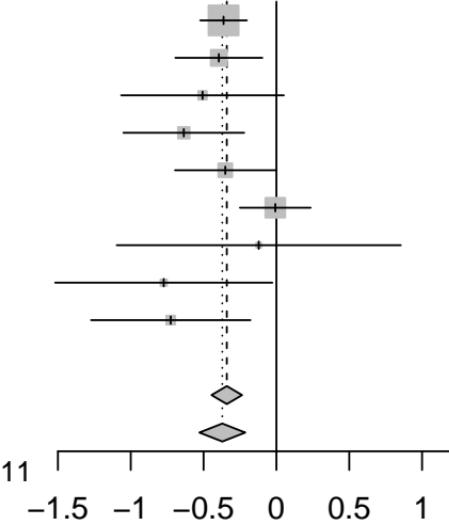
IL-12B [chr13:28604007\_C\_T (rs76428106) (T/C) N=13800]

**Study**

INTERVAL (4896)  
BioFinder (1496)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
STABILITY (2950)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

**TE seTE**

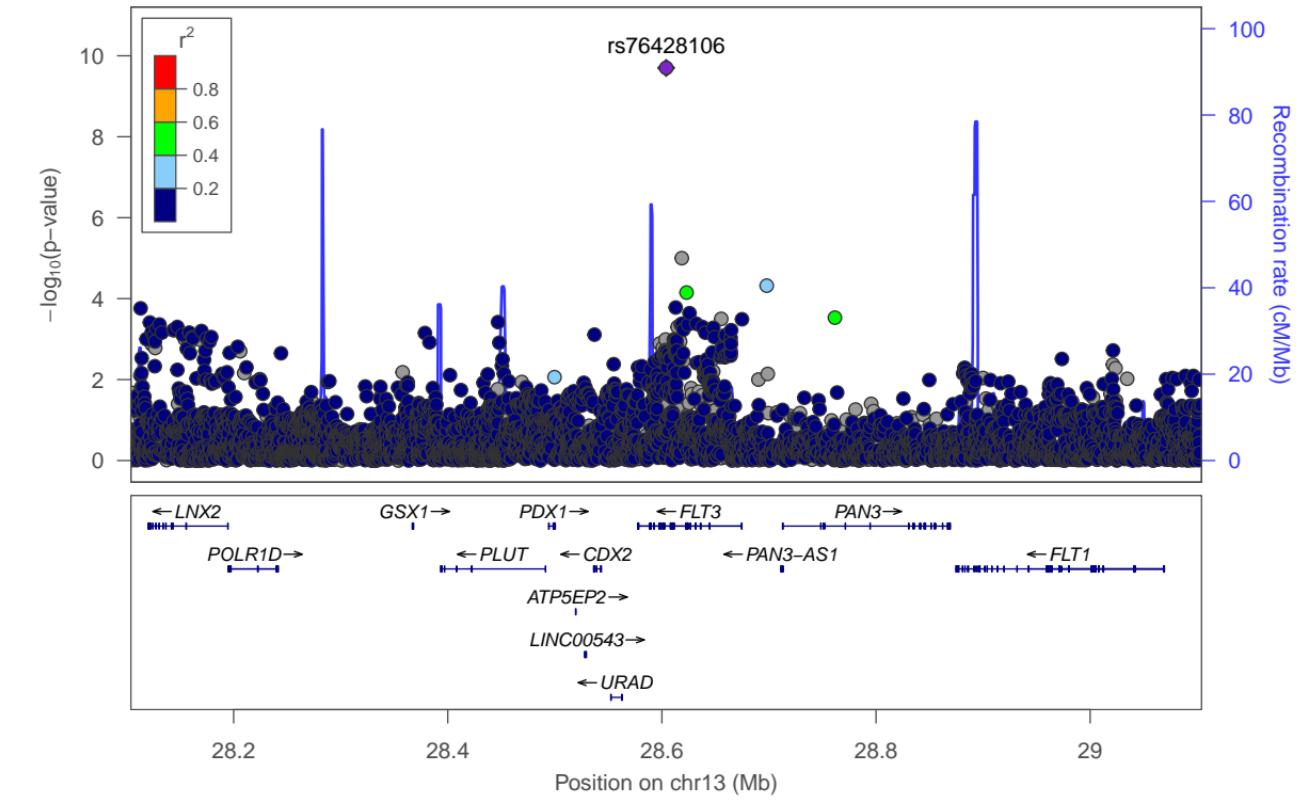
-0.36 0.0817  
-0.40 0.1524  
-0.51 0.2850  
-0.64 0.2116  
-0.35 0.1761  
-0.01 0.1238  
-0.12 0.4976  
-0.77 0.3805  
-0.73 0.2793



		<b>95%-CI</b>	<b>Weight (fixed)</b>	<b>Weight (random)</b>
		-0.36 [-0.52; -0.20]	43.0%	24.5%
		-0.40 [-0.69; -0.10]	12.3%	15.0%
		-0.51 [-1.07; 0.05]	3.5%	6.4%
		-0.64 [-1.05; -0.22]	6.4%	10.0%
		-0.35 [-0.70; -0.01]	9.2%	12.7%
		-0.01 [-0.25; 0.23]	18.7%	18.4%
		-0.12 [-1.10; 0.85]	1.2%	2.4%
		-0.77 [-1.52; -0.03]	2.0%	3.9%
		-0.73 [-1.27; -0.18]	3.7%	6.6%
<b>Fixed effect model</b>		<b>-0.34 [-0.45; -0.24]</b>	<b>100.0%</b>	--
<b>Random effects model</b>		<b>-0.37 [-0.53; -0.21]</b>	--	<b>100.0%</b>

Heterogeneity:  $I^2 = 39\%$ ,  $\tau^2 = 0.0196$ ,  $p = 0.11$

IL-12B (IL12B)-rs76428106



# IL-12B (IL12B)-rs12588969

IL-12B [chr14:103230758\_C\_G (rs12588969) (C/G) N=14287]

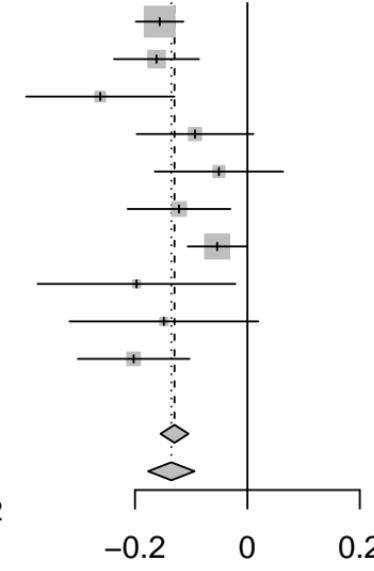
## Study

Study	TE	seTE
INTERVAL (4896)	-0.16	0.0216
BioFinder (1496)	-0.16	0.0386
EGCUT (487)	-0.26	0.0673
KORA (1064)	-0.09	0.0530
NSPHS (866)	-0.05	0.0583
ORCADES (982)	-0.12	0.0467
STABILITY (2950)	-0.05	0.0267
STANLEY (344)	-0.20	0.0898
STANLEY (300)	-0.15	0.0856
VIS (902)	-0.20	0.0507

## Fixed effect model Random effects model

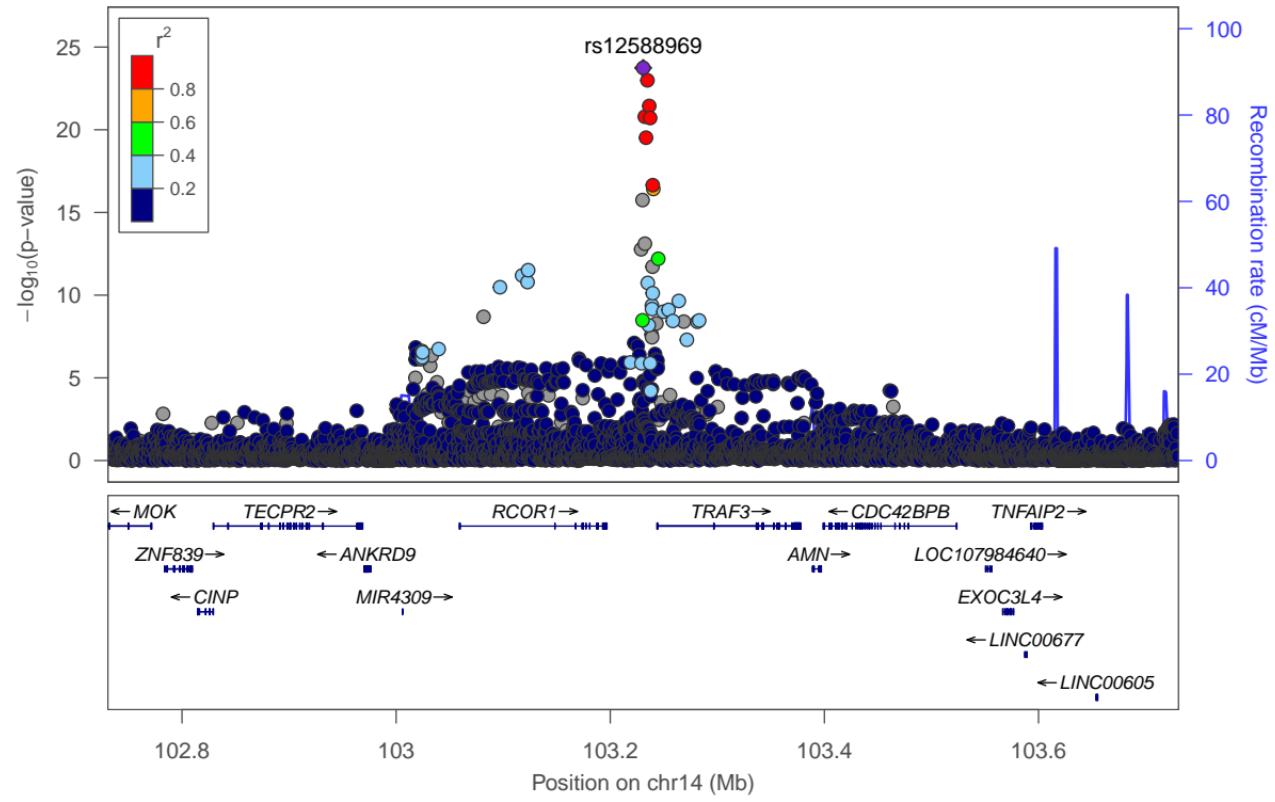
Heterogeneity:  $I^2 = 53\%$ ,  $\tau^2 = 0.0020$ ,  $p = 0.02$

## TE seTE



## Weight 95%-CI (fixed) (random)

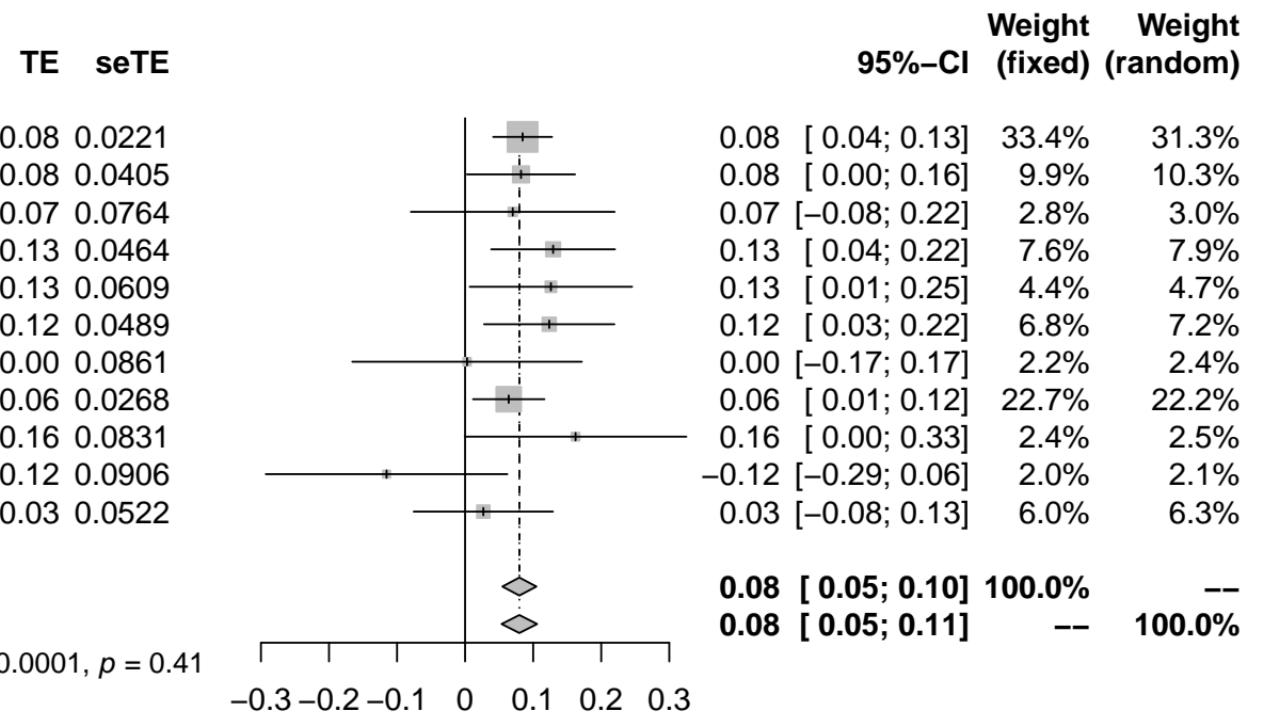
	95%-CI	Weight (fixed)	Weight (random)
	-0.16 [-0.20; -0.11]	34.6%	17.7%
	-0.16 [-0.24; -0.09]	10.8%	12.6%
	-0.26 [-0.39; -0.13]	3.6%	6.8%
	-0.09 [-0.20; 0.01]	5.8%	9.2%
	-0.05 [-0.16; 0.06]	4.8%	8.2%
	-0.12 [-0.21; -0.03]	7.4%	10.5%
	-0.05 [-0.11; 0.00]	22.6%	16.2%
	-0.20 [-0.37; -0.02]	2.0%	4.4%
	-0.15 [-0.32; 0.02]	2.2%	4.8%
	-0.20 [-0.30; -0.10]	6.3%	9.7%
<b>Fixed effect model</b>	<b>-0.13 [-0.15; -0.10]</b>	<b>100.0%</b>	--
<b>Random effects model</b>	<b>-0.14 [-0.18; -0.09]</b>	--	<b>100.0%</b>



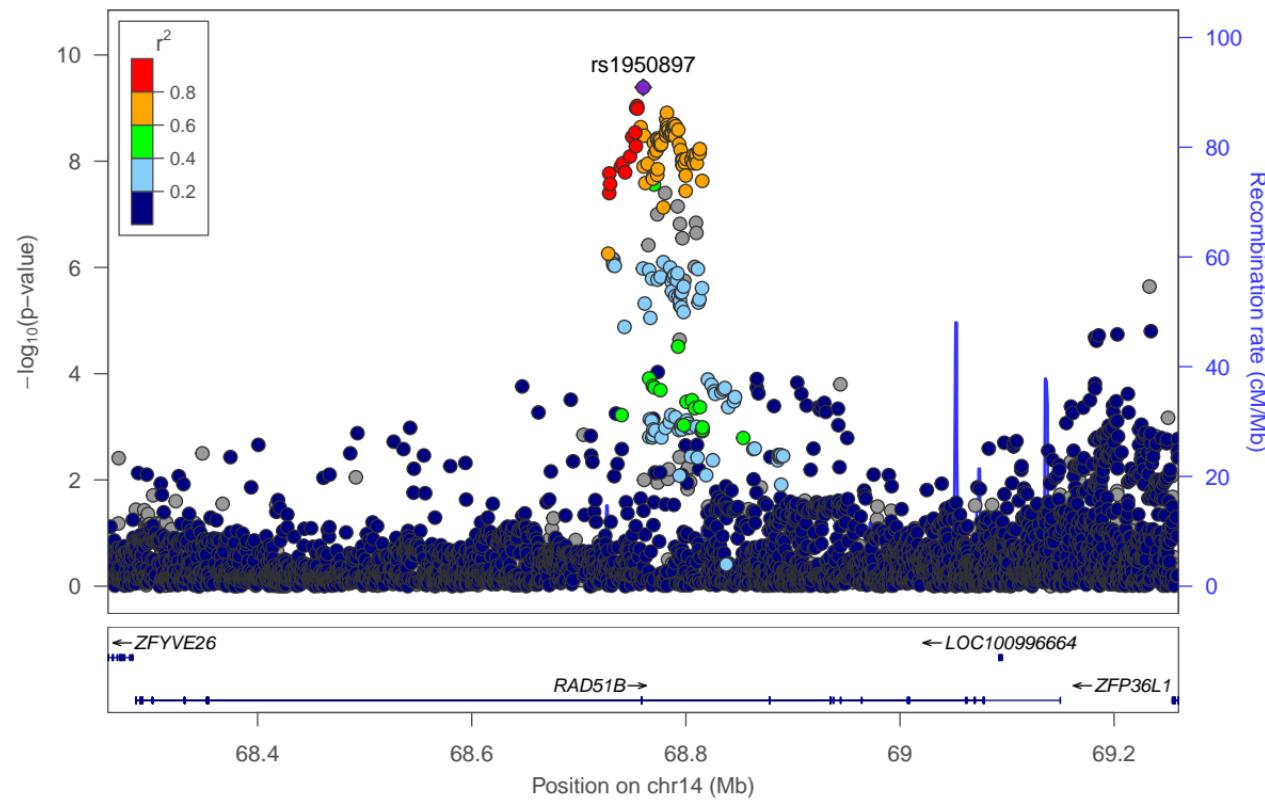
IL-12B [chr14:68760141\_C\_T (rs1950897) (T/C) N=14735]

**Study**

Study	TE	seTE
INTERVAL (4896)	0.08	0.0221
BioFinder (1496)	0.08	0.0405
EGCUT (487)	0.07	0.0764
KORA (1064)	0.13	0.0464
NSPHS (866)	0.13	0.0609
ORCADES (982)	0.12	0.0489
RECOMBINE (448)	0.00	0.0861
STABILITY (2950)	0.06	0.0268
STANLEY (344)	0.16	0.0831
STANLEY (300)	-0.12	0.0906
VIS (902)	0.03	0.0522



IL-12B (IL12B)-rs1950897



# IL-12B (IL12B)-rs9815073

IL-12B [chr3:188115682\_A\_C (rs9815073) (A/C) N=14287]

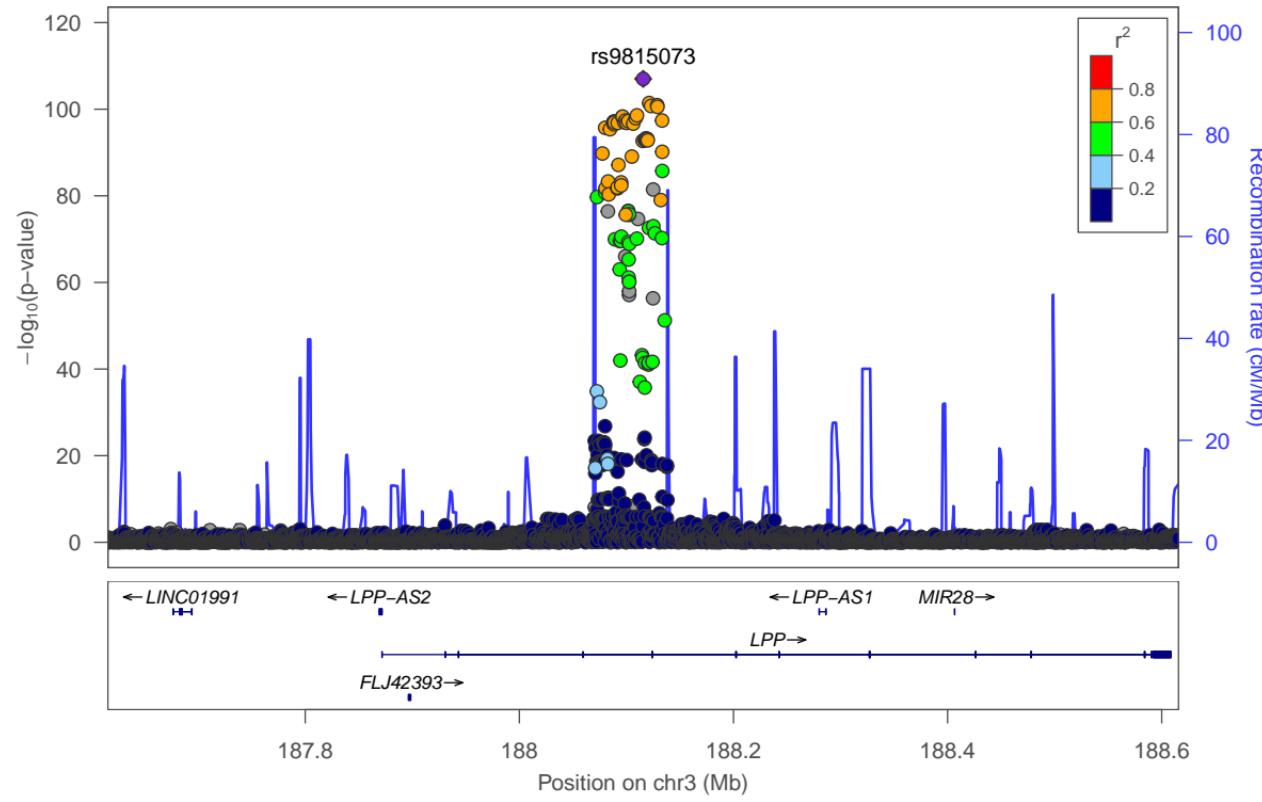
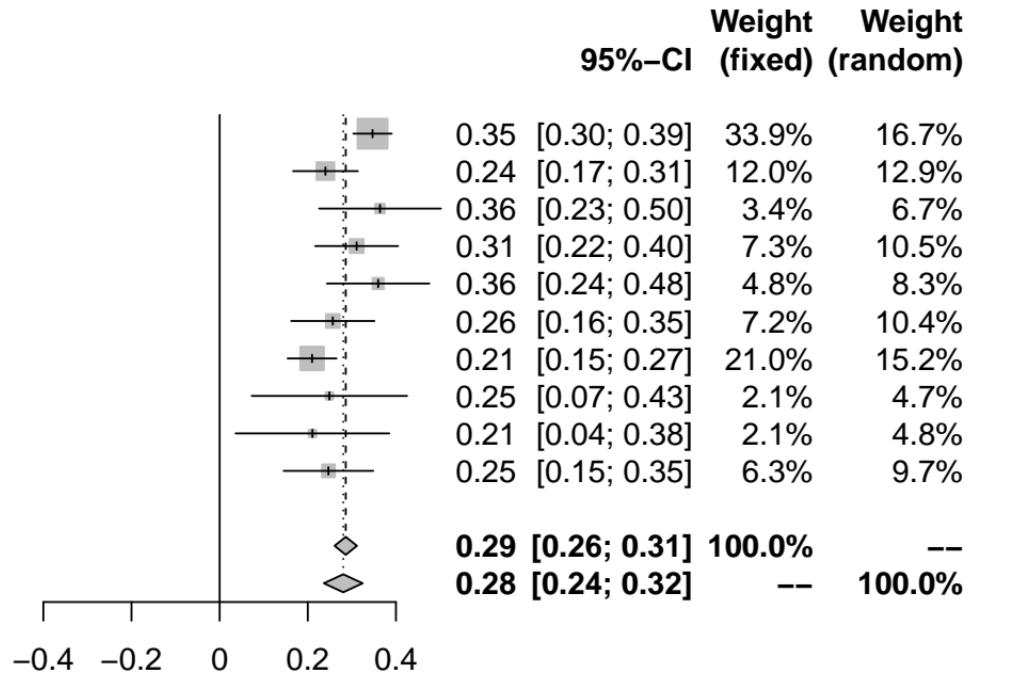
## Study

	TE	seTE
INTERVAL (4896)	0.35	0.0223
BioFinder (1496)	0.24	0.0375
EGCUT (487)	0.36	0.0705
KORA (1064)	0.31	0.0480
NSPHS (866)	0.36	0.0594
ORCADES (982)	0.26	0.0482
STABILITY (2950)	0.21	0.0283
STANLEY (344)	0.25	0.0900
STANLEY (300)	0.21	0.0890
VIS (902)	0.25	0.0519

## Fixed effect model

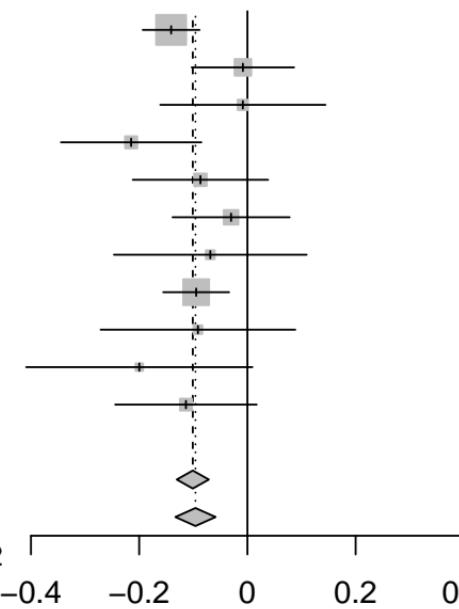
## Random effects model

Heterogeneity:  $I^2 = 57\%$ ,  $\tau^2 = 0.0025$ ,  $p = 0.01$

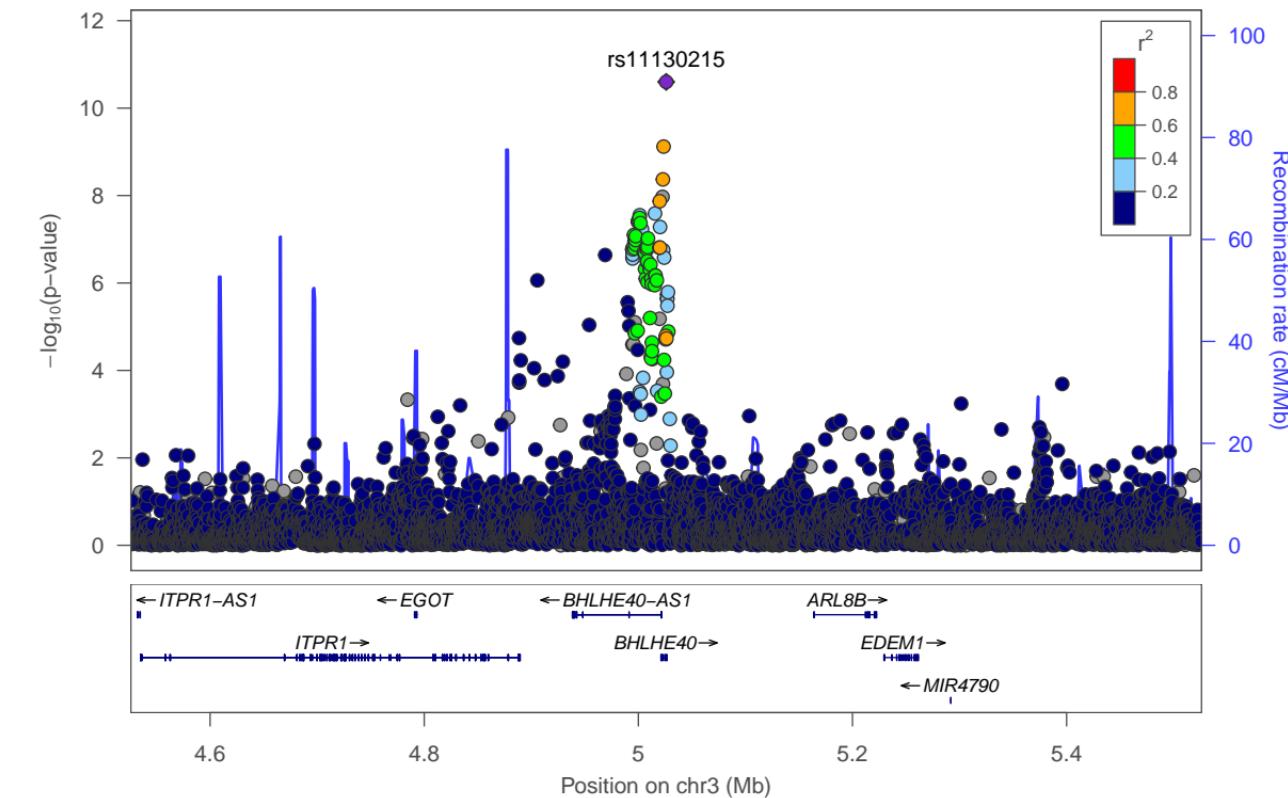


**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (446)  
STABILITY (2950)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

**IL-12B [chr3:5026008\_A\_G (rs11130215) (A/G) N=14733]****TE****seTE**

		95%-CI	Weight (fixed)	Weight (random)
		-0.14 [-0.19; -0.09]	31.8%	22.9%
		-0.01 [-0.10; 0.09]	9.8%	11.3%
		-0.01 [-0.16; 0.14]	3.8%	5.2%
		-0.21 [-0.34; -0.09]	5.2%	6.9%
		-0.09 [-0.21; 0.04]	5.6%	7.3%
		-0.03 [-0.14; 0.08]	7.5%	9.2%
		-0.07 [-0.25; 0.11]	2.8%	3.9%
		-0.09 [-0.16; -0.03]	23.7%	19.8%
		-0.09 [-0.27; 0.09]	2.7%	3.9%
		-0.20 [-0.41; 0.01]	2.0%	2.9%
		-0.11 [-0.24; 0.02]	5.1%	6.8%
		<b>-0.10 [-0.13; -0.07]</b>	<b>100.0%</b>	--
		<b>-0.10 [-0.13; -0.06]</b>	--	<b>100.0%</b>

**Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 23\%$ ,  $\tau^2 = 0.0009$ ,  $p = 0.22$ **IL-12B (IL12B)-rs11130215**

### IL-12B [chr5:158792819\_C\_G (rs10076557) (C/G) N=14720]

#### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (433)  
STABILITY (2950)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

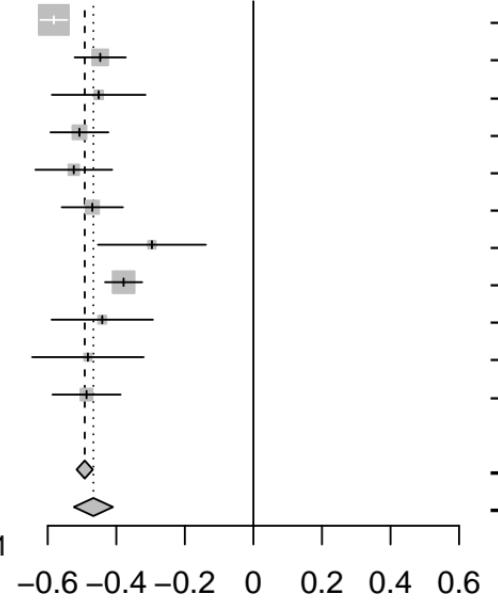
TE seTE

-0.58 0.0201  
-0.45 0.0381  
-0.45 0.0697  
-0.51 0.0430  
-0.52 0.0571  
-0.47 0.0455  
-0.30 0.0803  
-0.38 0.0276  
-0.44 0.0754  
-0.48 0.0830  
-0.49 0.0507

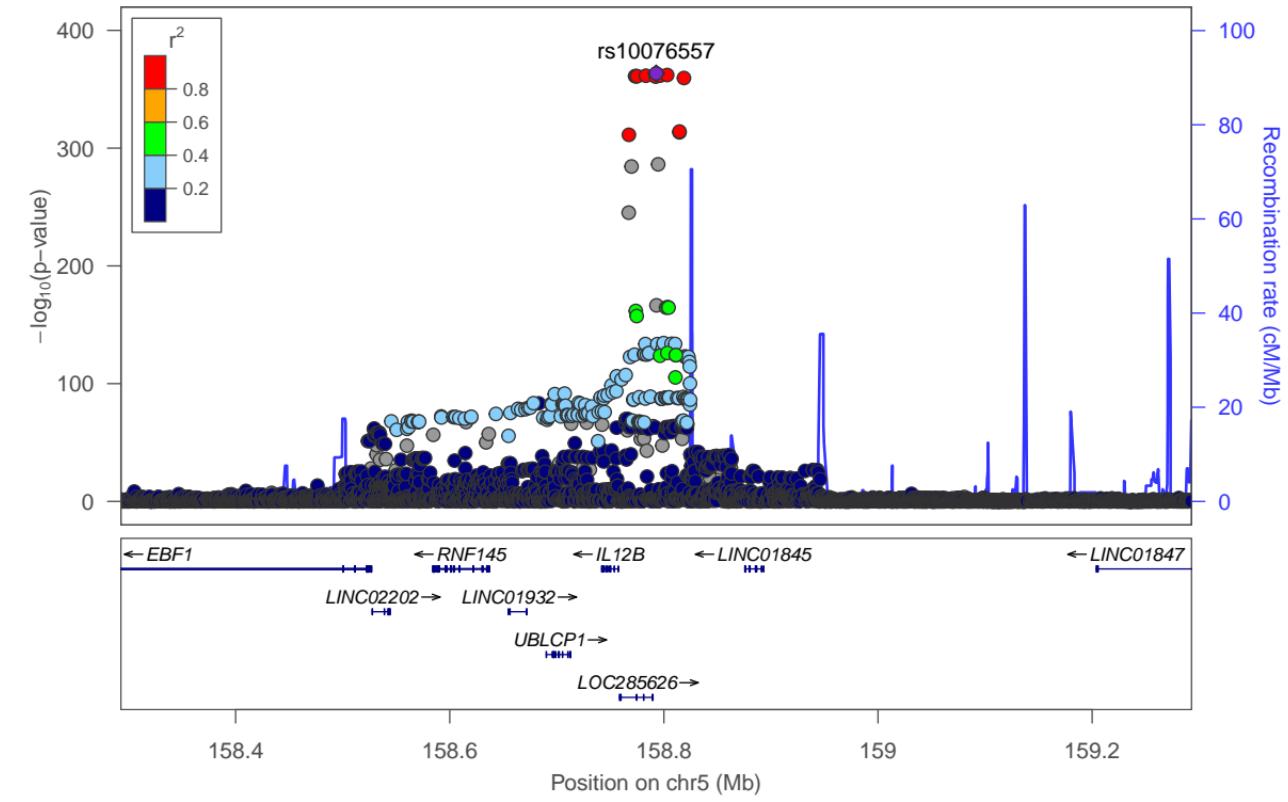
Weight  
95%-CI  
(fixed) (random)

	95%-CI	Weight (fixed)	Weight (random)
-0.58 [-0.62; -0.54]	36.0%	12.3%	
-0.45 [-0.52; -0.37]	10.0%	10.7%	
-0.45 [-0.59; -0.31]	3.0%	7.5%	
-0.51 [-0.59; -0.42]	7.8%	10.2%	
-0.52 [-0.64; -0.41]	4.5%	8.7%	
-0.47 [-0.56; -0.38]	7.0%	9.9%	
-0.30 [-0.45; -0.14]	2.3%	6.5%	
-0.38 [-0.43; -0.32]	19.1%	11.7%	
-0.44 [-0.59; -0.29]	2.6%	7.0%	
-0.48 [-0.65; -0.32]	2.1%	6.3%	
-0.49 [-0.59; -0.39]	5.7%	9.3%	

**Fixed effect model**  
**Random effects model**  
Heterogeneity:  $I^2 = 78\%$ ,  $\tau^2 = 0.0065$ ,  $p < 0.01$



### IL-12B (IL12B)-rs10076557



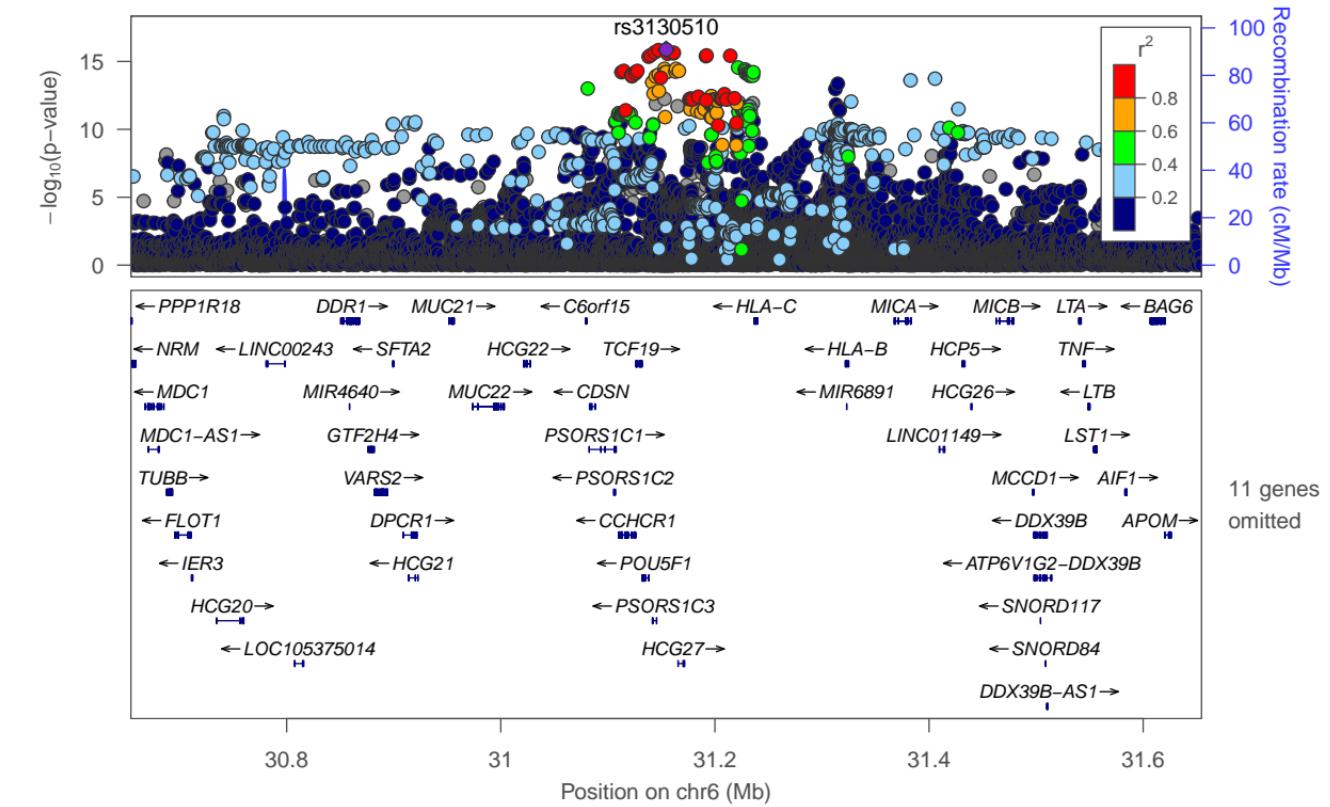
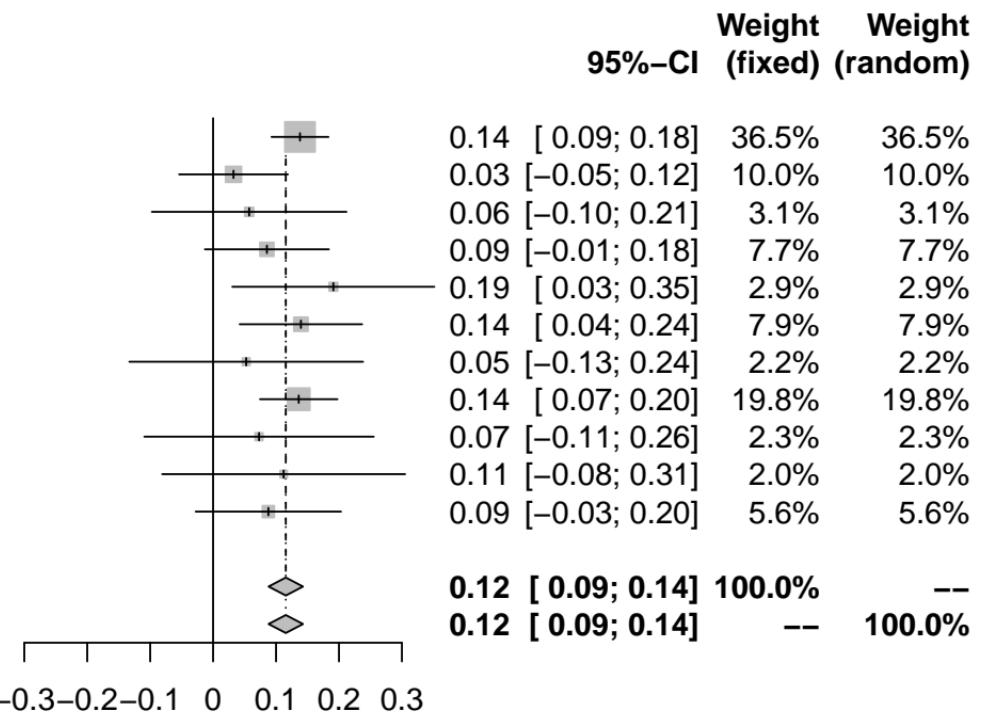
## IL-12B (IL12B)-rs3130510

IL-12B [chr6:31154493\_A\_G (rs3130510) (A/G) N=14735]

### Study

	TE	seTE
INTERVAL (4896)	0.14	0.0231
BioFinder (1496)	0.03	0.0441
EGCUT (487)	0.06	0.0789
KORA (1064)	0.09	0.0503
NSPHS (866)	0.19	0.0819
ORCADES (982)	0.14	0.0496
RECOMBINE (448)	0.05	0.0948
STABILITY (2950)	0.14	0.0314
STANLEY (344)	0.07	0.0930
STANLEY (300)	0.11	0.0985
VIS (902)	0.09	0.0589

TE seTE



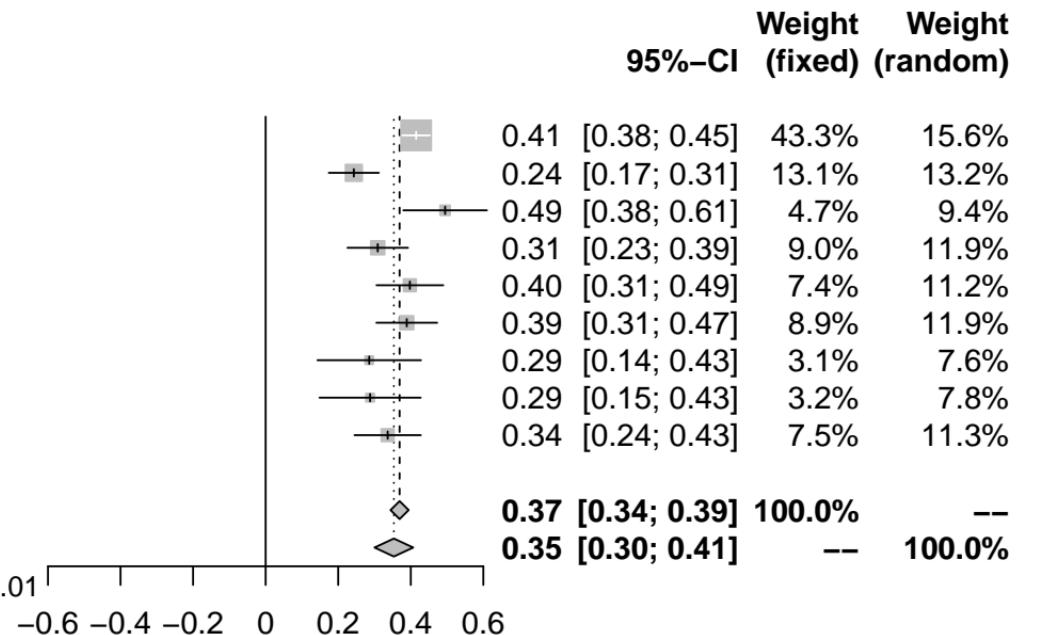
IL-15RA [chr10:6002368\_G\_T (rs2228059) (T/G) N=11344]

Study	TE	seTE
INTERVAL (4896)	0.41	0.0194
BioFinder (1496)	0.24	0.0353
EGCUT (487)	0.49	0.0588
KORA (1064)	0.31	0.0426
NSPHS (874)	0.40	0.0470
ORCADES (981)	0.39	0.0428
STANLEY (344)	0.29	0.0728
STANLEY (300)	0.29	0.0712
VIS (902)	0.34	0.0467

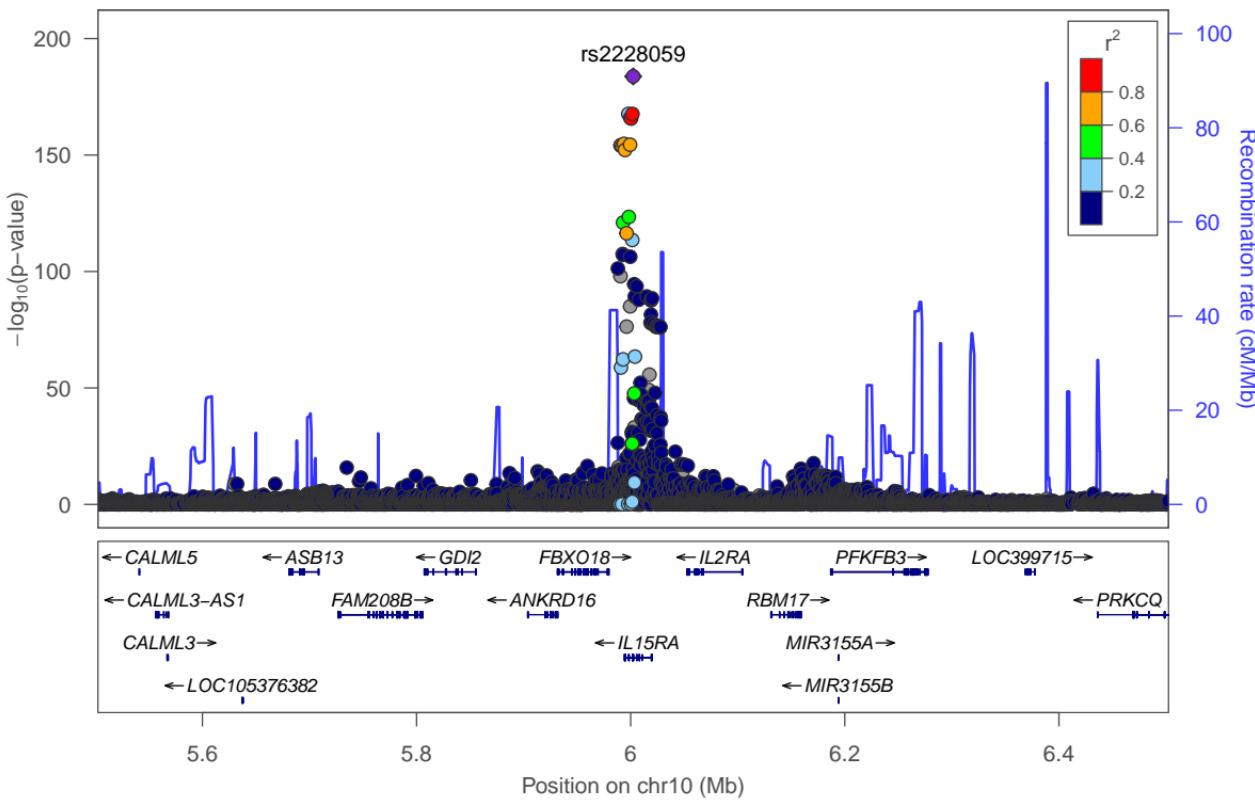
Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 72\%$ ,  $\tau^2 = 0.0044$ ,  $p < 0.01$



IL-15RA (IL15RA)-rs2228059



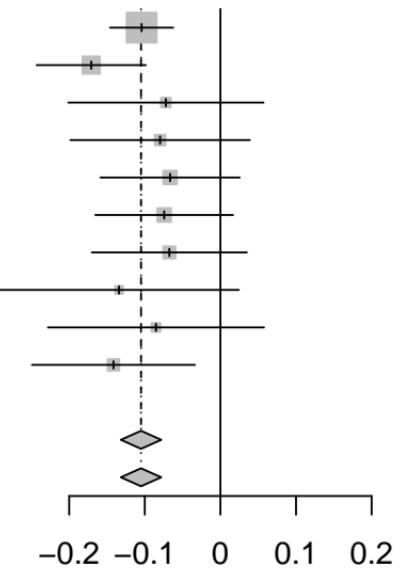
**Study**

	TE	seTE
INTERVAL (4896)	-0.10	0.0213
BioFinder (1496)	-0.17	0.0368
EGCUT (487)	-0.07	0.0659
KORA (1064)	-0.08	0.0606
NSPHS (874)	-0.07	0.0470
ORCADES (982)	-0.07	0.0465
RECOMBINE (430)	-0.07	0.0523
STANLEY (344)	-0.13	0.0809
STANLEY (300)	-0.09	0.0729
VIS (902)	-0.14	0.0550

**Fixed effect model**  
**Random effects model**

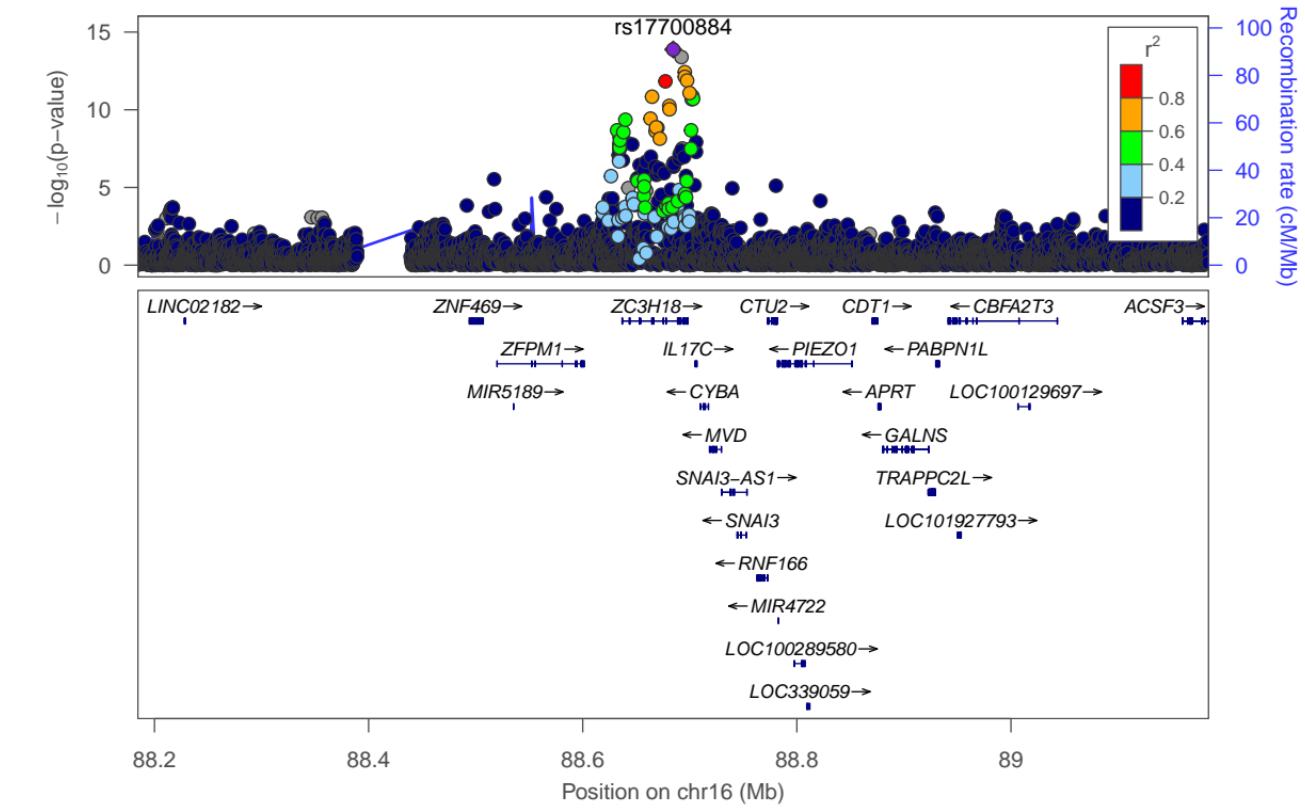
Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.75$

## IL-17C [chr16:88684495\_G\_T (rs17700884) (T/G) N=11775]

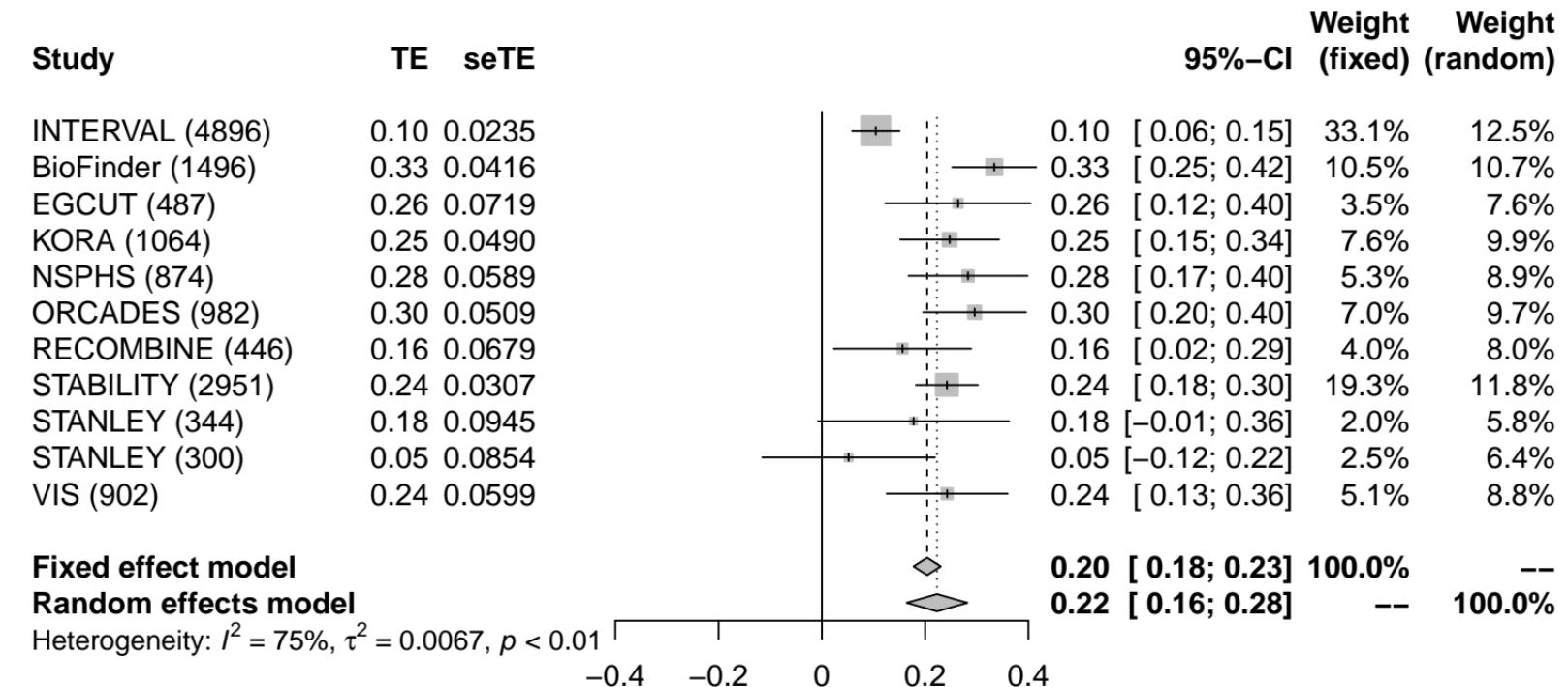
**TE** **seTE****95%-CI** **Weight (fixed)** **Weight (random)**

-0.10	[-0.15; -0.06]	40.8%	40.8%
-0.17	[-0.24; -0.10]	13.7%	13.7%
-0.07	[-0.20; 0.06]	4.3%	4.3%
-0.08	[-0.20; 0.04]	5.1%	5.1%
-0.07	[-0.16; 0.03]	8.4%	8.4%
-0.07	[-0.17; 0.02]	8.6%	8.6%
-0.07	[-0.17; 0.04]	6.8%	6.8%
-0.13	[-0.29; 0.02]	2.8%	2.8%
-0.09	[-0.23; 0.06]	3.5%	3.5%
-0.14	[-0.25; -0.03]	6.1%	6.1%
<b>-0.10</b>	<b>[-0.13; -0.08]</b>	<b>100.0%</b>	--
<b>-0.10</b>	<b>[-0.13; -0.08]</b>	--	<b>100.0%</b>

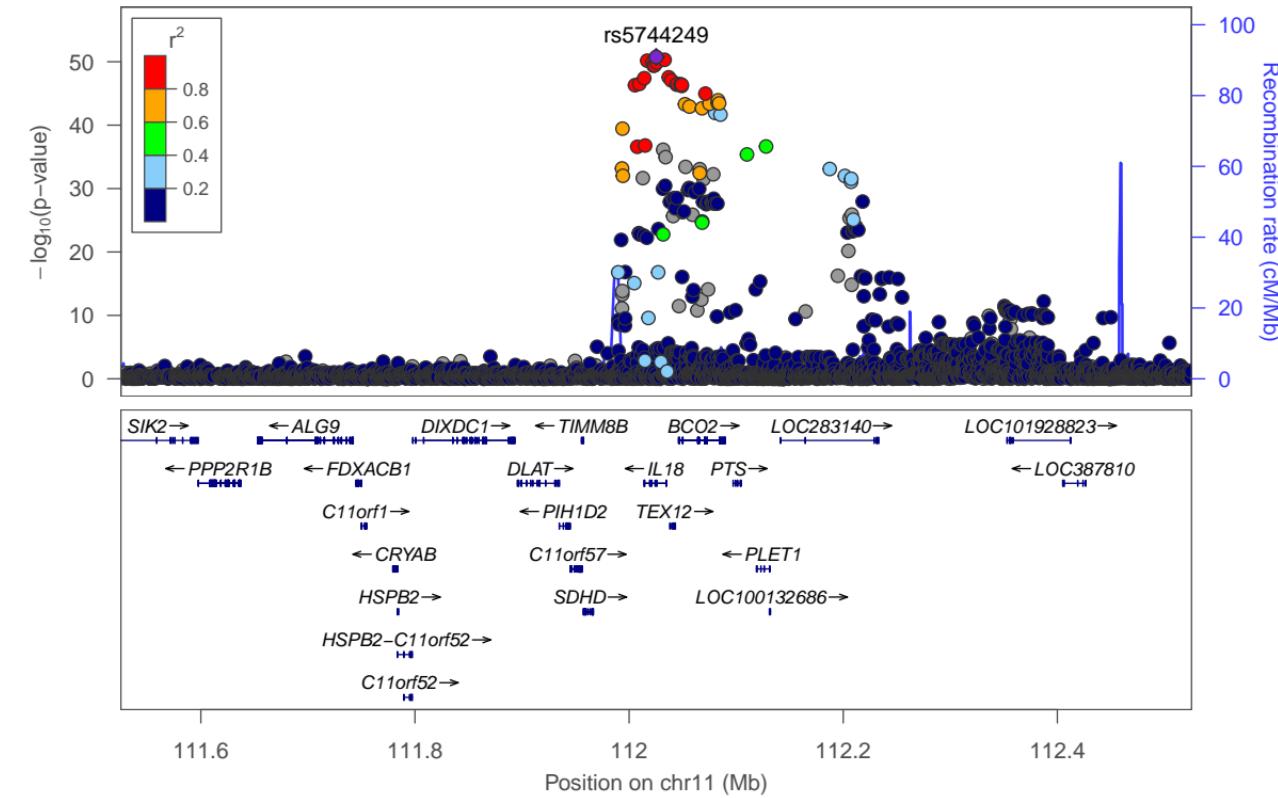
## IL-17C (IL17C)-rs17700884



### IL-18 [chr11:112025306\_A\_C (rs5744249) (A/C) N=14742]



### IL-18 (IL18)-rs5744249



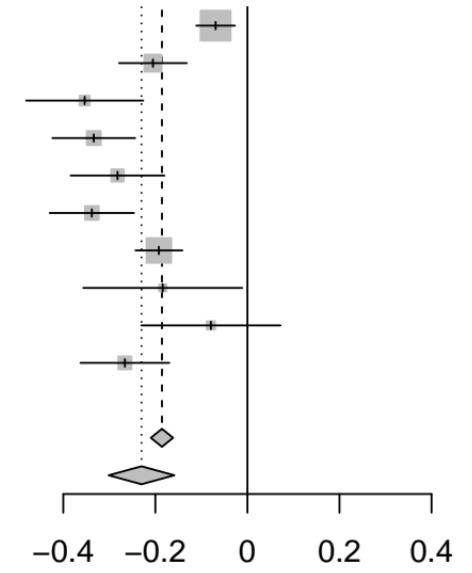
### IL-18 [chr2:32489851\_C\_T (rs385076) (T/C) N=14296]

#### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (982)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

TE seTE

-0.07 0.0214  
-0.21 0.0375  
-0.35 0.0649  
-0.33 0.0459  
-0.28 0.0520  
-0.34 0.0467  
-0.19 0.0260  
-0.18 0.0881  
-0.08 0.0772  
-0.27 0.0492



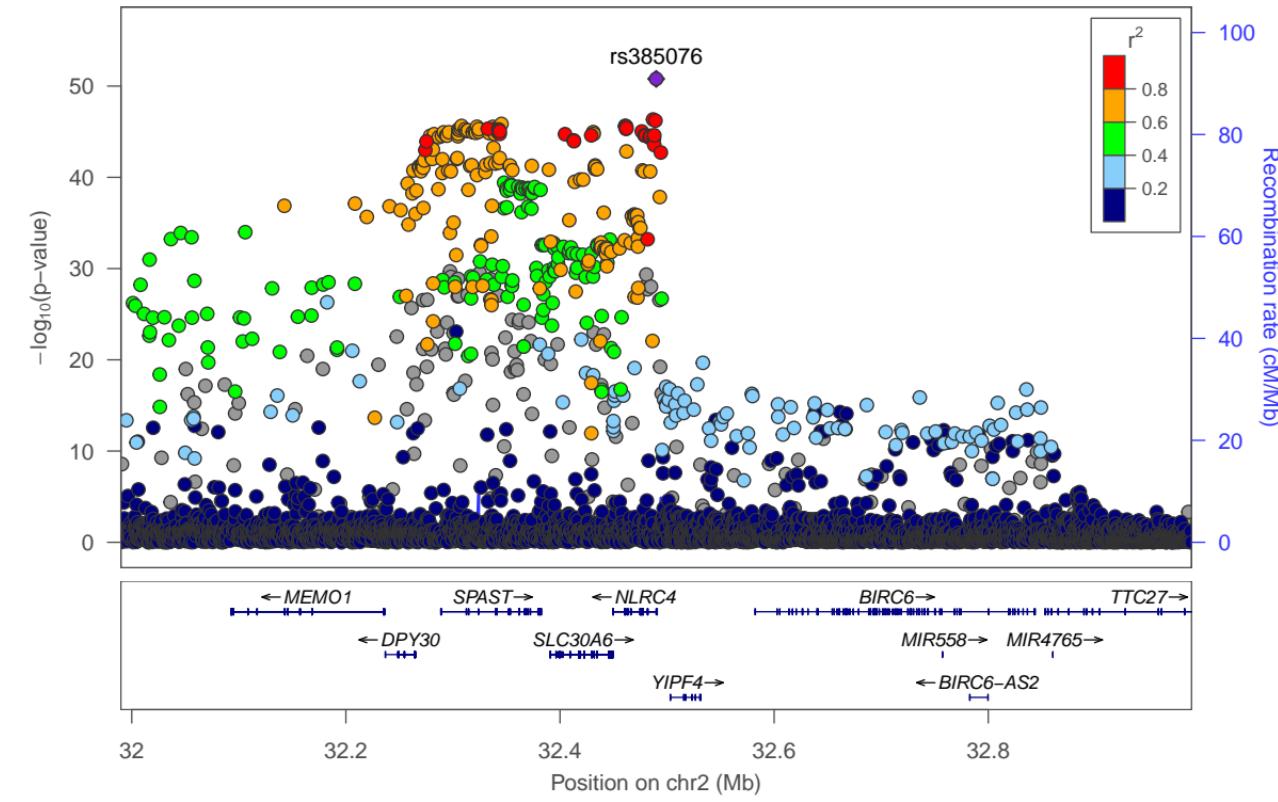
Fixed effect model

Random effects model

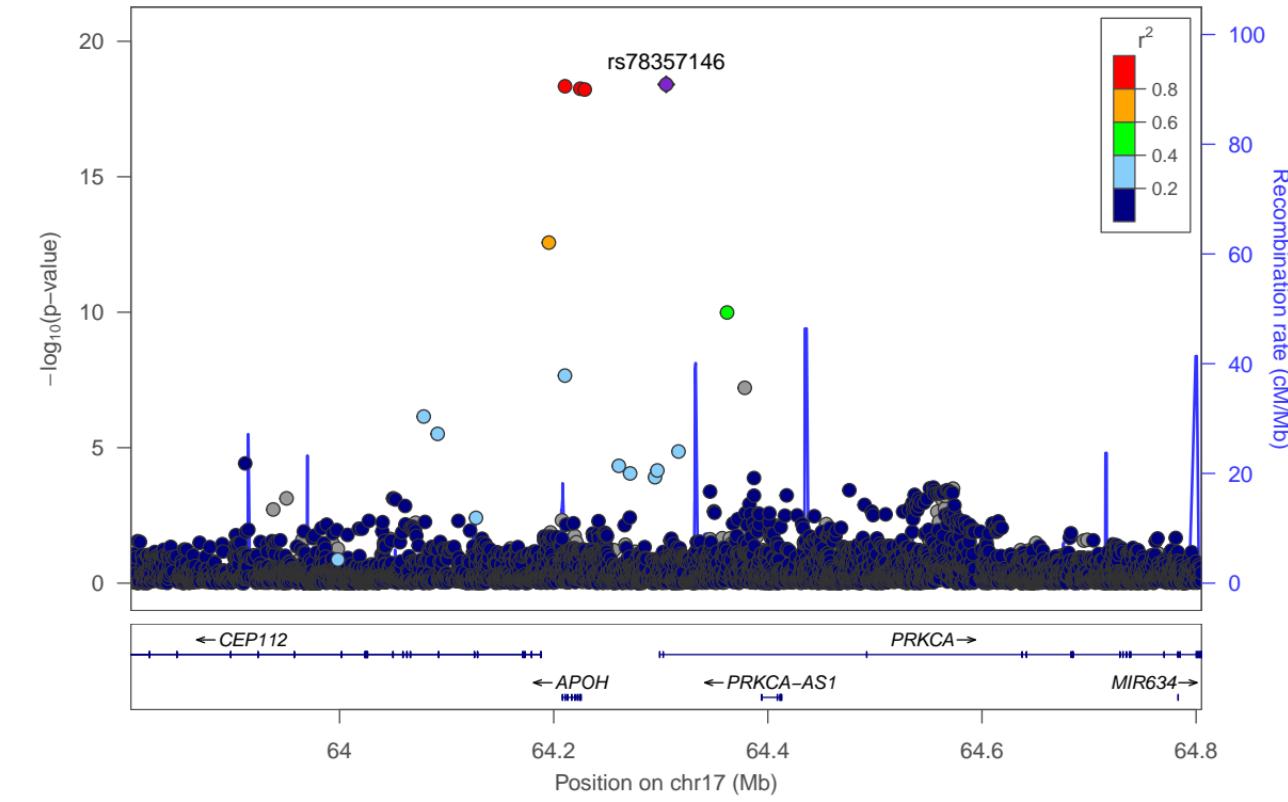
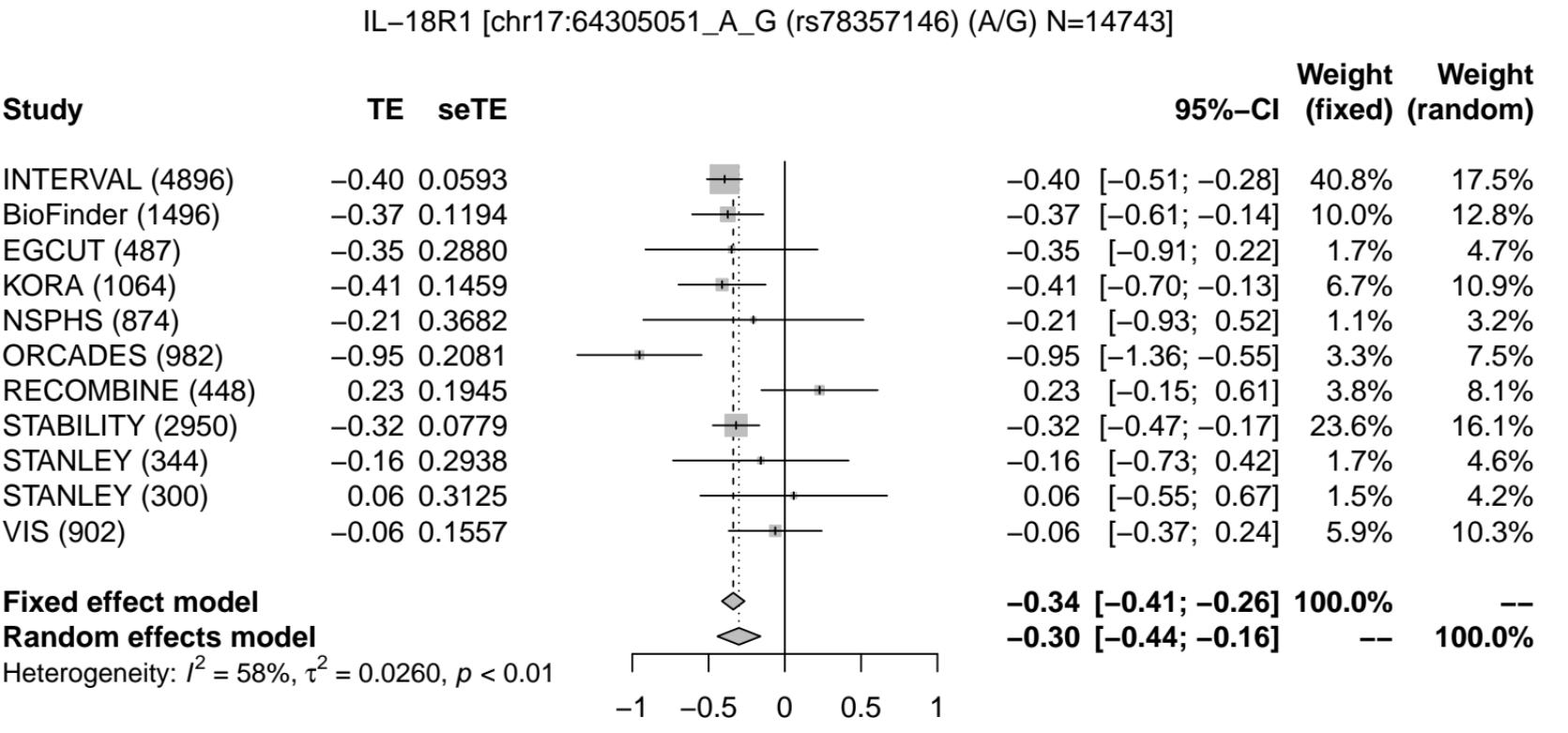
Heterogeneity:  $I^2 = 86\%$ ,  $\tau^2 = 0.0106$ ,  $p < 0.01$

		Weight (fixed)	Weight (random)
	95%-CI		
	-0.07 [-0.11; -0.03]	33.0%	12.0%
	-0.21 [-0.28; -0.13]	10.7%	11.1%
	-0.35 [-0.48; -0.23]	3.6%	9.0%
	-0.33 [-0.42; -0.24]	7.2%	10.4%
	-0.28 [-0.38; -0.18]	5.6%	10.0%
	-0.34 [-0.43; -0.25]	6.9%	10.4%
	-0.19 [-0.24; -0.14]	22.3%	11.8%
	-0.18 [-0.36; -0.01]	1.9%	7.2%
	-0.08 [-0.23; 0.07]	2.5%	8.0%
	-0.27 [-0.36; -0.17]	6.2%	10.2%
	<b>-0.19 [-0.21; -0.16]</b>	<b>100.0%</b>	--
	<b>-0.23 [-0.30; -0.16]</b>	--	<b>100.0%</b>

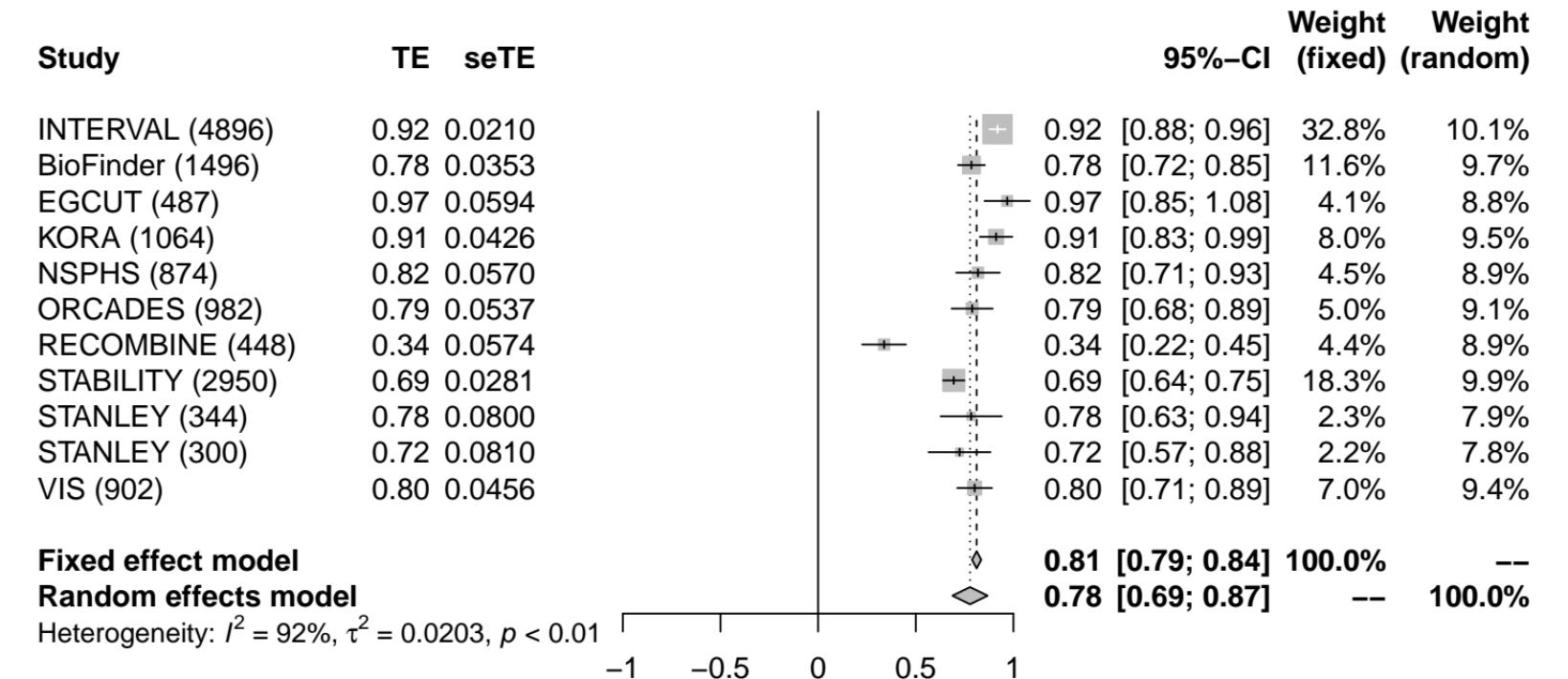
### IL-18 (IL18)-rs385076



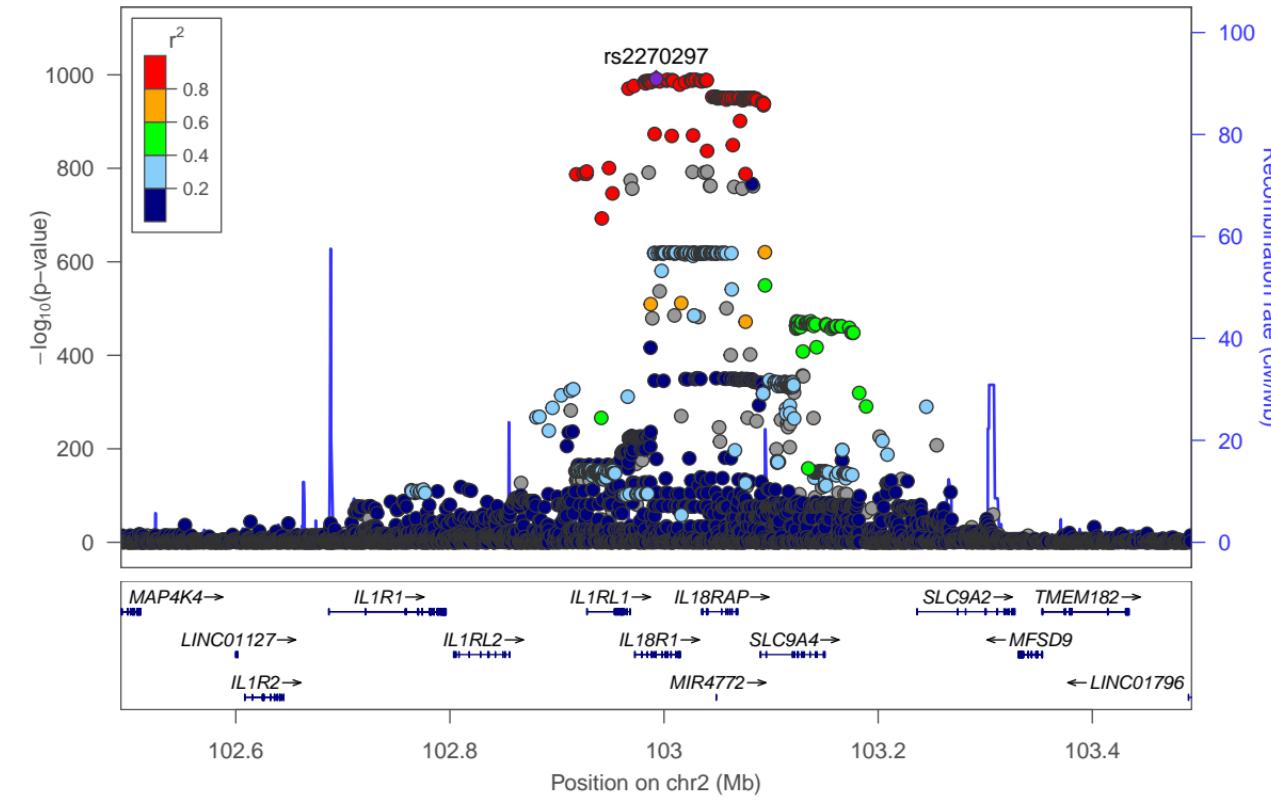
## IL-18R1 (IL18R1)-rs78357146



IL-18R1 [chr2:102992675\_C\_T (rs2270297) (T/C) N=14743]



IL-18R1 (IL18R1)-rs2270297



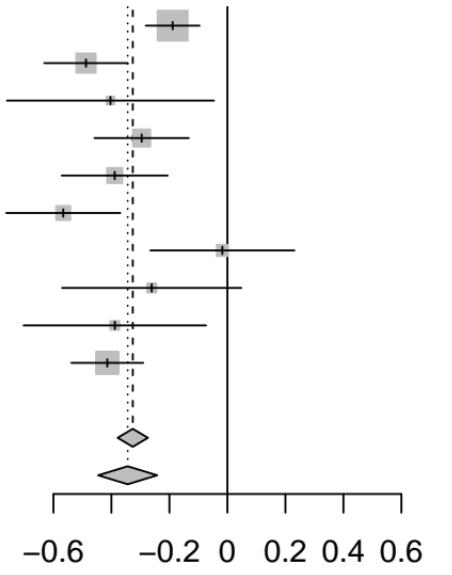
### IL-1 alpha [chr6:32586222\_A\_G (rs11759846) (A/G) N=11788]

#### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (980)  
RECOMBINE (448)  
STANLEY (344)  
STANLEY (300)  
VIS (899)

TE seTE

-0.19 0.0474  
-0.49 0.0735  
-0.40 0.1822  
-0.30 0.0831  
-0.39 0.0933  
-0.57 0.1005  
-0.02 0.1267  
-0.26 0.1577  
-0.39 0.1605  
-0.41 0.0633



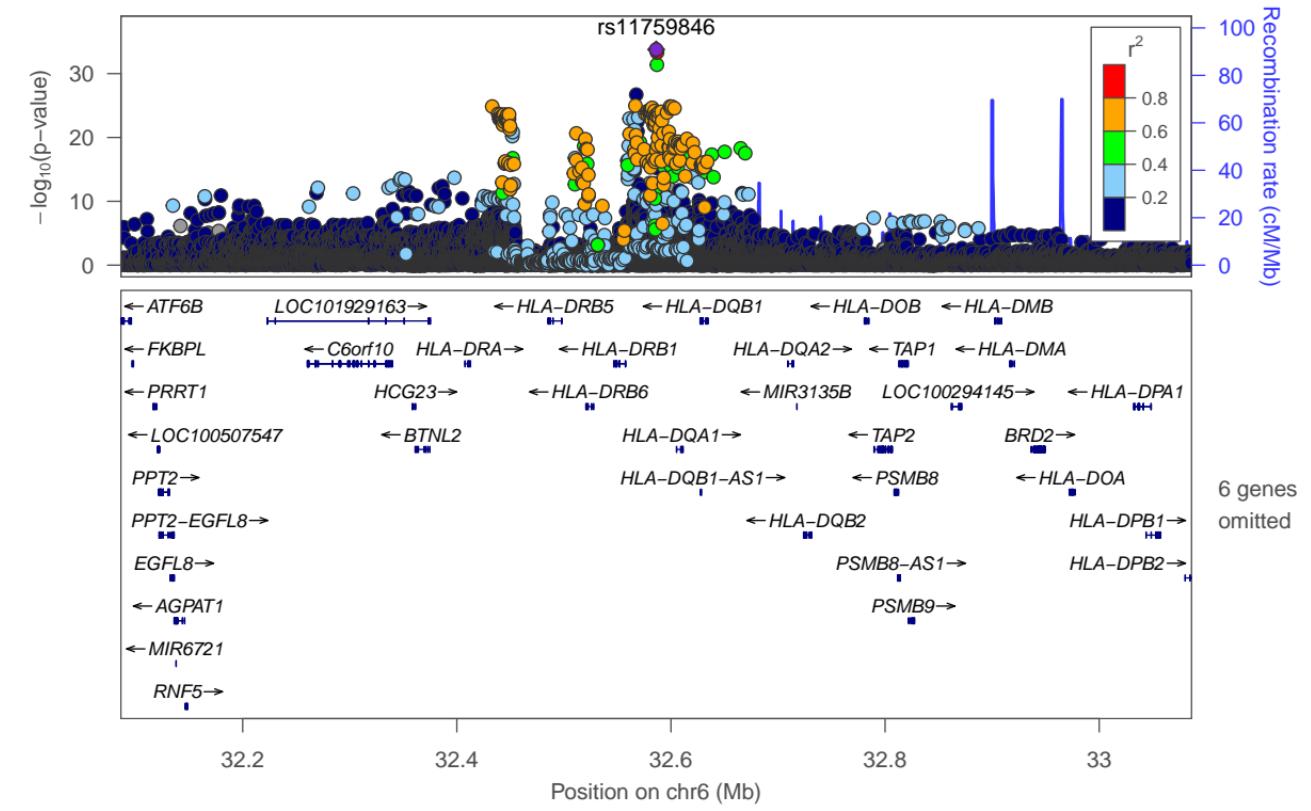
	95%-CI	Weight (fixed)	Weight (random)
	-0.19 [-0.28; -0.10]	31.5%	14.6%
	-0.49 [-0.63; -0.34]	13.1%	12.5%
	-0.40 [-0.76; -0.05]	2.1%	5.5%
	-0.30 [-0.46; -0.13]	10.3%	11.7%
	-0.39 [-0.57; -0.21]	8.1%	10.8%
	-0.57 [-0.76; -0.37]	7.0%	10.3%
	-0.02 [-0.27; 0.23]	4.4%	8.4%
	-0.26 [-0.57; 0.05]	2.9%	6.6%
	-0.39 [-0.70; -0.07]	2.8%	6.4%
	-0.41 [-0.54; -0.29]	17.7%	13.3%
	<b>-0.33 [-0.38; -0.27]</b>	<b>100.0%</b>	--
	<b>-0.34 [-0.45; -0.24]</b>	--	<b>100.0%</b>

Fixed effect model

Random effects model

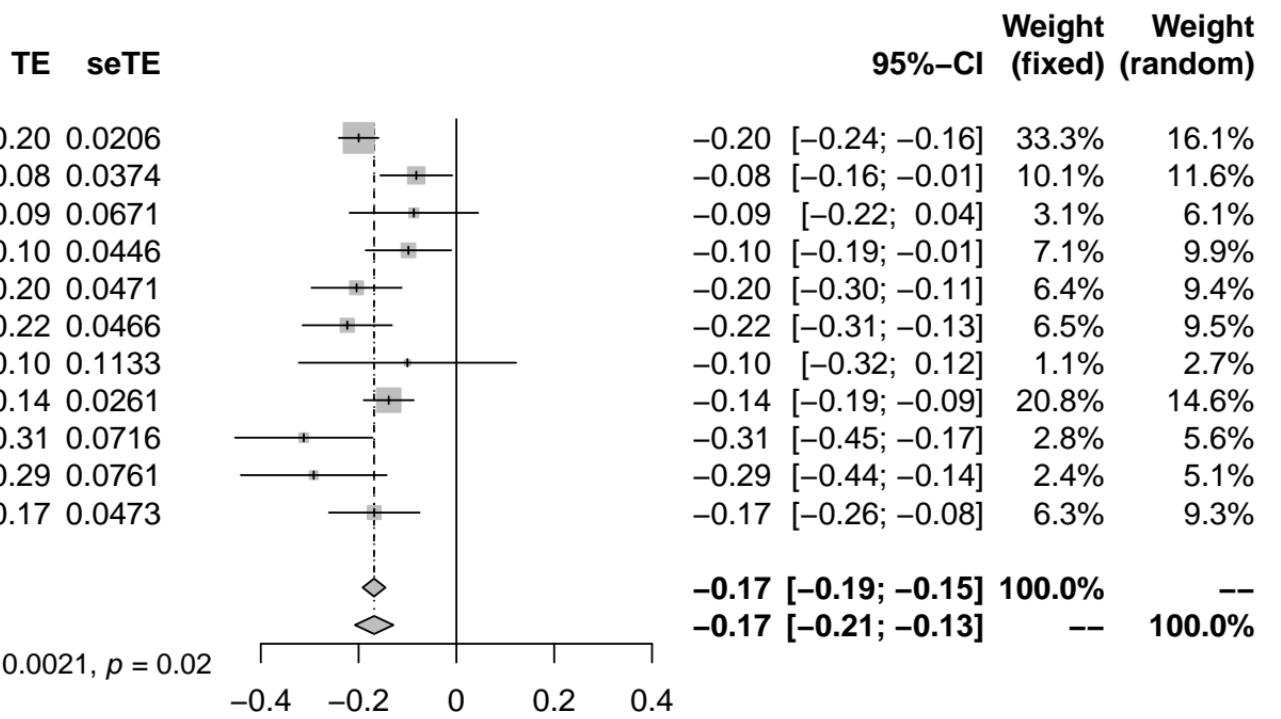
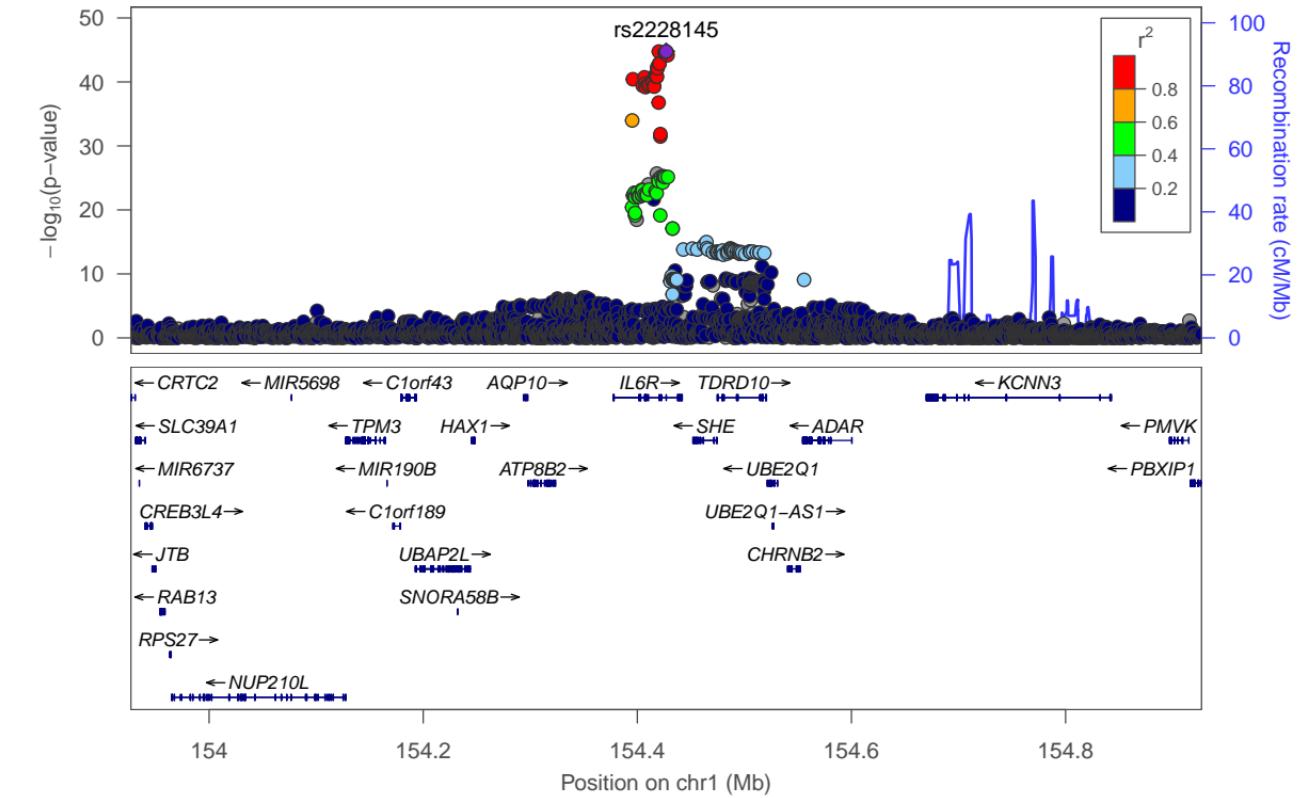
Heterogeneity:  $I^2 = 68\%$ ,  $\tau^2 = 0.0162$ ,  $p < 0.01$

### IL-1 (alpha)-rs11759846



**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (982)  
RECOMBINE (448)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

**IL-6 [chr1:154426970\_A\_C (rs2228145) (A/C) N=14743]****IL-6 (IL6)-rs2228145**

IL-7 [chr8:79713766\_A\_G (rs112359206) (A/G) N=10894]

**Study**

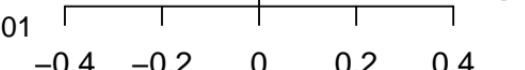
Study	TE	seTE
INTERVAL (4896)	0.22	0.0337
BioFinder (1496)	0.11	0.0627
EGCUT (487)	0.27	0.0971
KORA (1064)	0.28	0.0737
STABILITY (2951)	0.06	0.0427

TE seTE

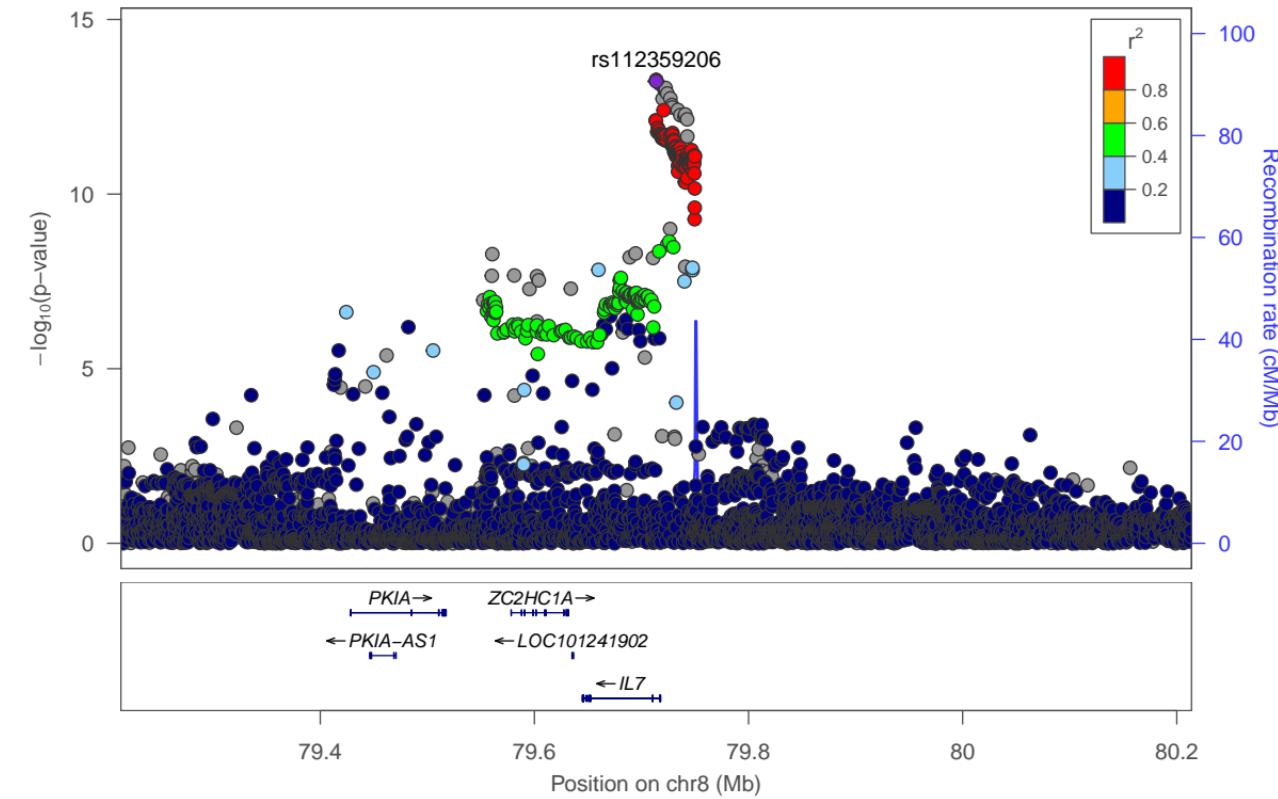
95%-CI Weight  
Weight  
(fixed) (random)

	95%-CI	Weight (fixed)	Weight (random)
INTERVAL (4896)	0.22 [ 0.15; 0.29]	44.5%	26.4%
BioFinder (1496)	0.11 [-0.02; 0.23]	12.9%	19.5%
EGCUT (487)	0.27 [ 0.08; 0.46]	5.4%	12.8%
KORA (1064)	0.28 [ 0.14; 0.43]	9.3%	17.1%
STABILITY (2951)	0.06 [-0.02; 0.14]	27.8%	24.3%
<b>Fixed effect model</b>	<b>0.17 [ 0.13; 0.21]</b>	<b>100.0%</b>	--
<b>Random effects model</b>	<b>0.18 [ 0.09; 0.26]</b>	--	<b>100.0%</b>

Heterogeneity:  $I^2 = 70\%$ ,  $\tau^2 = 0.0067$ ,  $p = 0.01$



IL-7 (IL7)-rs112359206

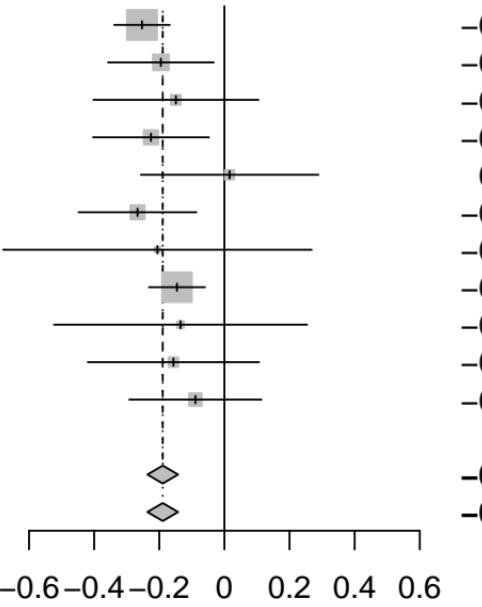


**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (982)  
RECOMBINE (433)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

**TE seTE**

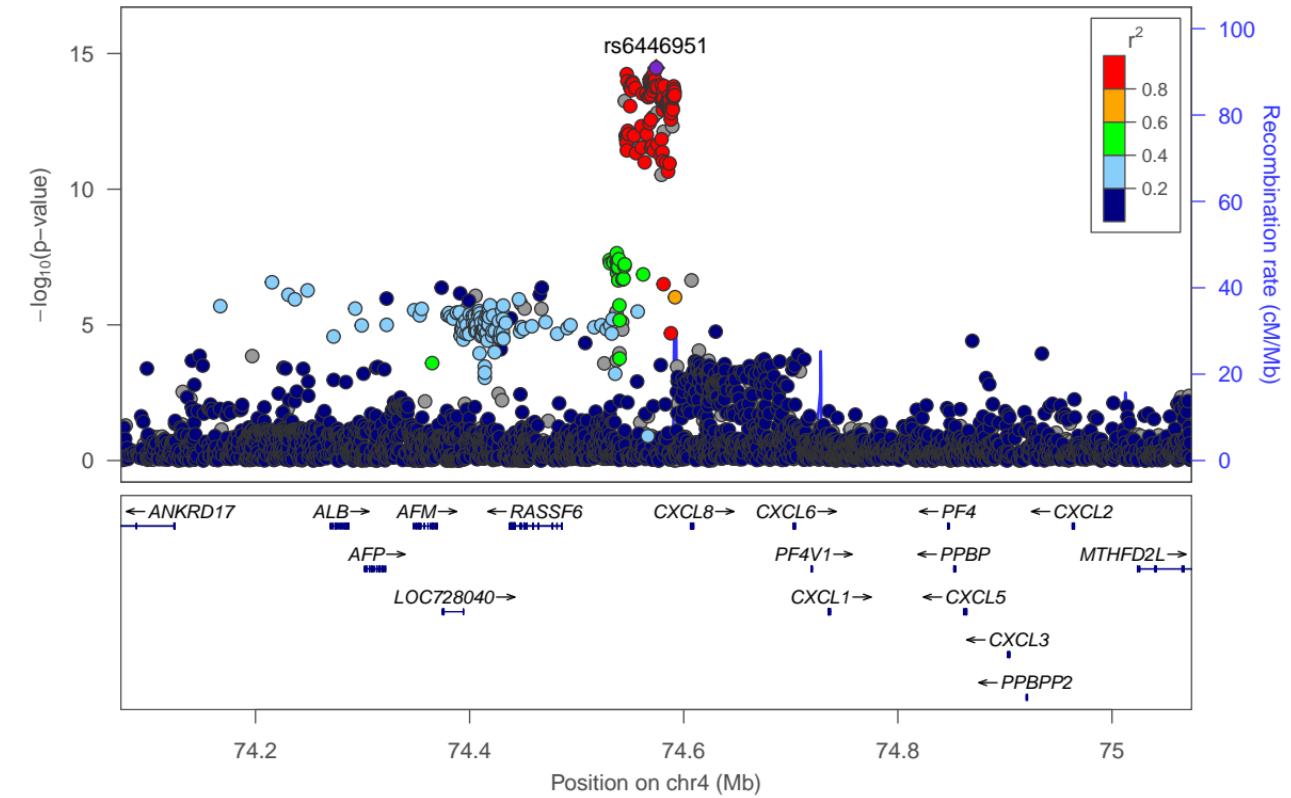
-0.25 0.0436  
-0.20 0.0829  
-0.15 0.1295  
-0.23 0.0909  
0.02 0.1391  
-0.27 0.0923  
-0.21 0.2418  
-0.15 0.0440  
-0.13 0.1984  
-0.16 0.1343  
-0.09 0.1036

**IL-8 [chr4:74574265\_A\_G (rs6446951) (A/G) N=14729]**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.69$

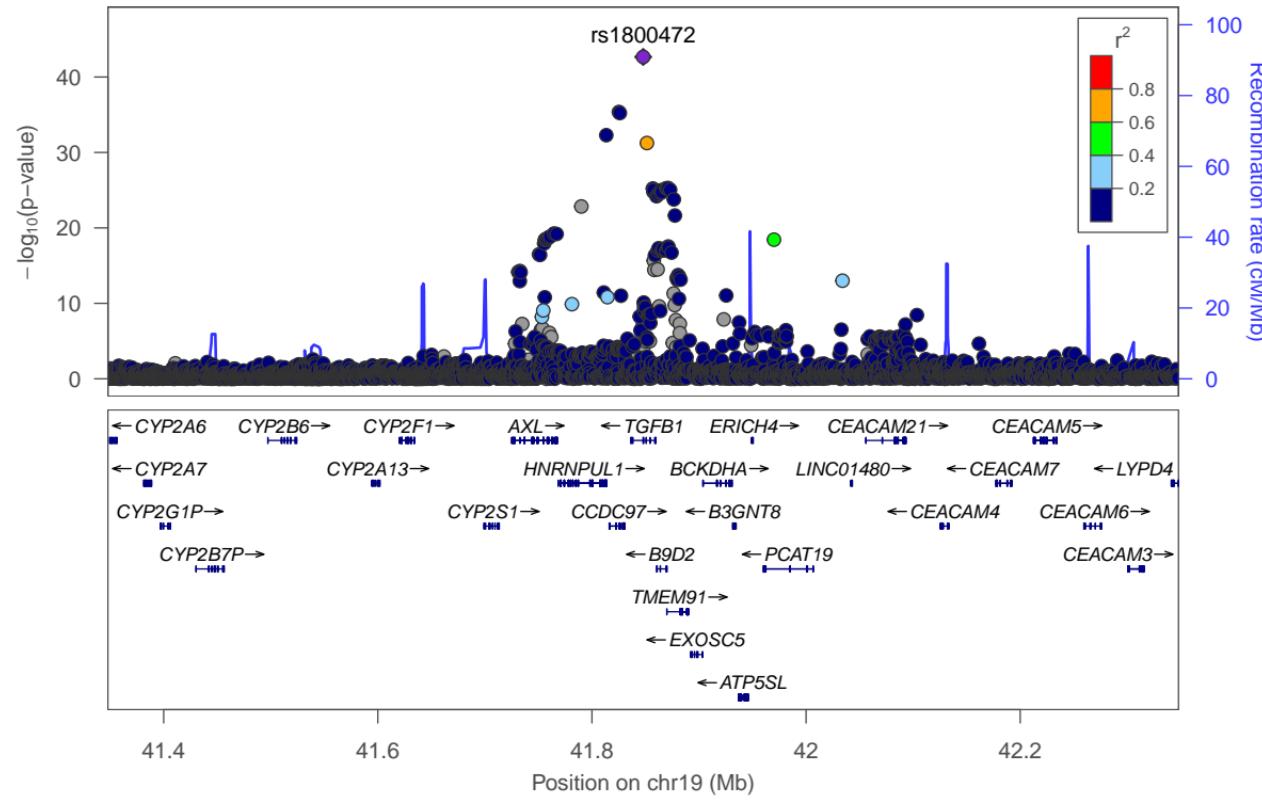
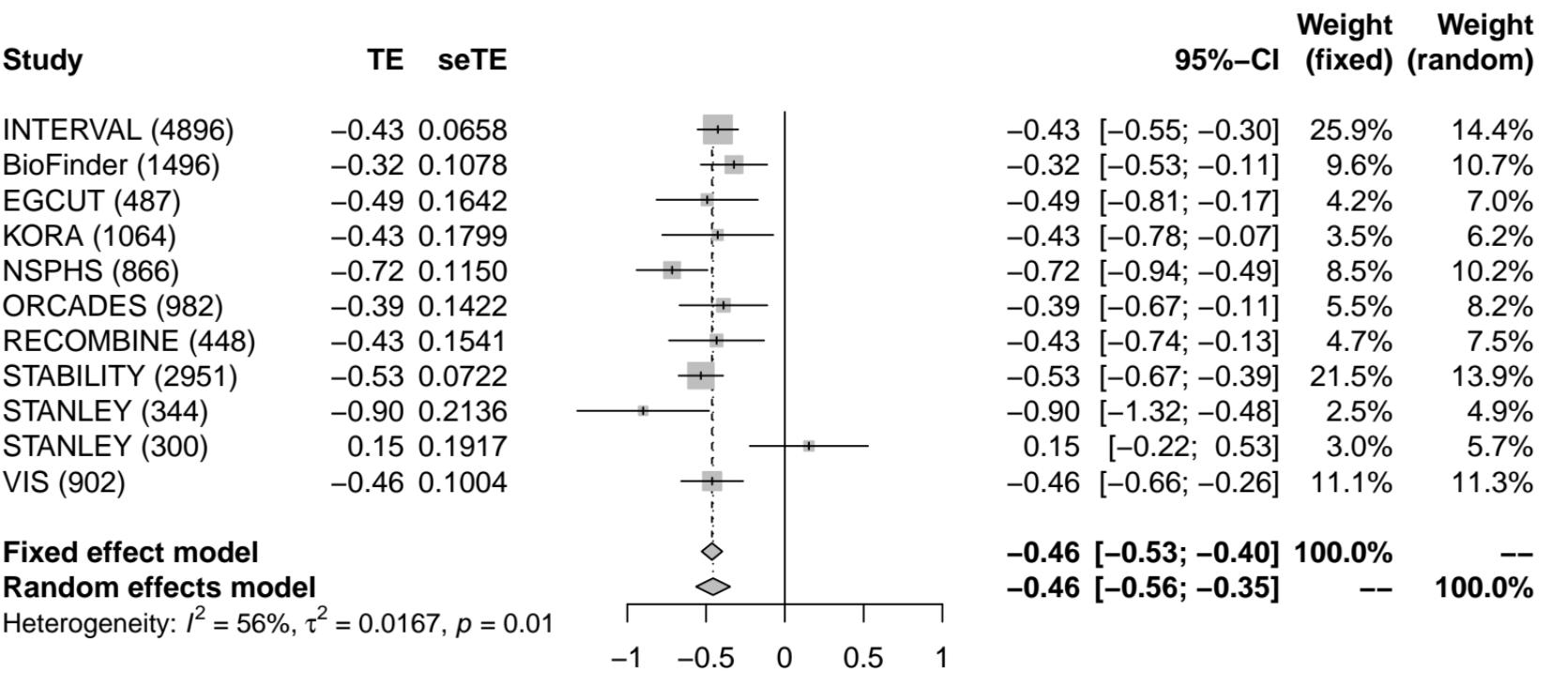
**95%-CI**    **Weight (fixed)**    **Weight (random)**

-0.25 [-0.34; -0.17] 30.4% 30.4%  
-0.20 [-0.36; -0.03] 8.4% 8.4%  
-0.15 [-0.40; 0.10] 3.4% 3.4%  
-0.23 [-0.40; -0.05] 7.0% 7.0%  
0.02 [-0.26; 0.29] 3.0% 3.0%  
-0.27 [-0.45; -0.09] 6.8% 6.8%  
-0.21 [-0.68; 0.27] 1.0% 1.0%  
-0.15 [-0.23; -0.06] 29.9% 29.9%  
-0.13 [-0.52; 0.25] 1.5% 1.5%  
-0.16 [-0.42; 0.11] 3.2% 3.2%  
-0.09 [-0.29; 0.11] 5.4% 5.4%

**IL-8 (IL8)-rs6446951**

## LAP (TGF-beta-1)-rs1800472

LAP TGF-beta-1 [chr19:41847860\_A\_G (rs1800472) (A/G) N=14736]



**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (448)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

LIF-R [chr9:136155000\_C\_T (rs635634) (T/C) N=11784]

**TE seTE**

-0.36 0.0262  
-0.35 0.0449  
-0.53 0.0807  
-0.33 0.0526  
-0.23 0.0680  
-0.32 0.0577  
-0.10 0.0363  
-0.39 0.0971  
-0.09 0.0907  
-0.21 0.0582

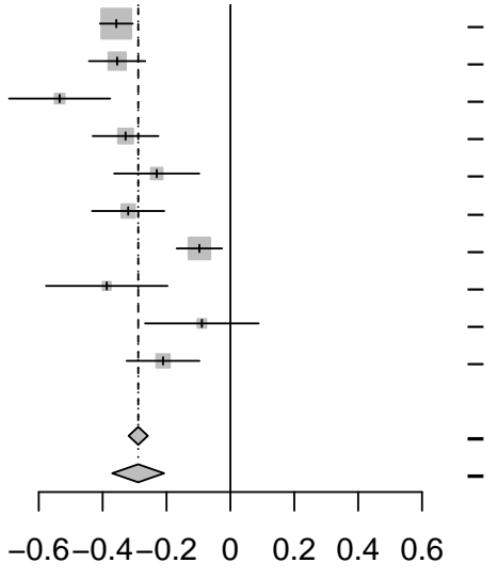
**Weight  
95%-CI  
(fixed) (random)**

-0.36 [-0.41; -0.31] 34.1% 12.2%  
-0.35 [-0.44; -0.27] 11.6% 11.2%  
-0.53 [-0.69; -0.38] 3.6% 8.6%  
-0.33 [-0.43; -0.23] 8.5% 10.7%  
-0.23 [-0.36; -0.10] 5.1% 9.5%  
-0.32 [-0.43; -0.21] 7.0% 10.3%  
-0.10 [-0.17; -0.03] 17.8% 11.7%  
-0.39 [-0.58; -0.20] 2.5% 7.5%  
-0.09 [-0.27; 0.09] 2.9% 8.0%  
-0.21 [-0.32; -0.10] 6.9% 10.3%

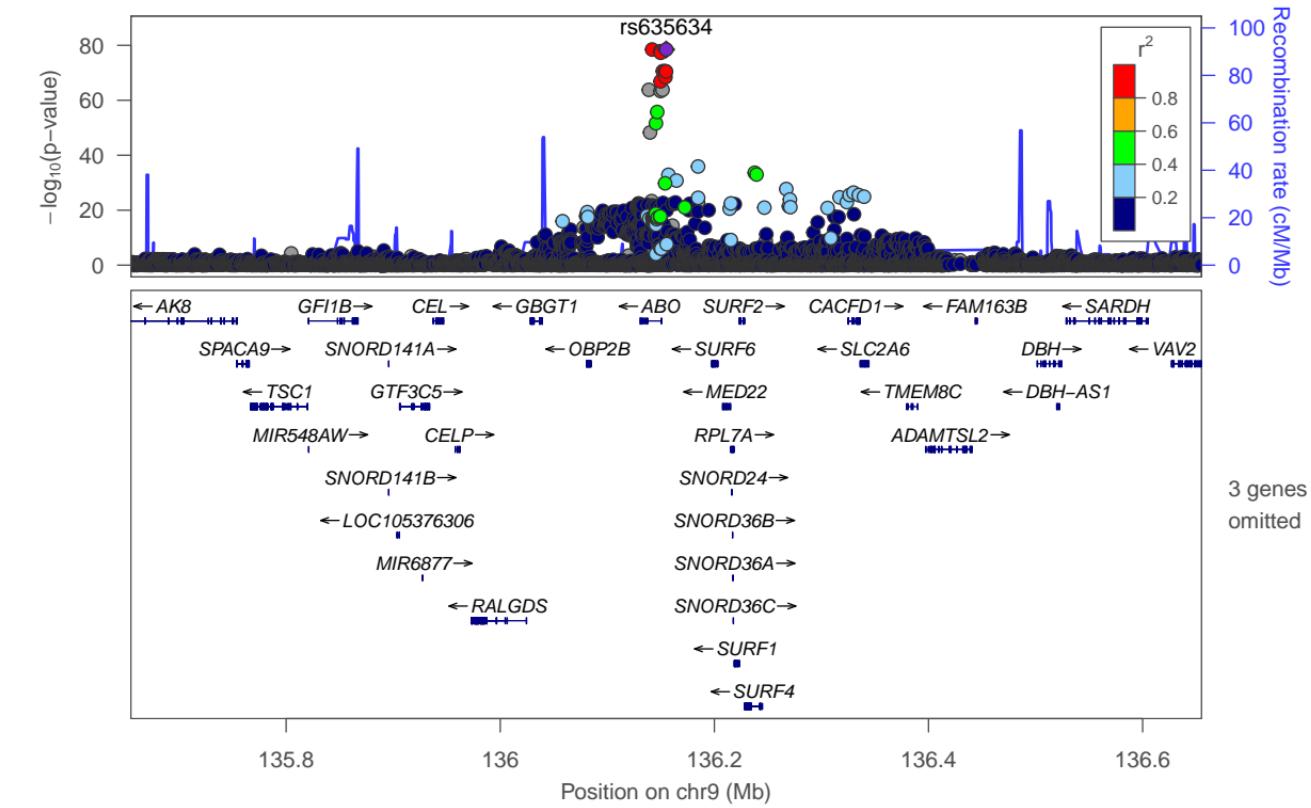
**-0.29 [-0.32; -0.26] 100.0%**  
**-0.29 [-0.37; -0.21] -- 100.0%**

**Fixed effect model**  
**Random effects model**

Heterogeneity:  $I^2 = 84\%$ ,  $\tau^2 = 0.0133$ ,  $p < 0.01$



LIF-R (LIFR)-rs635634



MCP-1 [chr1:159175354\_A\_G (rs12075) (A/G) N=14730]

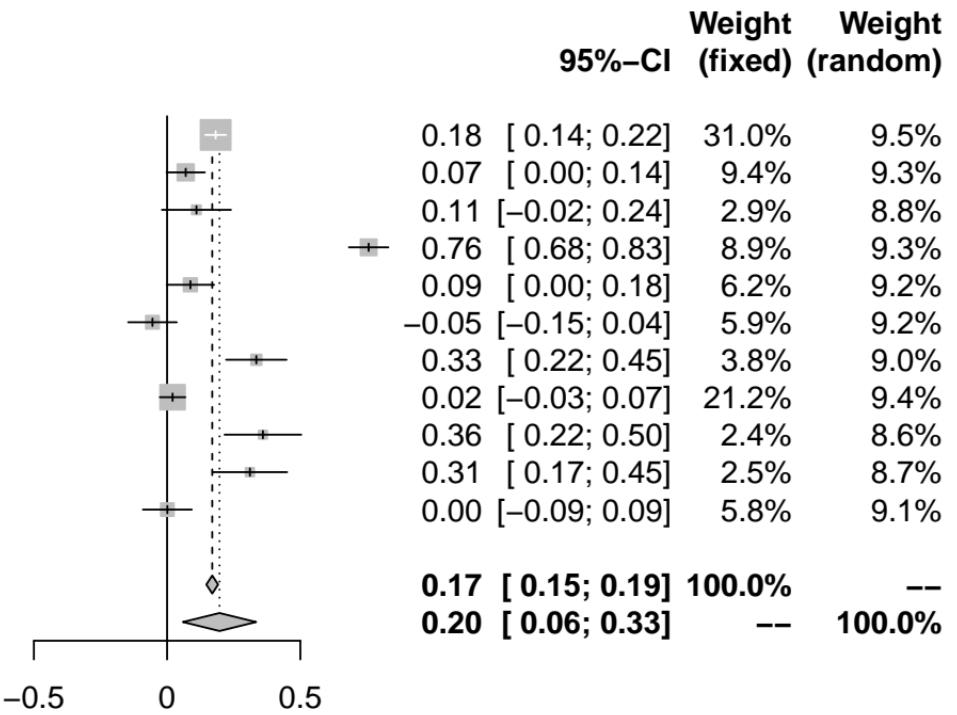
**Study**

	TE	seTE
INTERVAL (4896)	0.18	0.0203
BioFinder (1496)	0.07	0.0368
EGCUT (487)	0.11	0.0662
KORA (1064)	0.76	0.0378
NSPHS (866)	0.09	0.0455
ORCADES (981)	-0.05	0.0466
RECOMBINE (445)	0.33	0.0579
STABILITY (2951)	0.02	0.0246
STANLEY (344)	0.36	0.0735
STANLEY (300)	0.31	0.0713
VIS (900)	0.00	0.0469

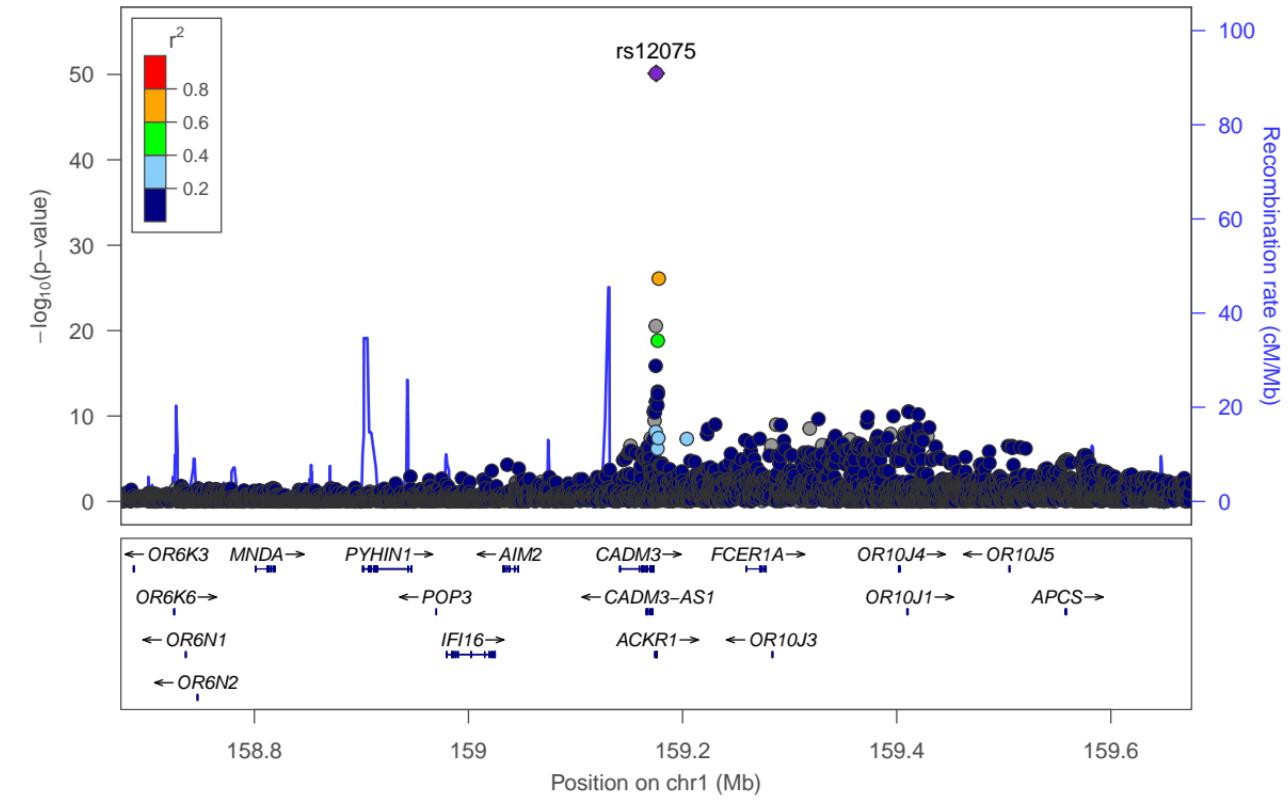
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 97\%$ ,  $\tau^2 = 0.0515$ ,  $p < 0.01$



# MCP-1 (CCL2)-rs12075

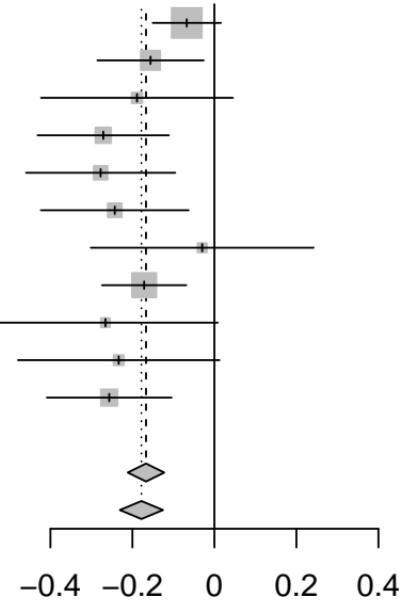


**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (447)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (900)

TE seTE

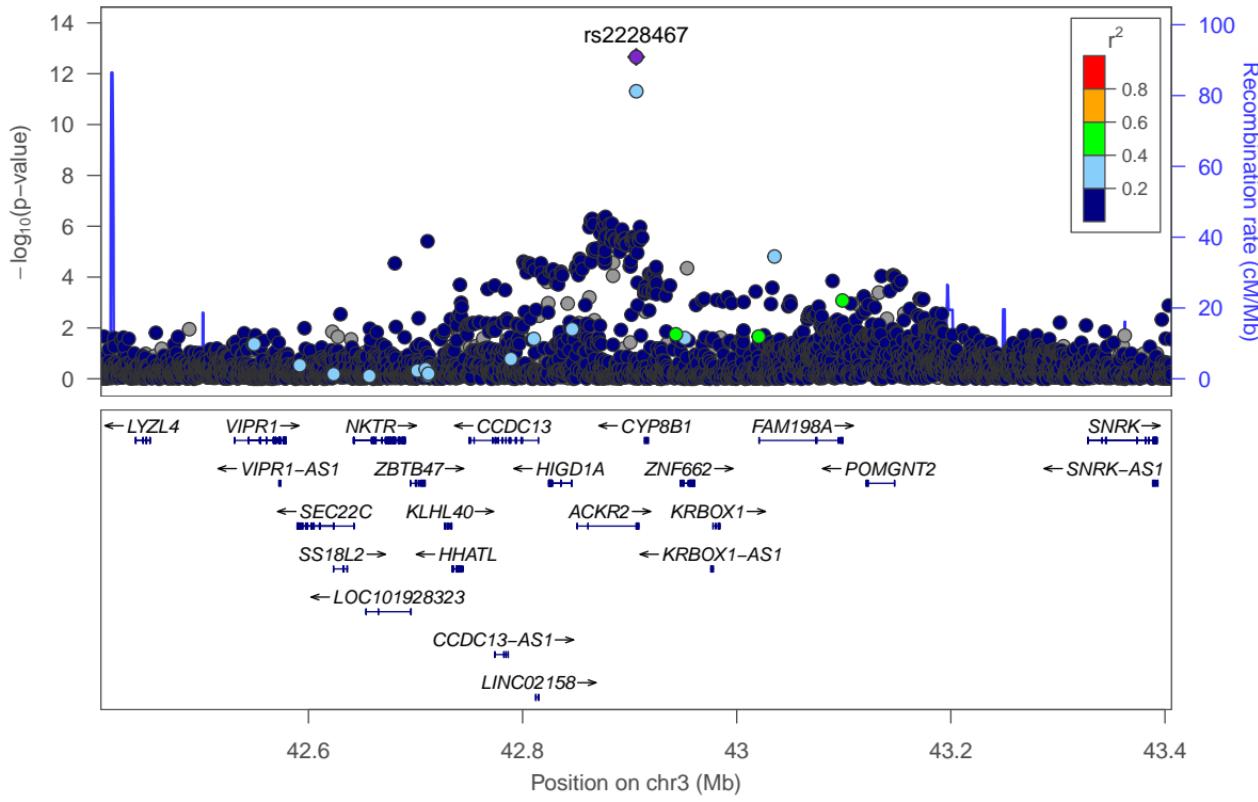
-0.07	0.0424
-0.16	0.0662
-0.19	0.1194
-0.27	0.0817
-0.28	0.0928
-0.24	0.0919
-0.03	0.1386
-0.17	0.0524
-0.27	0.1398
-0.23	0.1254
-0.26	0.0777

**MCP-1 [chr3:42906116\_C\_T (rs2228467) (T/C) N=14732]****Fixed effect model****Random effects model**

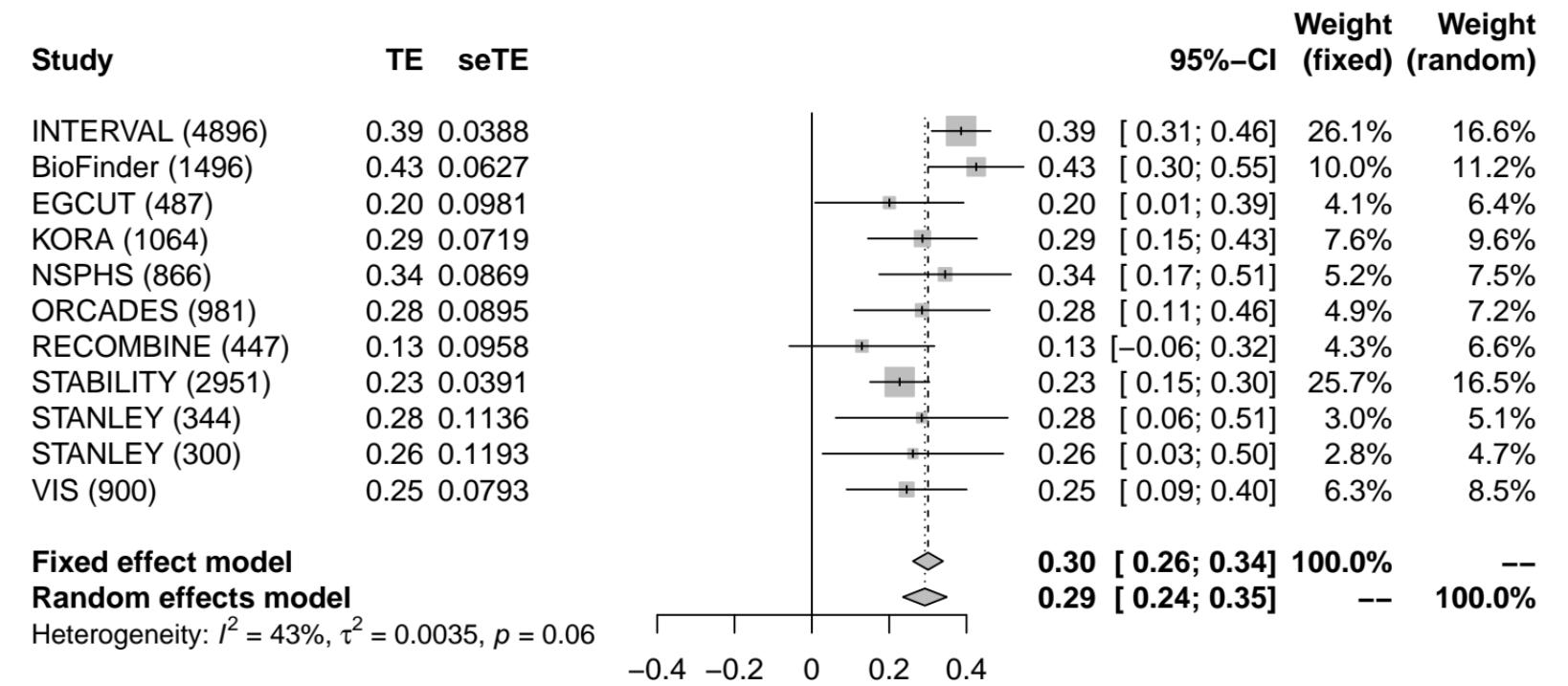
Heterogeneity:  $I^2 = 19\%$ ,  $\tau^2 = 0.0015$ ,  $p = 0.26$

95%-CI Weight (fixed) Weight (random)

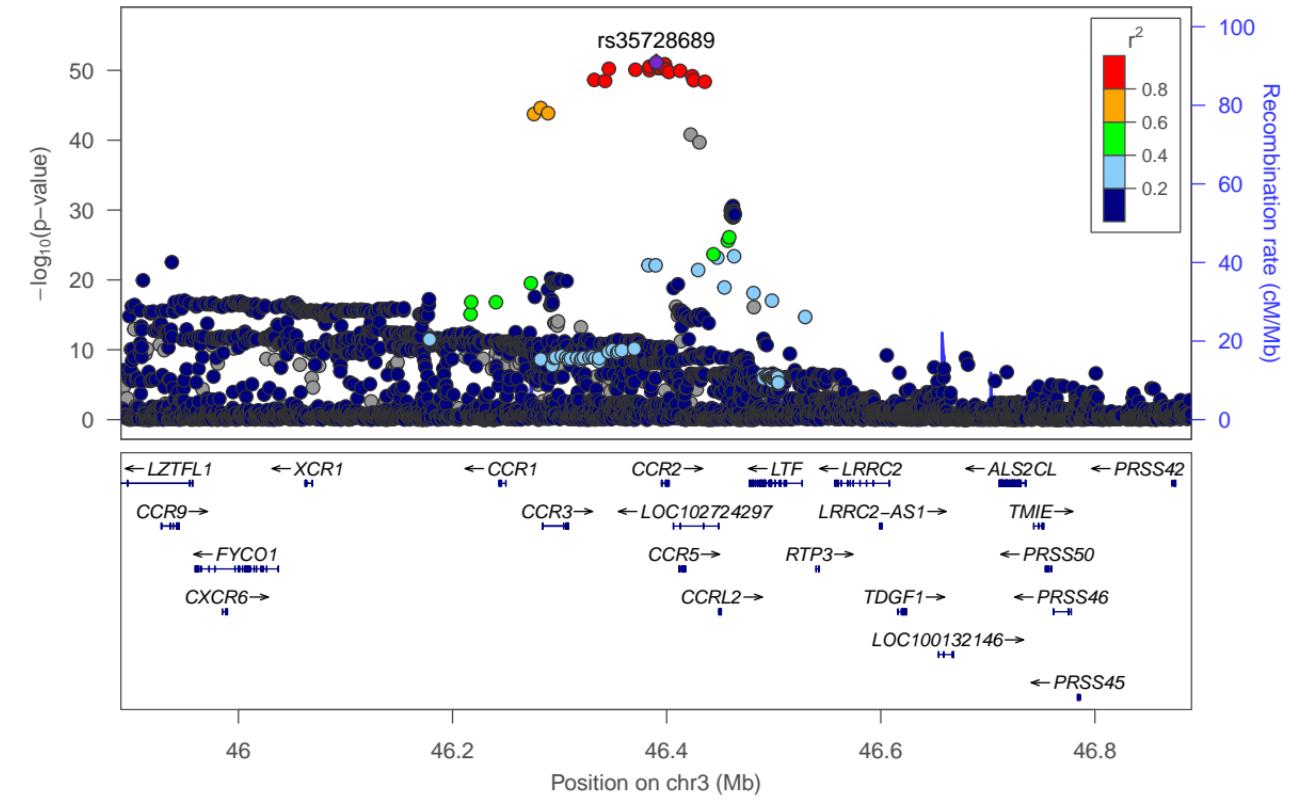
-0.17 [-0.21; -0.12]	100.0%	--
-0.18 [-0.23; -0.13]	--	100.0%

**MCP-1 (CCL2)-rs2228467**

MCP-1 [chr3:46390228\_A\_G (rs35728689) (A/G) N=14732]



MCP-1 (CCL2)-rs35728689



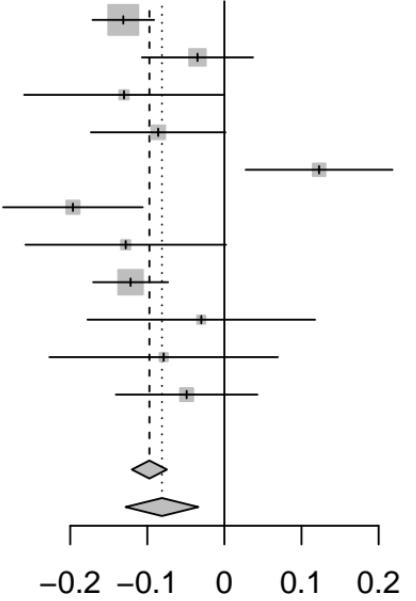
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (445)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

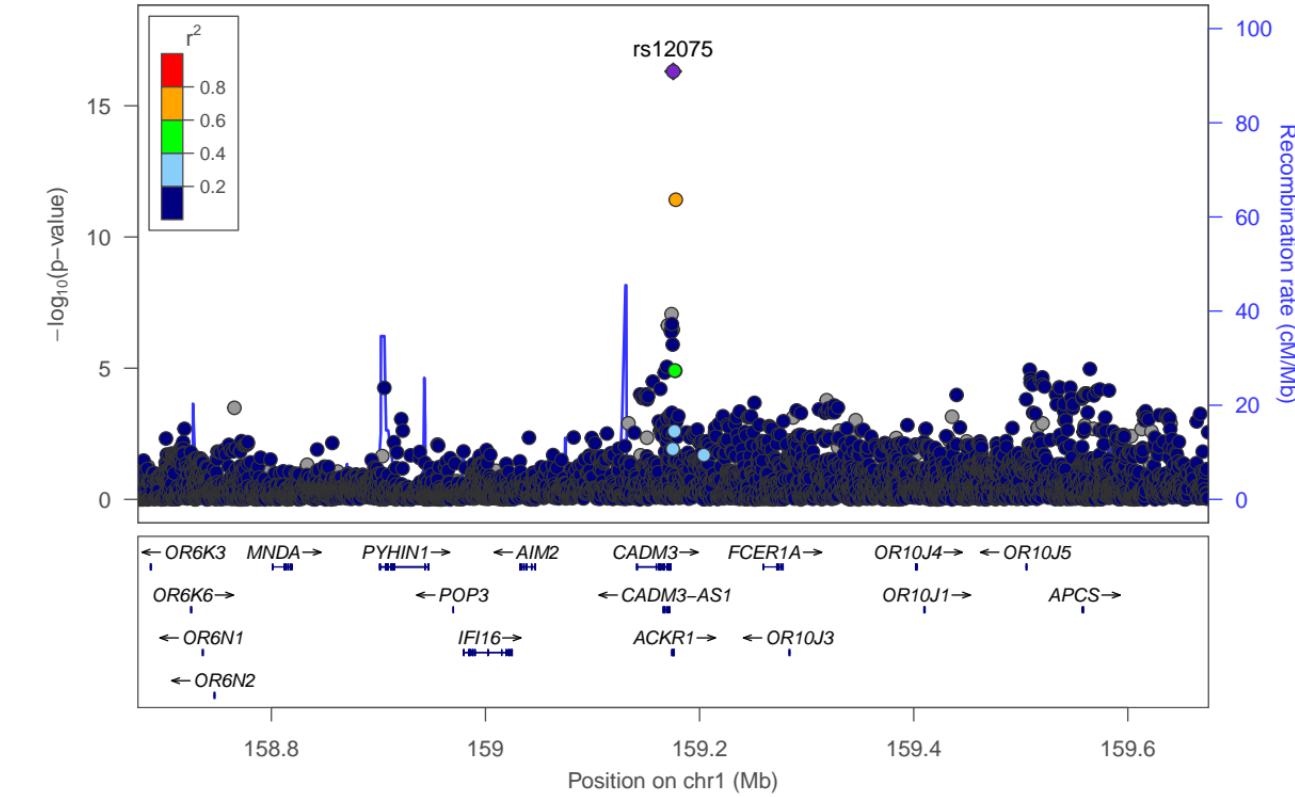
**TE seTE**

-0.13 0.0204  
-0.03 0.0368  
-0.13 0.0661  
-0.09 0.0446  
0.12 0.0486  
-0.20 0.0462  
-0.13 0.0664  
-0.12 0.0248  
-0.03 0.0753  
-0.08 0.0756  
-0.05 0.0468

MCP-2 [chr1:159175354\_A\_G (rs12075) (A/G) N=14733]

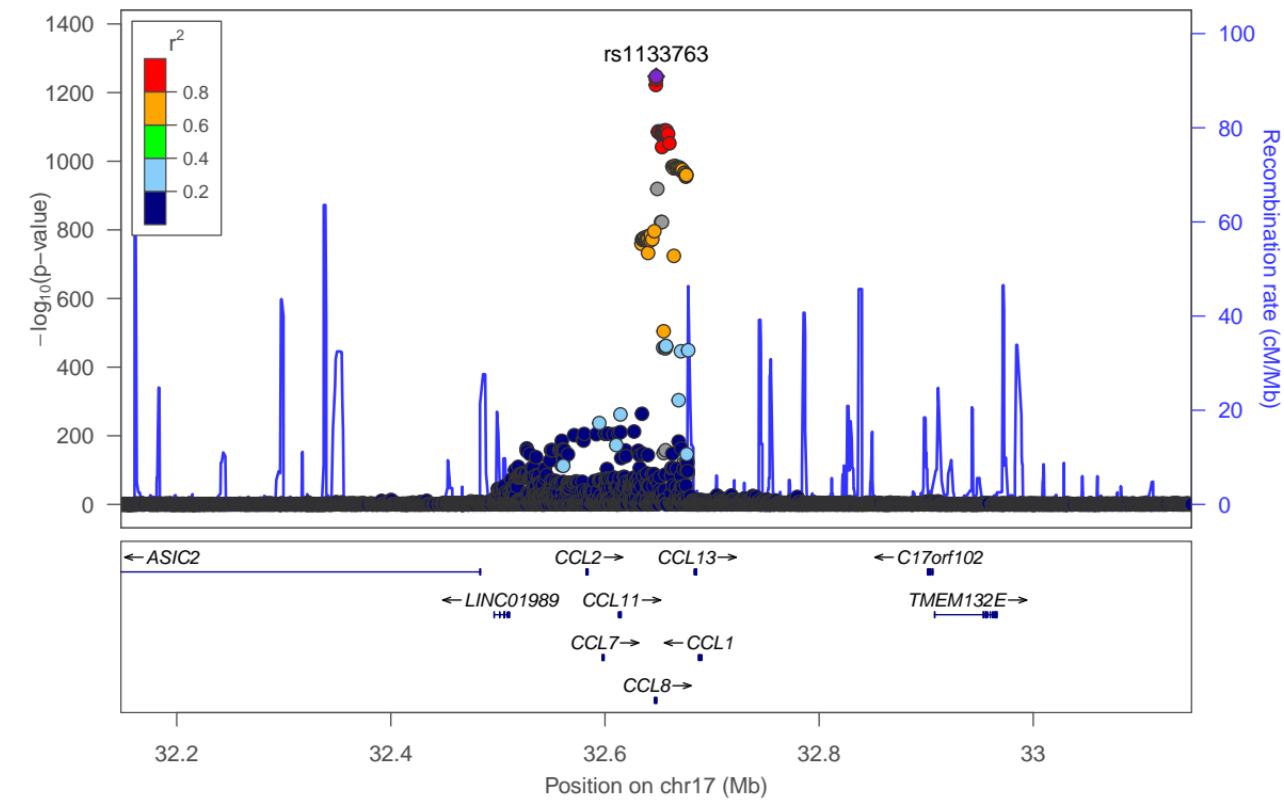
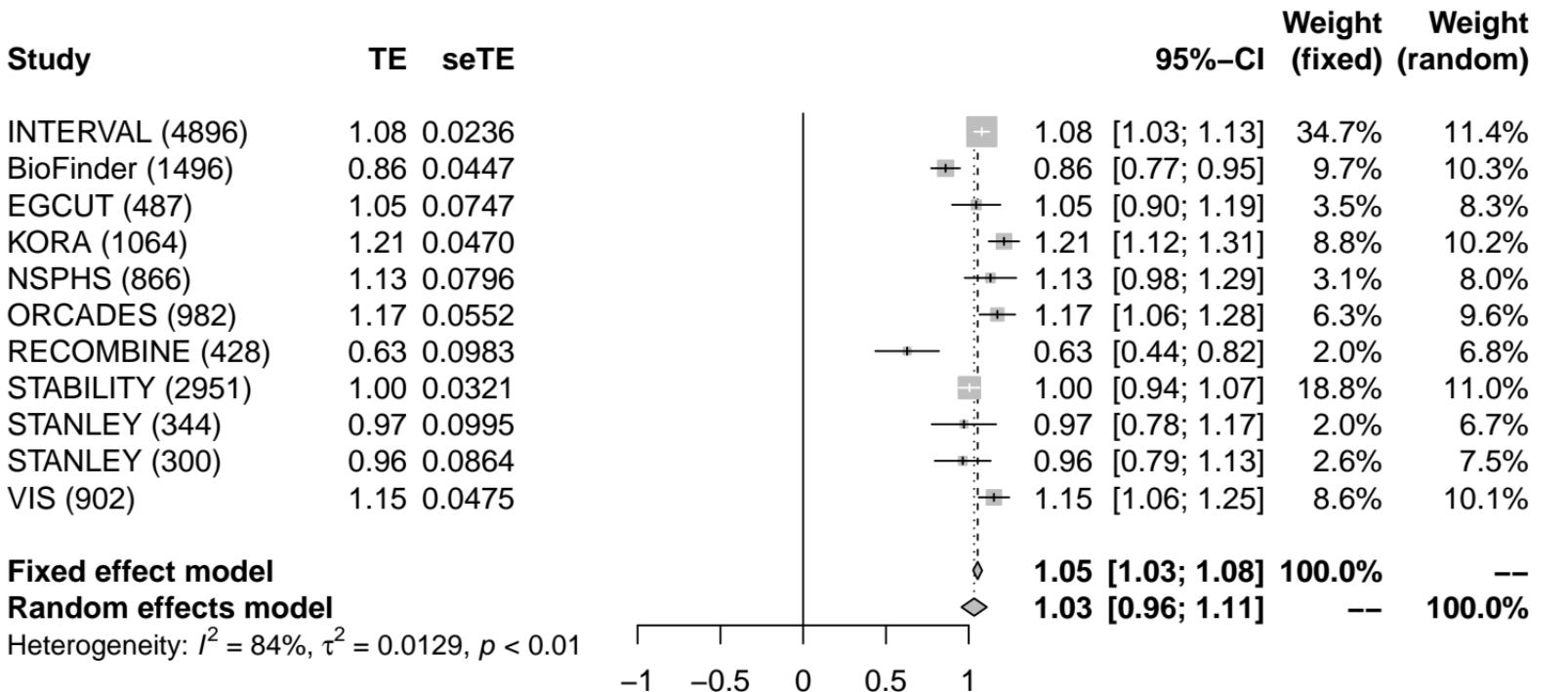
**Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 71\%$ ,  $\tau^2 = 0.0040$ ,  $p < 0.01$ **Weight (fixed) Weight (random)**

	95%-CI	Weight (fixed)	Weight (random)
-0.13 [-0.17; -0.09]	32.4%	13.2%	
-0.03 [-0.11; 0.04]	9.9%	10.8%	
-0.13 [-0.26; 0.00]	3.1%	6.9%	
-0.09 [-0.17; 0.00]	6.8%	9.7%	
0.12 [0.03; 0.22]	5.7%	9.1%	
-0.20 [-0.29; -0.11]	6.3%	9.5%	
-0.13 [-0.26; 0.00]	3.1%	6.9%	
-0.12 [-0.17; -0.07]	21.9%	12.6%	
-0.03 [-0.18; 0.12]	2.4%	6.0%	
-0.08 [-0.23; 0.07]	2.4%	6.0%	
-0.05 [-0.14; 0.04]	6.1%	9.4%	



## MCP-2 (CCL8)-rs1133763

MCP-2 [chr17:32647831\_A\_C (rs1133763) (A/C) N=14716]



MCP-3 [chr1:159175354\_A\_G (rs12075) (A/G) N=11780]

**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (445)  
STANLEY (344)  
STANLEY (300)  
VIS (900)

**TE**    **seTE**

-0.13 0.0204  
-0.11 0.0367  
-0.22 0.0656  
0.21 0.0436  
0.21 0.0429  
-0.31 0.0455  
0.10 0.0942  
-0.04 0.0694  
-0.15 0.0781  
-0.26 0.0461

**Weight**  
**95%-CI**

40.9% [-0.17; -0.09]  
12.6% [-0.19; -0.04]  
3.9% [-0.35; -0.09]  
8.9% [0.12; 0.29]  
9.2% [0.13; 0.30]  
8.2% [-0.40; -0.22]  
1.9% [-0.09; 0.28]  
3.5% [-0.18; 0.09]  
2.8% [-0.30; 0.01]  
8.0% [-0.35; -0.17]

**Weight**

(fixed)

10.9%

10.6%

9.7%

10.4%

10.4%

8.5%

9.5%

9.2%

10.3%

--

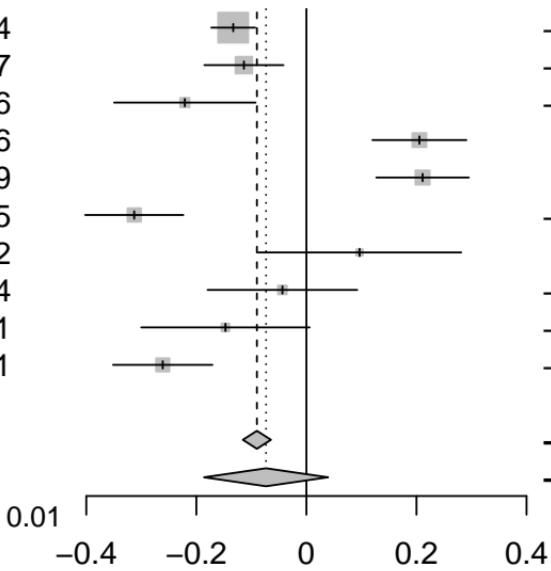
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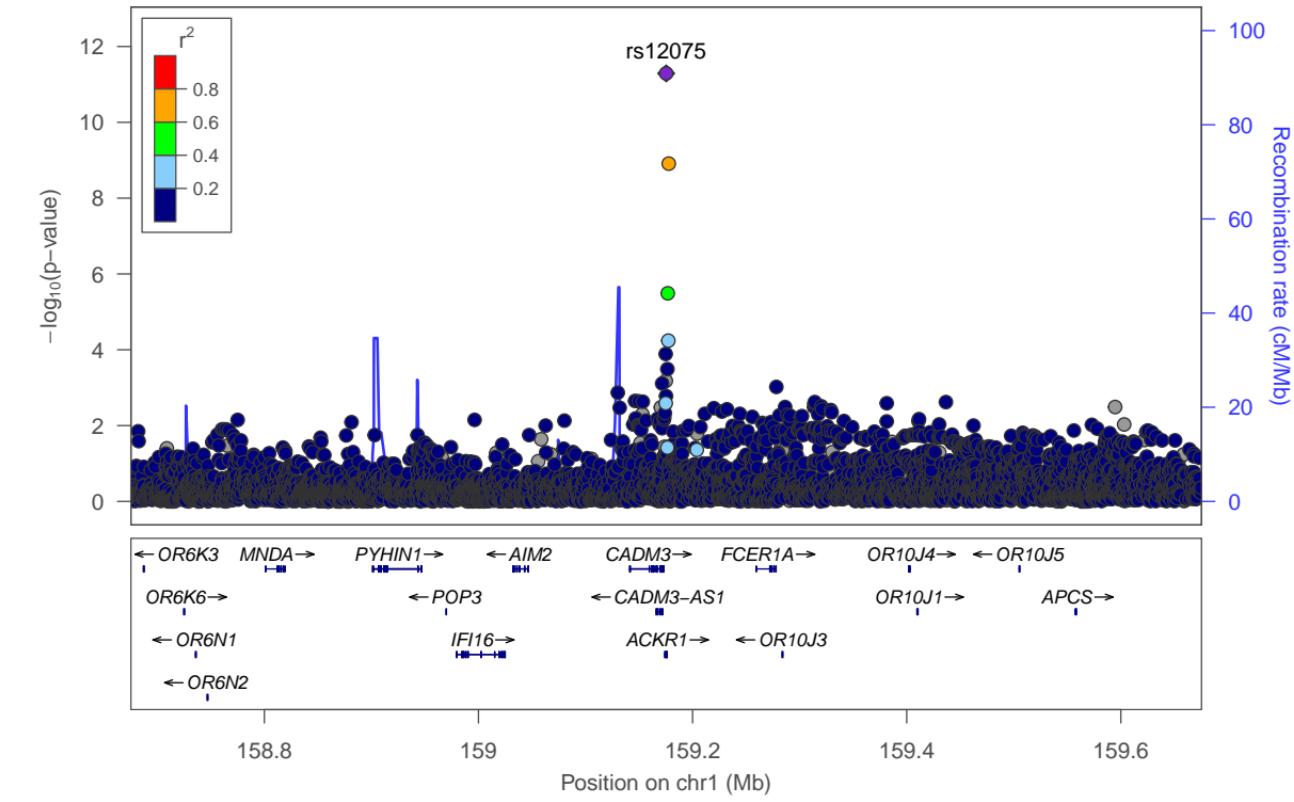
100.0%

**Fixed effect model**  
**Random effects model**

Heterogeneity:  $I^2 = 94\%$ ,  $\tau^2 = 0.0298$ ,  $p < 0.01$



MCP-3 (CCL7)-rs12075



## MCP-3 (CCL7)-rs7213460

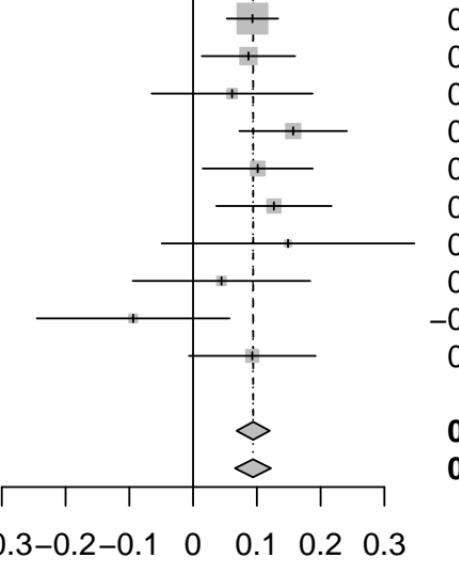
MCP-3 [chr17:32522613\_A\_G (rs7213460) (A/G) N=11780]

### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (445)  
STANLEY (344)  
STANLEY (300)  
VIS (900)

TE seTE

0.09 0.0205  
0.09 0.0373  
0.06 0.0644  
0.16 0.0430  
0.10 0.0440  
0.13 0.0461  
0.15 0.1011  
0.04 0.0710  
-0.09 0.0771  
0.09 0.0507



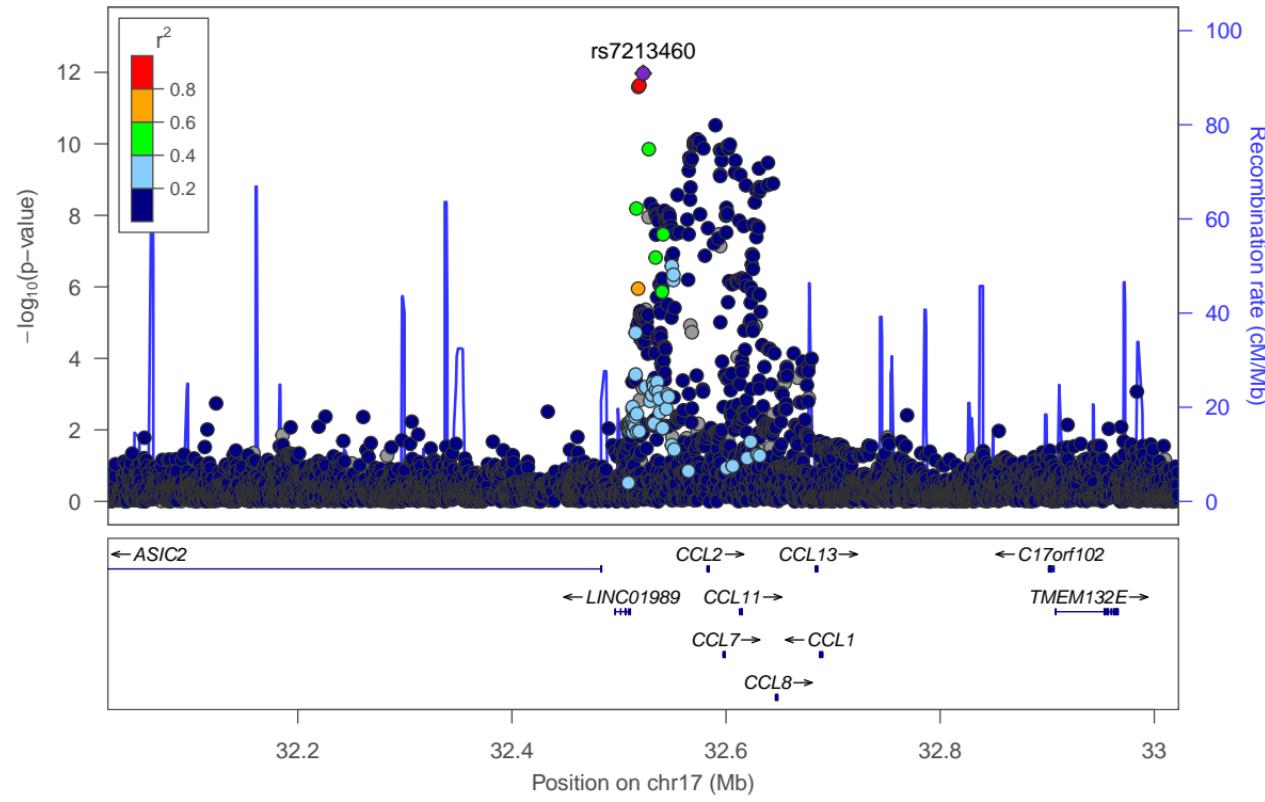
95%-CI Weight Weight  
(fixed) (random)

0.09 [ 0.05; 0.13]	41.6%	35.8%
0.09 [ 0.01; 0.16]	12.6%	13.3%
0.06 [-0.07; 0.19]	4.2%	4.8%
0.16 [ 0.07; 0.24]	9.5%	10.3%
0.10 [ 0.02; 0.19]	9.0%	9.9%
0.13 [ 0.04; 0.22]	8.2%	9.0%
0.15 [-0.05; 0.35]	1.7%	2.0%
0.04 [-0.09; 0.18]	3.5%	4.0%
-0.09 [-0.25; 0.06]	2.9%	3.4%
0.09 [-0.01; 0.19]	6.8%	7.6%

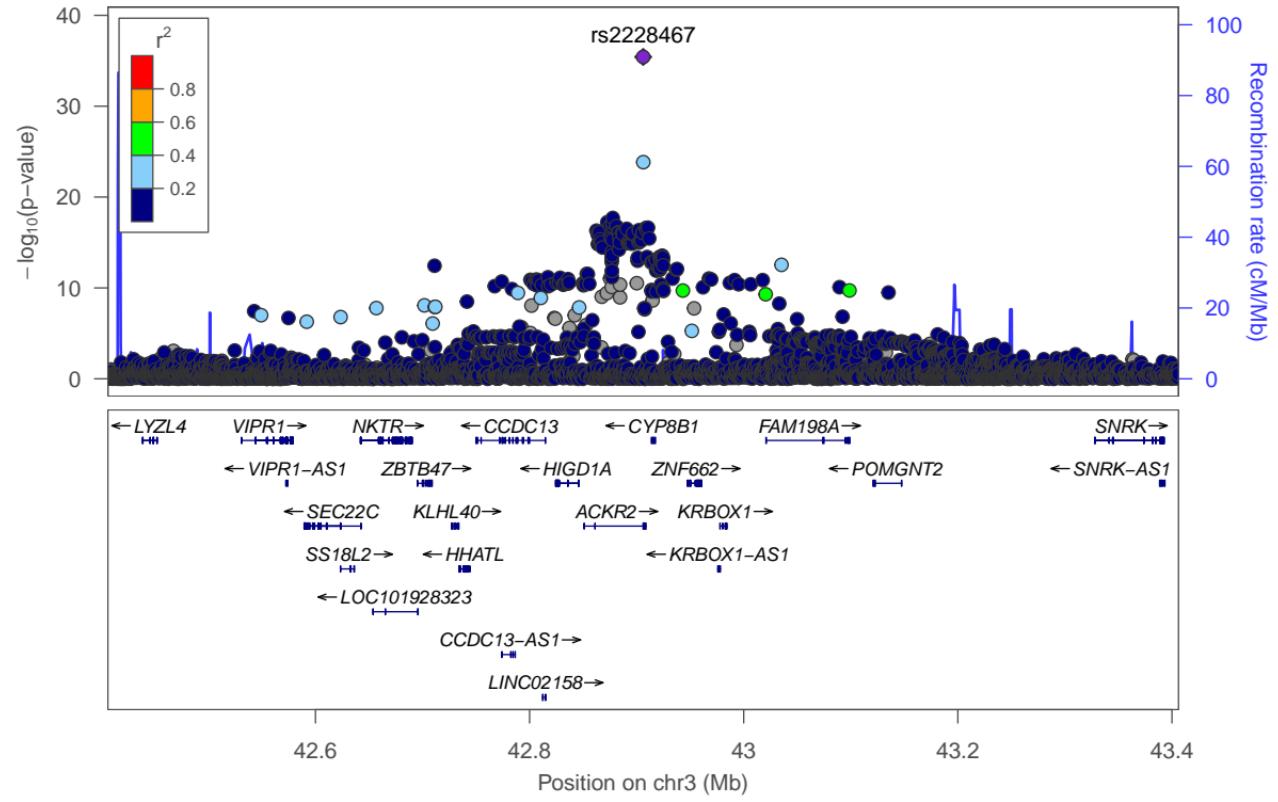
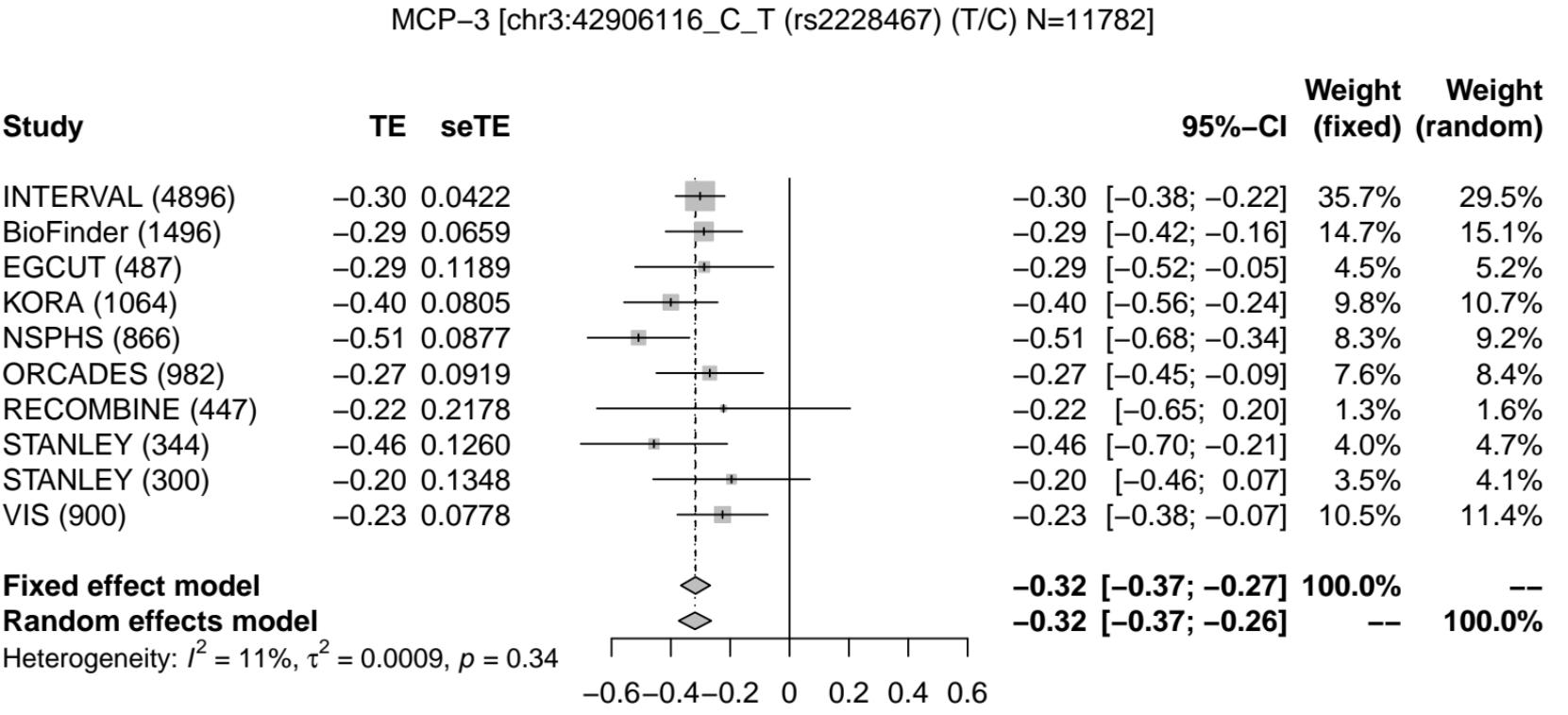
**0.09 [ 0.07; 0.12] 100.0%**  
**0.09 [ 0.07; 0.12] -- 100.0%**

**Fixed effect model**  
**Random effects model**

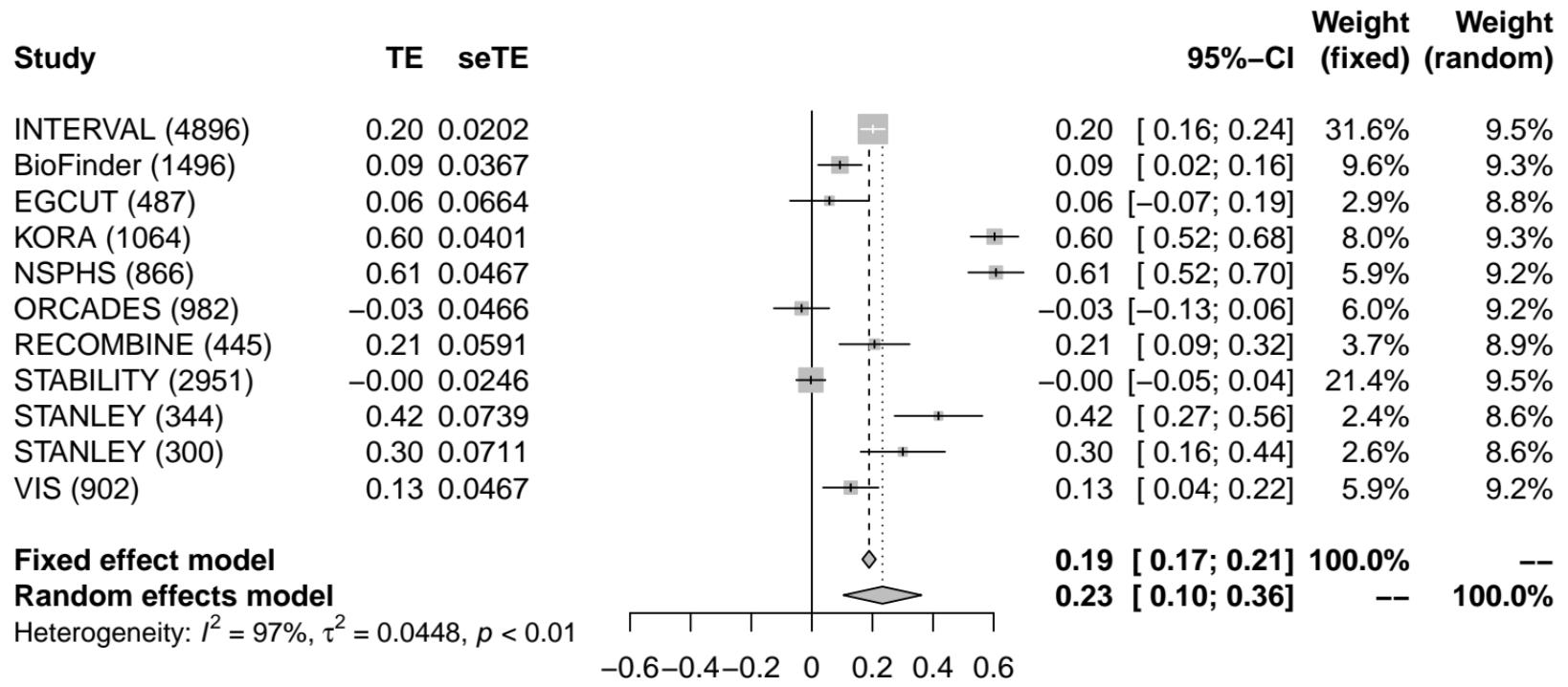
Heterogeneity:  $I^2 = 7\%$ ,  $\tau^2 = 0.0002$ ,  $p = 0.38$



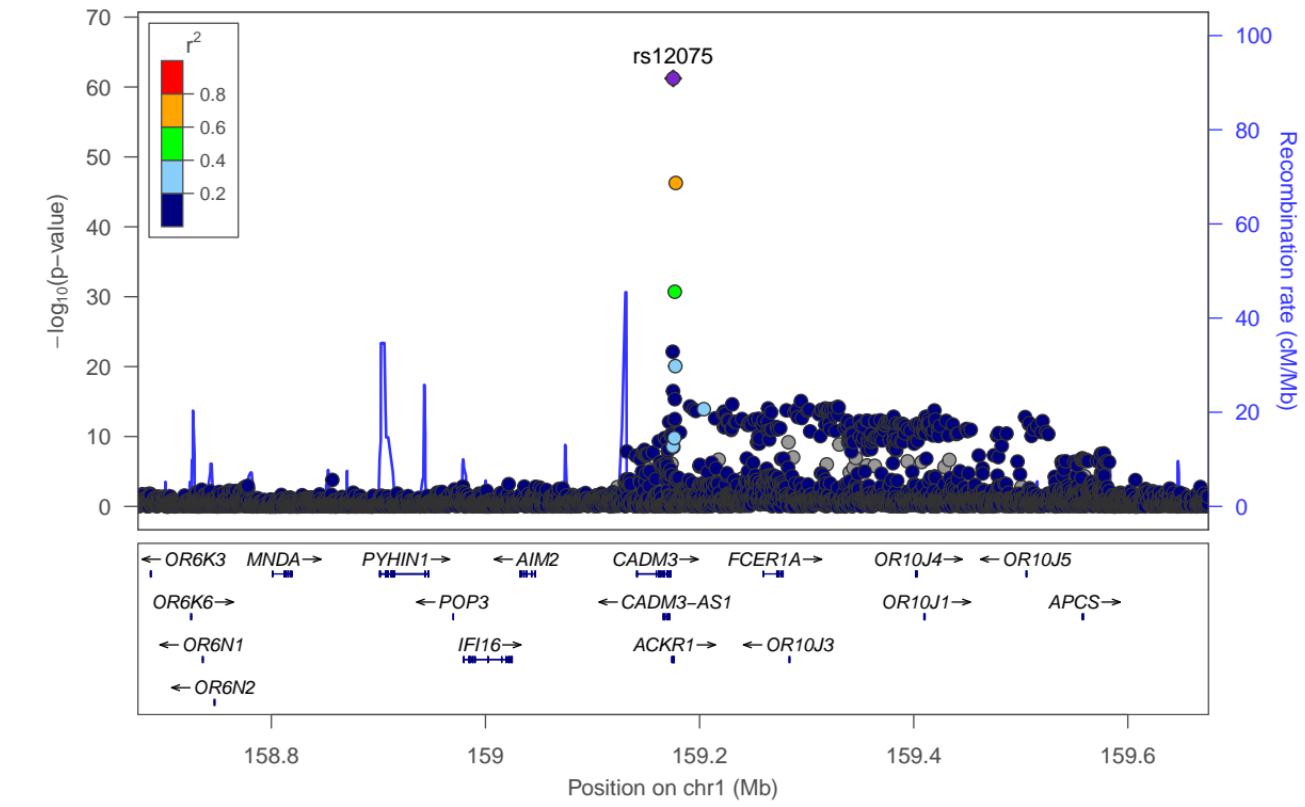
## MCP-3 (CCL7)-rs2228467



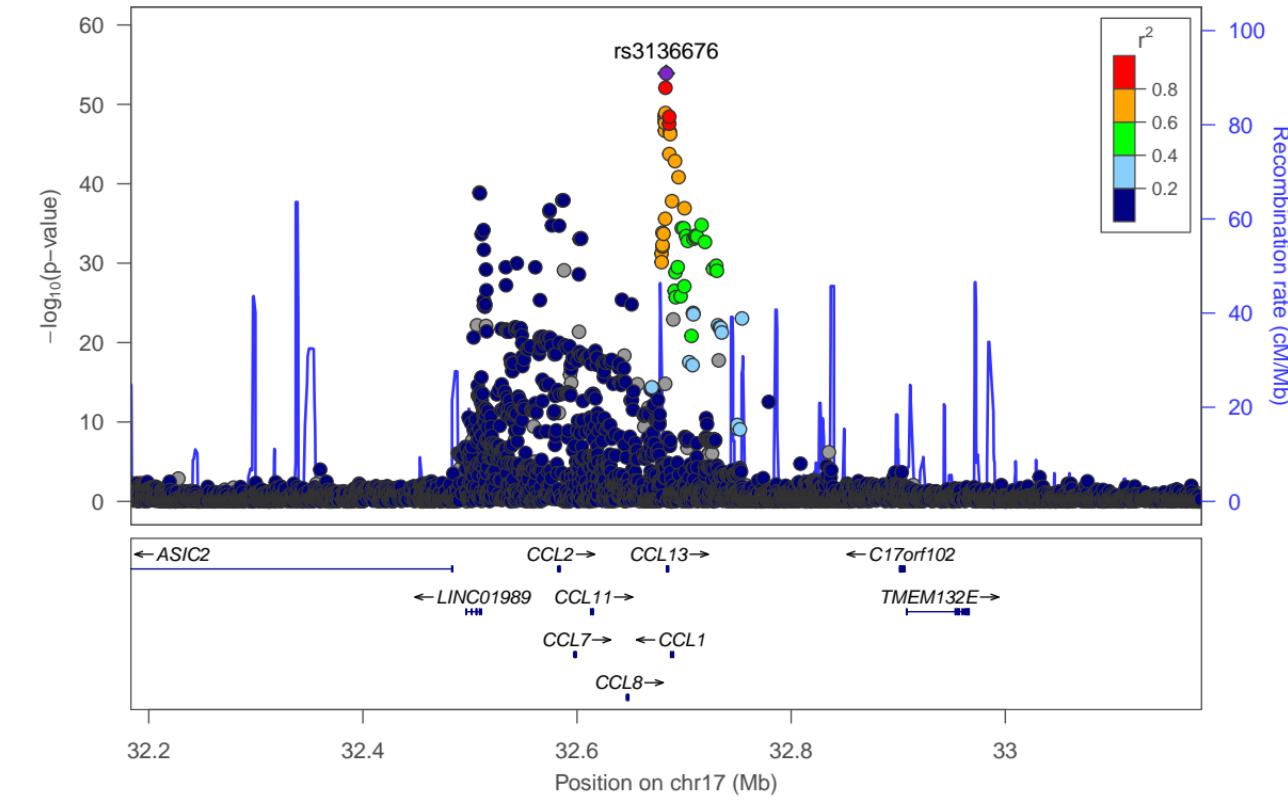
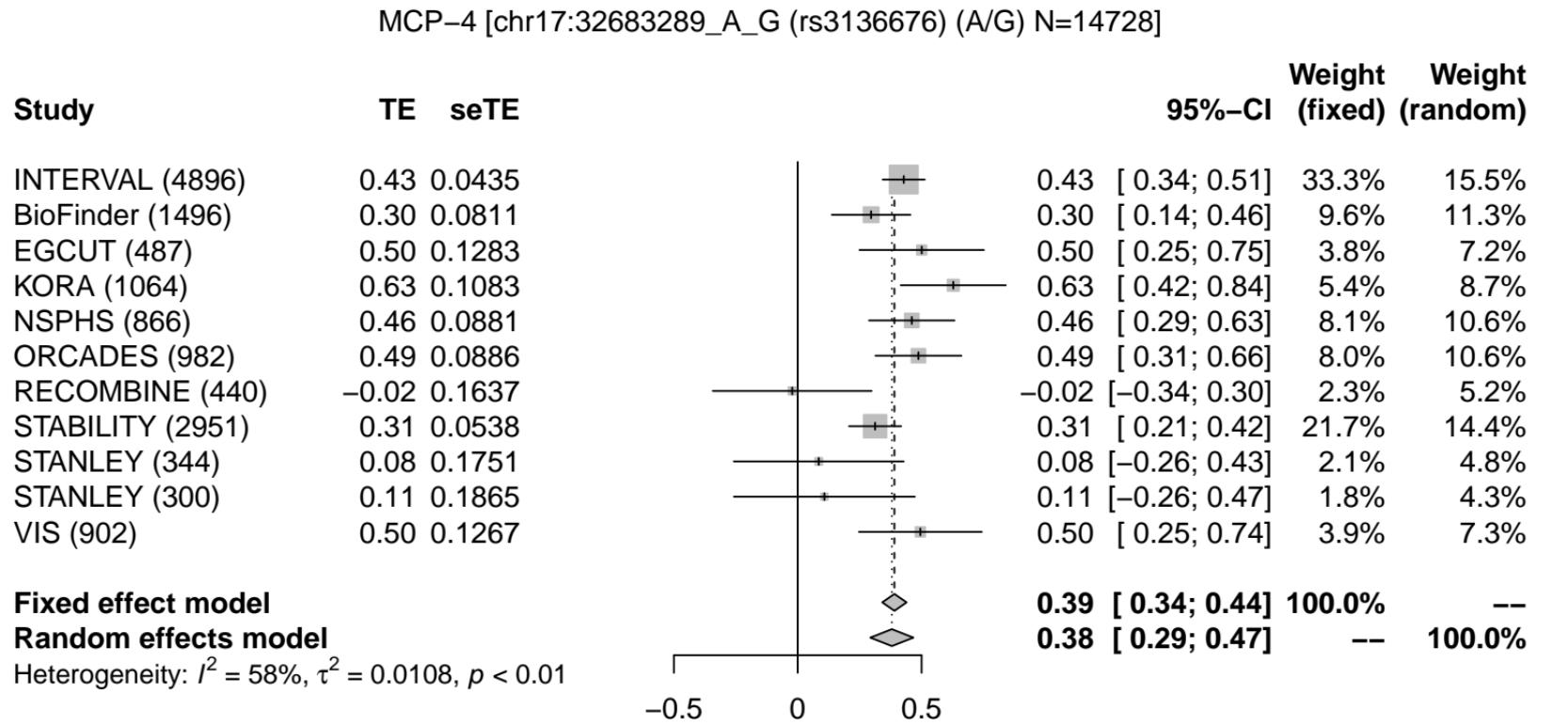
MCP-4 [chr1:159175354\_A\_G (rs12075) (A/G) N=14733]



MCP-4 (CCL13)-rs12075

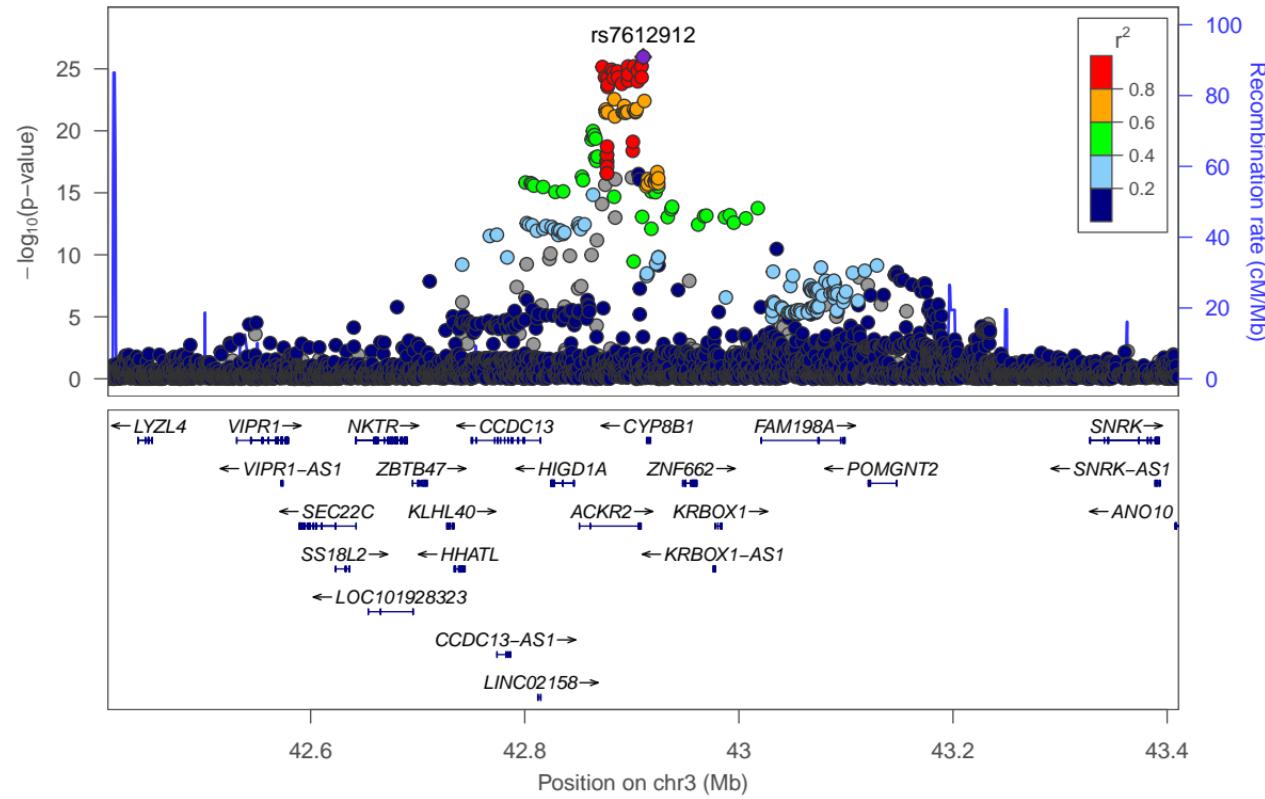
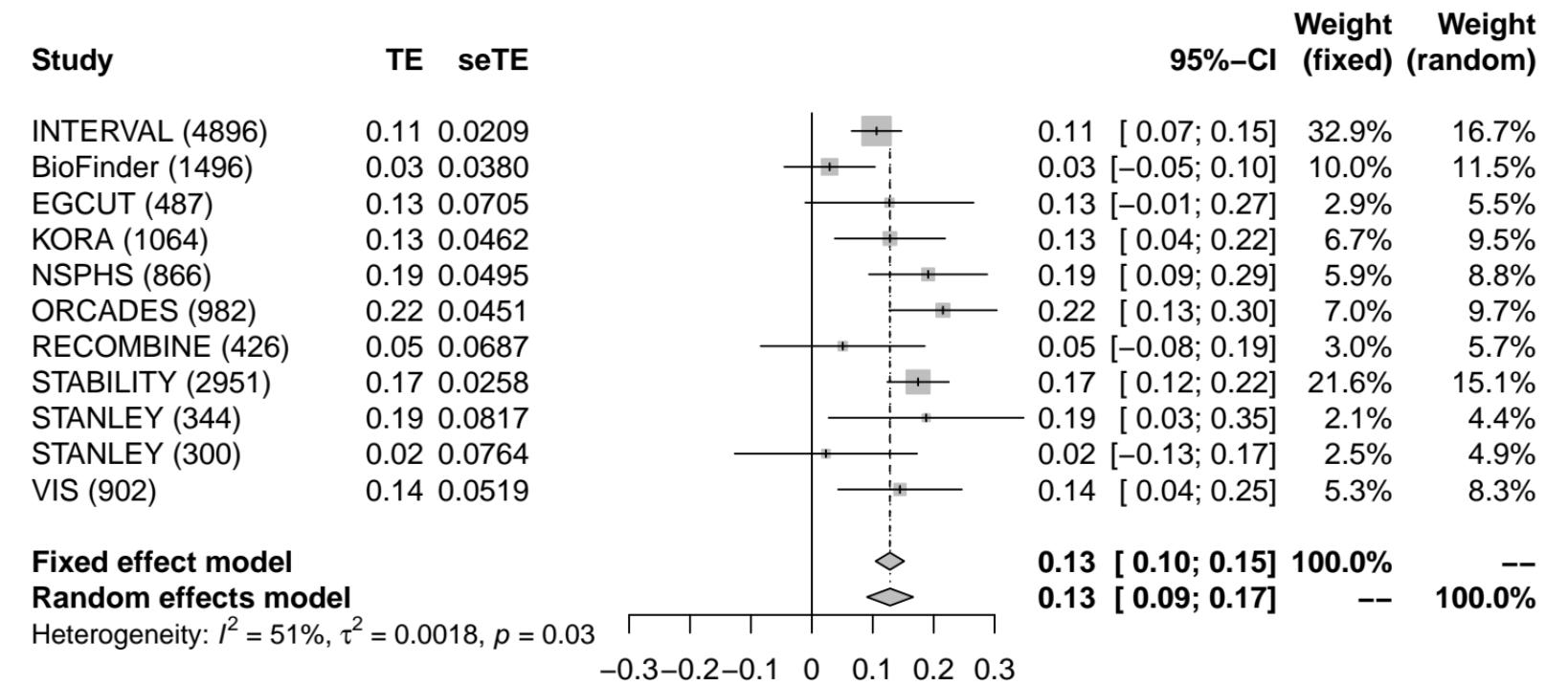


## MCP-4 (CCL13)-rs3136676



## MCP-4 (CCL13)-rs7612912

MCP-4 [chr3:42910621\_C\_T (rs7612912) (T/C) N=14714]



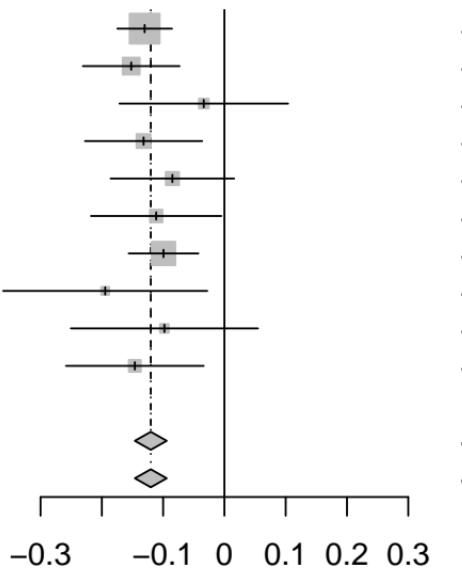
MCP-4 [chr8:116657911\_G\_T (rs2721961) (T/G) N=14288]

**Study**

	<b>TE</b>	<b>seTE</b>
INTERVAL (4896)	-0.13	0.0228
BioFinder (1496)	-0.15	0.0403
EGCUT (487)	-0.03	0.0702
KORA (1064)	-0.13	0.0488
NSPHS (866)	-0.08	0.0515
ORCADES (982)	-0.11	0.0543
STABILITY (2951)	-0.10	0.0291
STANLEY (344)	-0.19	0.0850
STANLEY (300)	-0.10	0.0779
VIS (902)	-0.15	0.0573

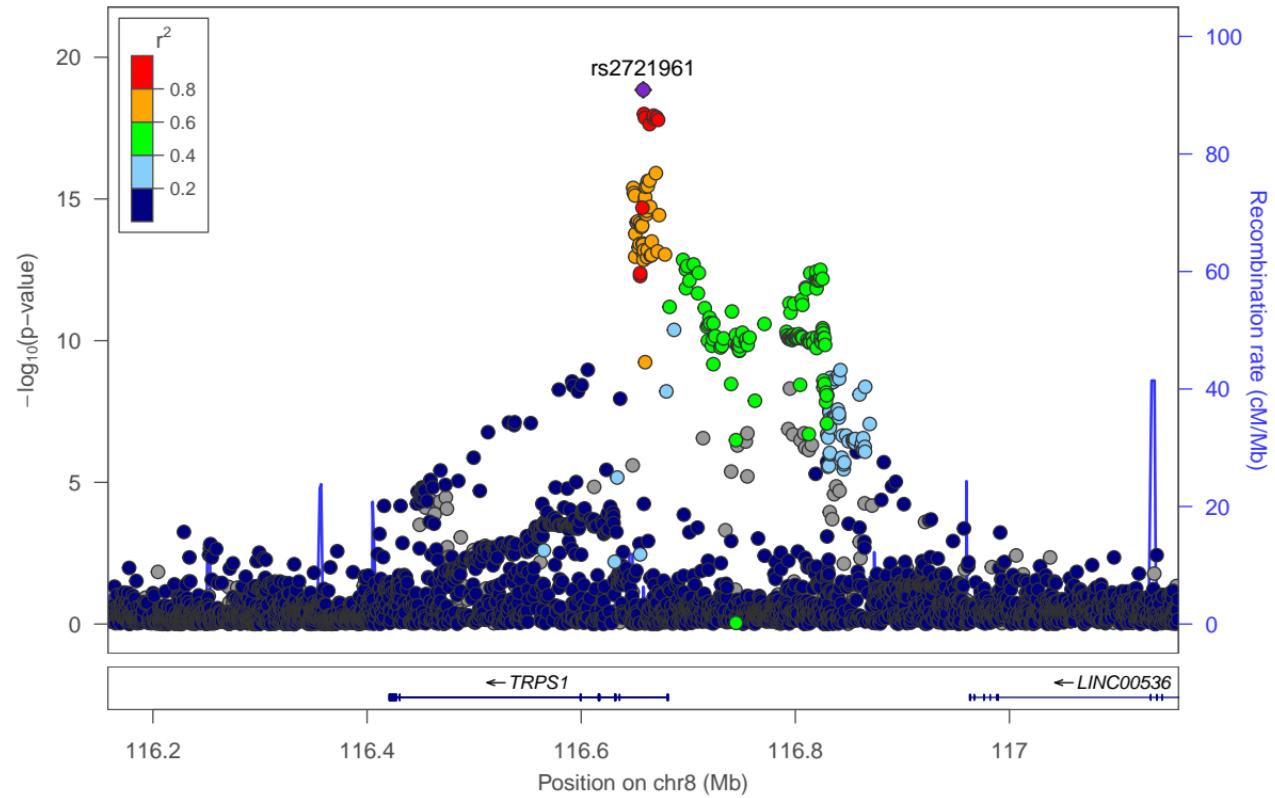
**Fixed effect model**  
**Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.88$



	<b>95%-CI</b>	<b>Weight (fixed)</b>	<b>Weight (random)</b>
	-0.13 [-0.17; -0.09]	34.0%	34.0%
	-0.15 [-0.23; -0.07]	10.9%	10.9%
	-0.03 [-0.17; 0.10]	3.6%	3.6%
	-0.13 [-0.23; -0.04]	7.4%	7.4%
	-0.08 [-0.19; 0.02]	6.6%	6.6%
	-0.11 [-0.22; 0.00]	6.0%	6.0%
	-0.10 [-0.16; -0.04]	20.9%	20.9%
	-0.19 [-0.36; -0.03]	2.4%	2.4%
	-0.10 [-0.25; 0.05]	2.9%	2.9%
	-0.15 [-0.26; -0.03]	5.4%	5.4%
	<b>-0.12 [-0.15; -0.09]</b>	<b>100.0%</b>	--
	<b>-0.12 [-0.15; -0.09]</b>	--	<b>100.0%</b>

# MCP-4 (CCL13)-rs2721961

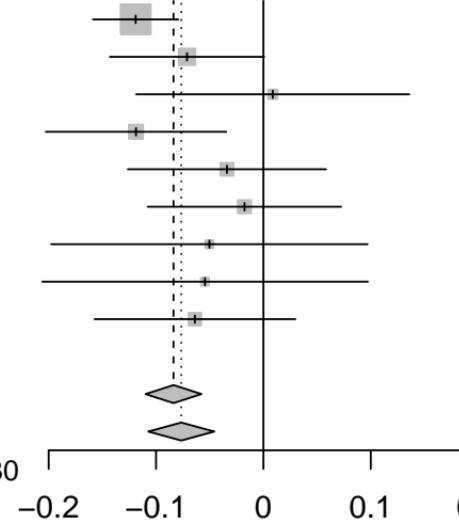


MIP-1 alpha [chr12:111932800\_C\_T (rs7137828) (T/C) N=11344]

**Study**

Study	TE	seTE
INTERVAL (4896)	-0.12	0.0203
BioFinder (1496)	-0.07	0.0367
EGCUT (487)	0.01	0.0649
KORA (1064)	-0.12	0.0429
NSPHS (874)	-0.03	0.0471
ORCADES (982)	-0.02	0.0460
STANLEY (344)	-0.05	0.0752
STANLEY (300)	-0.05	0.0774
VIS (901)	-0.06	0.0477

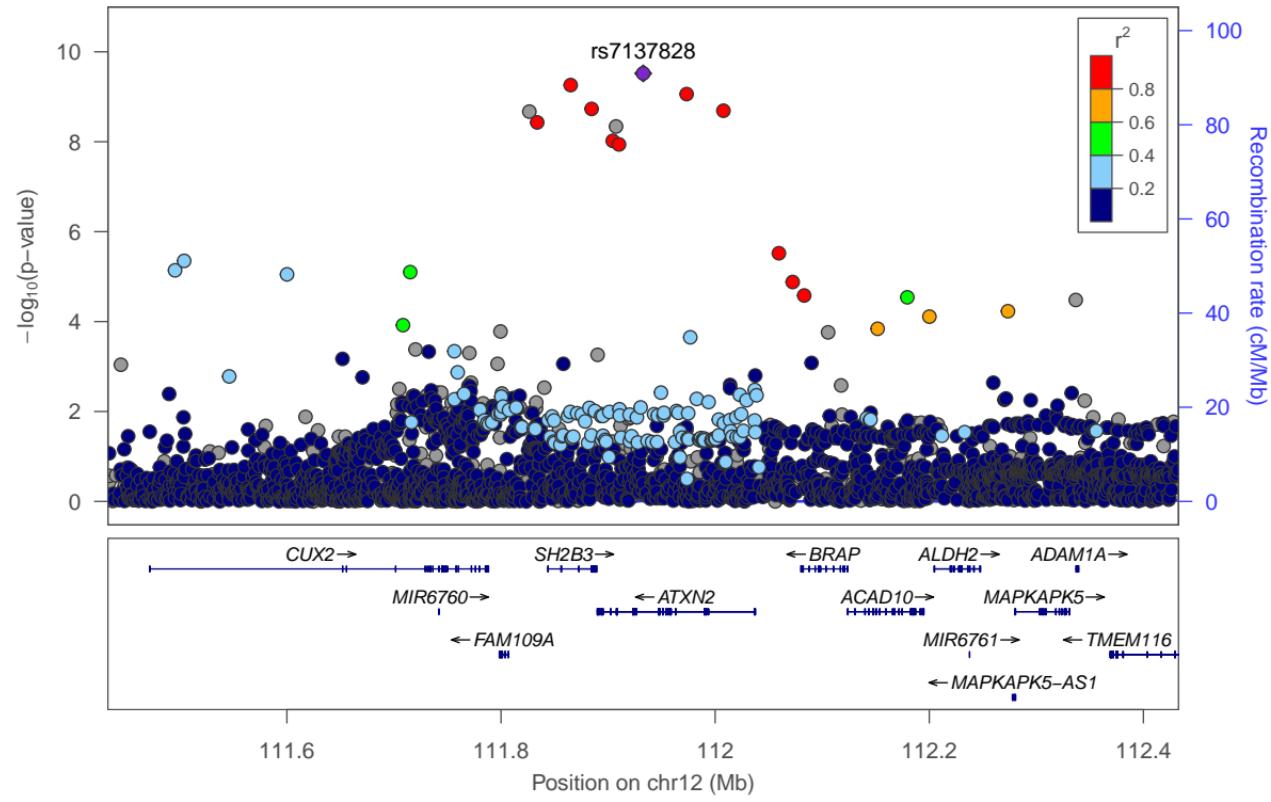
**TE** **seTE**



		95%-CI	Weight (fixed)	Weight (random)
		-0.12 [-0.16; -0.08]	42.9%	32.1%
		-0.07 [-0.14; 0.00]	13.1%	14.5%
		0.01 [-0.12; 0.14]	4.2%	5.4%
		-0.12 [-0.20; -0.03]	9.6%	11.2%
		-0.03 [-0.13; 0.06]	8.0%	9.6%
		-0.02 [-0.11; 0.07]	8.4%	10.0%
		-0.05 [-0.20; 0.10]	3.1%	4.1%
		-0.05 [-0.21; 0.10]	3.0%	3.9%
		-0.06 [-0.16; 0.03]	7.8%	9.3%
<b>Fixed effect model</b>		<b>-0.08 [-0.11; -0.06]</b>	<b>100.0%</b>	--
<b>Random effects model</b>		<b>-0.08 [-0.11; -0.05]</b>	--	<b>100.0%</b>

Heterogeneity:  $I^2 = 16\%, \tau^2 = 0.0004, p = 0.30$

MIP-1 (alpha)-rs7137828



MIP-1 alpha [chr17:34415720\_C\_T (rs8951) (T/C) N=14295]

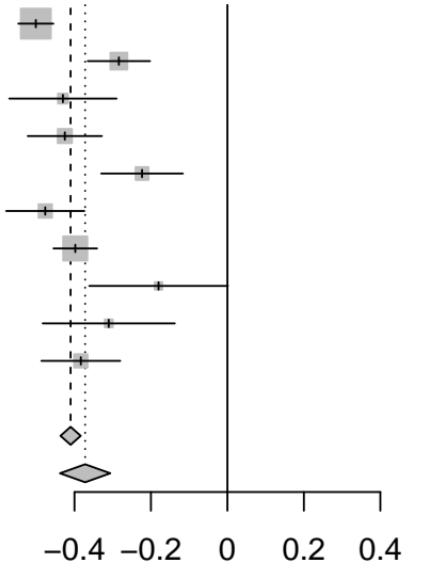
**Study**

	<b>TE</b>	<b>seTE</b>
INTERVAL (4896)	-0.50	0.0235
BioFinder (1496)	-0.28	0.0416
EGCUT (487)	-0.43	0.0716
KORA (1064)	-0.43	0.0495
NSPHS (874)	-0.22	0.0545
ORCADES (982)	-0.48	0.0522
STABILITY (2951)	-0.40	0.0291
STANLEY (344)	-0.18	0.0925
STANLEY (300)	-0.31	0.0882
VIS (901)	-0.38	0.0527

**Fixed effect model**

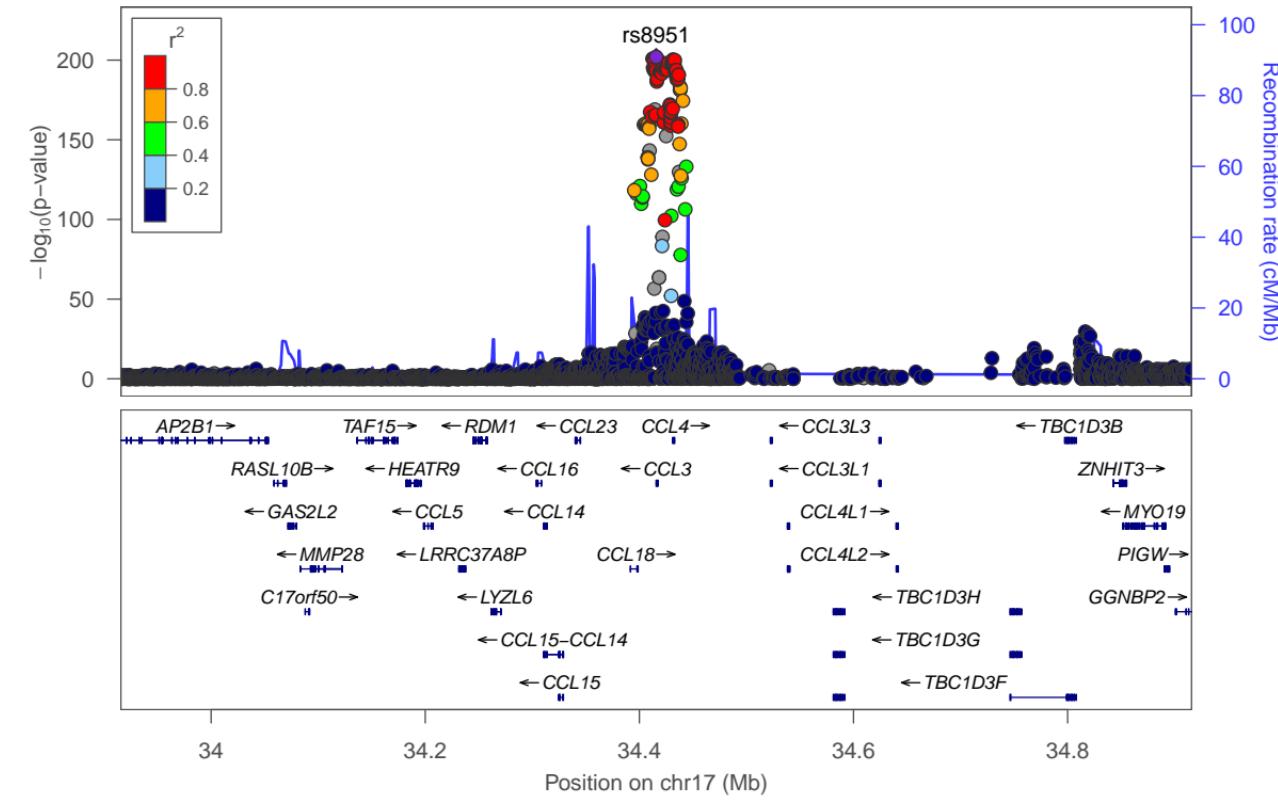
**Random effects model**

Heterogeneity:  $I^2 = 80\%$ ,  $\tau^2 = 0.0082$ ,  $p < 0.01$



**Weight**  
**95%-CI**  
**Weight (fixed)**  
**Weight (random)**

MIP-1 (alpha)-rs8951



MMP-10 [chr11:102649482\_C\_T (rs17860955) (T/C) N=14256]

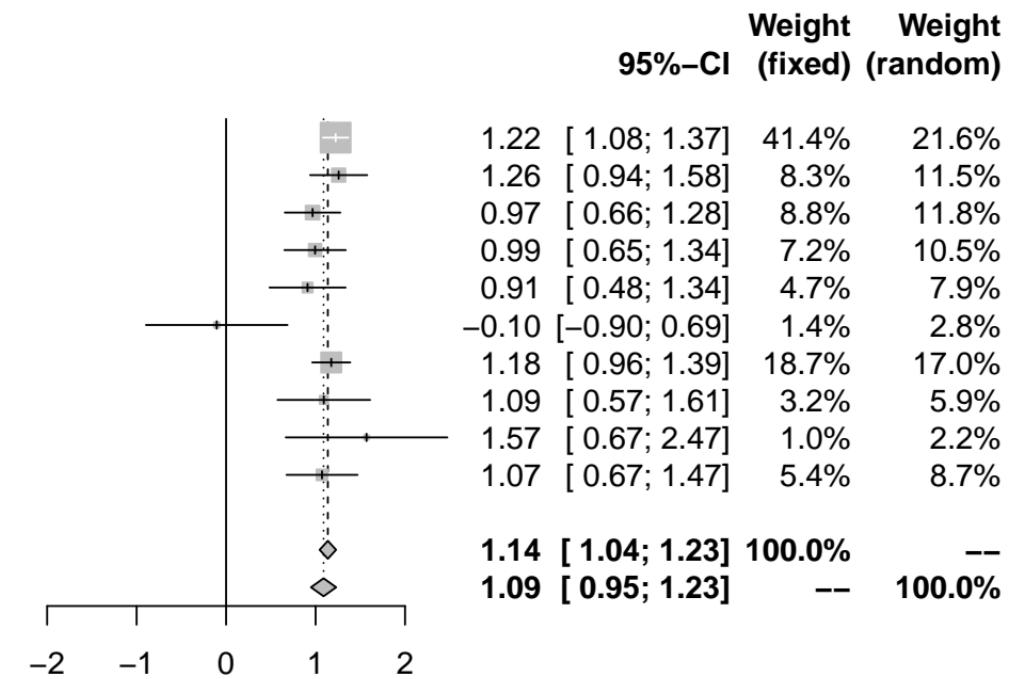
**Study**

	<b>TE</b>	<b>seTE</b>
INTERVAL (4896)	1.22	0.0730
BioFinder (1496)	1.26	0.1630
KORA (1064)	0.97	0.1585
NSPHS (874)	0.99	0.1752
ORCADES (982)	0.91	0.2172
RECOMBINE (447)	-0.10	0.4038
STABILITY (2951)	1.18	0.1086
STANLEY (344)	1.09	0.2641
STANLEY (300)	1.57	0.4610
VIS (902)	1.07	0.2027

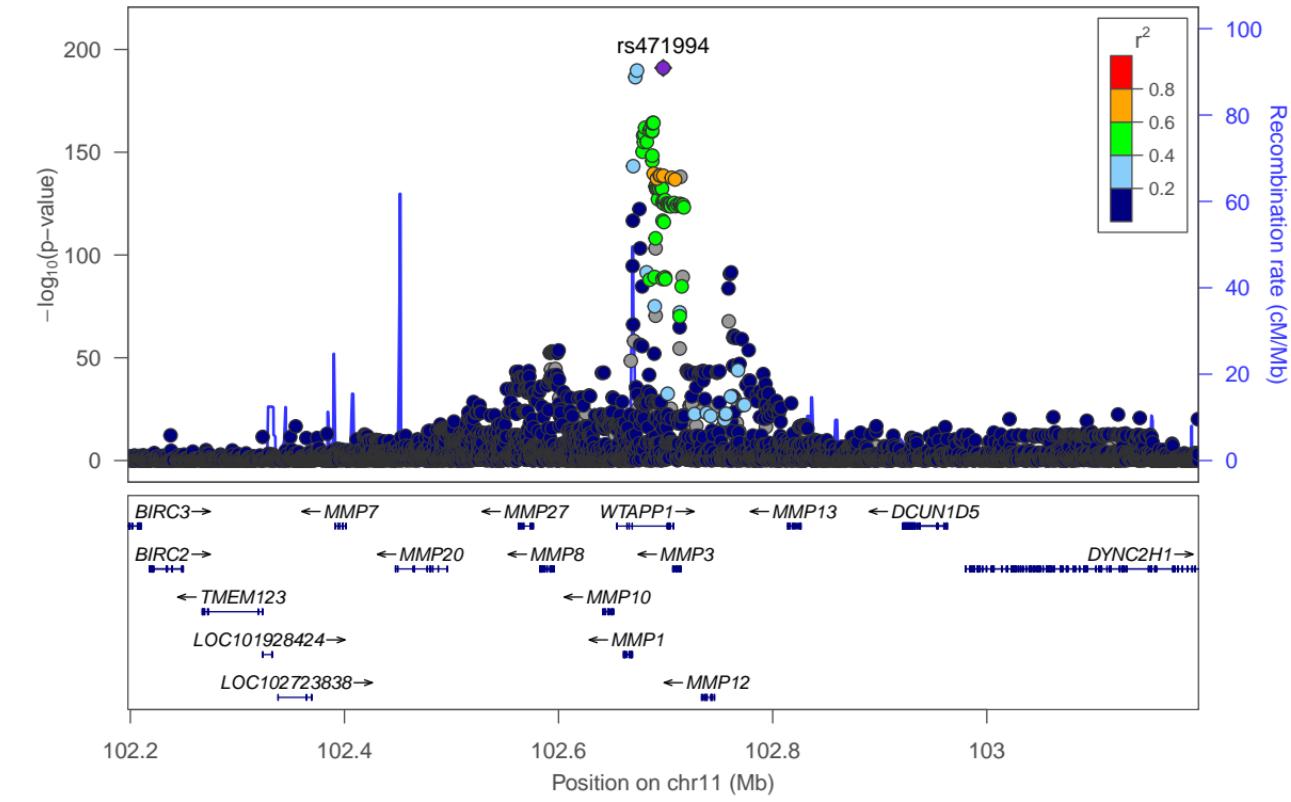
**Fixed effect model**

**Random effects model**

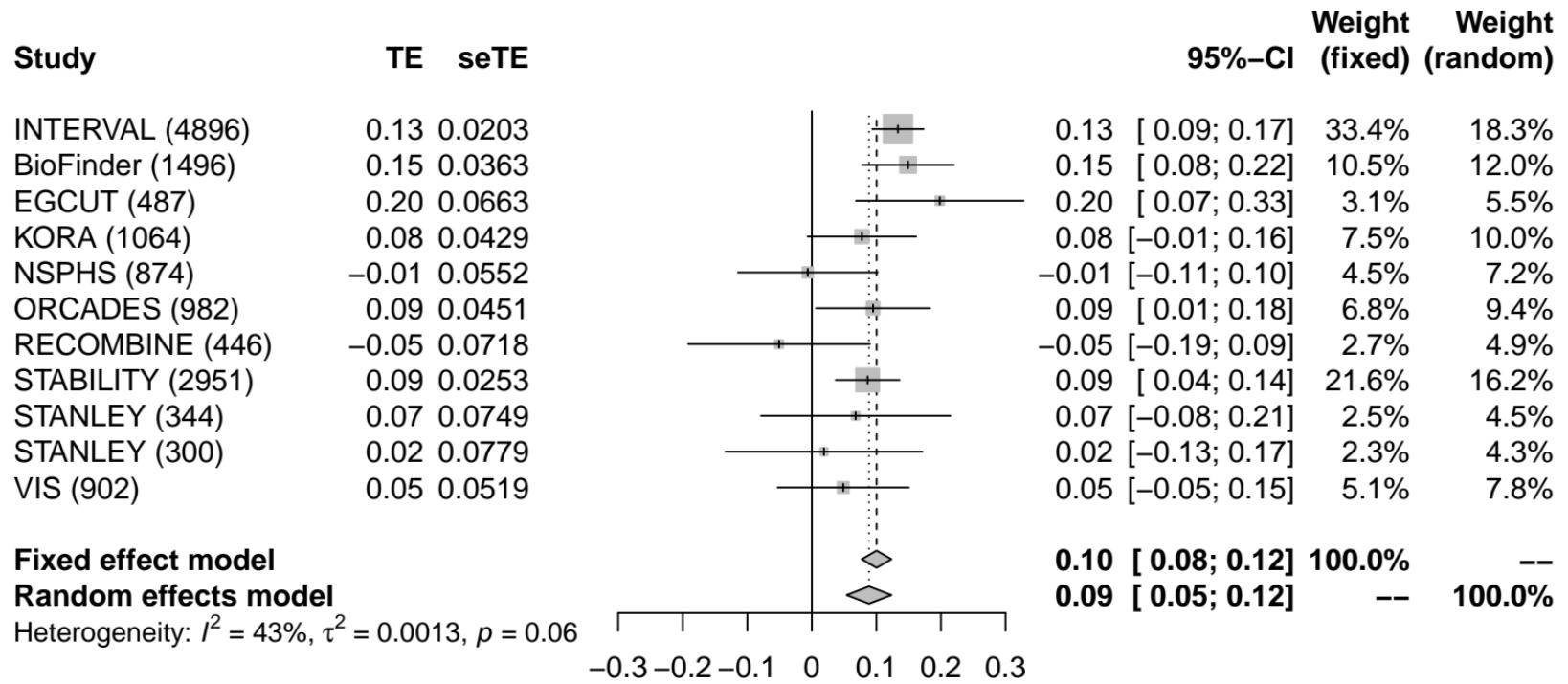
Heterogeneity:  $I^2 = 42\%$ ,  $\tau^2 = 0.0186$ ,  $p = 0.08$



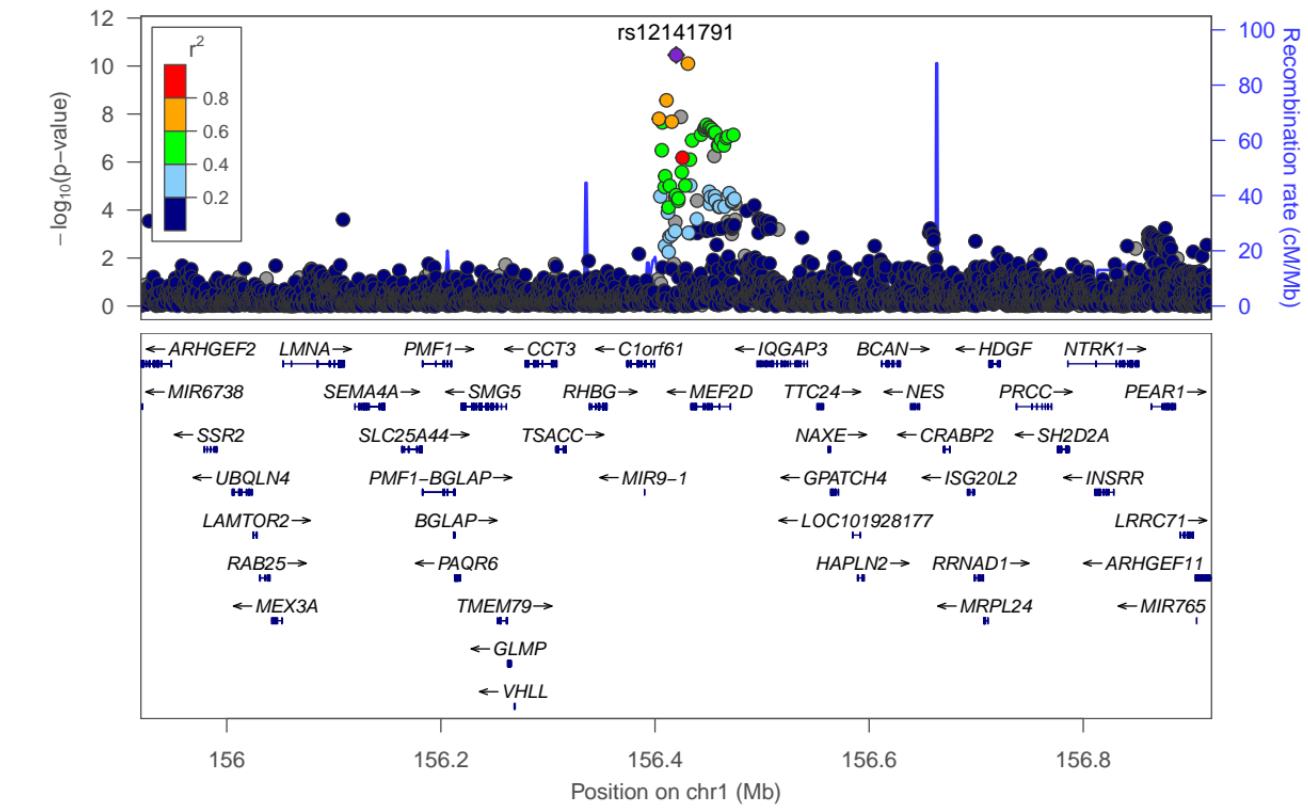
MMP-1 (MMP1)-rs471994



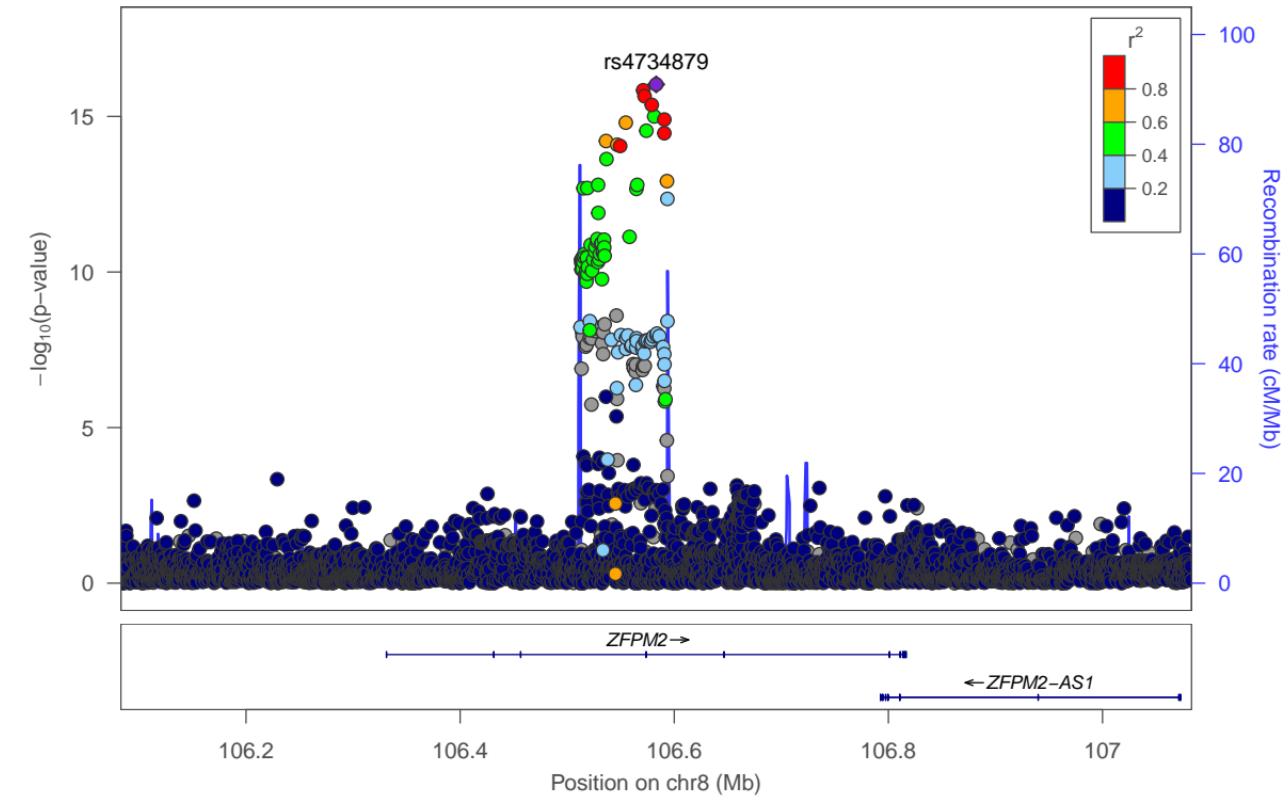
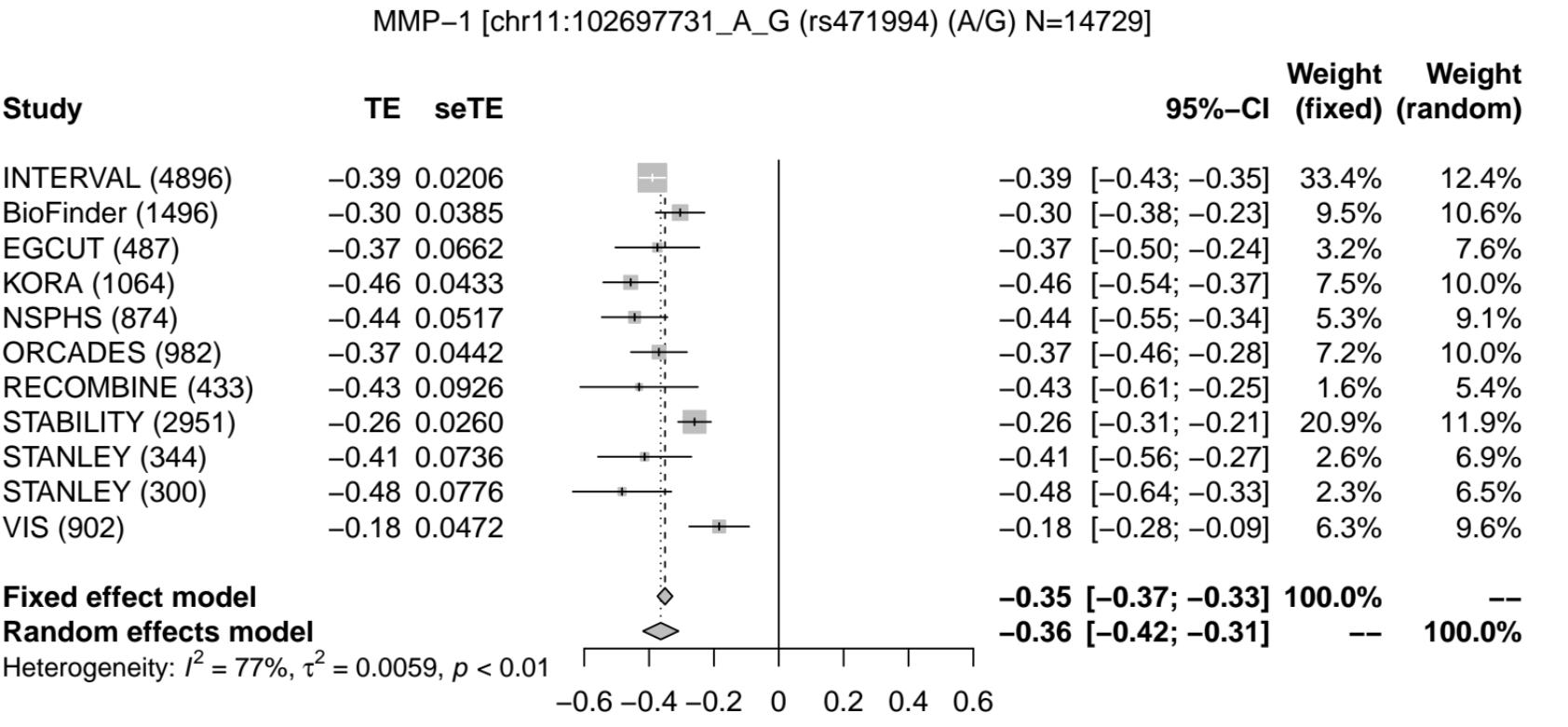
### MMP-10 [chr19:49206145\_C\_G (rs516316) (C/G) N=14742]



### MMP-1 (MMP1)-rs12141791



## MMP-1 (MMP1)-rs4734879



## MMP-10 (MMP10)-rs17860955

MMP-1 [chr1:156419786\_A\_G (rs12141791) (A/G) N=14296]

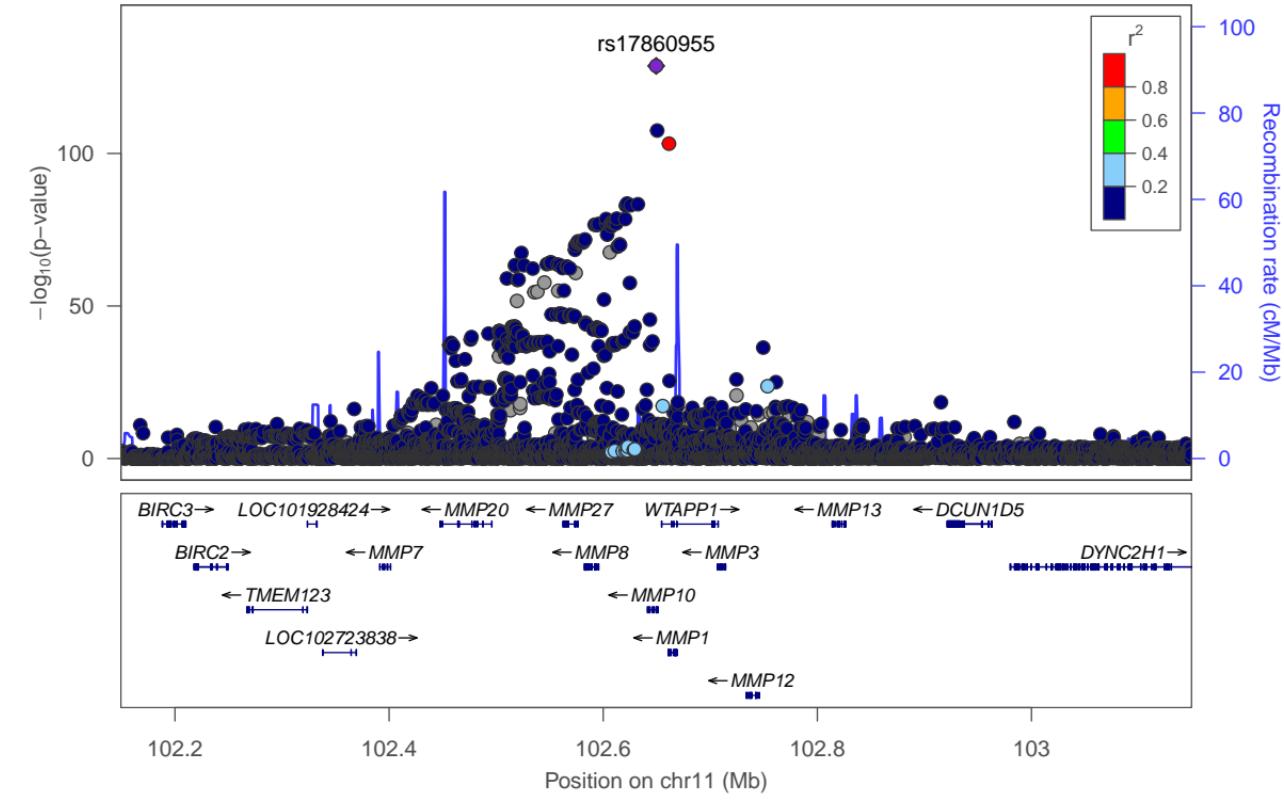
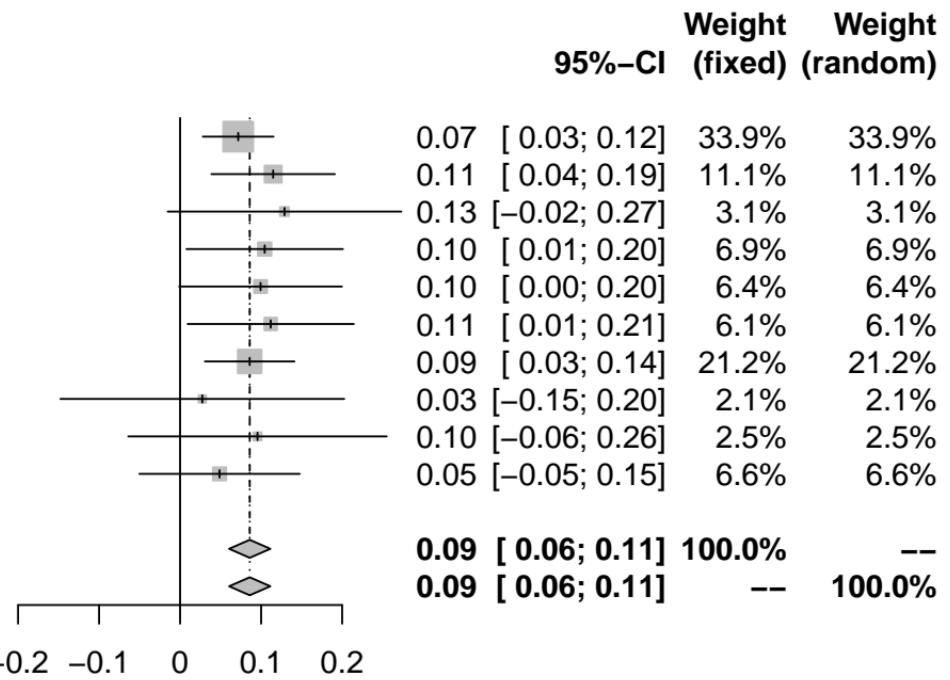
### Study

	TE	seTE
INTERVAL (4896)	0.07	0.0223
BioFinder (1496)	0.11	0.0389
EGCUT (487)	0.13	0.0736
KORA (1064)	0.10	0.0493
NSPHS (874)	0.10	0.0513
ORCADES (982)	0.11	0.0524
STABILITY (2951)	0.09	0.0282
STANLEY (344)	0.03	0.0894
STANLEY (300)	0.10	0.0814
VIS (902)	0.05	0.0505

### Fixed effect model

### Random effects model

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.97$

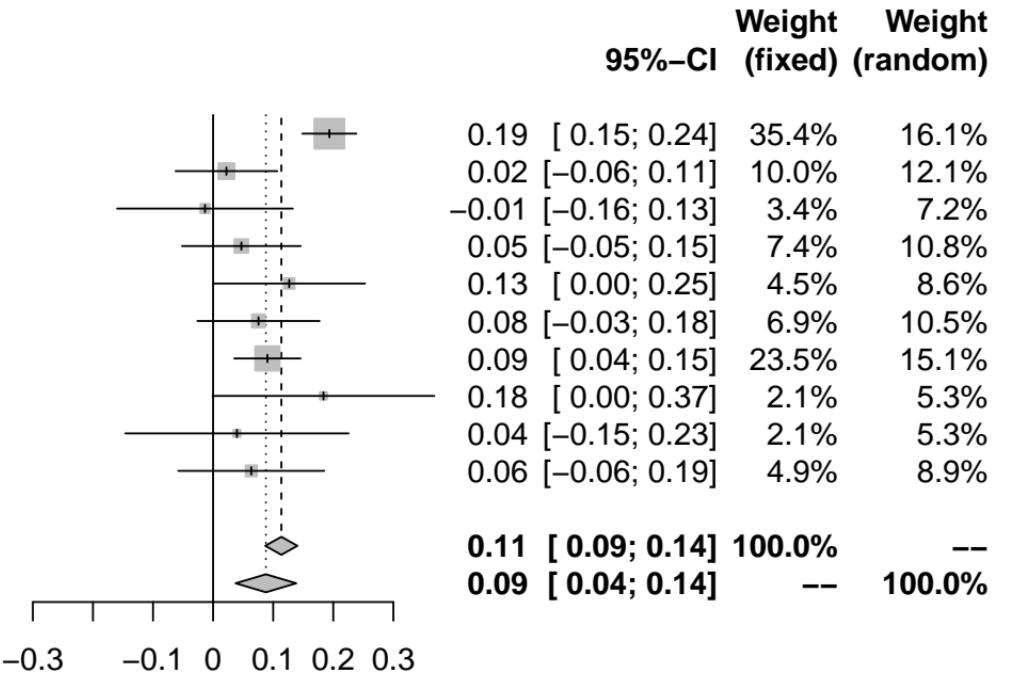


### MMP-1 [chr8:106583124\_A\_G (rs4734879) (A/G) N=14296]

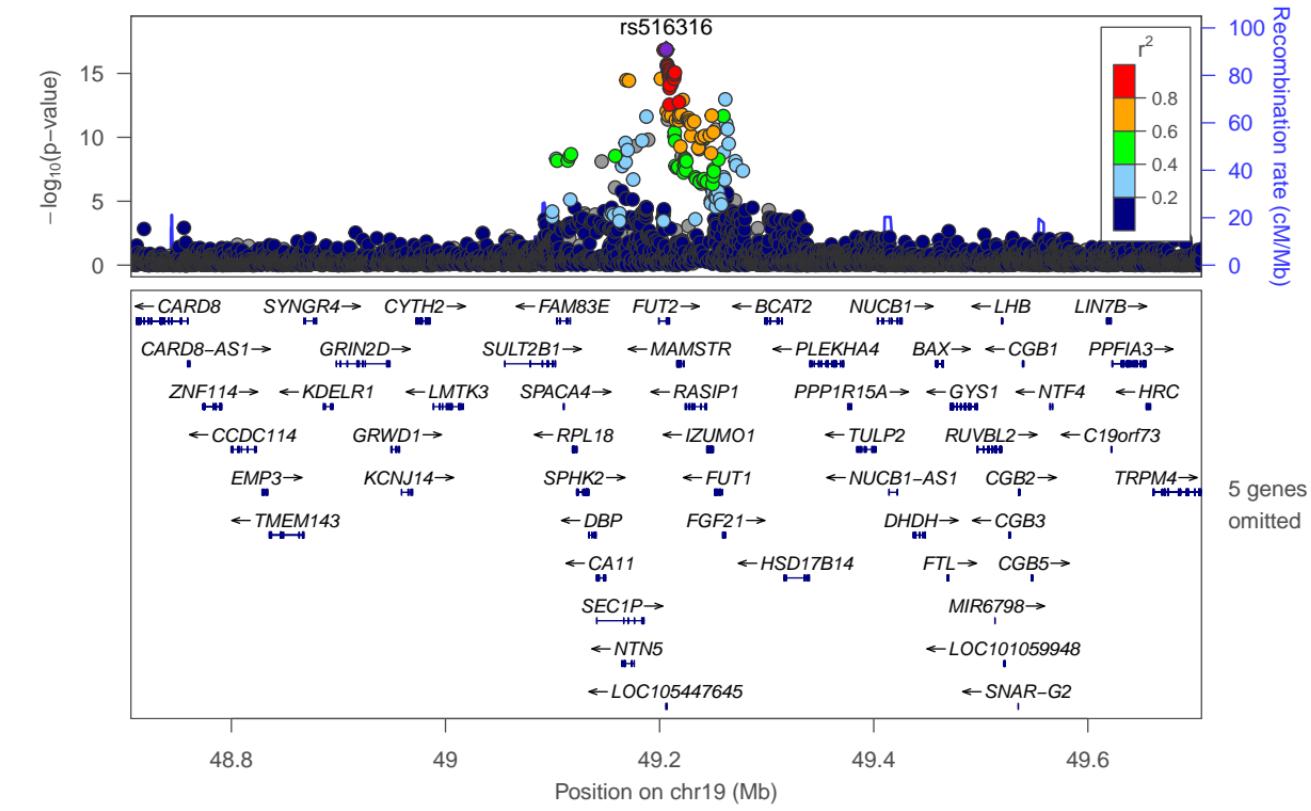
Study	TE	seTE
INTERVAL (4896)	0.19	0.0230
BioFinder (1496)	0.02	0.0432
EGCUT (487)	-0.01	0.0746
KORA (1064)	0.05	0.0504
NSPHS (874)	0.13	0.0644
ORCADES (982)	0.08	0.0519
STABILITY (2951)	0.09	0.0282
STANLEY (344)	0.18	0.0942
STANLEY (300)	0.04	0.0948
VIS (902)	0.06	0.0620

**Fixed effect model**  
**Random effects model**

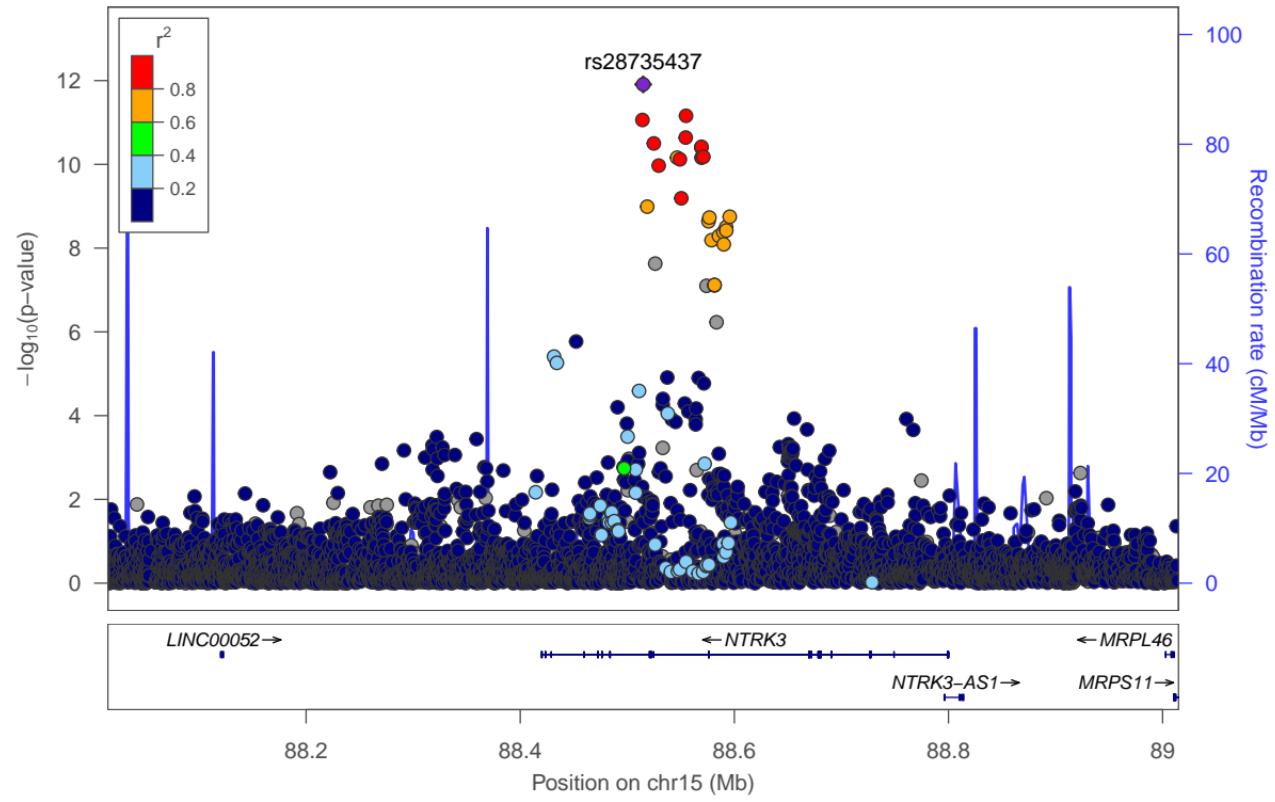
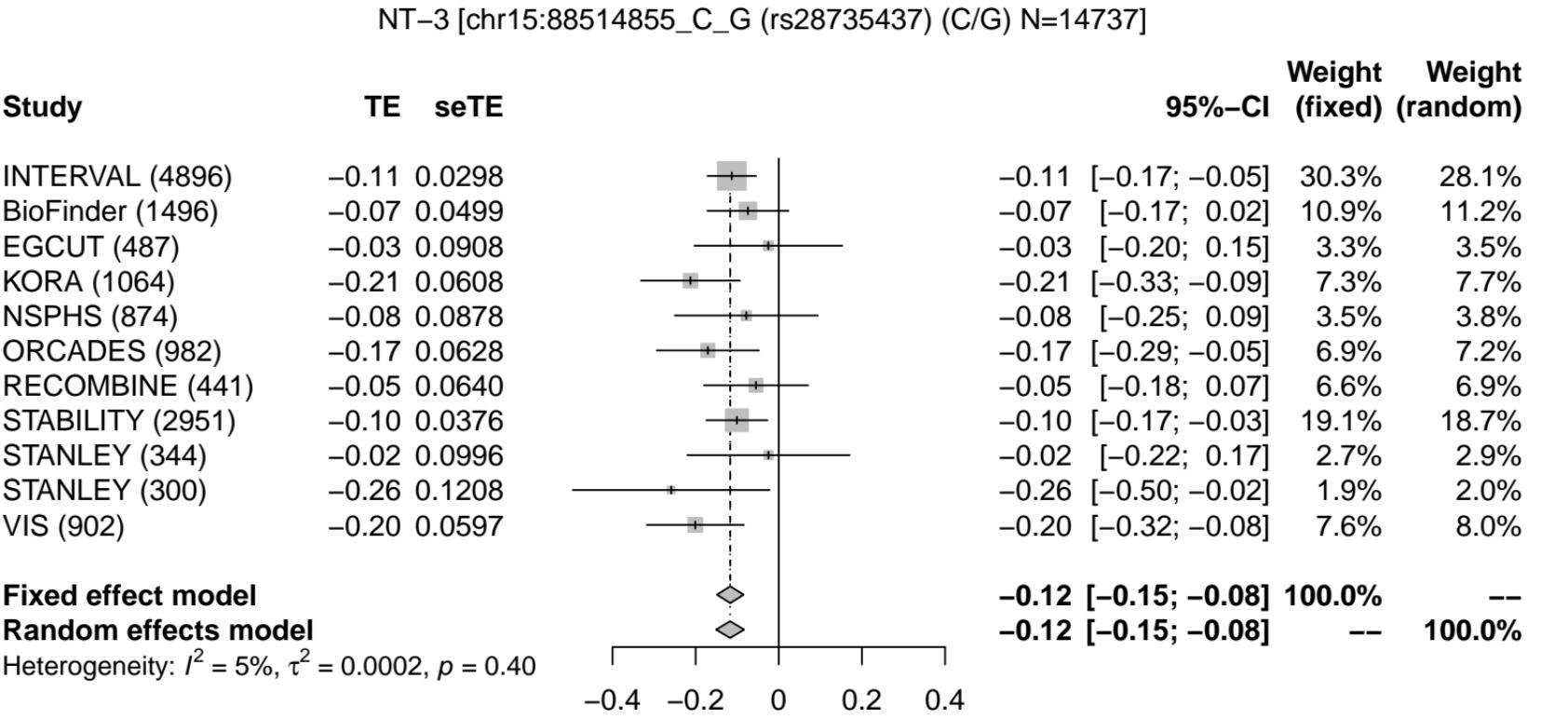
Heterogeneity:  $I^2 = 63\%$ ,  $\tau^2 = 0.0036$ ,  $p < 0.01$



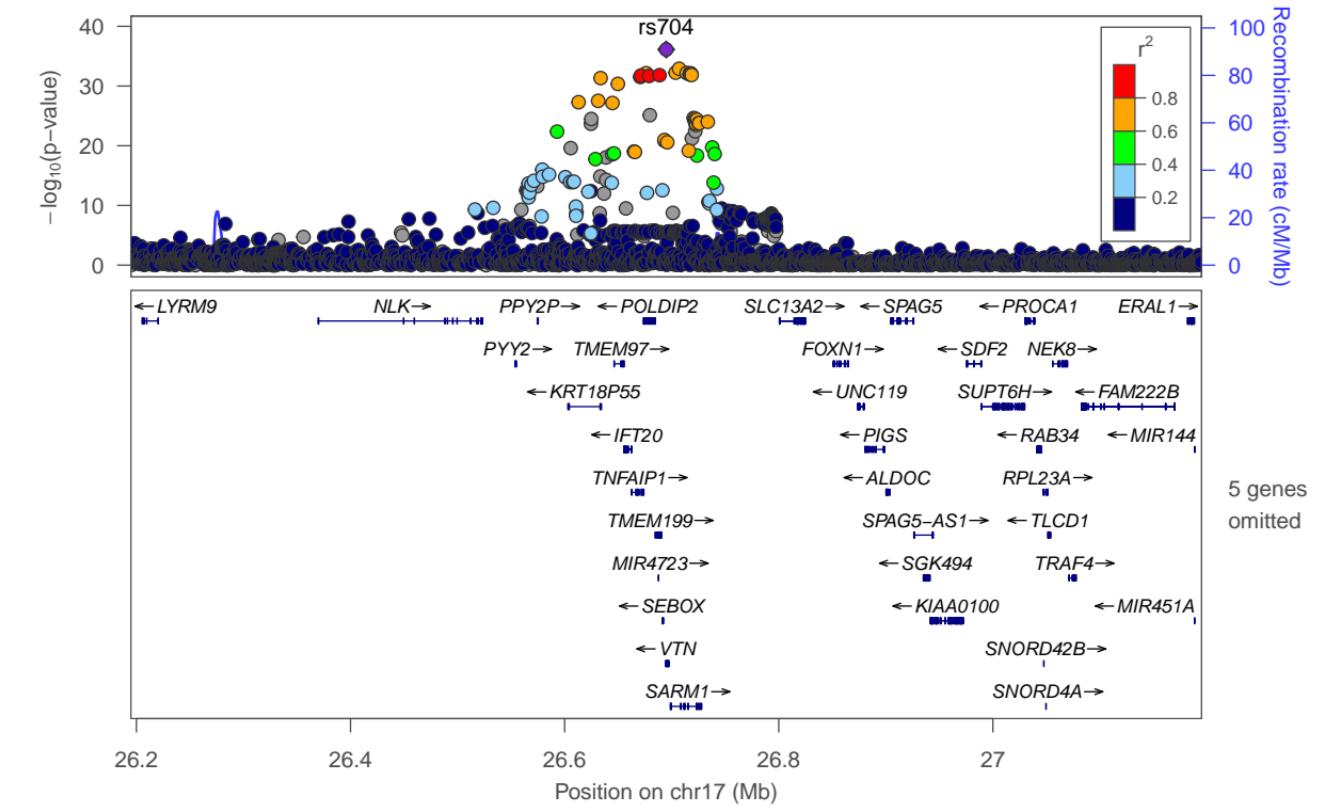
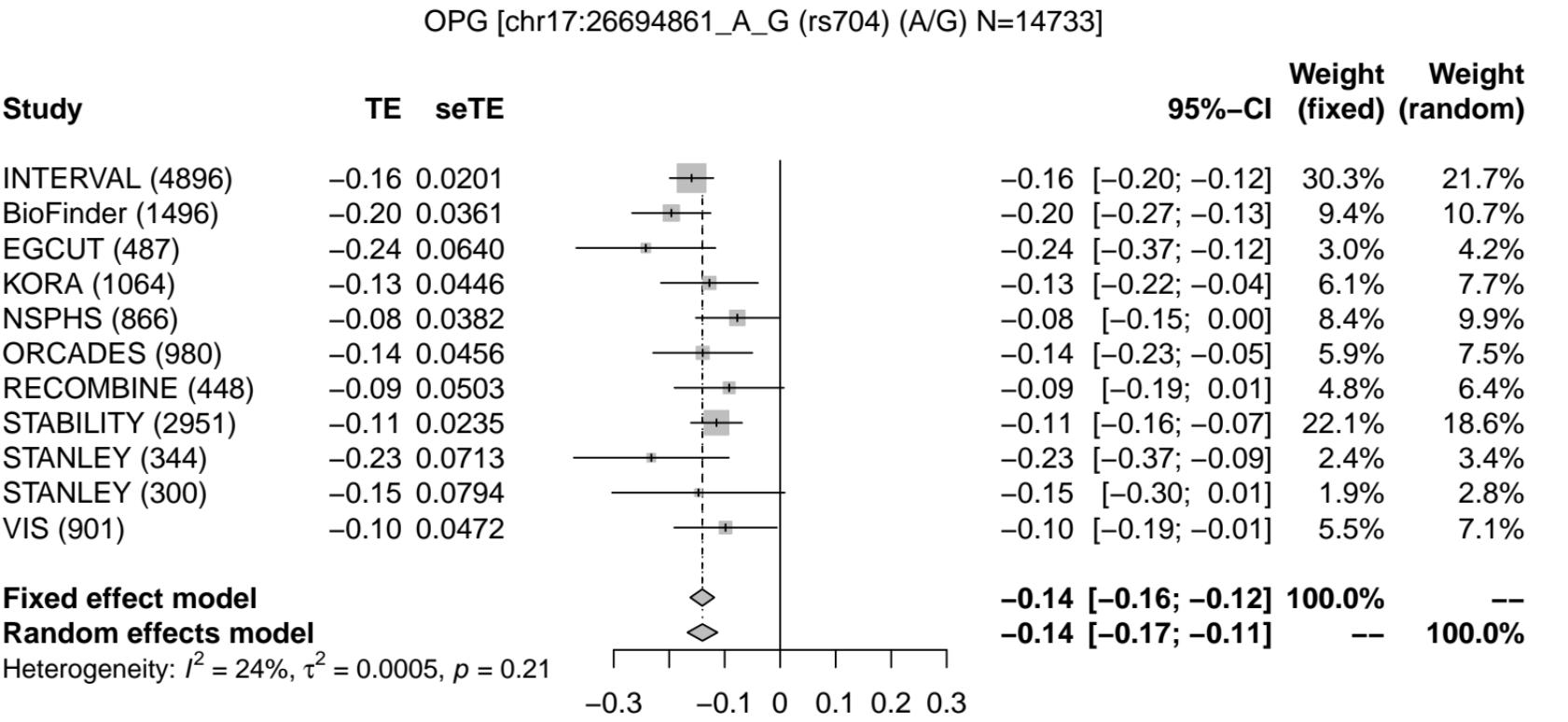
### MMP-10 (MMP10)-rs516316



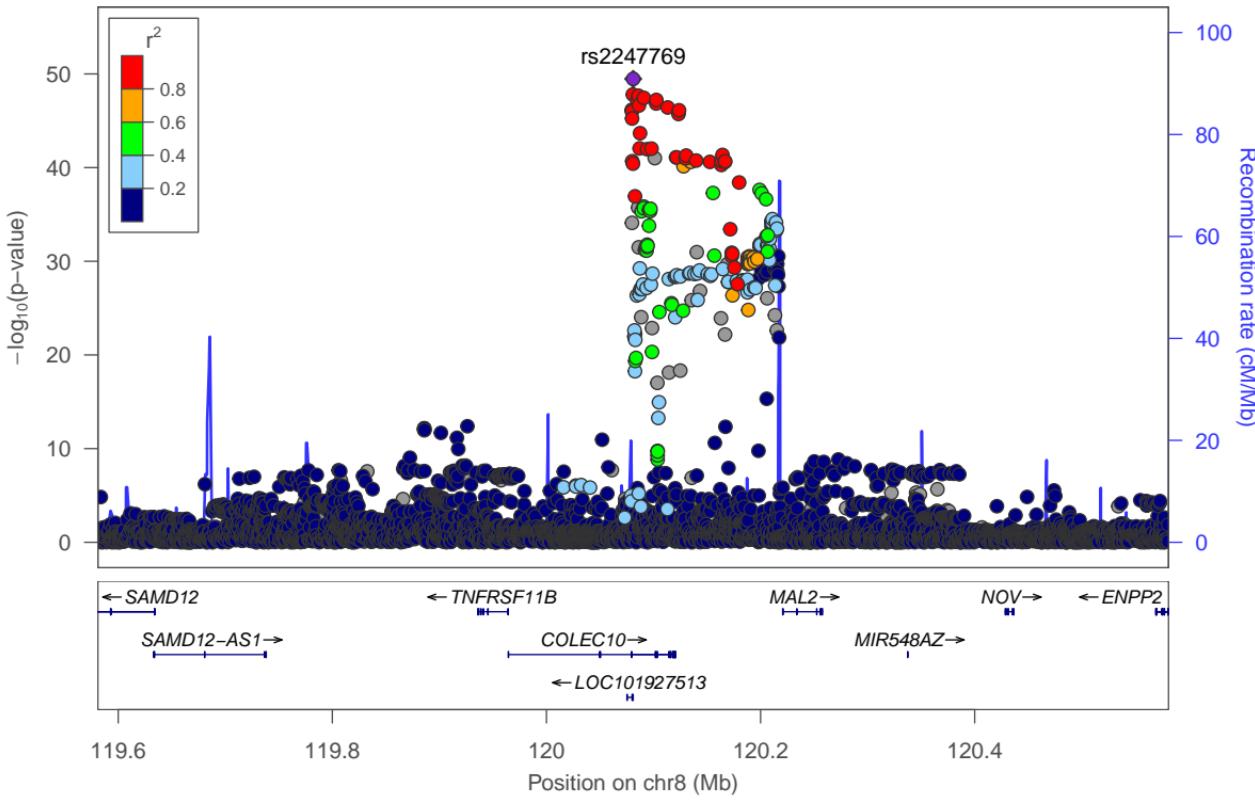
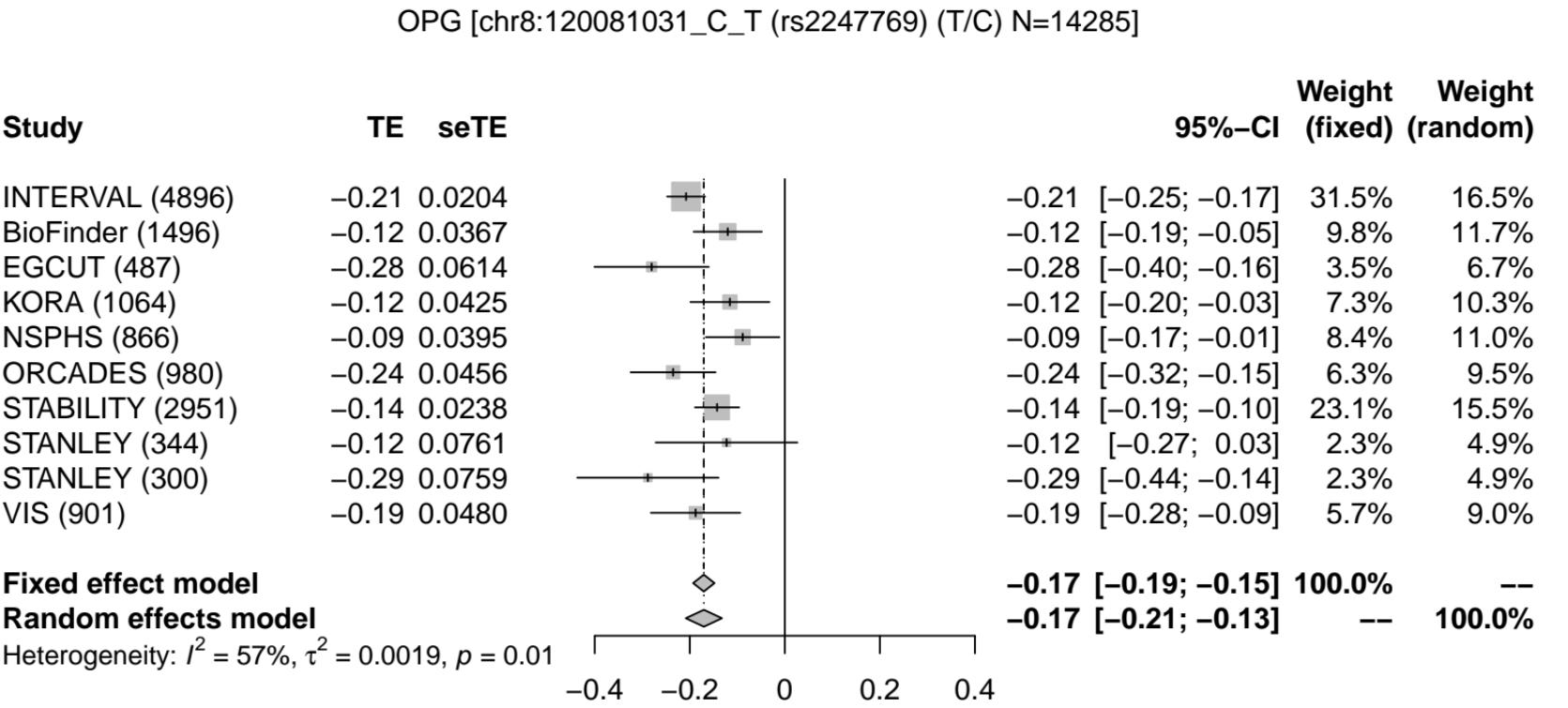
## NT-3 (NTF3)-rs28735437

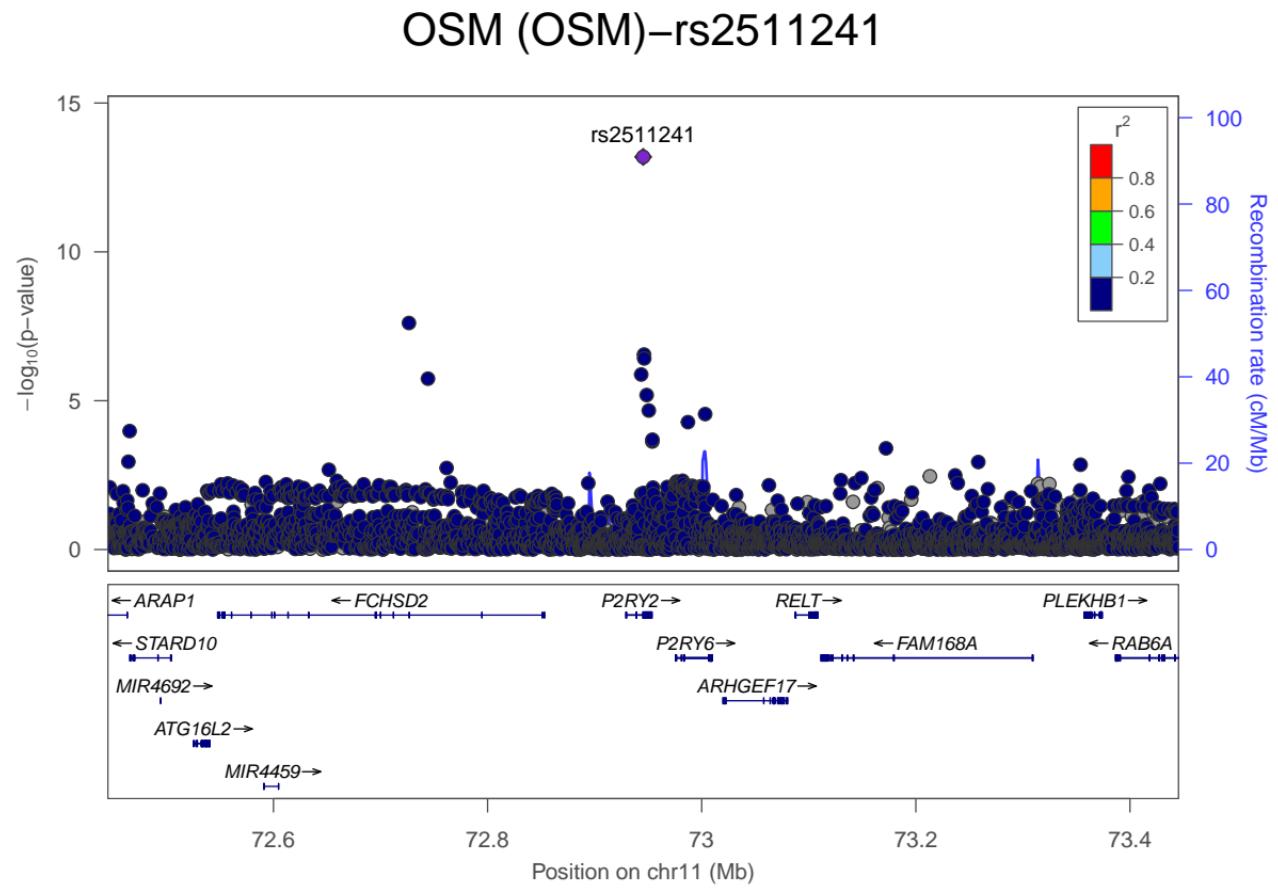
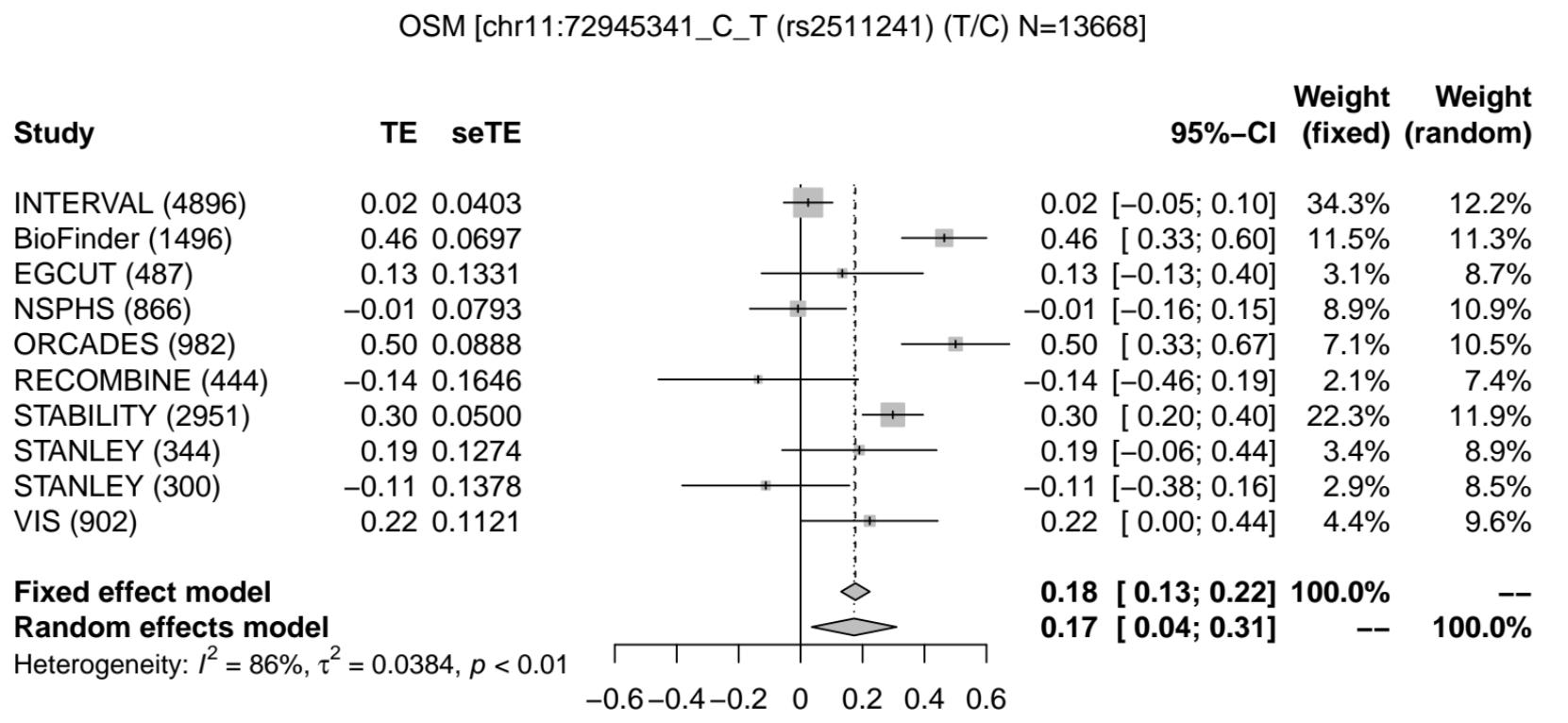


# OPG (TNFRSF11B)-rs704



# OPG (TNFRSF11B)-rs2247769





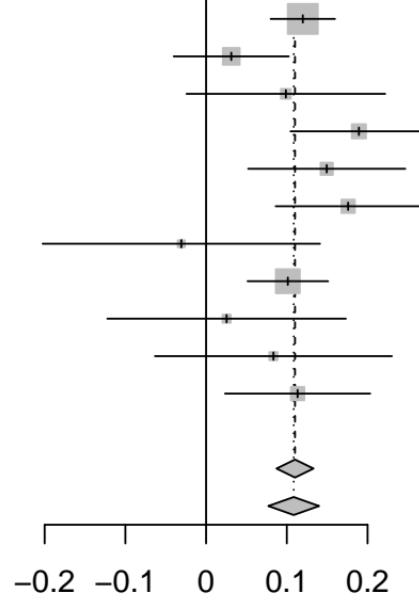
### OSM [chr17:38137033\_A\_G (rs3859189) (A/G) N=14729]

#### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (441)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

TE seTE

0.12 0.0204  
0.03 0.0364  
0.10 0.0628  
0.19 0.0433  
0.15 0.0497  
0.18 0.0458  
-0.03 0.0877  
0.10 0.0255  
0.03 0.0754  
0.08 0.0749  
0.11 0.0459

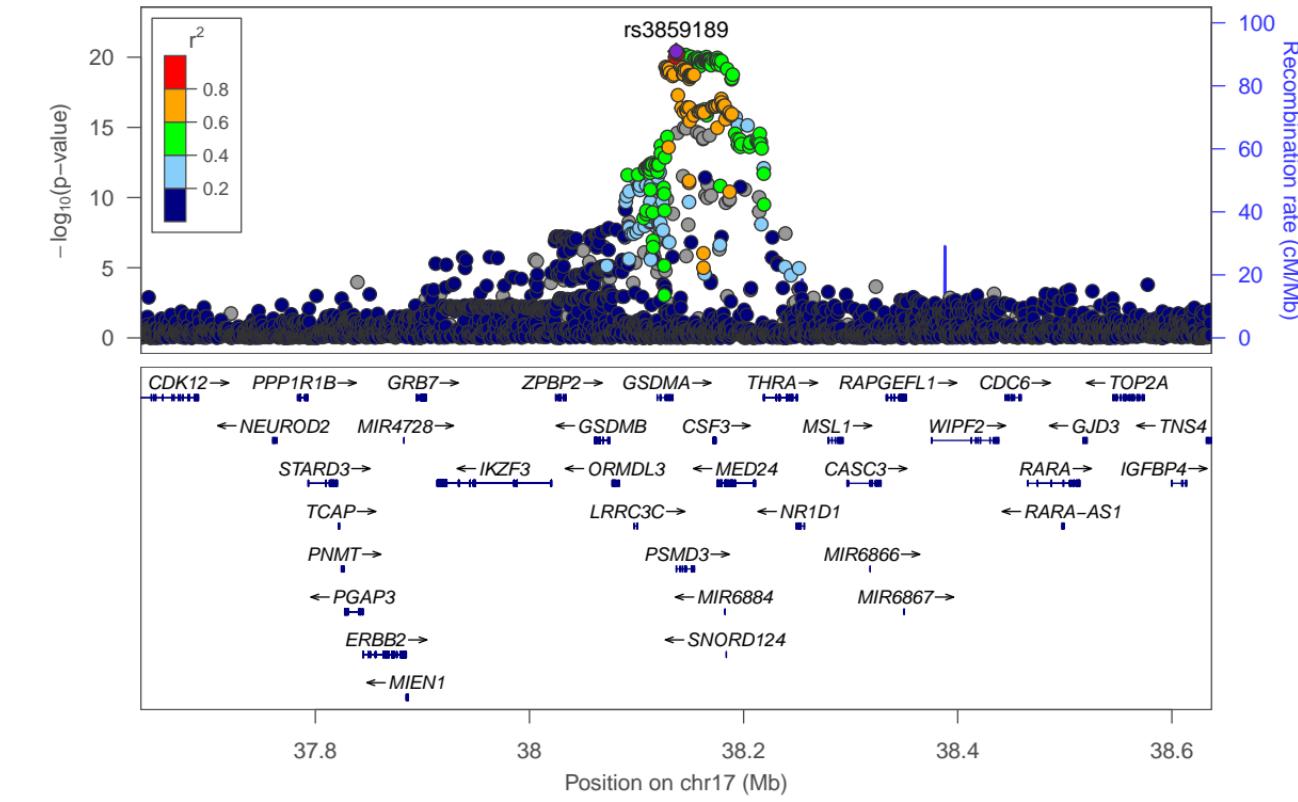


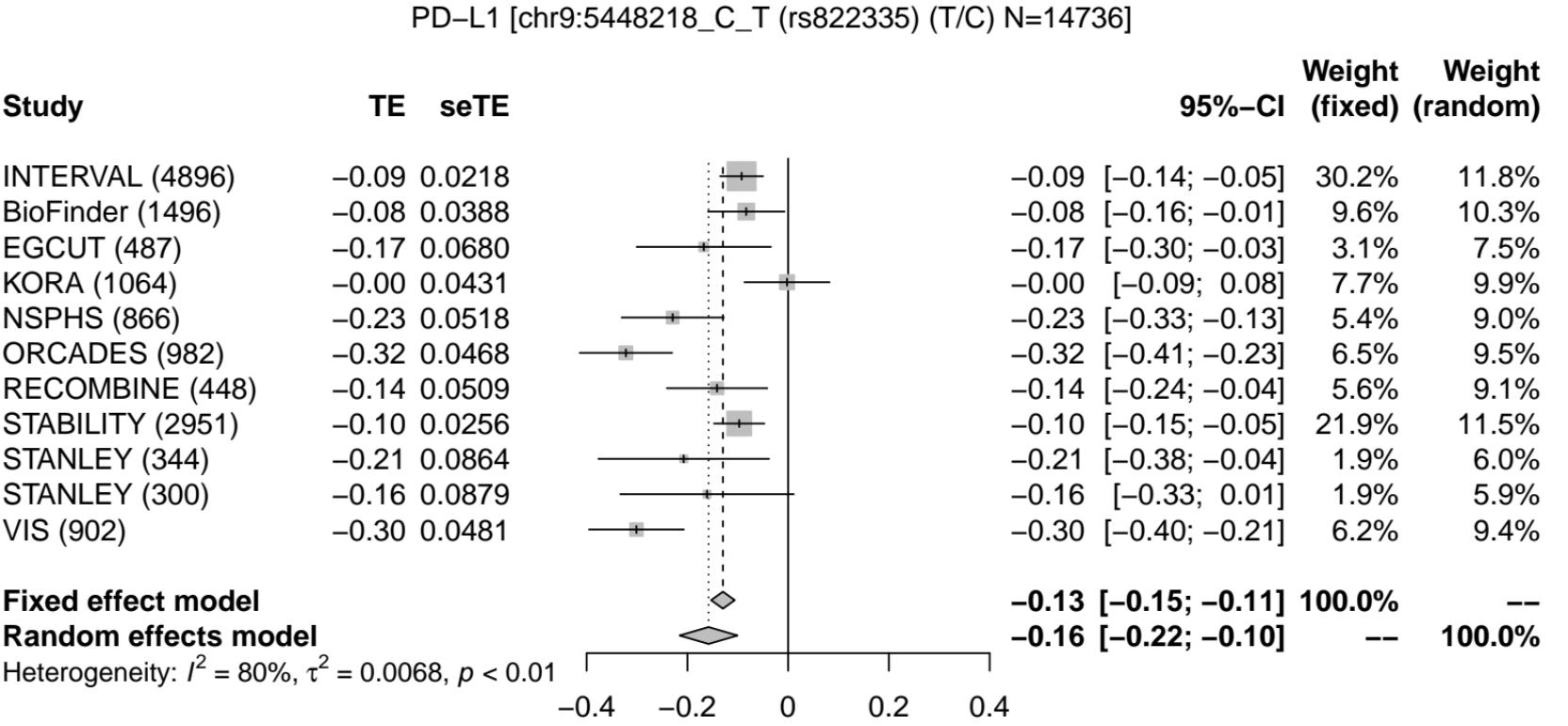
Weight  
95%-CI  
(fixed) (random)

	95%-CI	Weight (fixed)	Weight (random)
INTERVAL (4896)	0.12 [ 0.08; 0.16]	32.9%	20.3%
BioFinder (1496)	0.03 [-0.04; 0.10]	10.3%	11.8%
EGCUT (487)	0.10 [-0.02; 0.22]	3.5%	5.4%
KORA (1064)	0.19 [ 0.10; 0.27]	7.3%	9.4%
NSPHS (866)	0.15 [ 0.05; 0.25]	5.5%	7.7%
ORCADES (982)	0.18 [ 0.09; 0.27]	6.5%	8.7%
RECOMBINE (441)	-0.03 [-0.20; 0.14]	1.8%	3.0%
STABILITY (2951)	0.10 [ 0.05; 0.15]	21.0%	17.1%
STANLEY (344)	0.03 [-0.12; 0.17]	2.4%	3.9%
STANLEY (300)	0.08 [-0.06; 0.23]	2.4%	4.0%
VIS (902)	0.11 [ 0.02; 0.20]	6.5%	8.7%
<b>Fixed effect model</b>	<b>0.11 [ 0.09; 0.13]</b>	<b>100.0%</b>	--
<b>Random effects model</b>	<b>0.11 [ 0.08; 0.14]</b>	--	<b>100.0%</b>

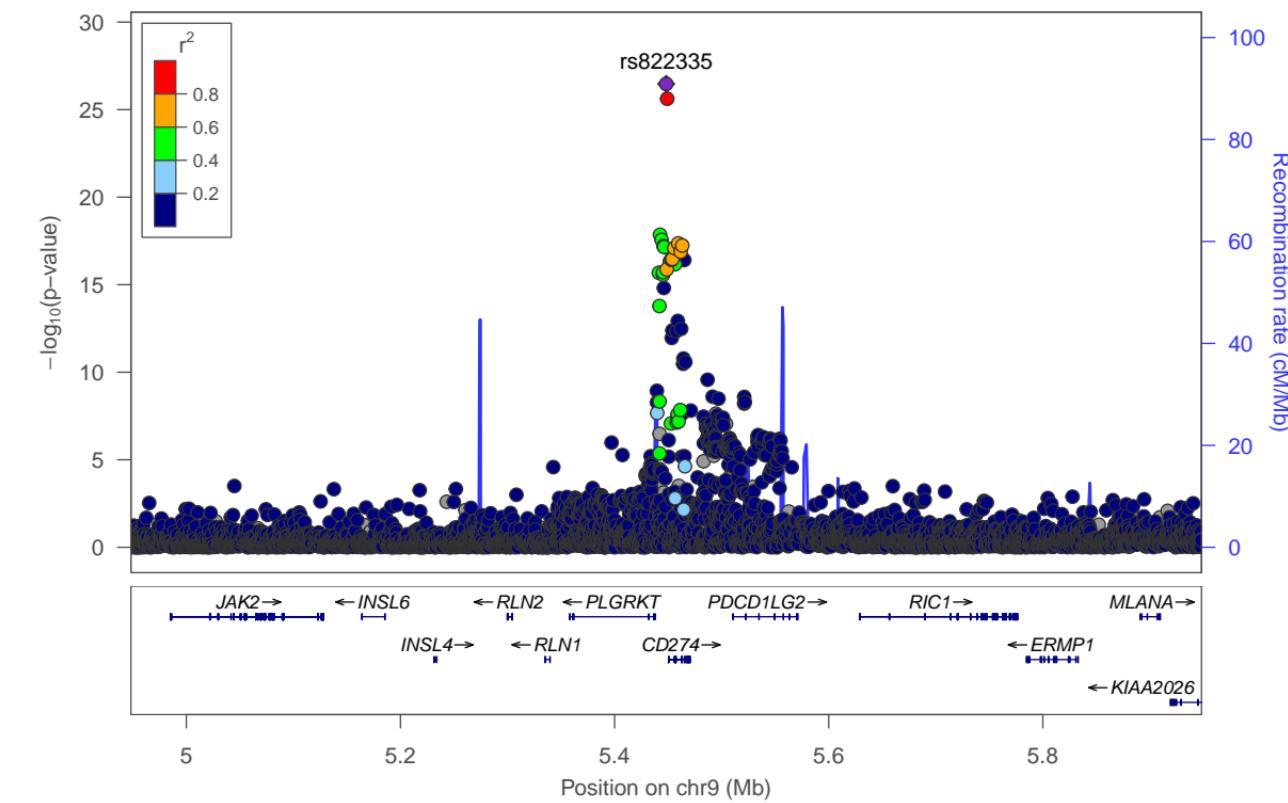
Heterogeneity:  $I^2 = 34\%$ ,  $\tau^2 = 0.0009$ ,  $p = 0.13$

### OSM (OSM)-rs3859189

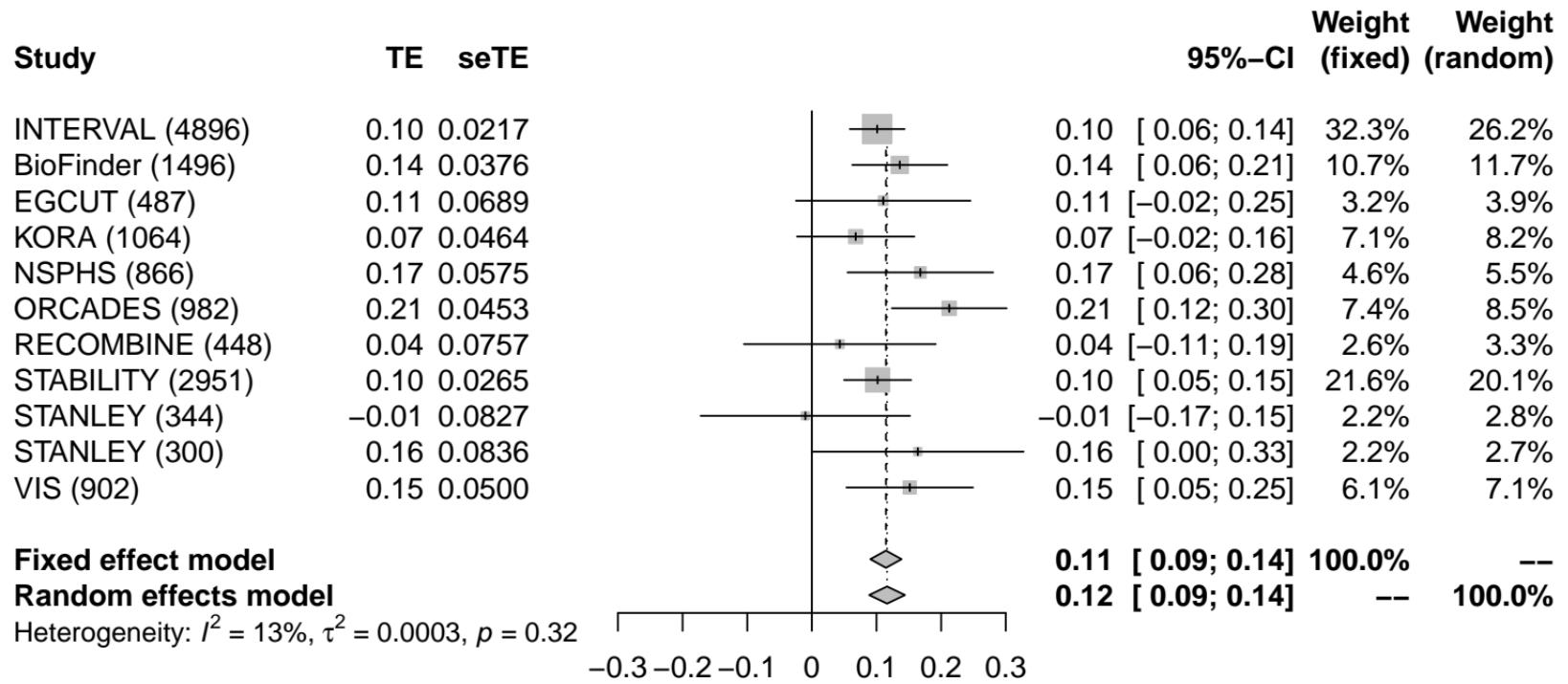




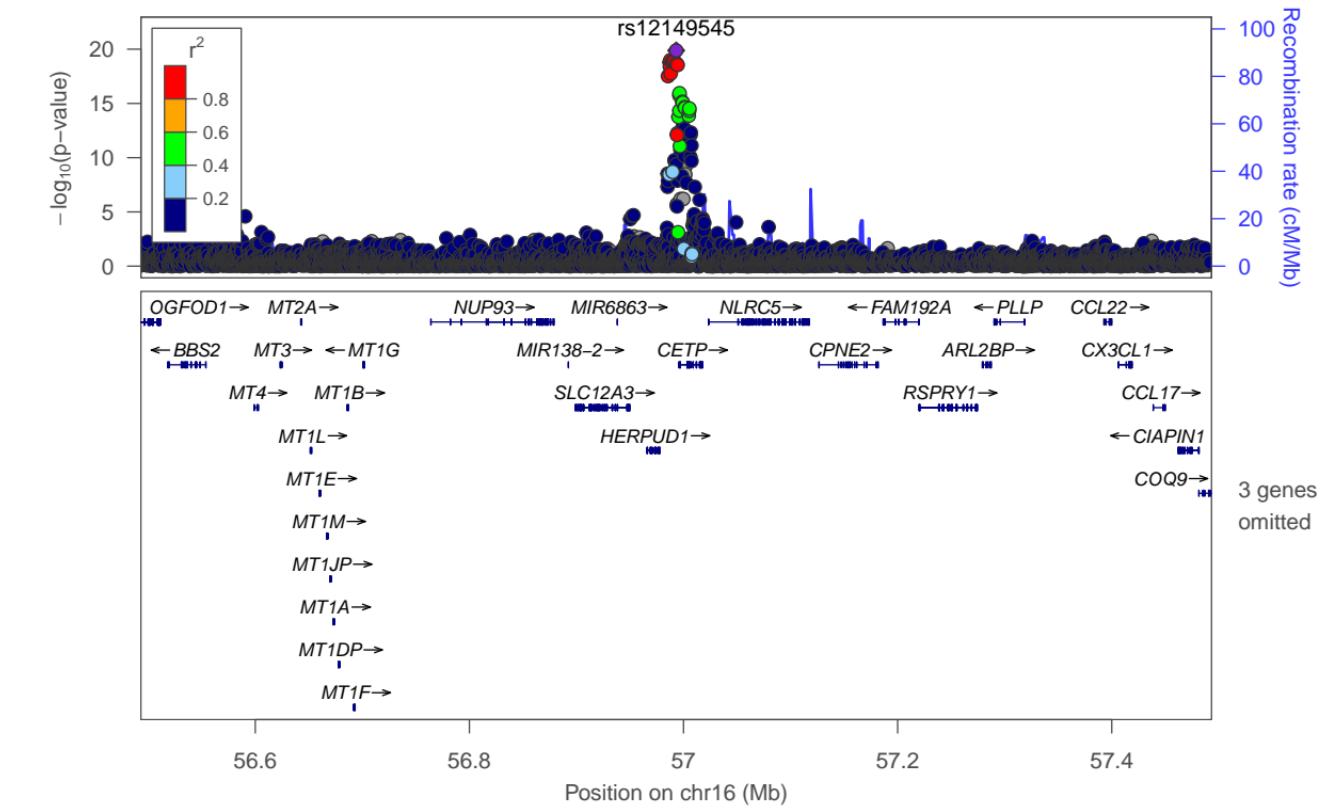
## PD-L1 (CD274)-rs822335



### SCF [chr16:56993161\_A\_G (rs12149545) (A/G) N=14736]



### SCF (KITLG)-rs12149545



**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (448)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

TE seTE

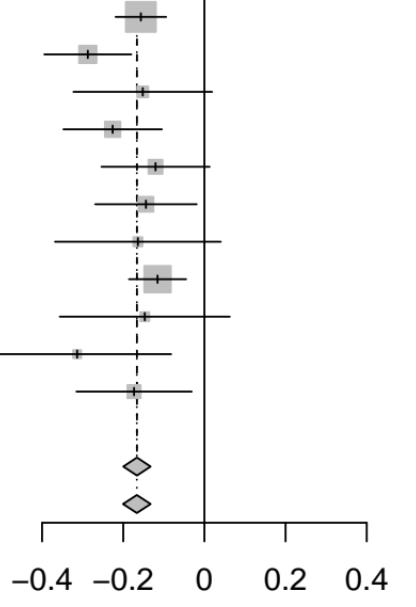
-0.16 0.0318  
-0.29 0.0547  
-0.15 0.0872  
-0.23 0.0619  
-0.12 0.0680  
-0.14 0.0638  
-0.16 0.1042  
-0.12 0.0359  
-0.15 0.1069  
-0.31 0.1182  
-0.17 0.0725

SCF [chr16:67940350\_A\_G (rs55781197) (A/G) N=14736]

**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 1\%$ ,  $\tau^2 < 0.0001$ ,  $p = 0.43$

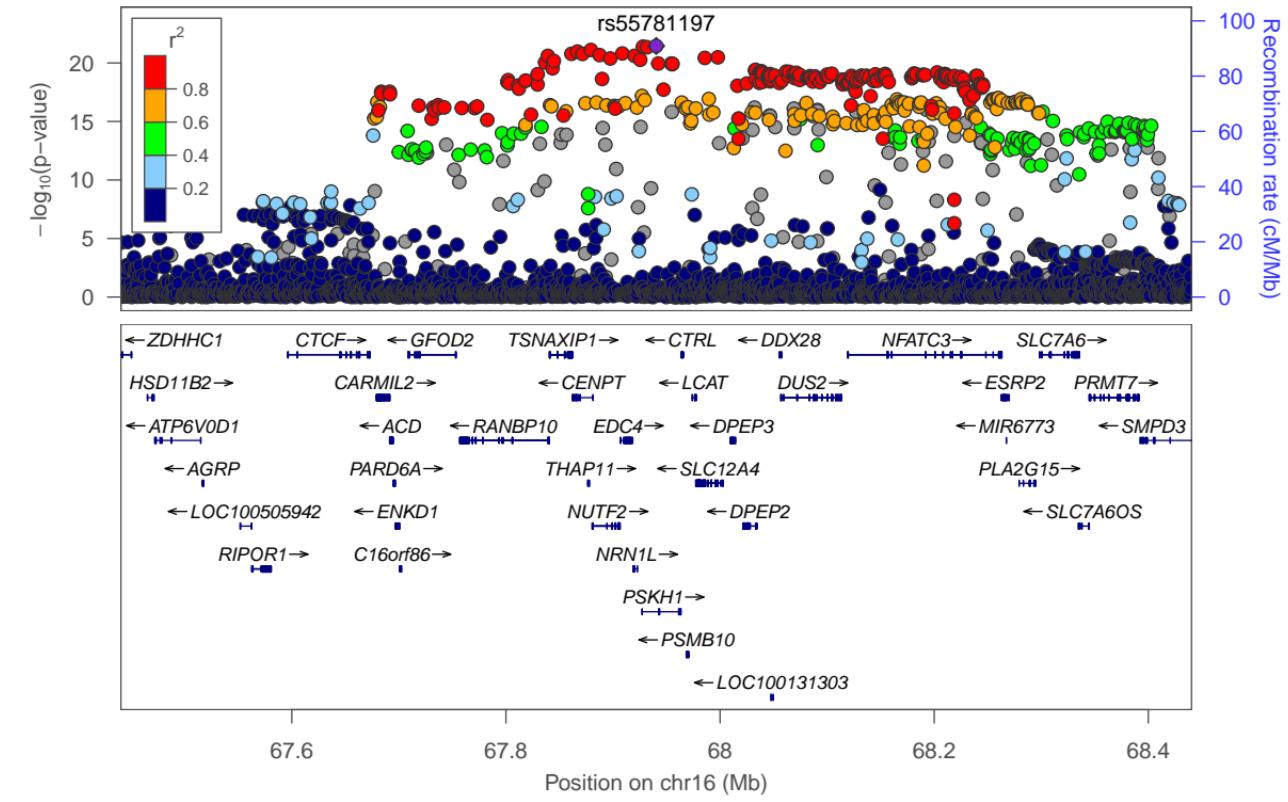


95%-CI Weight (fixed) Weight (random)

-0.16 [-0.22; -0.09] 29.2% 28.7%  
-0.29 [-0.39; -0.18] 9.8% 9.9%  
-0.15 [-0.32; 0.02] 3.9% 3.9%  
-0.23 [-0.35; -0.10] 7.7% 7.8%  
-0.12 [-0.25; 0.01] 6.4% 6.5%  
-0.14 [-0.27; -0.02] 7.2% 7.3%  
-0.16 [-0.37; 0.04] 2.7% 2.8%  
-0.12 [-0.19; -0.05] 22.8% 22.6%  
-0.15 [-0.36; 0.06] 2.6% 2.6%  
-0.31 [-0.55; -0.08] 2.1% 2.2%  
-0.17 [-0.32; -0.03] 5.6% 5.7%

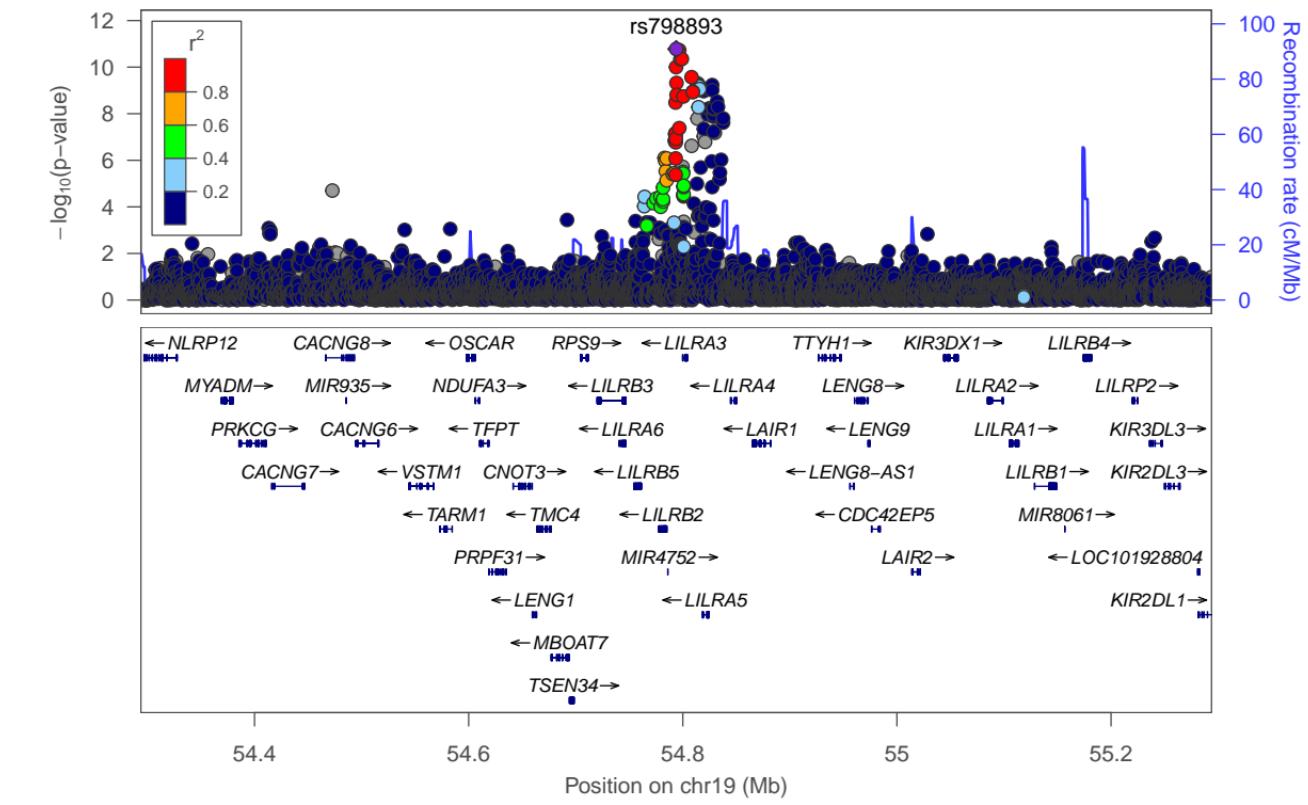
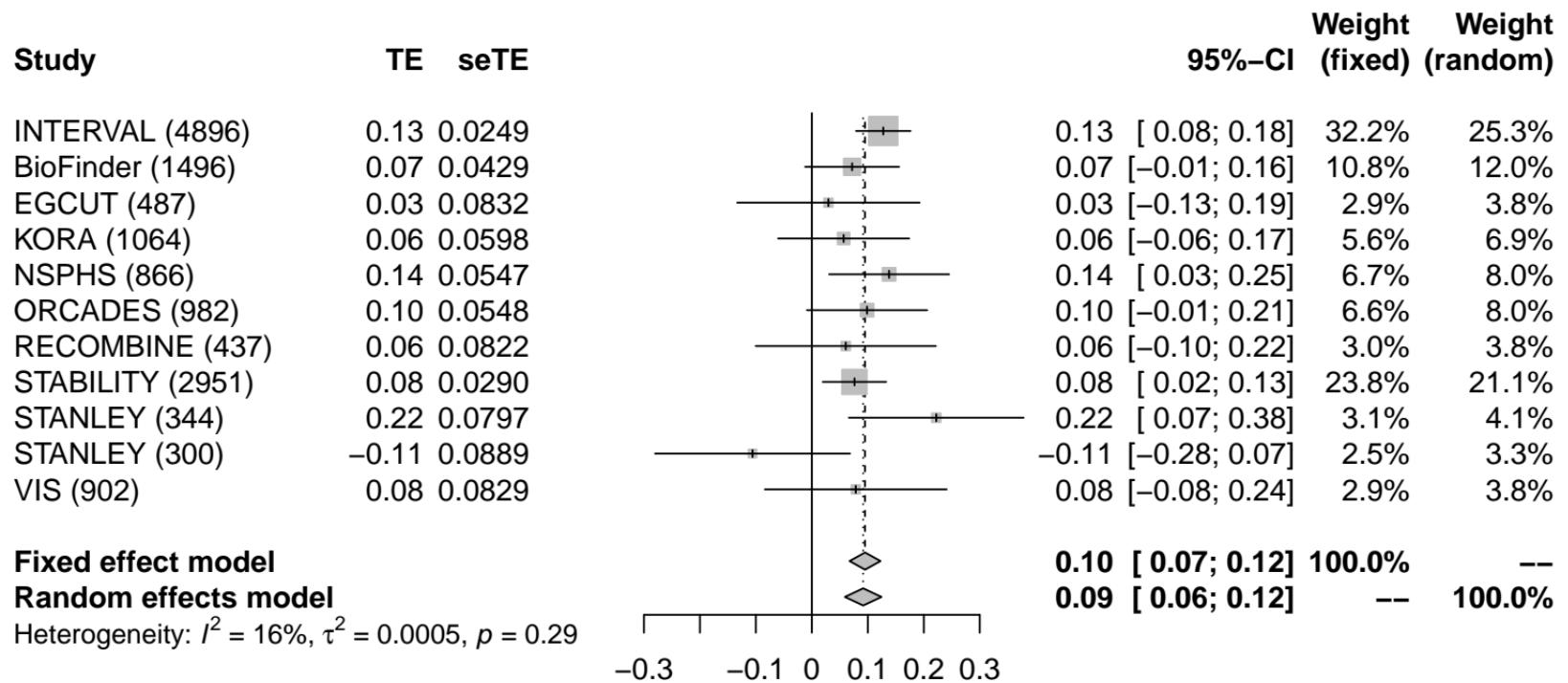
**-0.17 [-0.20; -0.13] 100.0%**  
**-0.17 [-0.20; -0.13] -- 100.0%**

SCF (KITLG)-rs55781197



# SCF (KITLG)-rs798893

SCF [chr19:54793830\_C\_G (rs798893) (C/G) N=14725]



**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (442)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

**SCF [chr20:44551855\_C\_T (rs6073958) (T/C) N=14730]****TE**

-0.36

-0.20

-0.33

-0.38

-0.38

-0.24

-0.27

-0.18

-0.20

-0.30

-0.21

0.0248

0.0450

0.0743

0.0545

0.0619

0.0580

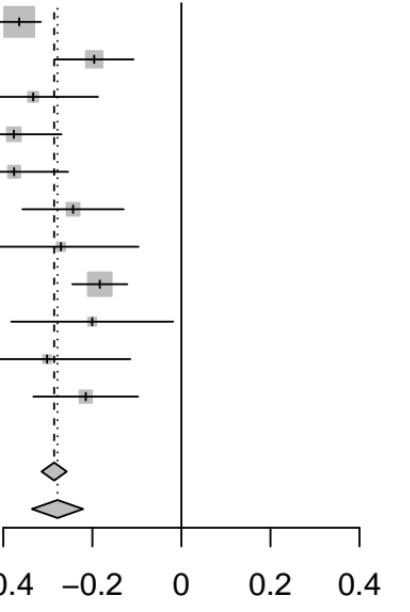
0.0888

0.0315

0.0928

0.0954

0.0601

**95%-CI**

-0.36 [-0.41; -0.32]

-0.20 [-0.28; -0.11]

-0.33 [-0.48; -0.19]

-0.38 [-0.48; -0.27]

-0.38 [-0.50; -0.25]

-0.24 [-0.36; -0.13]

-0.27 [-0.44; -0.10]

-0.18 [-0.25; -0.12]

-0.20 [-0.38; -0.02]

-0.30 [-0.49; -0.11]

-0.21 [-0.33; -0.10]

33.6%

10.2%

3.7%

7.0%

5.4%

6.2%

2.6%

20.8%

2.4%

2.3%

5.7%

13.4%

11.0%

7.6%

9.8%

8.9%

9.4%

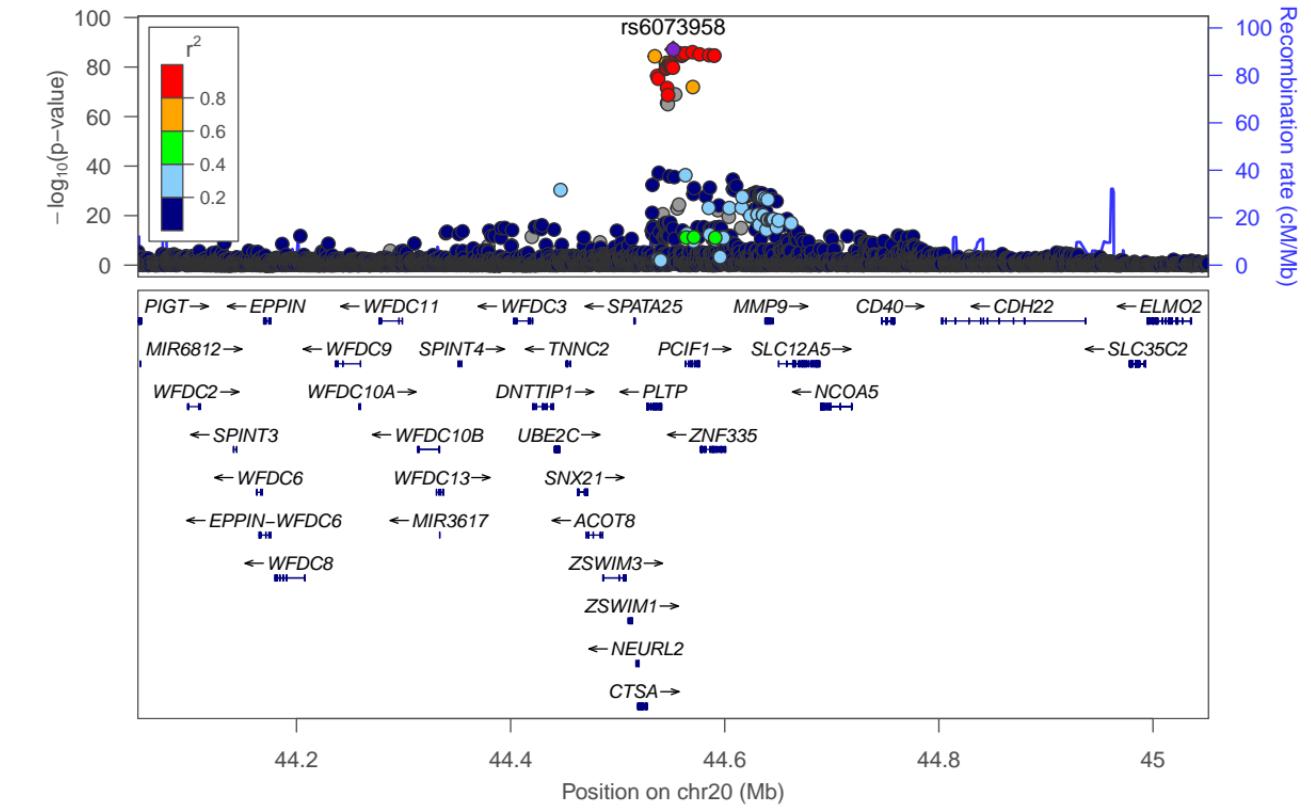
6.3%

12.7%

6.0%

5.8%

9.1%

**-0.29 [-0.31; -0.26]****100.0%****-0.28 [-0.34; -0.22]****--****--****--****100.0%****Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 69\%$ ,  $\tau^2 = 0.0058$ ,  $p < 0.01$ **SCF (KITLG)-rs6073958**

# SCF (KITLG)-rs705379

SCF [chr7:94953895\_A\_G (rs705379) (A/G) N=14288]

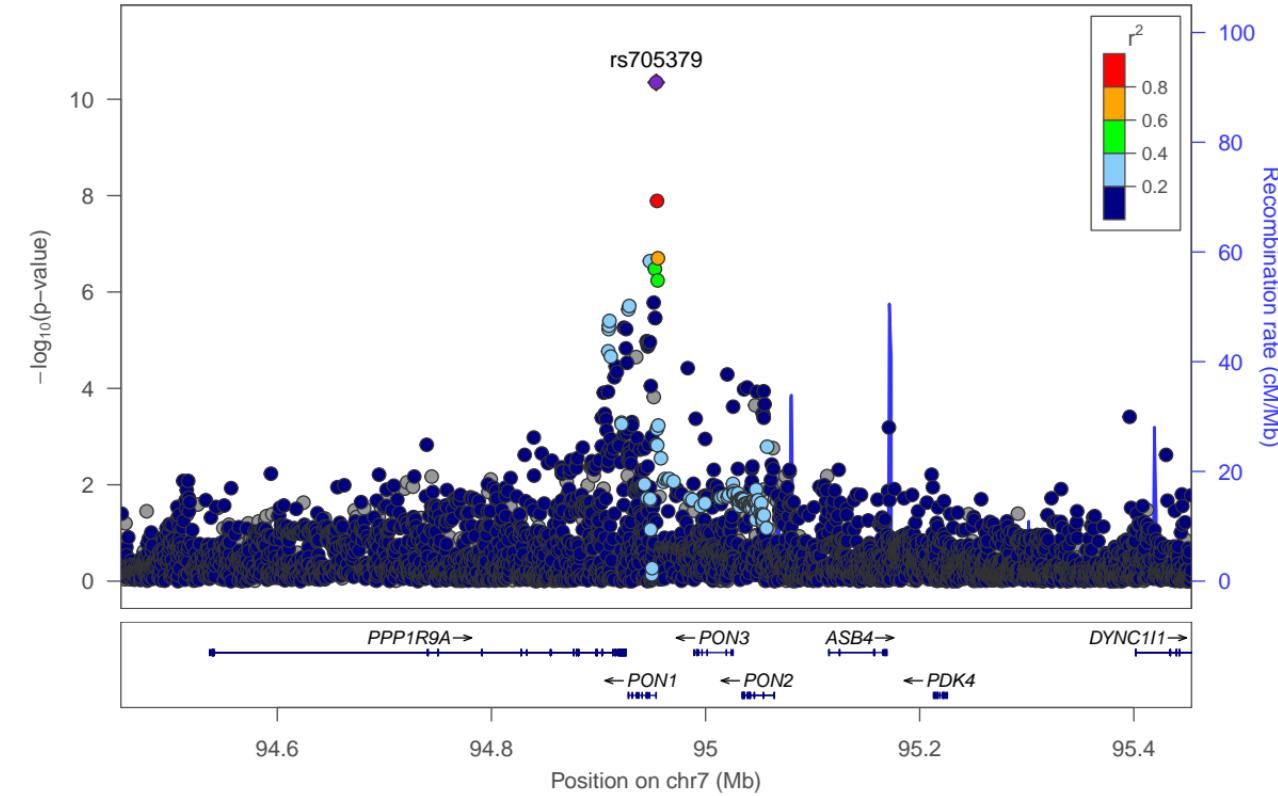
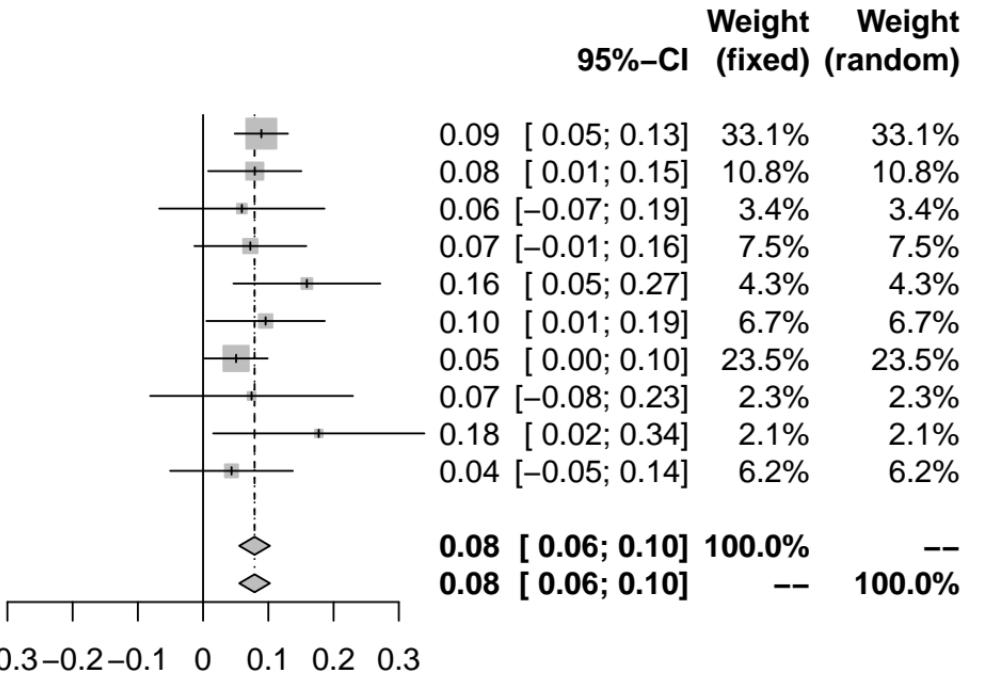
## Study

	TE	seTE
INTERVAL (4896)	0.09	0.0208
BioFinder (1496)	0.08	0.0364
EGCUT (487)	0.06	0.0646
KORA (1064)	0.07	0.0438
NSPHS (866)	0.16	0.0575
ORCADES (982)	0.10	0.0463
STABILITY (2951)	0.05	0.0247
STANLEY (344)	0.07	0.0793
STANLEY (300)	0.18	0.0826
VIS (902)	0.04	0.0480

Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.77$



SCF [chr9:107661742\_A\_C (rs2740488) (A/C) N=14732]

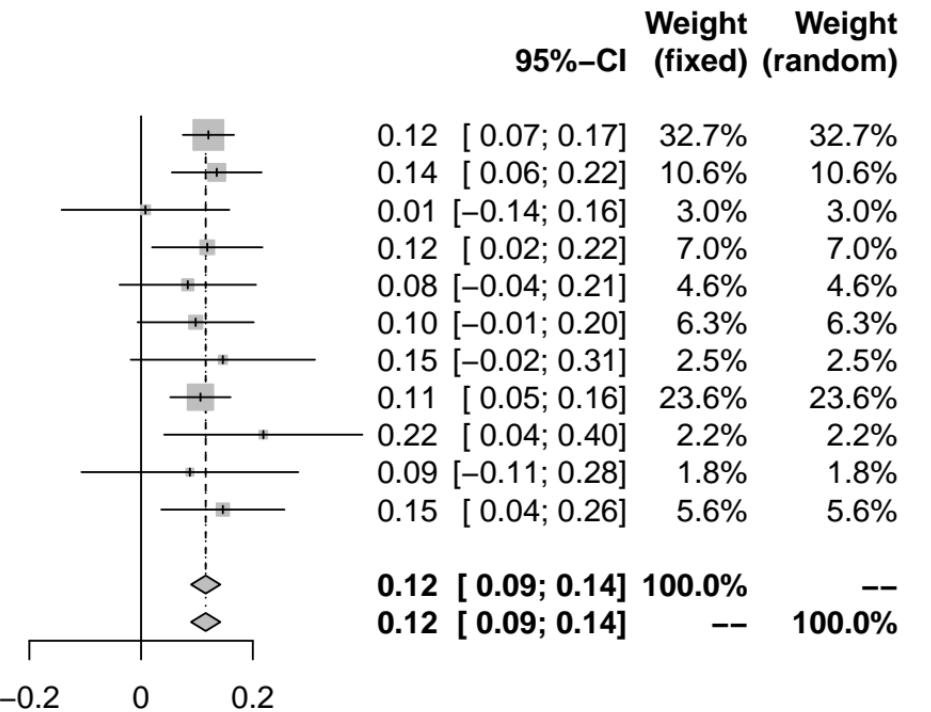
**Study**

	TE	seTE
INTERVAL (4896)	0.12	0.0234
BioFinder (1496)	0.14	0.0410
EGCUT (487)	0.01	0.0766
KORA (1064)	0.12	0.0503
NSPHS (866)	0.08	0.0623
ORCADES (982)	0.10	0.0530
RECOMBINE (444)	0.15	0.0841
STABILITY (2951)	0.11	0.0275
STANLEY (344)	0.22	0.0905
STANLEY (300)	0.09	0.0990
VIS (902)	0.15	0.0562

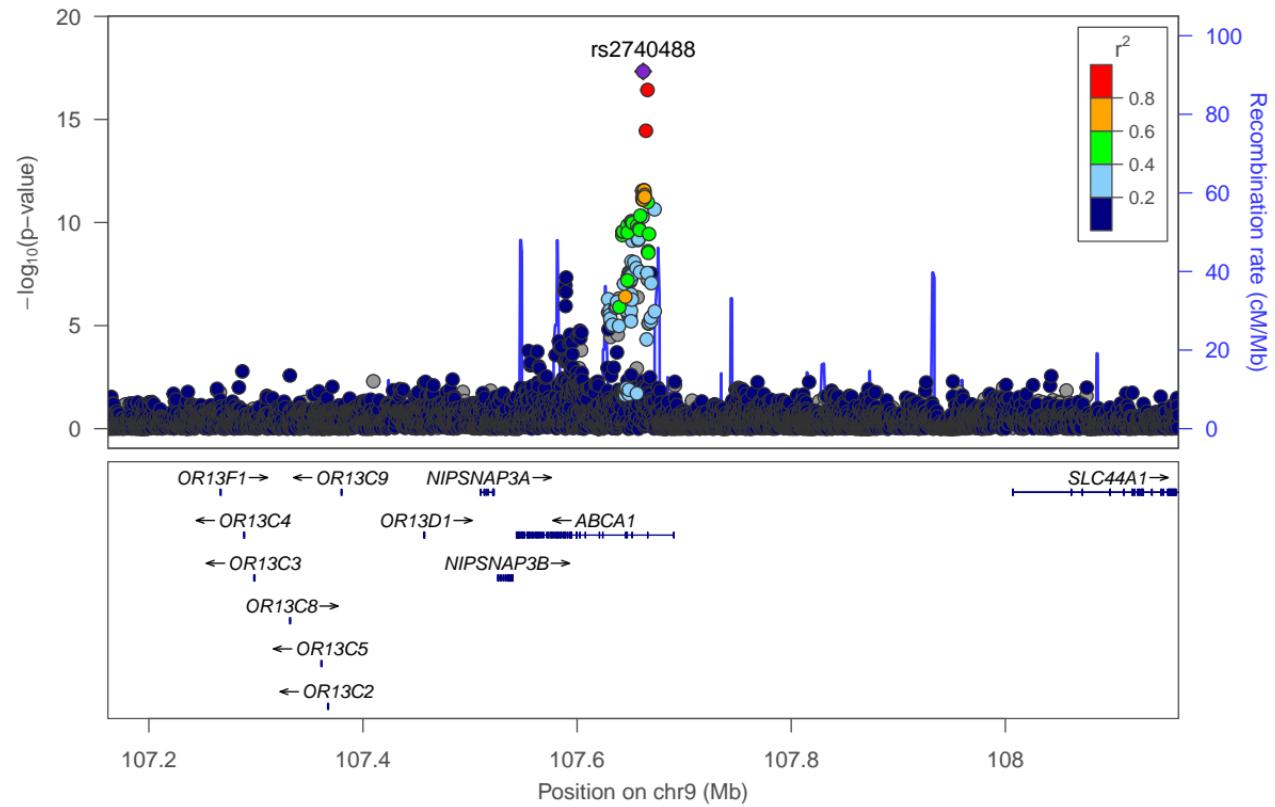
**Fixed effect model**

**Random effects model**

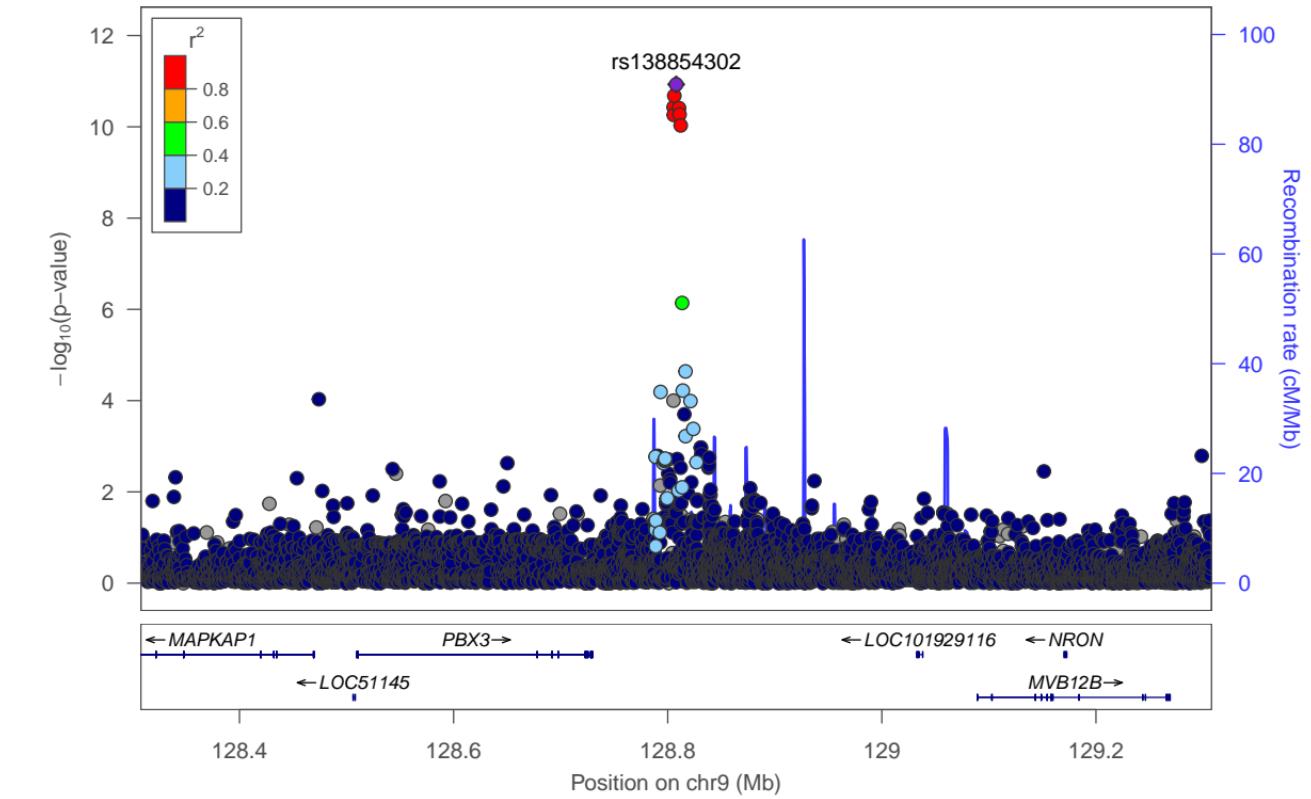
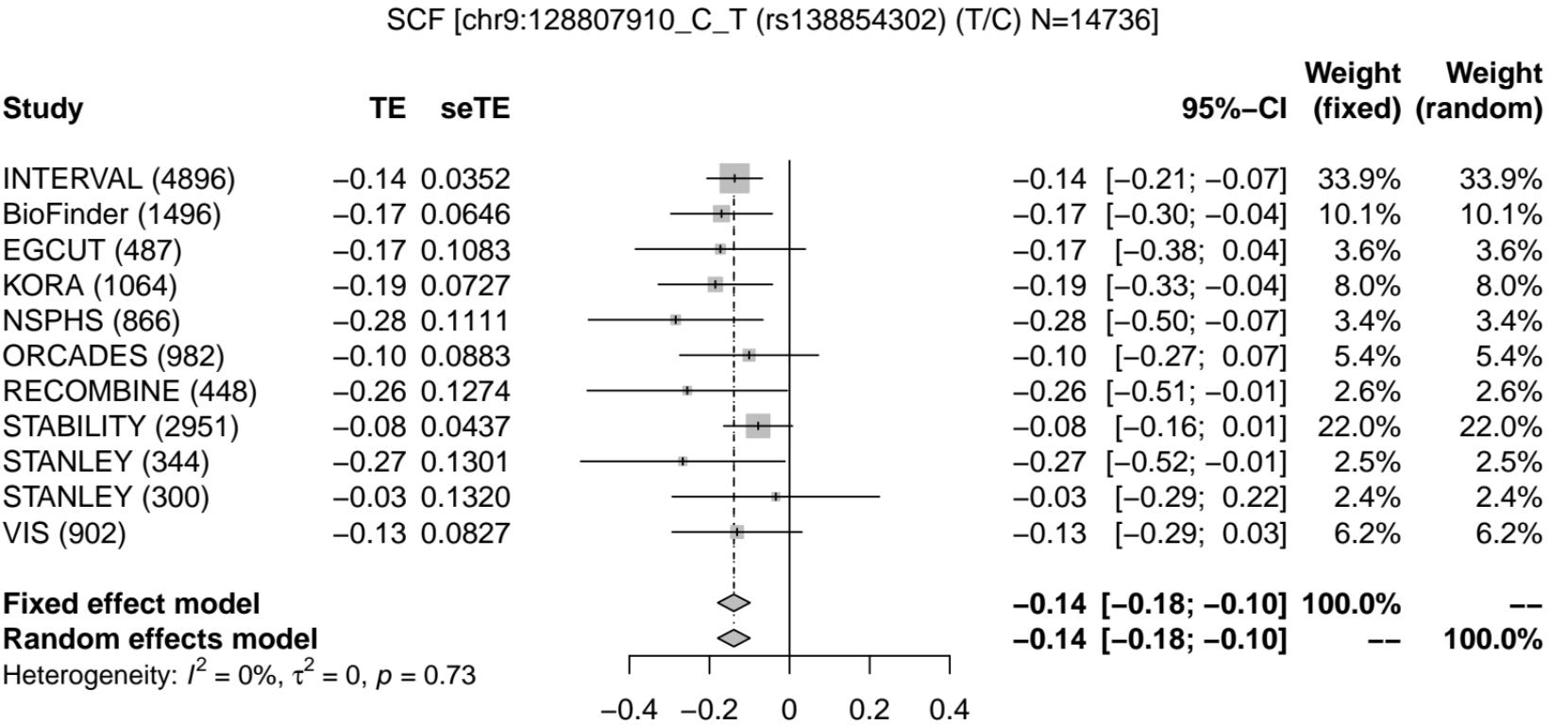
Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.92$



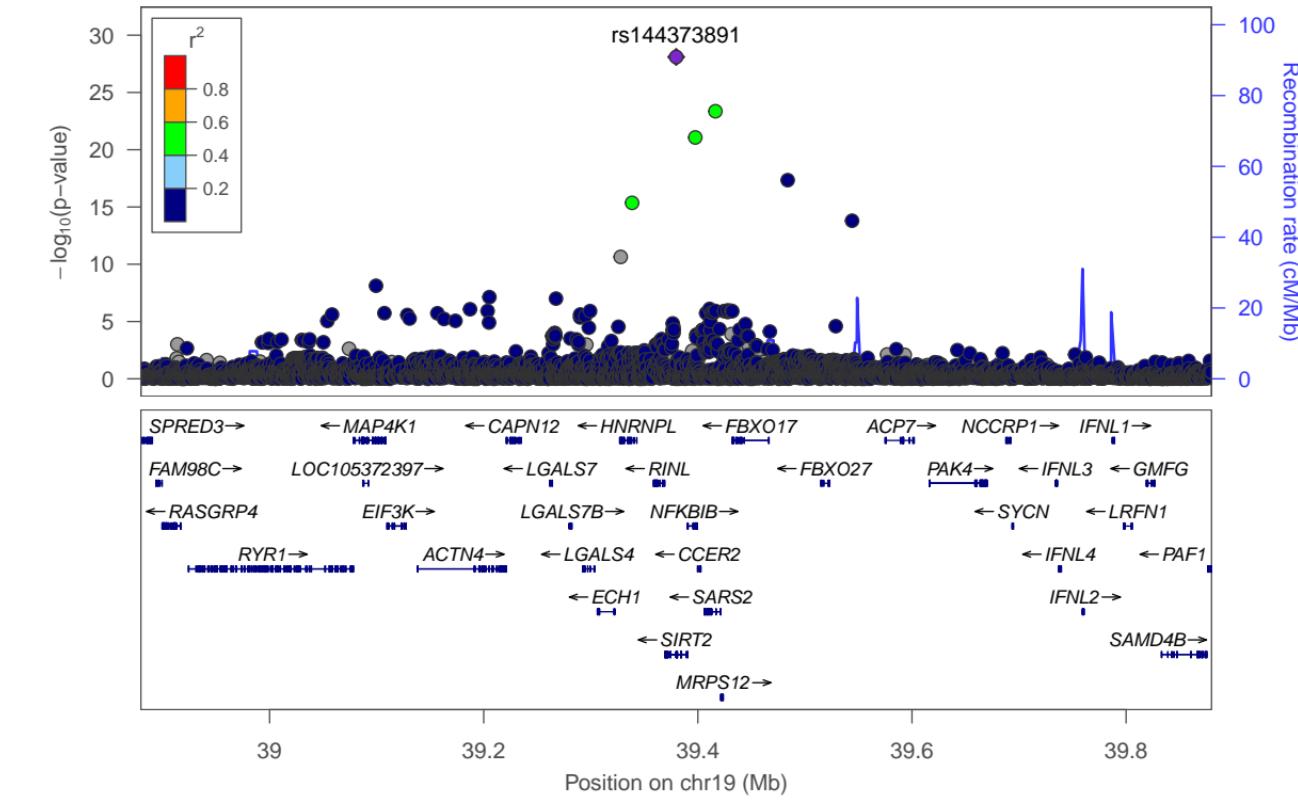
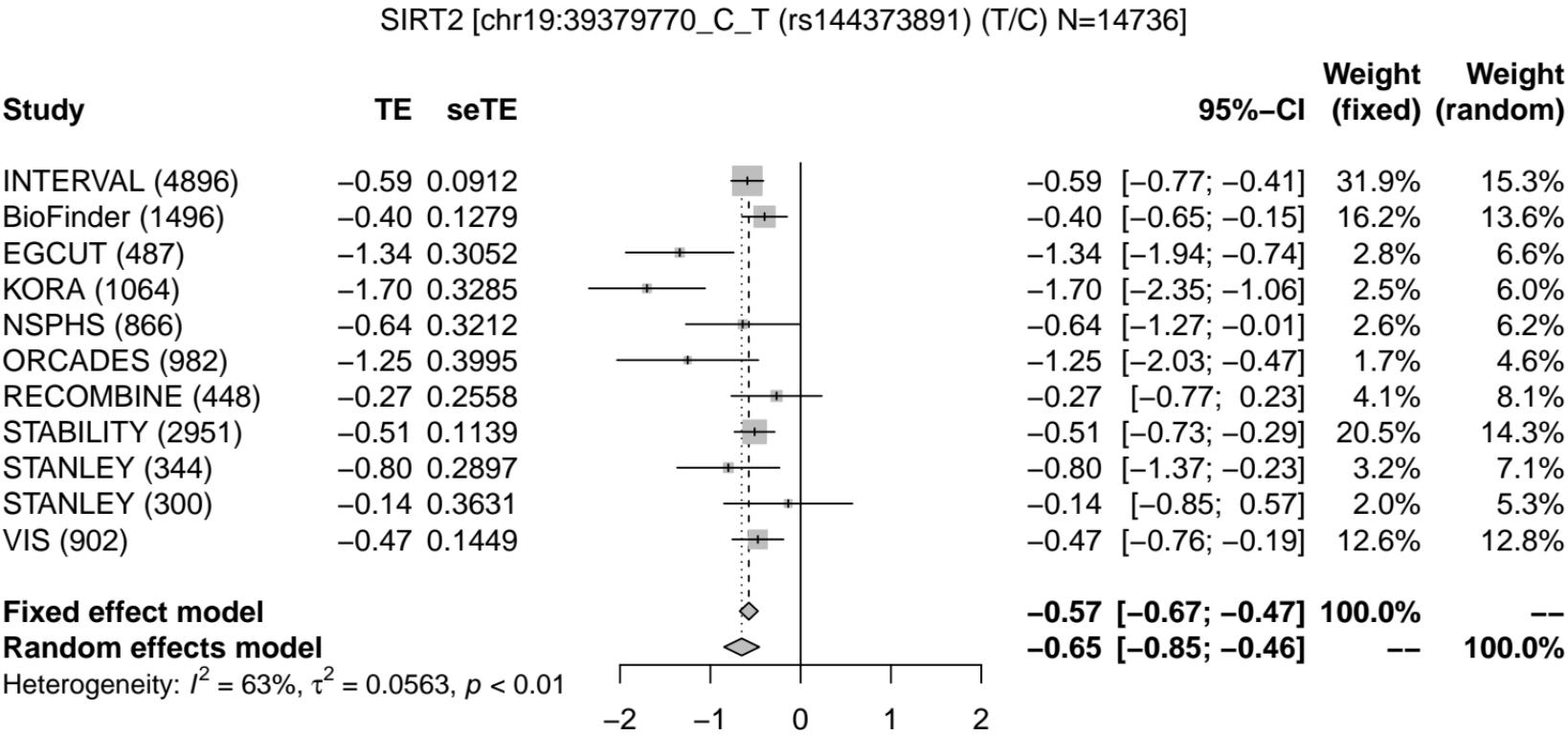
SCF (KITLG)-rs2740488



# SCF (KITLG)-rs138854302



## SIRT2 (SIRT2)-rs144373891



SLAMF1 [chr1:160636559\_C\_T (rs60094514) (T/C) N=14733]

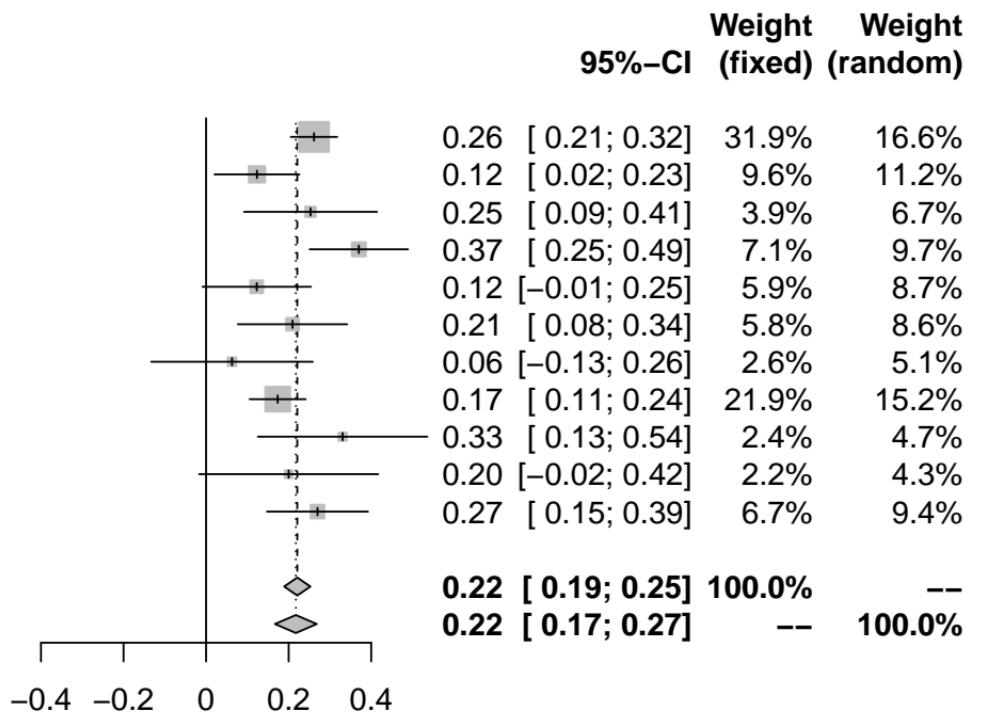
**Study**

	TE	seTE
INTERVAL (4896)	0.26	0.0287
BioFinder (1496)	0.12	0.0525
EGCUT (487)	0.25	0.0822
KORA (1064)	0.37	0.0608
NSPHS (866)	0.12	0.0670
ORCADES (982)	0.21	0.0676
RECOMBINE (447)	0.06	0.0999
STABILITY (2951)	0.17	0.0347
STANLEY (344)	0.33	0.1048
STANLEY (300)	0.20	0.1107
VIS (900)	0.27	0.0625

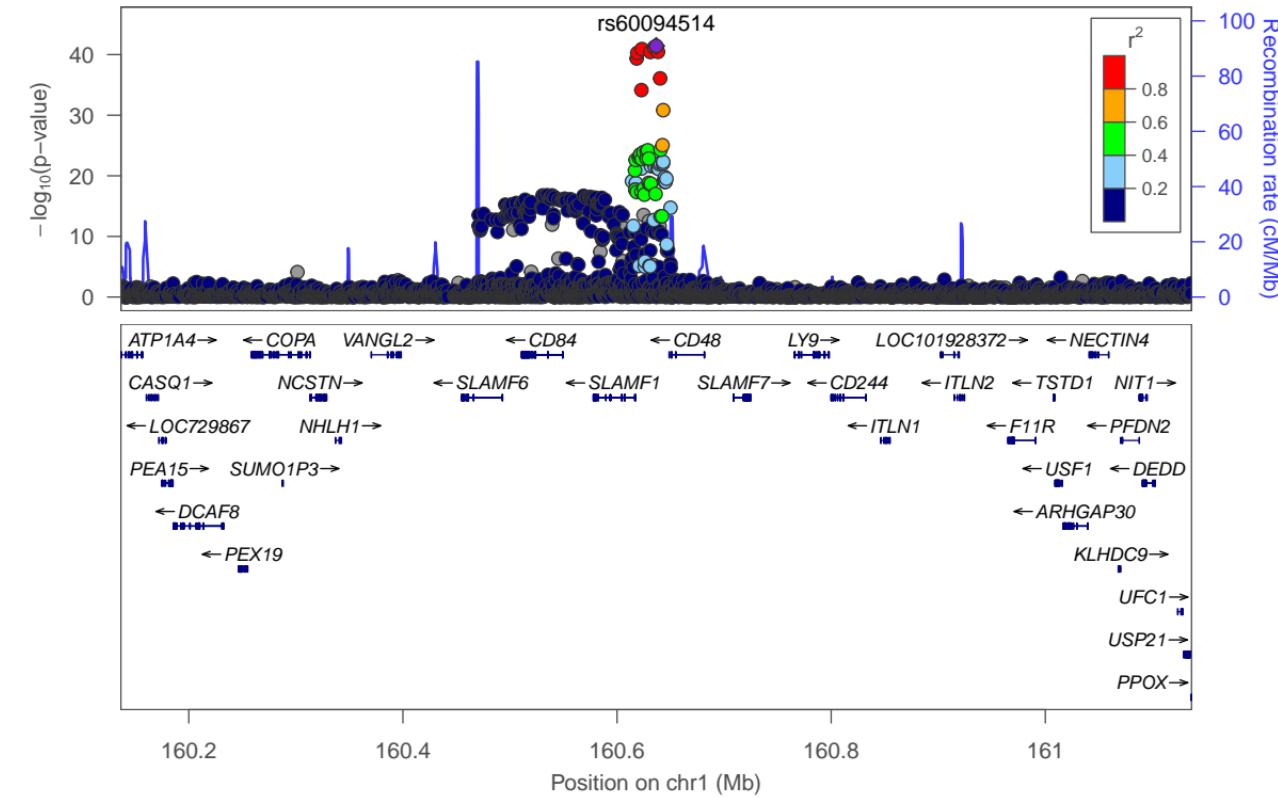
**Fixed effect model**

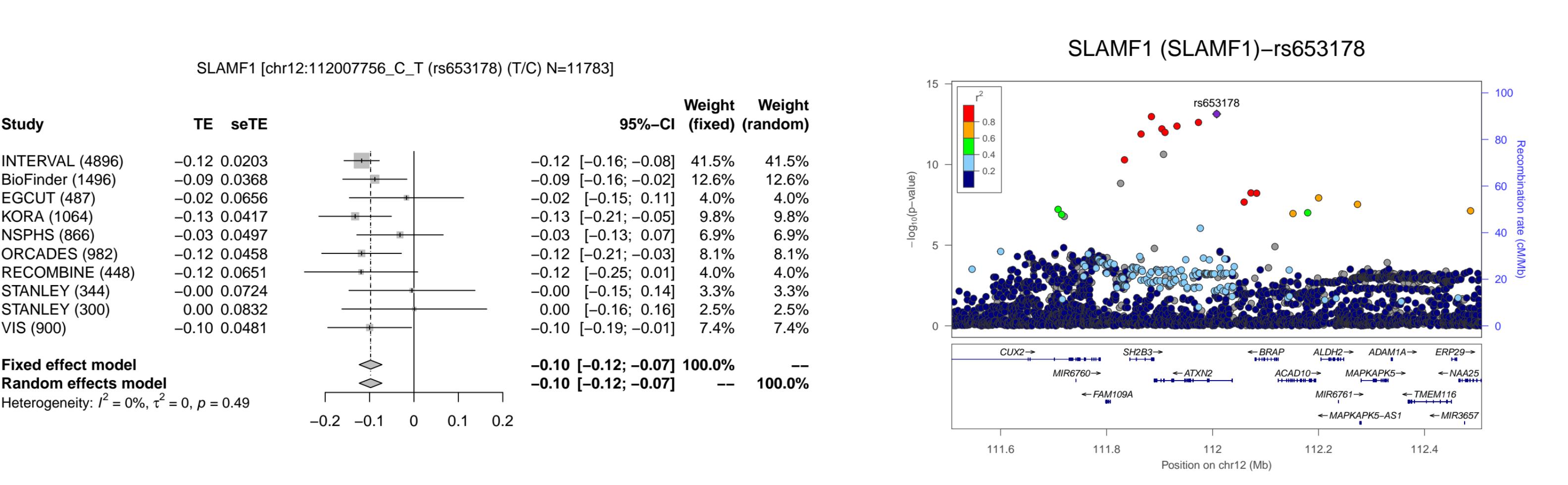
**Random effects model**

Heterogeneity:  $I^2 = 50\%$ ,  $\tau^2 = 0.0032$ ,  $p = 0.03$



# SLAMF1 (SLAMF1)-rs60094514





# SLAMF1 (SLAMF1)-rs200489612

SLAMF1 [chr17:7106378\_A\_G (rs200489612) (A/G) N=6778]

## Study

	TE	seTE
INTERVAL (4896)	0.72	0.1241
ORCADES (982)	1.16	0.4025
VIS (900)	0.93	0.4365

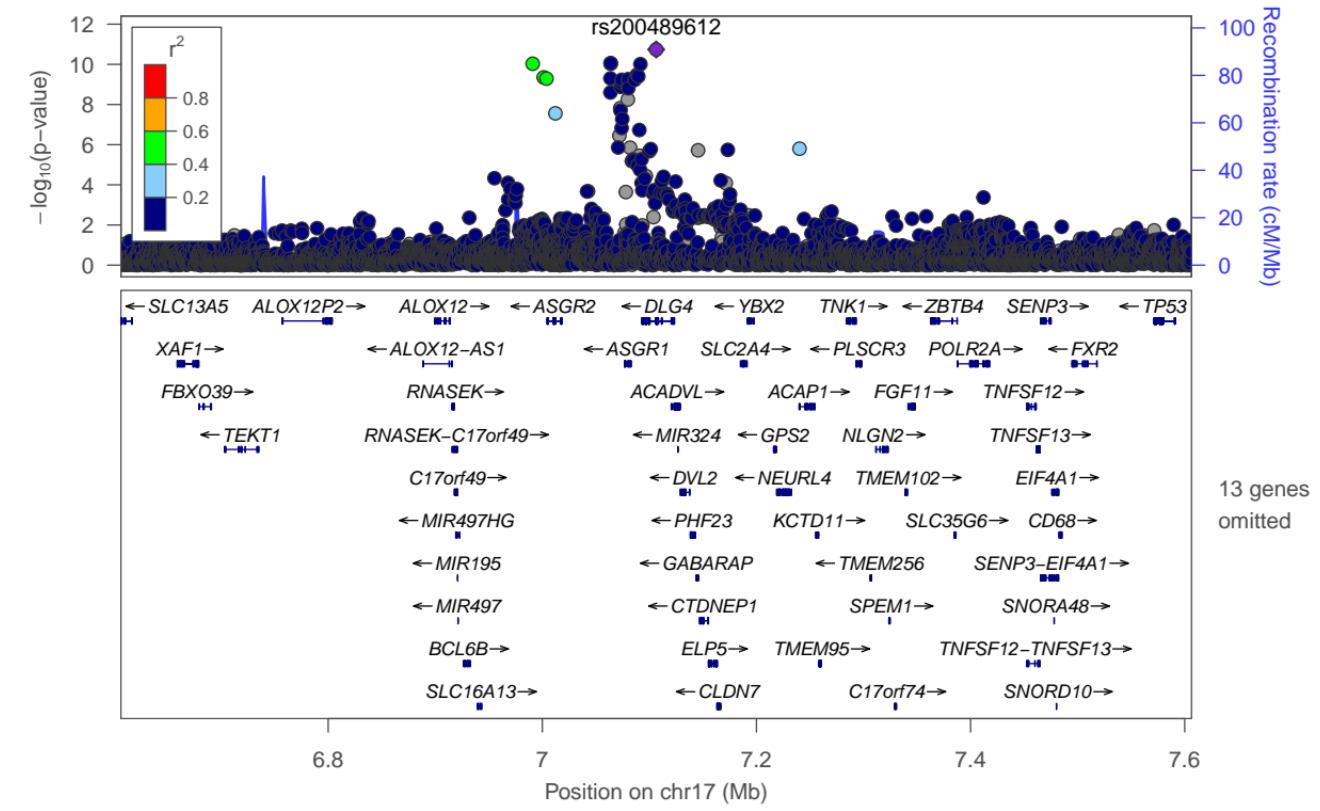
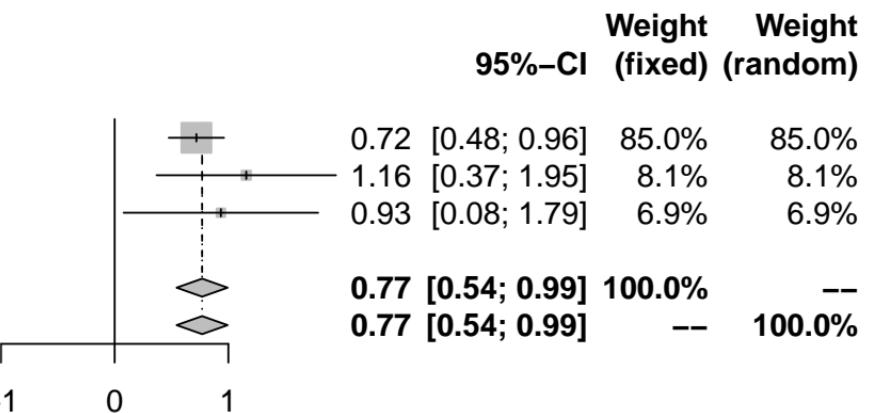
## Fixed effect model

## Random effects model

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.54$

TE

seTE



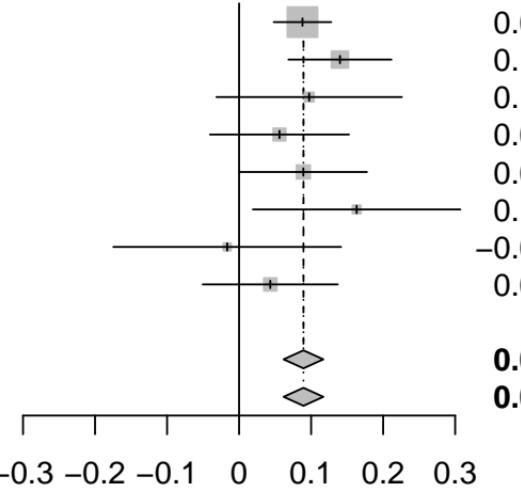
SLAMF1 [chr17:79220224\_C\_G (rs2725405) (C/G) N=10271]

**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
NSPHS (866)  
ORCADES (982)  
STANLEY (344)  
STANLEY (300)  
VIS (900)

TE seTE

0.09	0.0204
0.14	0.0365
0.10	0.0657
0.06	0.0493
0.09	0.0451
0.16	0.0735
-0.02	0.0807
0.04	0.0479



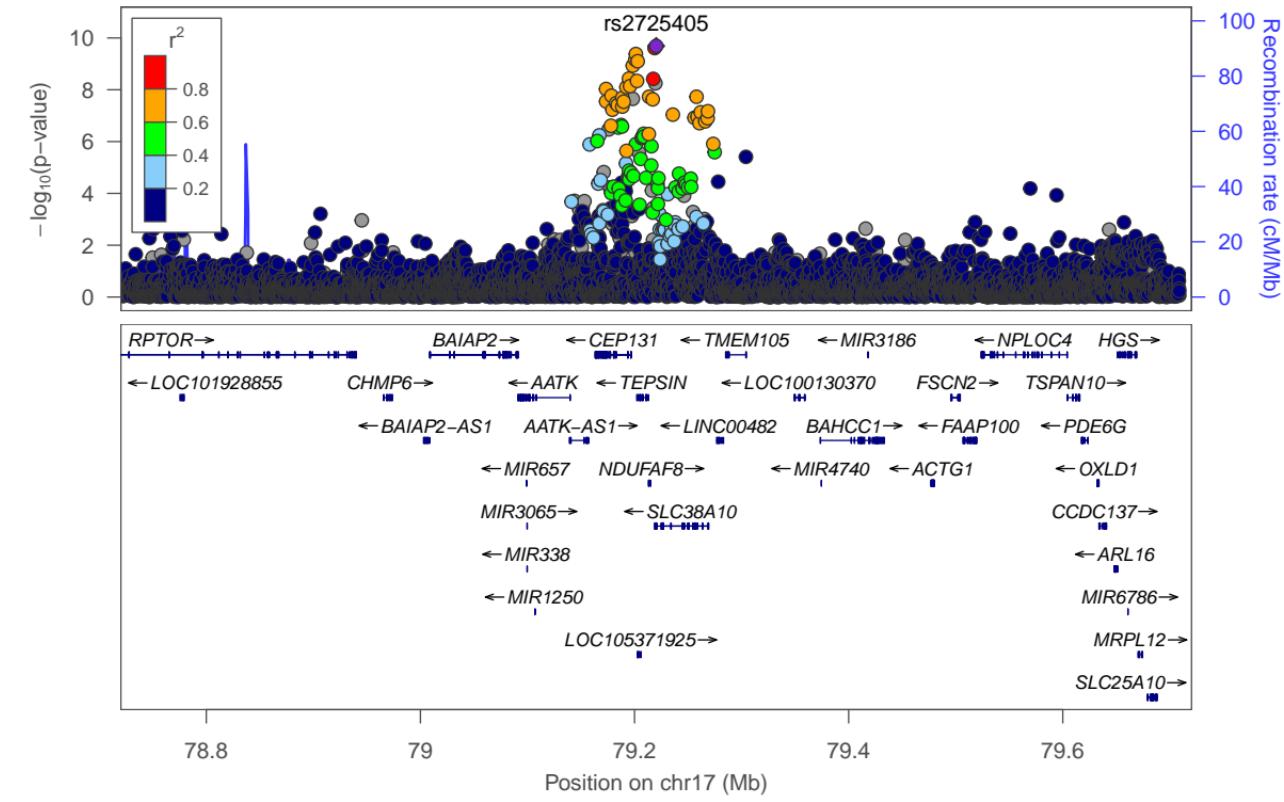
	95%-CI	Weight (fixed)	Weight (random)
0.09 [ 0.05; 0.13]	47.5%	47.5%	
0.14 [ 0.07; 0.21]	14.8%	14.8%	
0.10 [-0.03; 0.23]	4.6%	4.6%	
0.06 [-0.04; 0.15]	8.1%	8.1%	
0.09 [ 0.00; 0.18]	9.7%	9.7%	
0.16 [ 0.02; 0.31]	3.7%	3.7%	
-0.02 [-0.17; 0.14]	3.0%	3.0%	
0.04 [-0.05; 0.14]	8.6%	8.6%	
<b>0.09 [ 0.06; 0.12]</b>	<b>100.0%</b>	--	
<b>0.09 [ 0.06; 0.12]</b>	--	<b>100.0%</b>	

**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.53$

SLAMF1 (SLAMF1)-rs2725405



# SLAMF1 (SLAMF1)-rs570025519

SLAMF1 [chr5:95263427\_A\_G (rs570025519) (A/G) N=10894]

## Study

	TE	seTE
INTERVAL (4896)	0.13	0.0250
BioFinder (1496)	0.14	0.0419
EGCUT (487)	0.15	0.0856
KORA (1064)	0.14	0.0553
STABILITY (2951)	0.13	0.0305

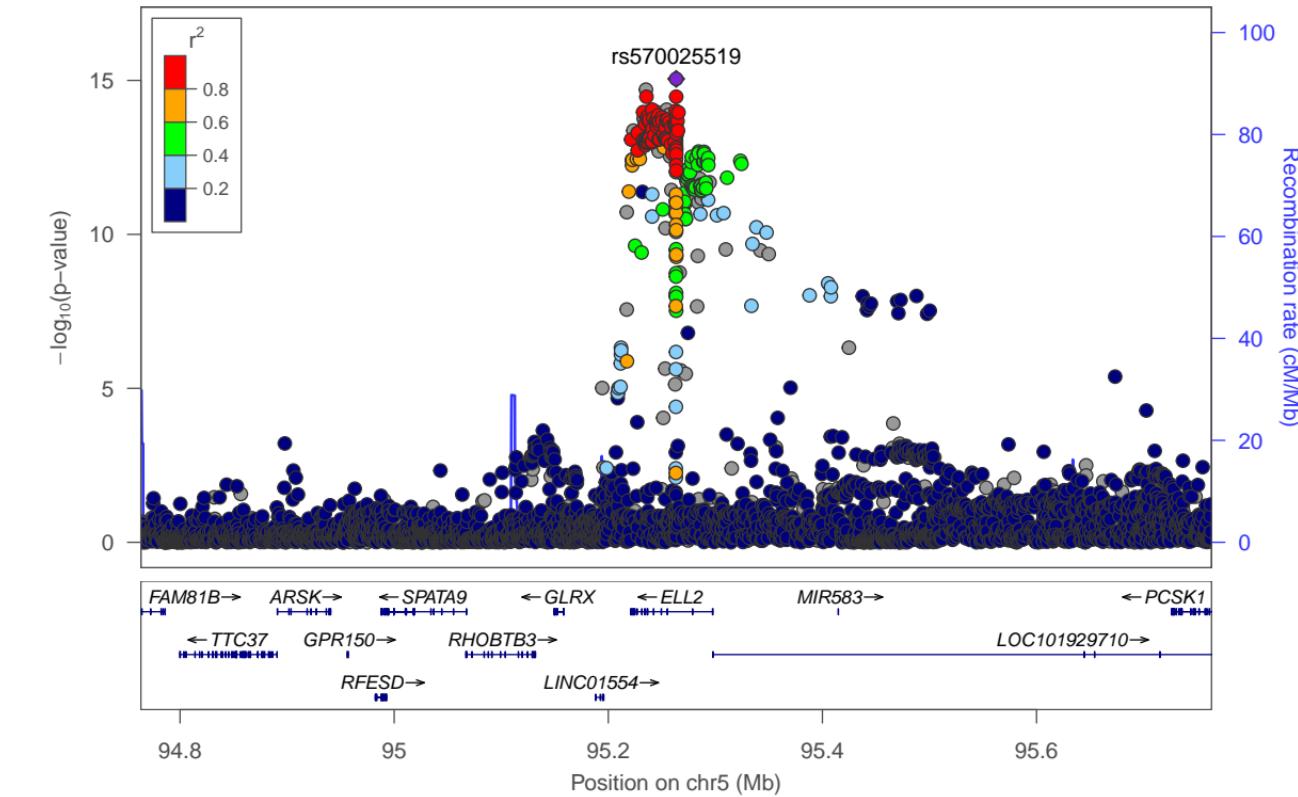
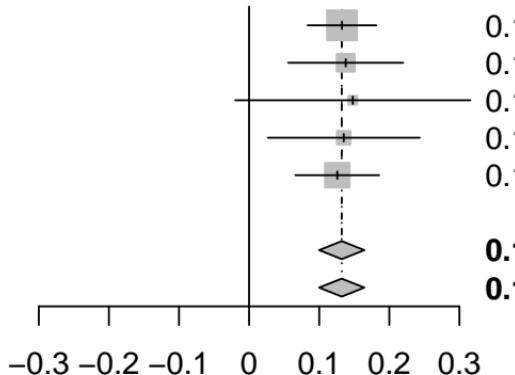
TE seTE

	95%-CI	Weight (fixed)	Weight (random)
	0.13 [ 0.08; 0.18]	43.1%	43.1%
	0.14 [ 0.06; 0.22]	15.4%	15.4%
	0.15 [-0.02; 0.32]	3.7%	3.7%
	0.14 [ 0.03; 0.24]	8.8%	8.8%
	0.13 [ 0.07; 0.19]	29.0%	29.0%
	<b>0.13 [ 0.10; 0.16]</b>	<b>100.0%</b>	--
	<b>0.13 [ 0.10; 0.16]</b>	--	<b>100.0%</b>

Fixed effect model

Random effects model

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 1.00$



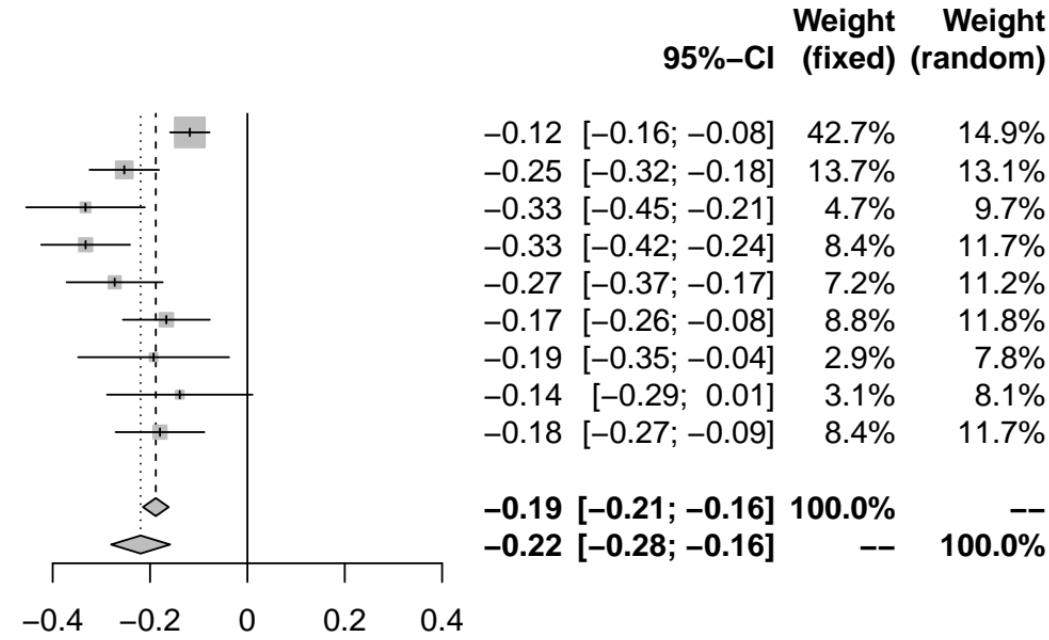
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (982)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

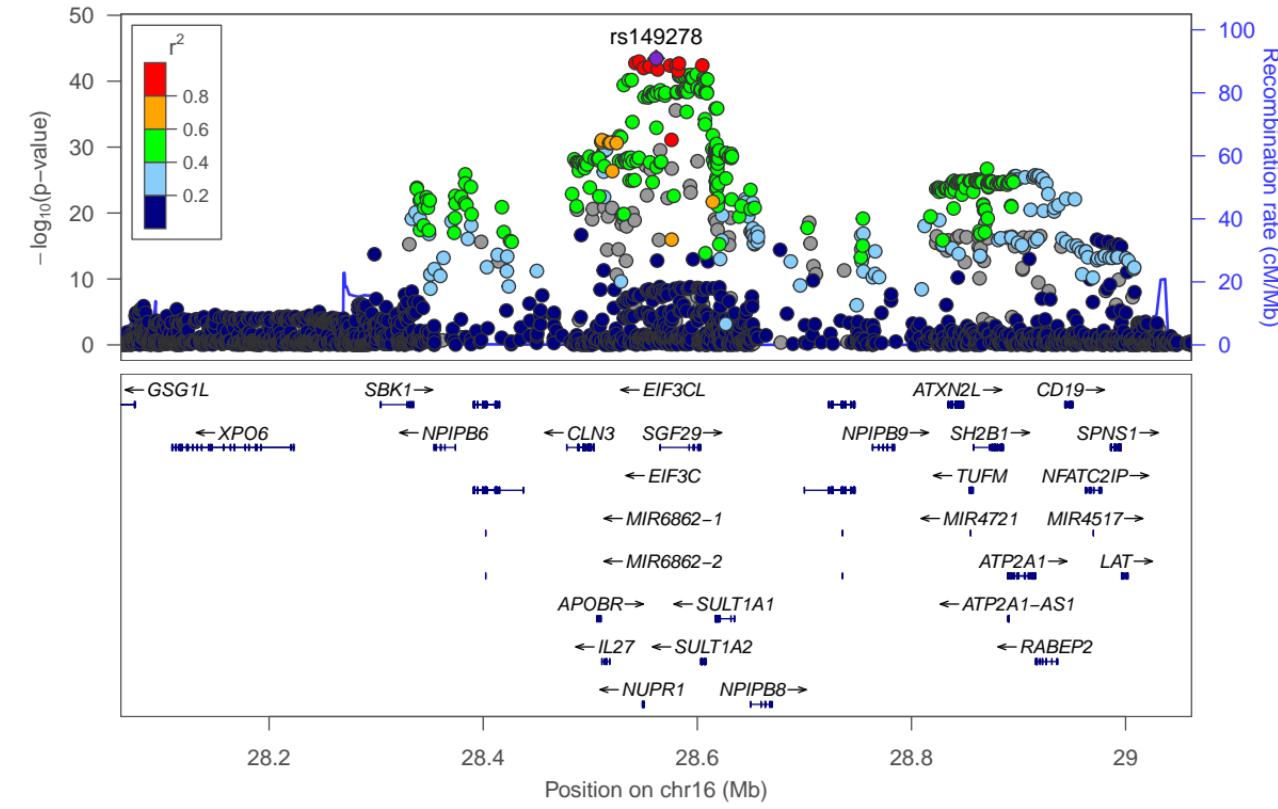
**TE seTE**

-0.12 0.0207  
-0.25 0.0364  
-0.33 0.0622  
-0.33 0.0466  
-0.27 0.0503  
-0.17 0.0455  
-0.19 0.0791  
-0.14 0.0762  
-0.18 0.0466

ST1A1 [chr16:28561581\_C\_T (rs149278) (T/C) N=11345]



## ST1A1 (SULT1A1)-rs149278



# ST1A1 (SULT1A1)-rs66530140

ST1A1 [chr4:187161211\_C\_T (rs66530140) (T/C) N=10913]

## Study

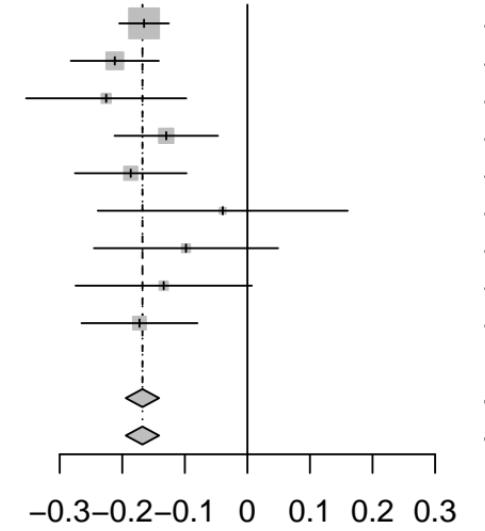
	TE	seTE
INTERVAL (4896)	-0.17	0.0203
BioFinder (1496)	-0.21	0.0359
EGCUT (487)	-0.23	0.0653
KORA (1064)	-0.13	0.0422
ORCADES (982)	-0.19	0.0455
RECOMBINE (442)	-0.04	0.1019
STANLEY (344)	-0.10	0.0751
STANLEY (300)	-0.13	0.0719
VIS (902)	-0.17	0.0473

## Fixed effect model

## Random effects model

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.65$

## TE

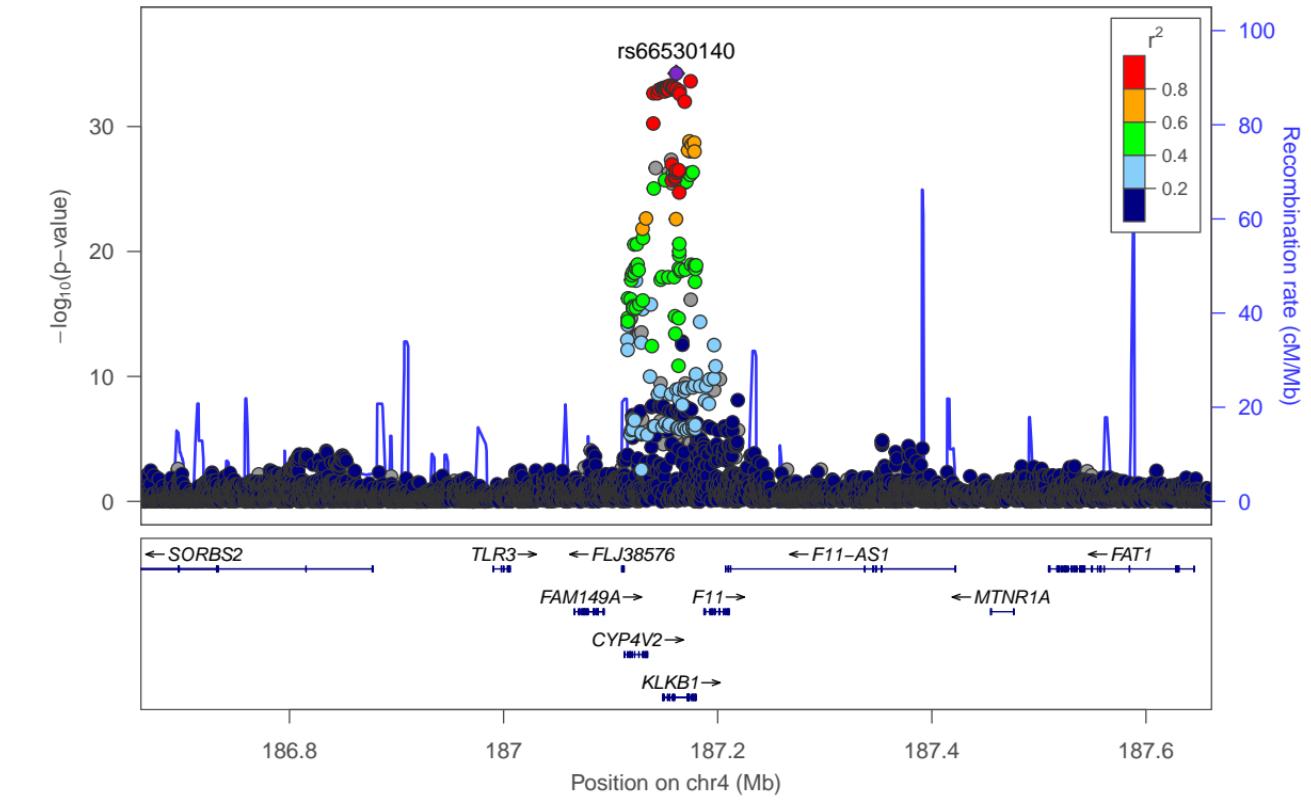


## Weight 95%-CI

## (fixed) (random)

-0.17	[-0.20; -0.13]	45.1%	45.1%
-0.21	[-0.28; -0.14]	14.4%	14.4%
-0.23	[-0.35; -0.10]	4.3%	4.3%
-0.13	[-0.21; -0.05]	10.4%	10.4%
-0.19	[-0.28; -0.10]	8.9%	8.9%
-0.04	[-0.24; 0.16]	1.8%	1.8%
-0.10	[-0.25; 0.05]	3.3%	3.3%
-0.13	[-0.27; 0.01]	3.6%	3.6%
-0.17	[-0.27; -0.08]	8.3%	8.3%

**Fixed effect model**  
**Random effects model**



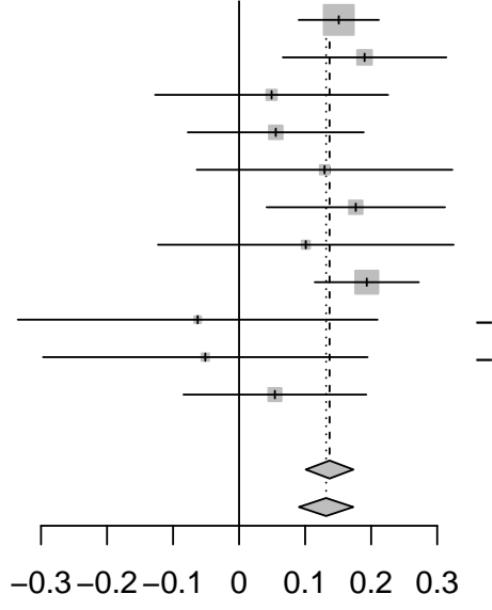
### TGF-alpha [chr2:70774295\_A\_T (rs72912115) (A/T) N=14728]

#### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (979)  
RECOMBINE (443)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

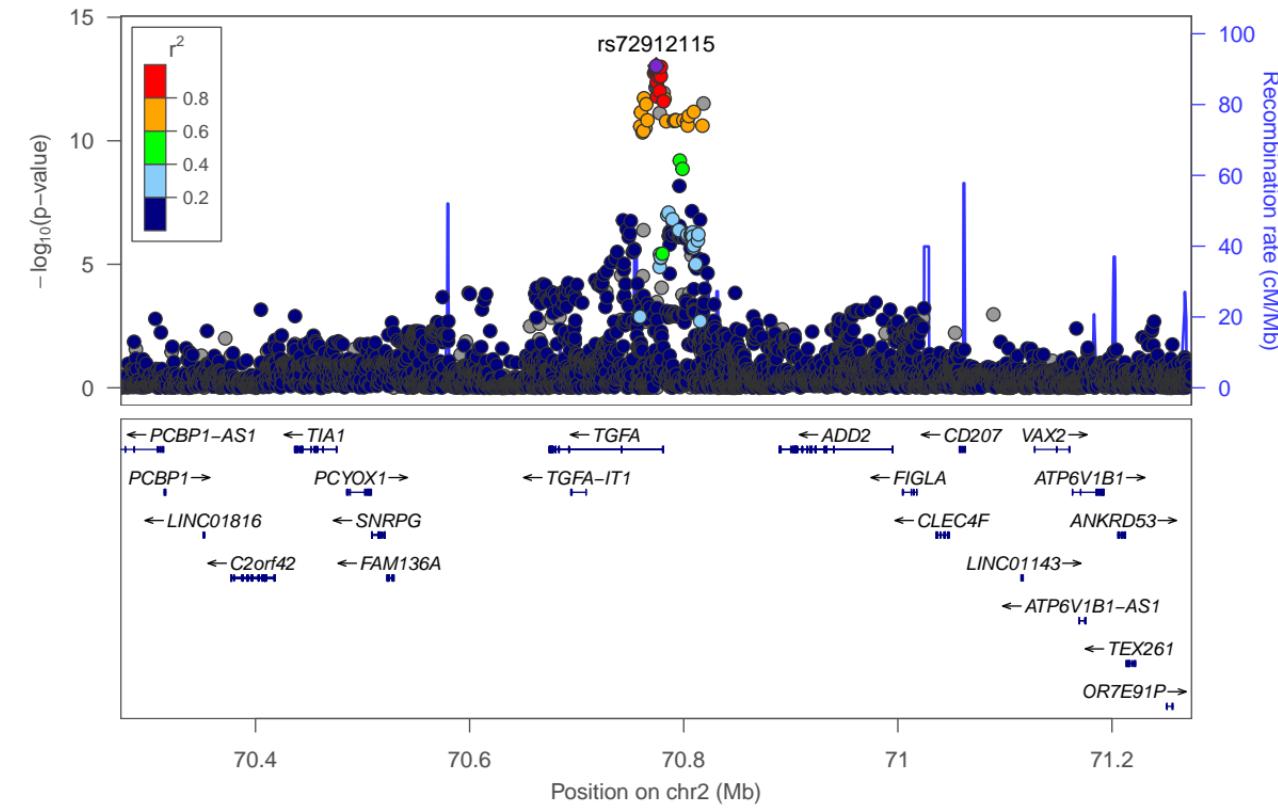
#### TE seTE

0.15 0.0310  
0.19 0.0632  
0.05 0.0900  
0.06 0.0680  
0.13 0.0988  
0.18 0.0689  
0.10 0.1142  
0.19 0.0402  
-0.06 0.1390  
-0.05 0.1254  
0.05 0.0706



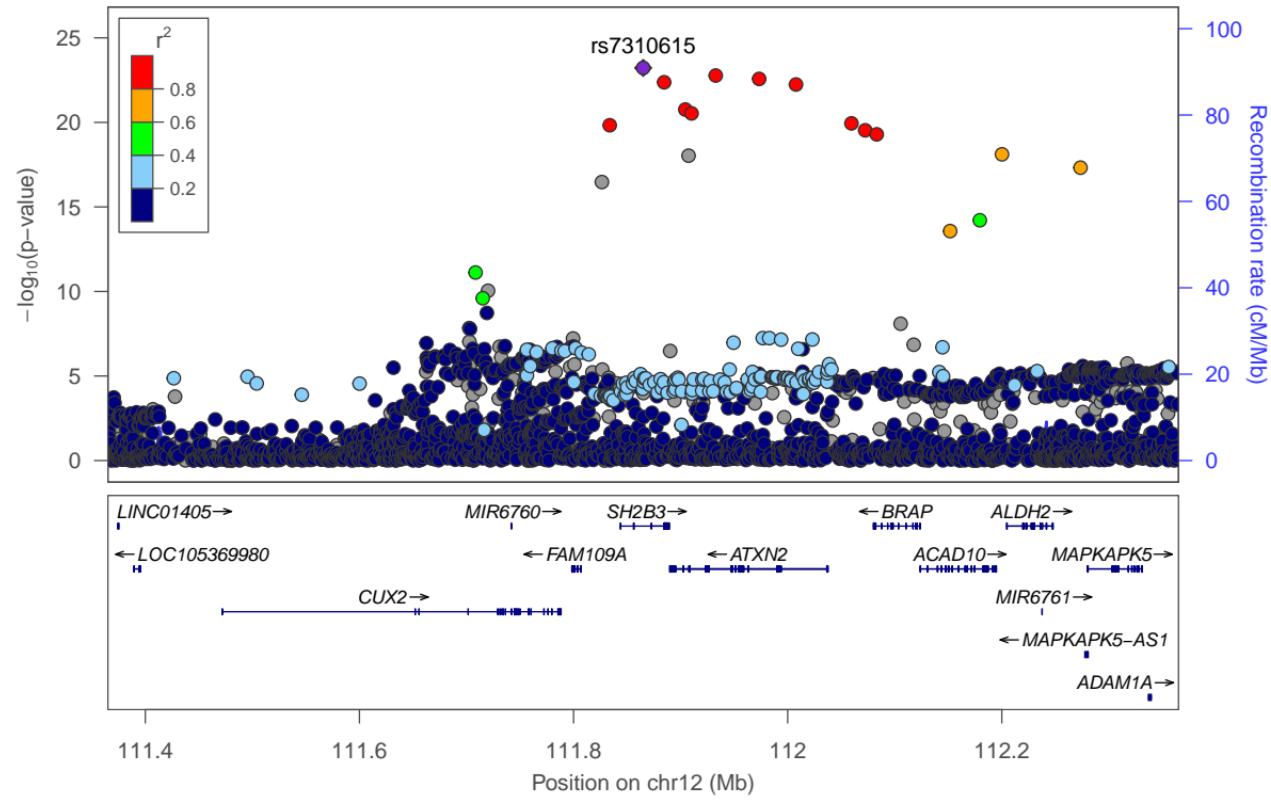
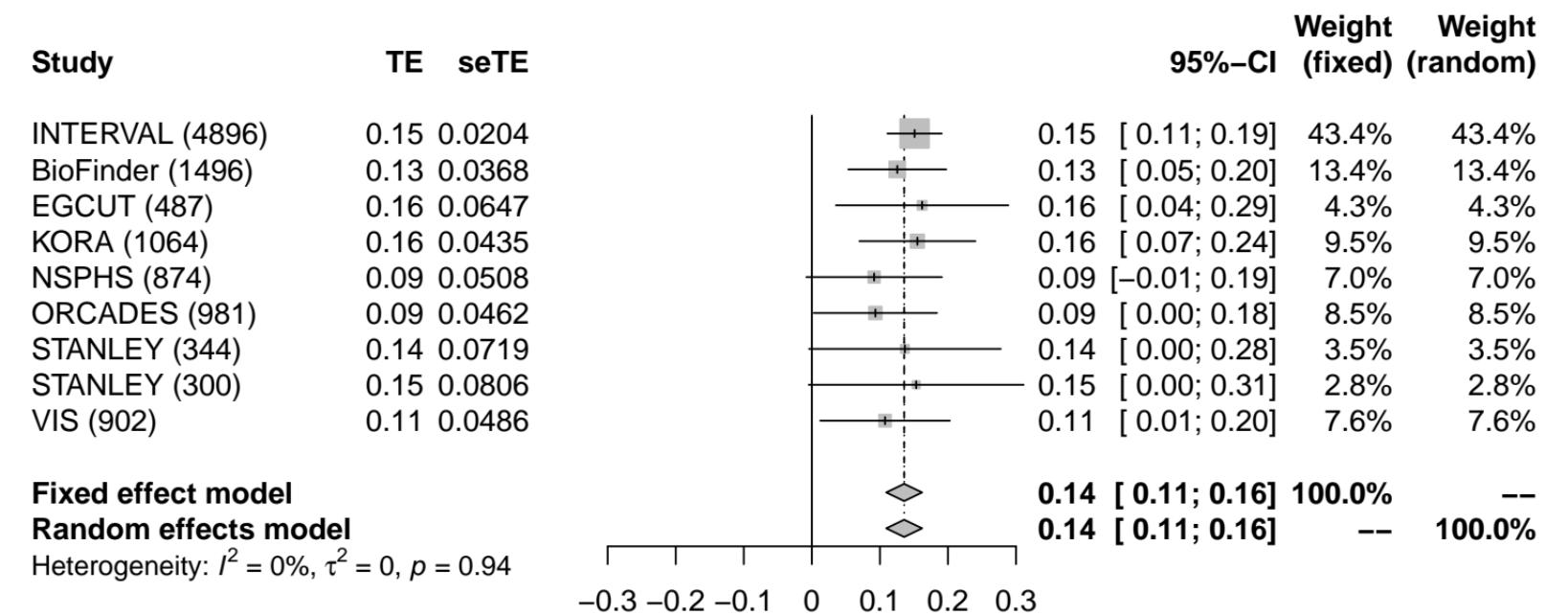
	Weight	Weight
	(fixed)	(random)
<b>0.14 [ 0.10; 0.17]</b>	<b>100.0%</b>	--
<b>0.13 [ 0.09; 0.17]</b>	--	<b>100.0%</b>

### TGF-alpha (TGFA)-rs72912115



# TNFB (LTA)-rs7310615

TNFB [chr12:111865049\_C\_G (rs7310615) (C/G) N=11344]



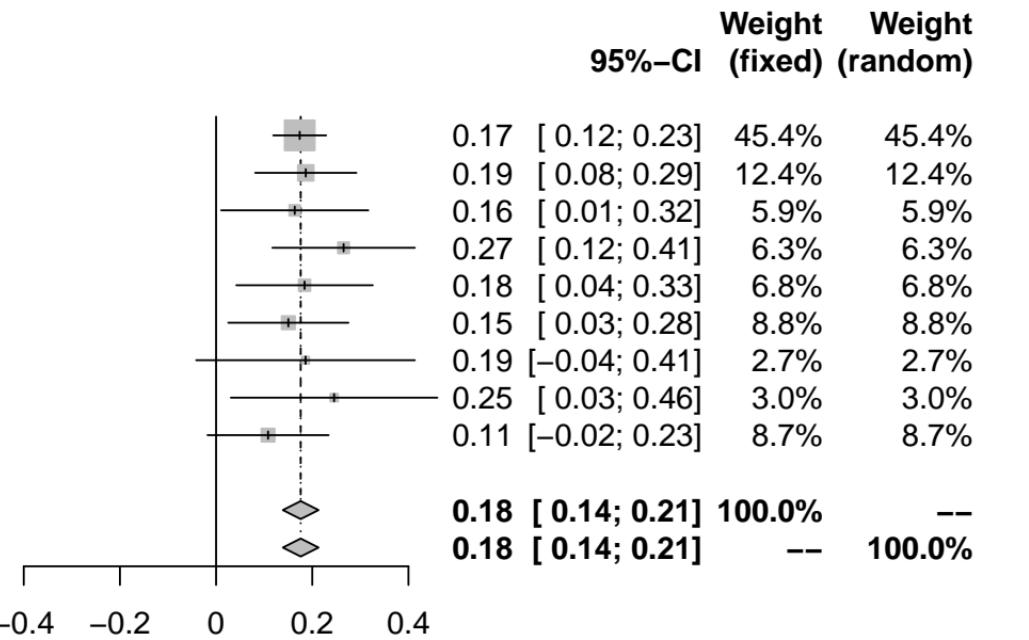
TNFB [chr12:6514963\_A\_C (rs2364485) (A/C) N=11344]

Study	TE	seTE
INTERVAL (4896)	0.17	0.0281
BioFinder (1496)	0.19	0.0537
EGCUT (487)	0.16	0.0781
KORA (1064)	0.27	0.0756
NSPHS (874)	0.18	0.0724
ORCADES (981)	0.15	0.0638
STANLEY (344)	0.19	0.1160
STANLEY (300)	0.25	0.1096
VIS (902)	0.11	0.0643

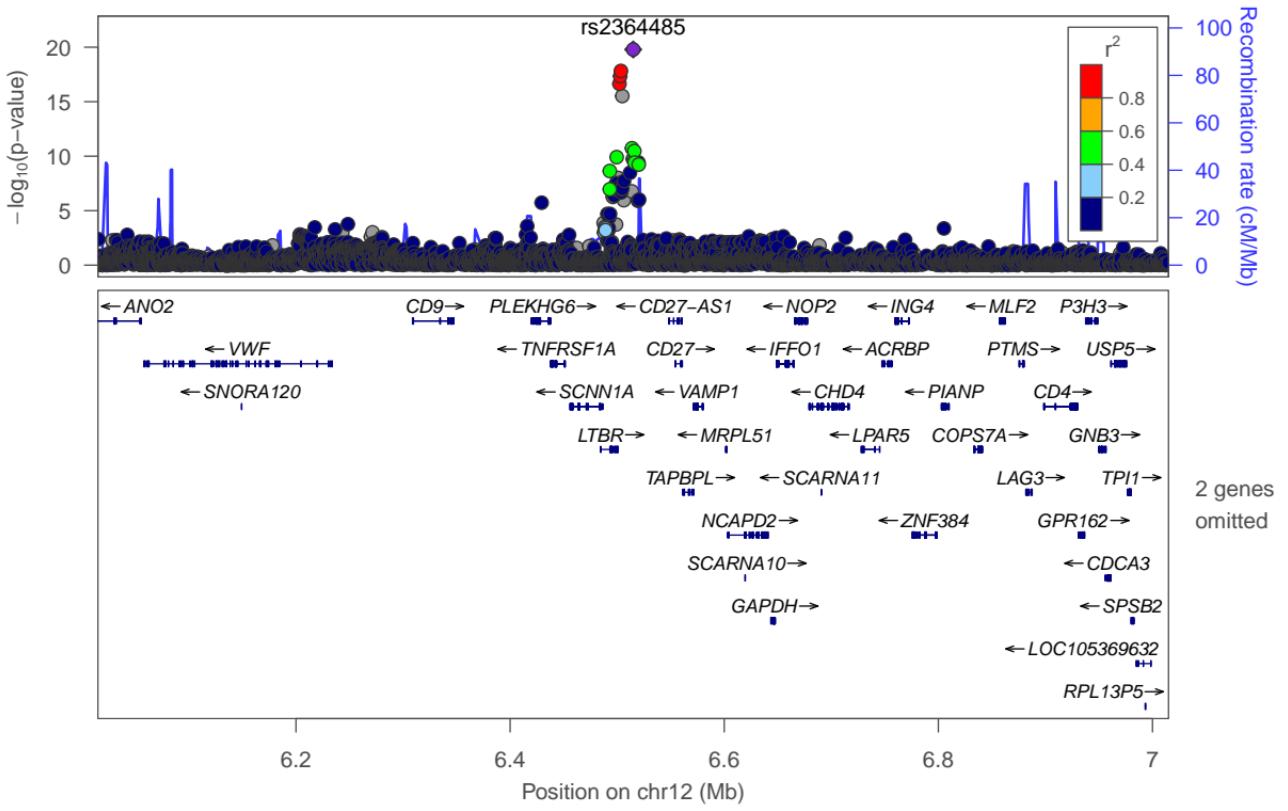
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.92$



# TNFB (LTA)-rs2364485



### TNFB [chr6:31540757\_A\_C (rs2229092) (A/C) N=11792]

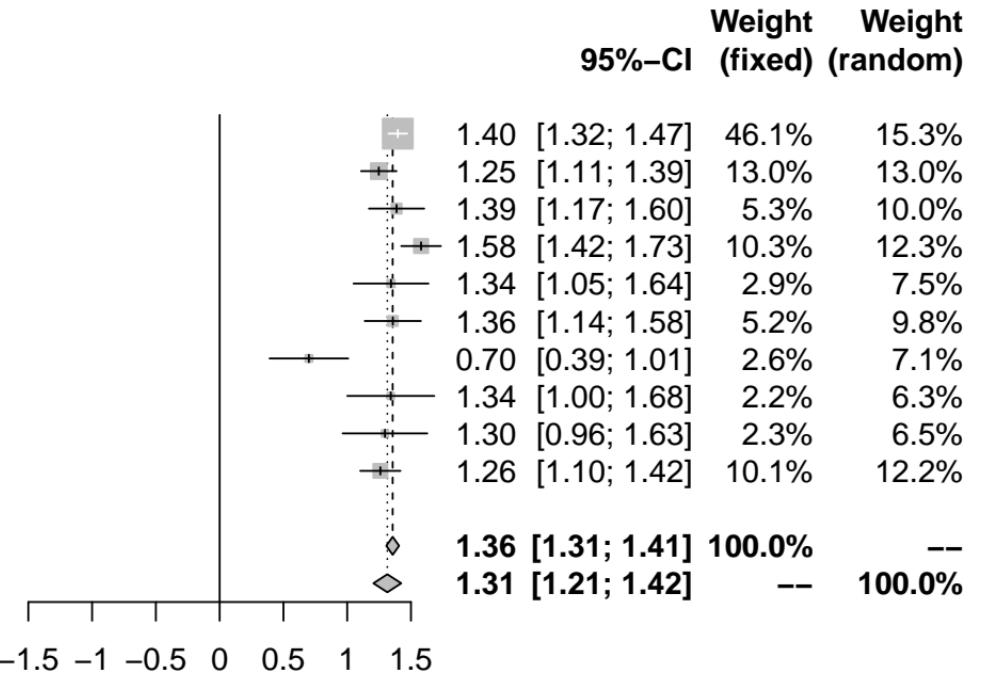
#### Study

	TE	seTE
INTERVAL (4896)	1.40	0.0376
BioFinder (1496)	1.25	0.0710
EGCUT (487)	1.39	0.1106
KORA (1064)	1.58	0.0795
NSPHS (874)	1.34	0.1500
ORCADES (981)	1.36	0.1125
RECOMBINE (448)	0.70	0.1573
STANLEY (344)	1.34	0.1742
STANLEY (300)	1.30	0.1694
VIS (902)	1.26	0.0805

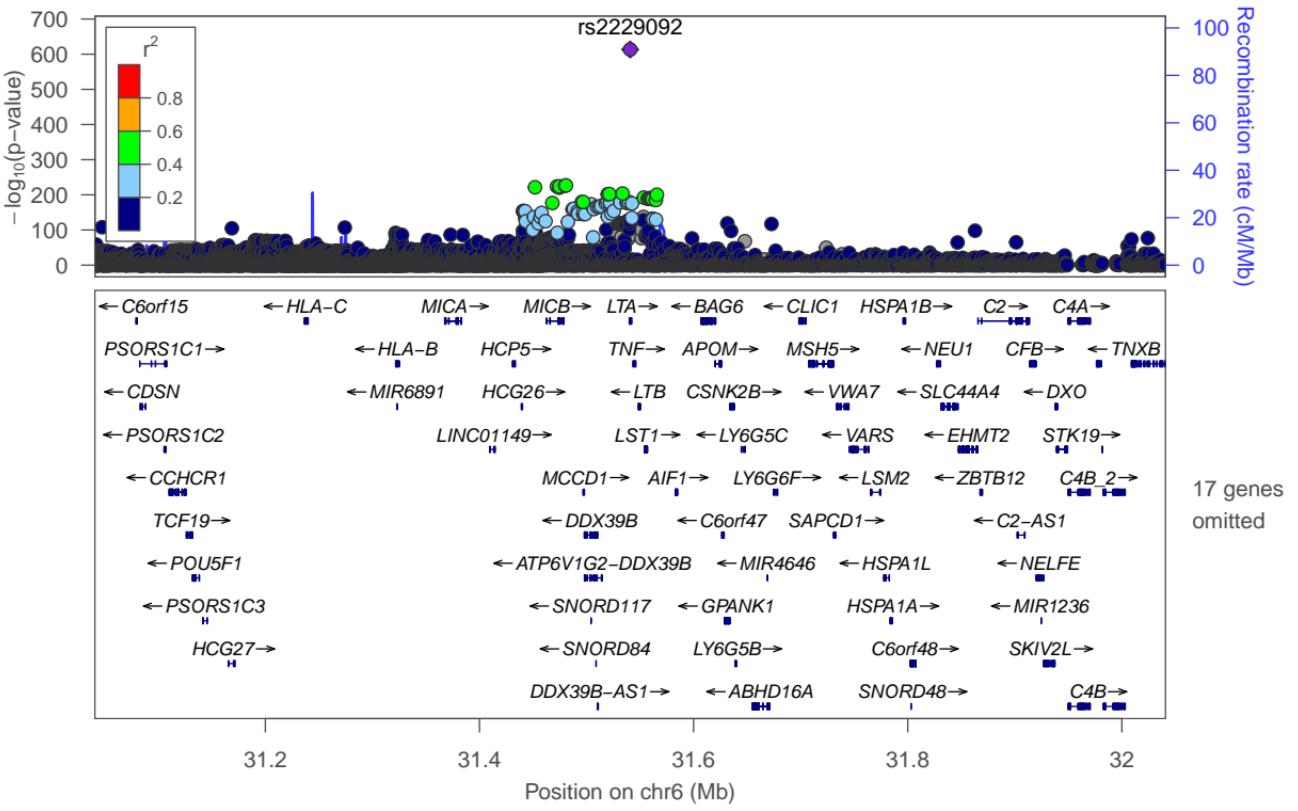
**Fixed effect model**

**Random effects model**

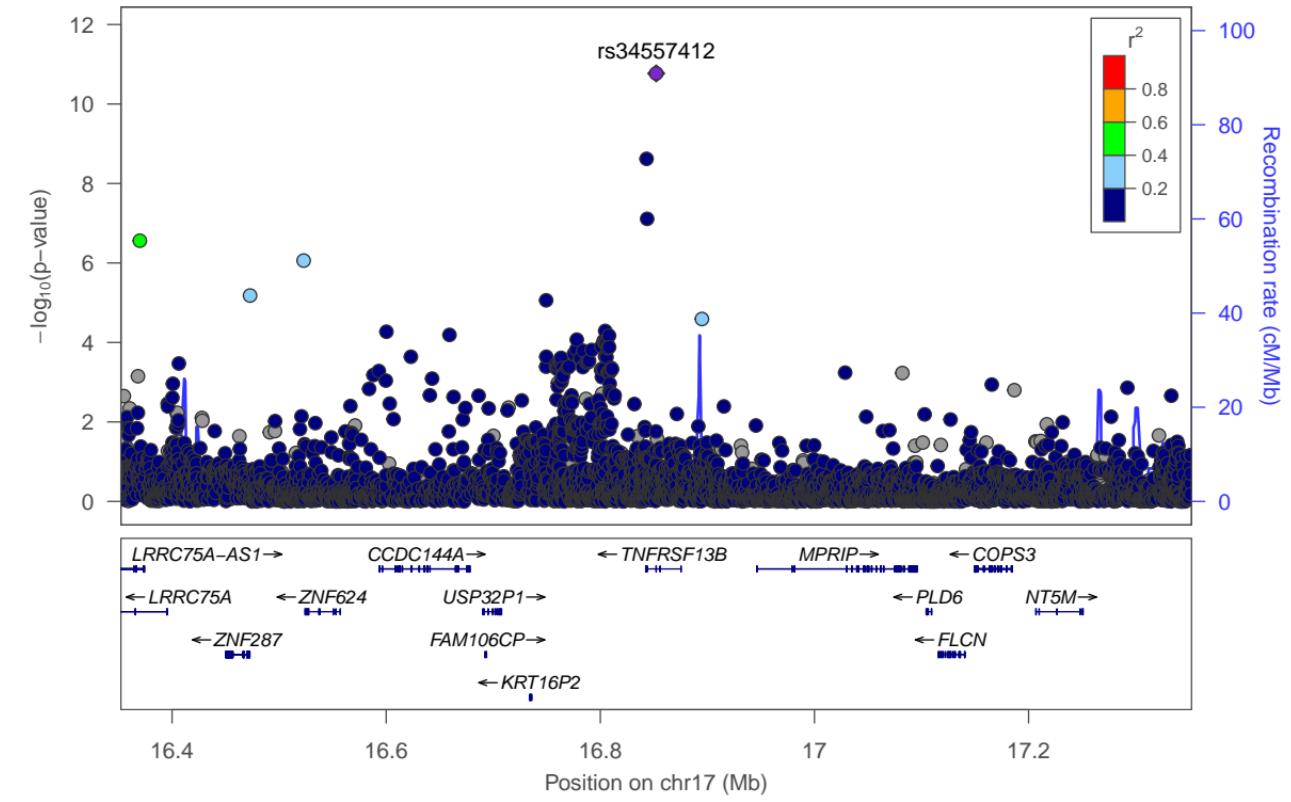
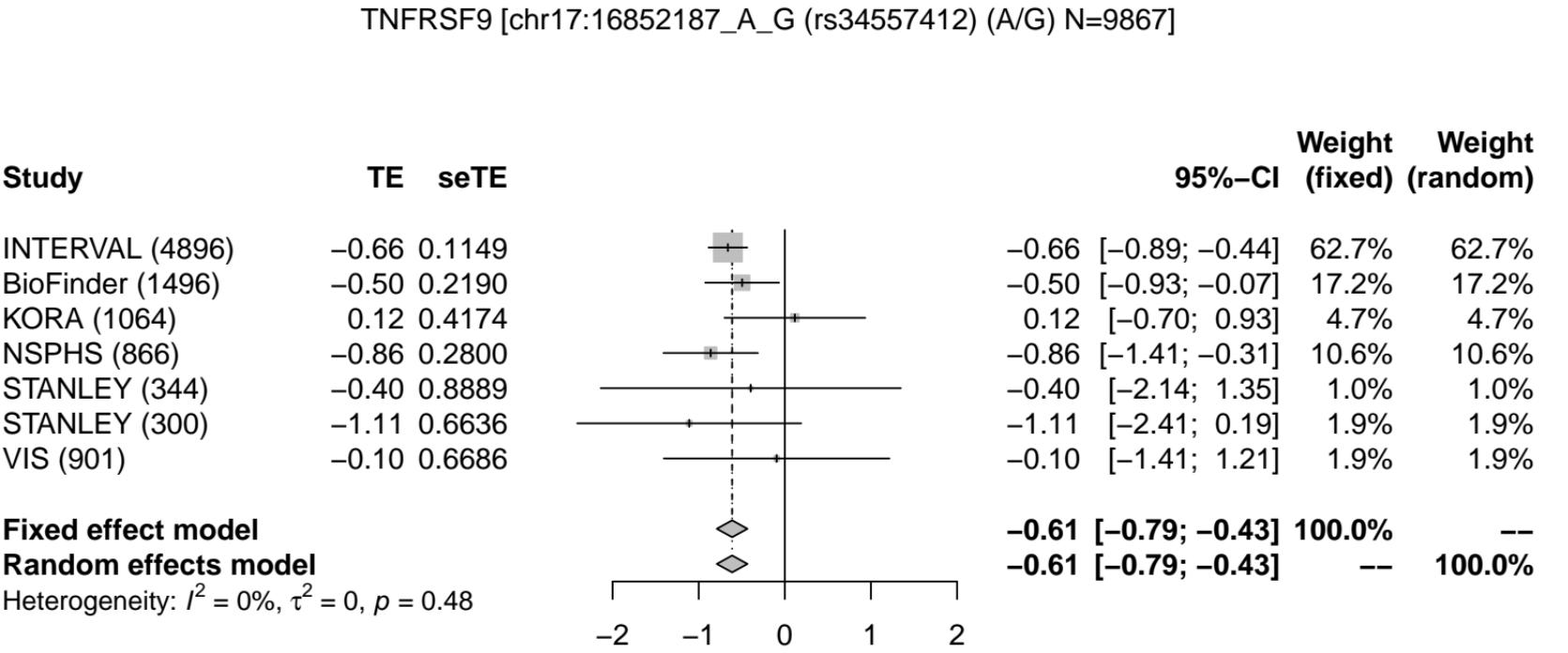
Heterogeneity:  $I^2 = 70\%$ ,  $\tau^2 = 0.0189$ ,  $p < 0.01$

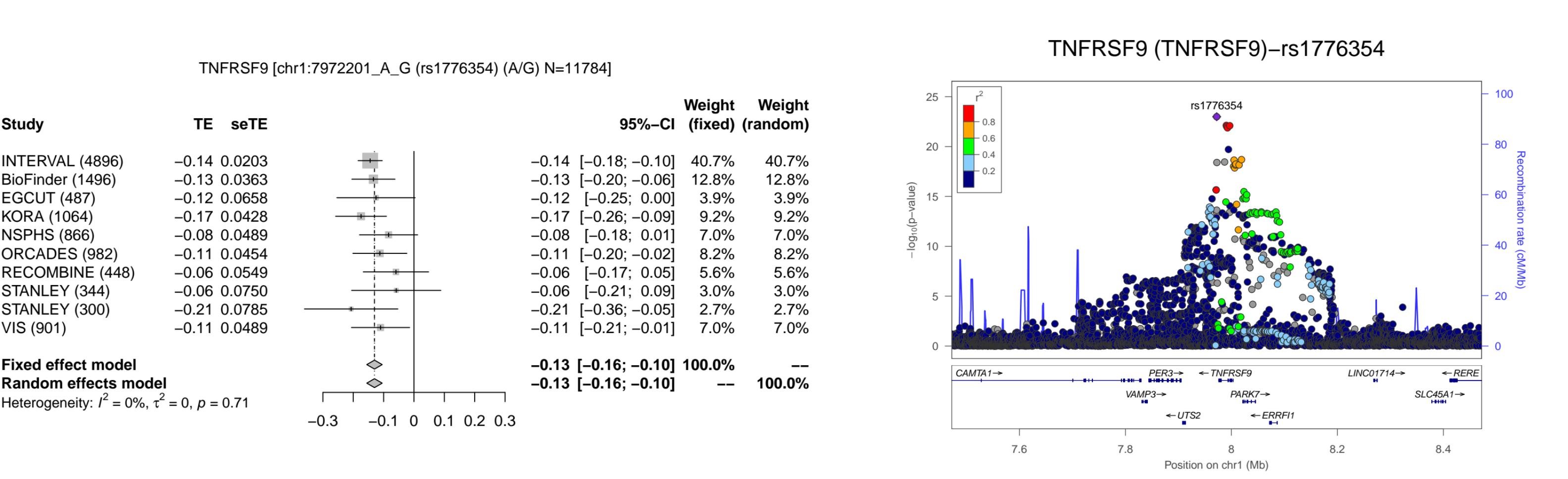


### TNFB (LTA)-rs2229092



# TNFRSF9 (TNFRSF9)-rs34557412





# TNFSF14 (TNFSF14)-rs344562

TNFSF14 [chr19:6661549\_C\_T (rs344562) (T/C) N=11789]

## Study

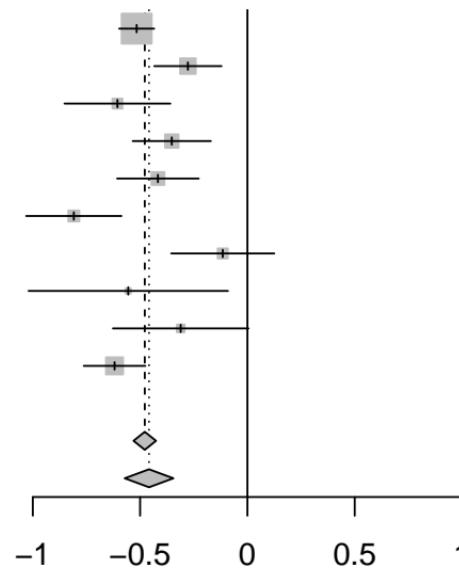
Study	TE	seTE
INTERVAL (4896)	-0.52	0.0417
BioFinder (1496)	-0.28	0.0800
EGCUT (487)	-0.61	0.1259
KORA (1064)	-0.35	0.0930
NSPHS (874)	-0.42	0.0972
ORCADES (982)	-0.81	0.1134
RECOMBINE (444)	-0.11	0.1226
STANLEY (344)	-0.56	0.2371
STANLEY (300)	-0.31	0.1612
VIS (902)	-0.62	0.0733

**Fixed effect model**

**Random effects model**

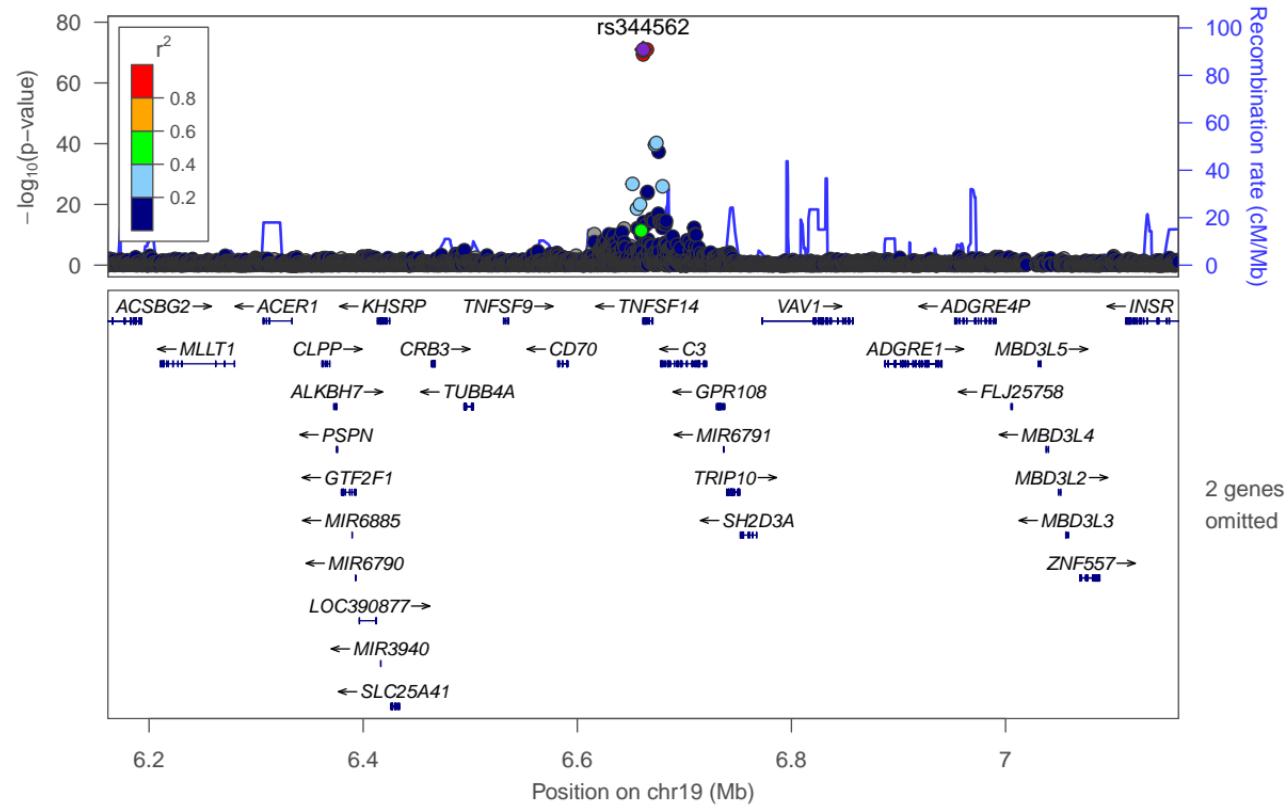
Heterogeneity:  $I^2 = 72\%$ ,  $\tau^2 = 0.0215$ ,  $p < 0.01$

## TE seTE



## Weight 95%-CI (fixed) (random)

-0.52	[-0.60; -0.43]	41.0%	14.4%
-0.28	[-0.43; -0.12]	11.1%	12.0%
-0.61	[-0.85; -0.36]	4.5%	9.0%
-0.35	[-0.53; -0.17]	8.2%	11.1%
-0.42	[-0.61; -0.23]	7.6%	10.8%
-0.81	[-1.03; -0.59]	5.5%	9.7%
-0.11	[-0.36; 0.13]	4.7%	9.2%
-0.56	[-1.02; -0.09]	1.3%	4.3%
-0.31	[-0.63; 0.01]	2.7%	7.0%
-0.62	[-0.76; -0.48]	13.3%	12.5%
<b>-0.48</b>	<b>[-0.53; -0.43]</b>	<b>100.0%</b>	--
<b>-0.46</b>	<b>[-0.57; -0.34]</b>	--	<b>100.0%</b>



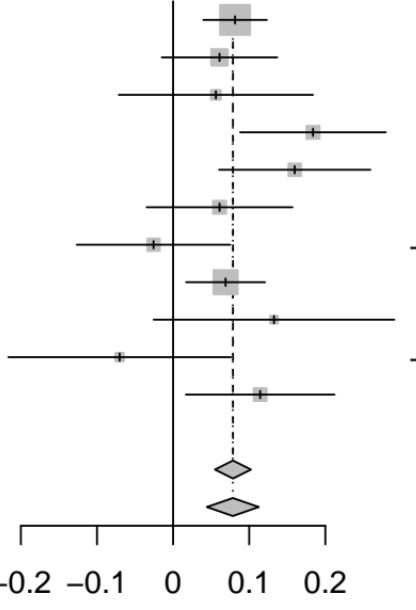
### TRAIL [chr11:61549025\_A\_G (rs174533) (A/G) N=14732]

#### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (445)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

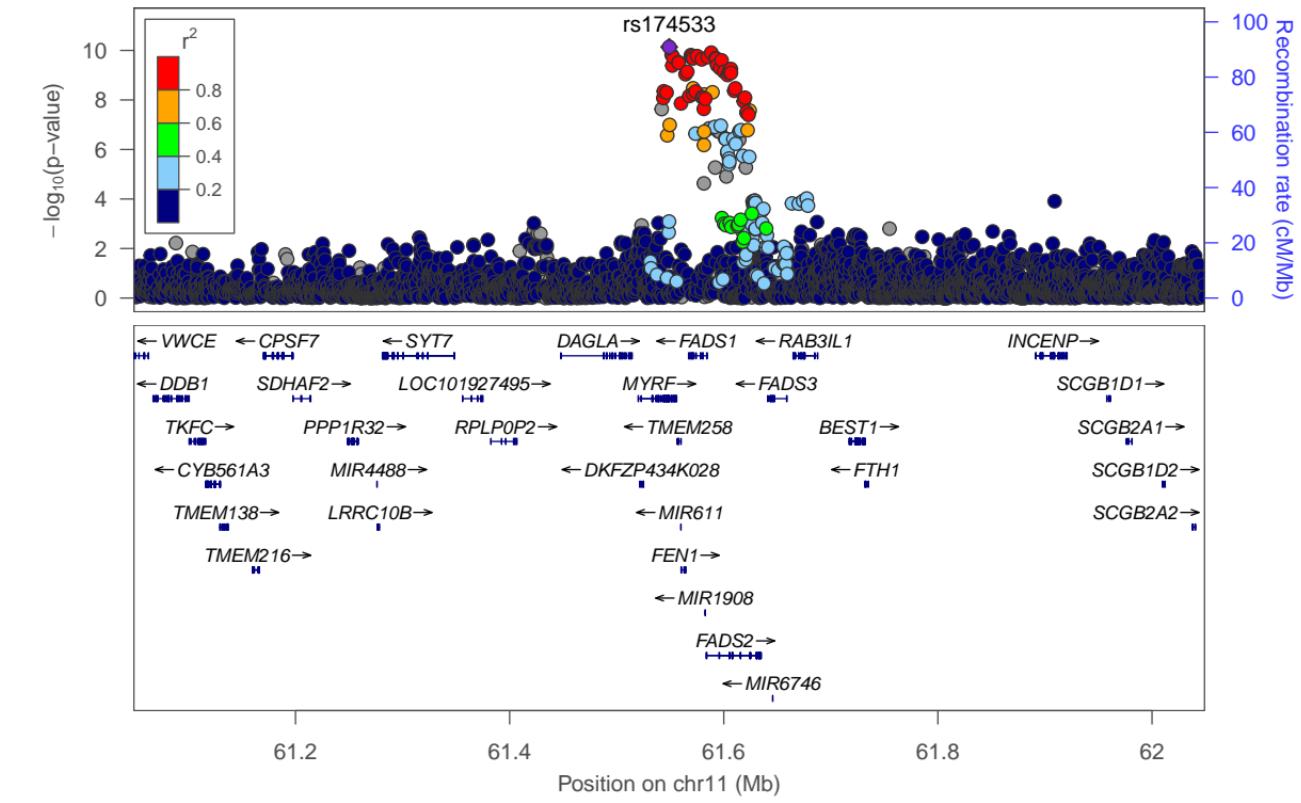
#### TE seTE

0.08 0.0213  
0.06 0.0387  
0.06 0.0651  
0.18 0.0488  
0.16 0.0507  
0.06 0.0489  
-0.03 0.0515  
0.07 0.0265  
0.13 0.0807  
-0.07 0.0746  
0.11 0.0499



Heterogeneity:  $I^2 = 41\%$ ,  $\tau^2 = 0.0012$ ,  $p = 0.08$

### TRAIL (TNFSF10)-rs174533



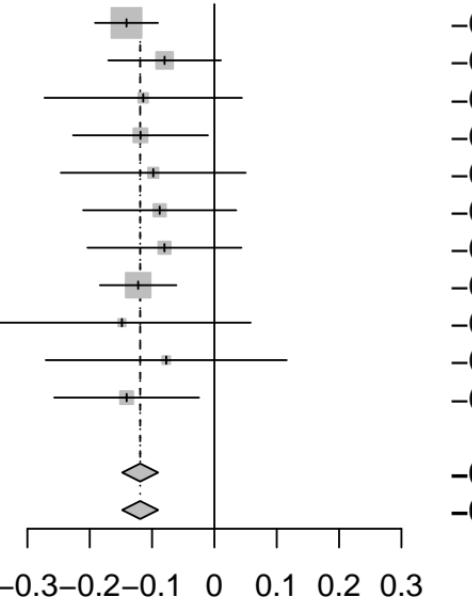
### TRAIL [chr1:196710916\_C\_T (rs16840522) (T/C) N=14725]

#### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (438)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

TE seTE

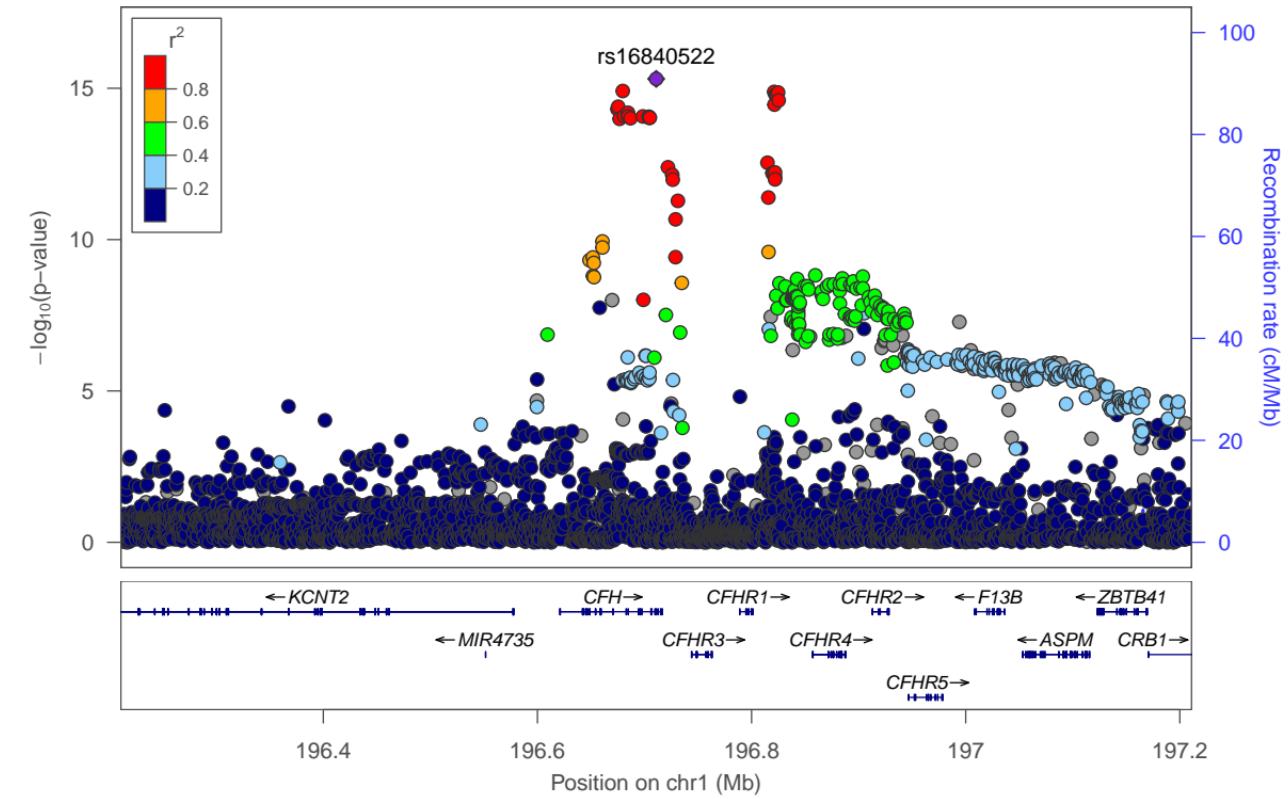
	TE	seTE
INTERVAL (4896)	-0.14	0.0258
BioFinder (1496)	-0.08	0.0461
EGCUT (487)	-0.11	0.0808
KORA (1064)	-0.12	0.0552
NSPHS (866)	-0.10	0.0757
ORCADES (982)	-0.09	0.0627
RECOMBINE (438)	-0.08	0.0630
STABILITY (2951)	-0.12	0.0313
STANLEY (344)	-0.15	0.1054
STANLEY (300)	-0.08	0.0986
VIS (901)	-0.14	0.0593



	95%-CI	Weight (fixed)	Weight (random)
	-0.14 [-0.19; -0.09]	32.5%	32.5%
	-0.08 [-0.17; 0.01]	10.1%	10.1%
	-0.11 [-0.27; 0.04]	3.3%	3.3%
	-0.12 [-0.23; -0.01]	7.1%	7.1%
	-0.10 [-0.25; 0.05]	3.8%	3.8%
	-0.09 [-0.21; 0.03]	5.5%	5.5%
	-0.08 [-0.20; 0.04]	5.4%	5.4%
	-0.12 [-0.18; -0.06]	22.0%	22.0%
	-0.15 [-0.35; 0.06]	1.9%	1.9%
	-0.08 [-0.27; 0.12]	2.2%	2.2%
	-0.14 [-0.26; -0.02]	6.1%	6.1%
<b>Fixed effect model</b>	<b>-0.12 [-0.15; -0.09]</b>	<b>100.0%</b>	--
<b>Random effects model</b>	<b>-0.12 [-0.15; -0.09]</b>	--	<b>100.0%</b>

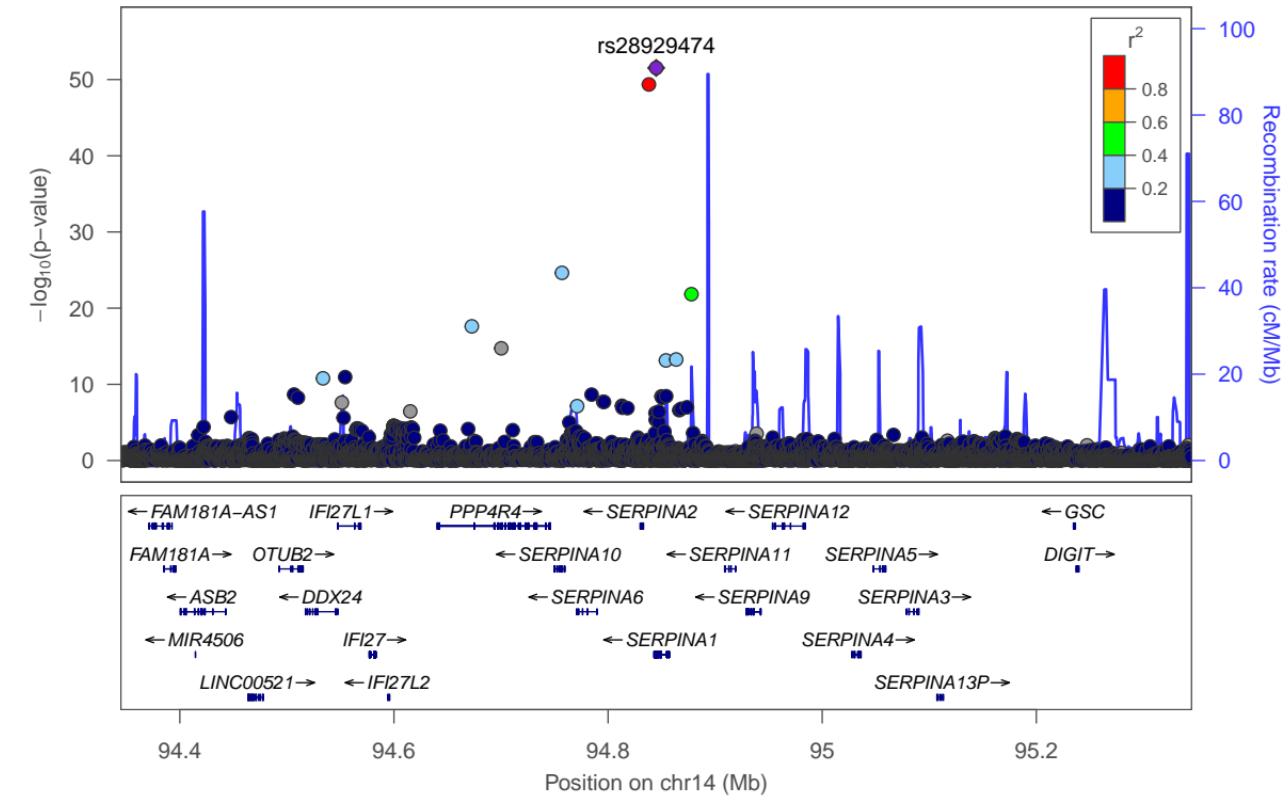
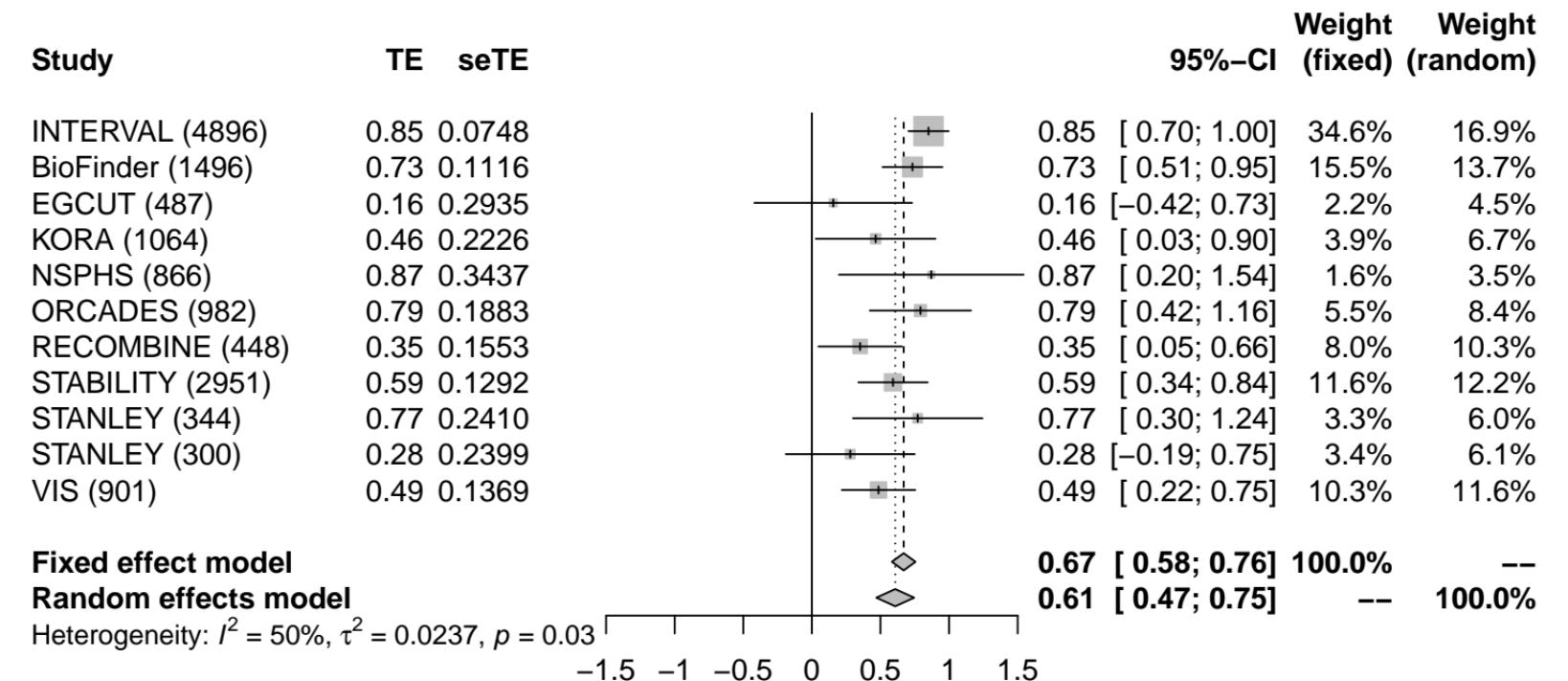
Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.99$

### TRAIL (TNFSF10)-rs16840522



## TRAIL (TNFSF10)-rs28929474

TRAIL [chr14:94844947\_C\_T (rs28929474) (T/C) N=14735]



### TRAIL [chr17:64224775\_C\_T (rs8178824) (T/C) N=14735]

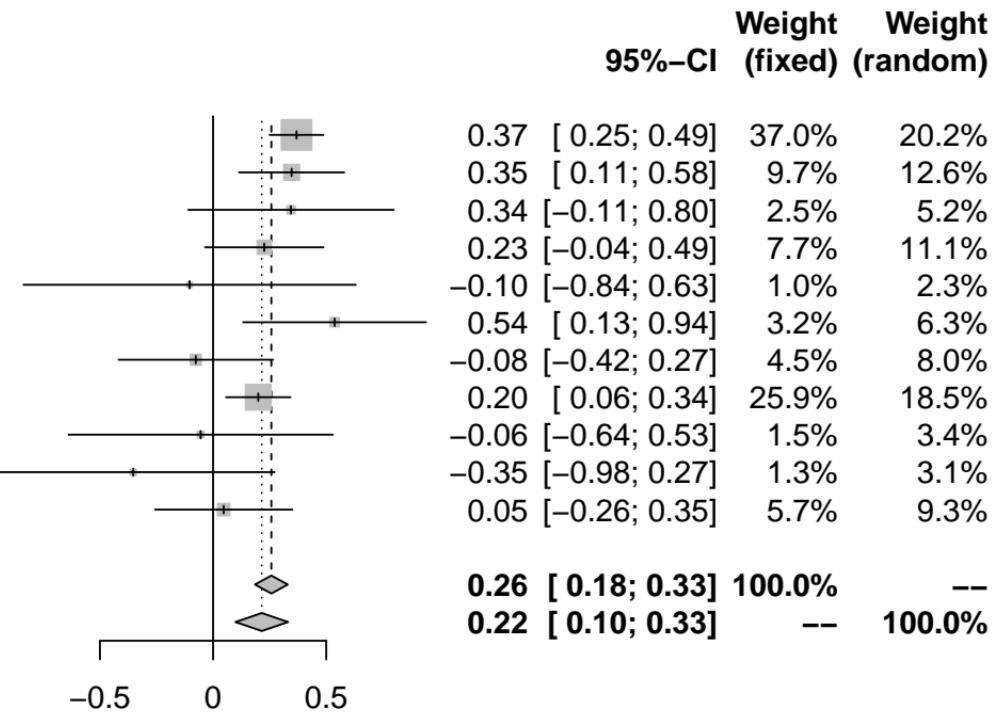
#### Study

	TE	seTE
INTERVAL (4896)	0.37	0.0608
BioFinder (1496)	0.35	0.1187
EGCUT (487)	0.34	0.2317
KORA (1064)	0.23	0.1336
NSPHS (866)	-0.10	0.3747
ORCADES (982)	0.54	0.2061
RECOMBINE (448)	-0.08	0.1742
STABILITY (2951)	0.20	0.0727
STANLEY (344)	-0.06	0.2981
STANLEY (300)	-0.35	0.3188
VIS (901)	0.05	0.1550

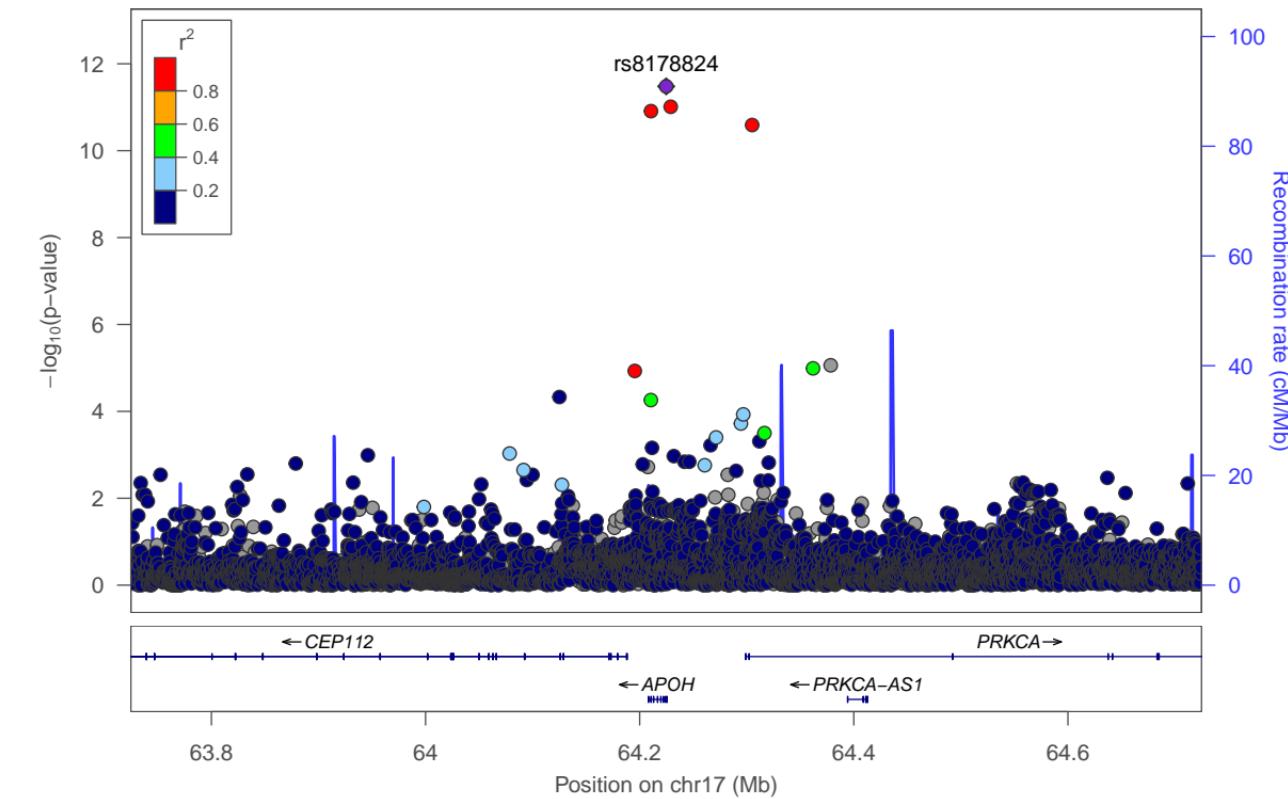
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 44\%$ ,  $\tau^2 = 0.0138$ ,  $p = 0.06$



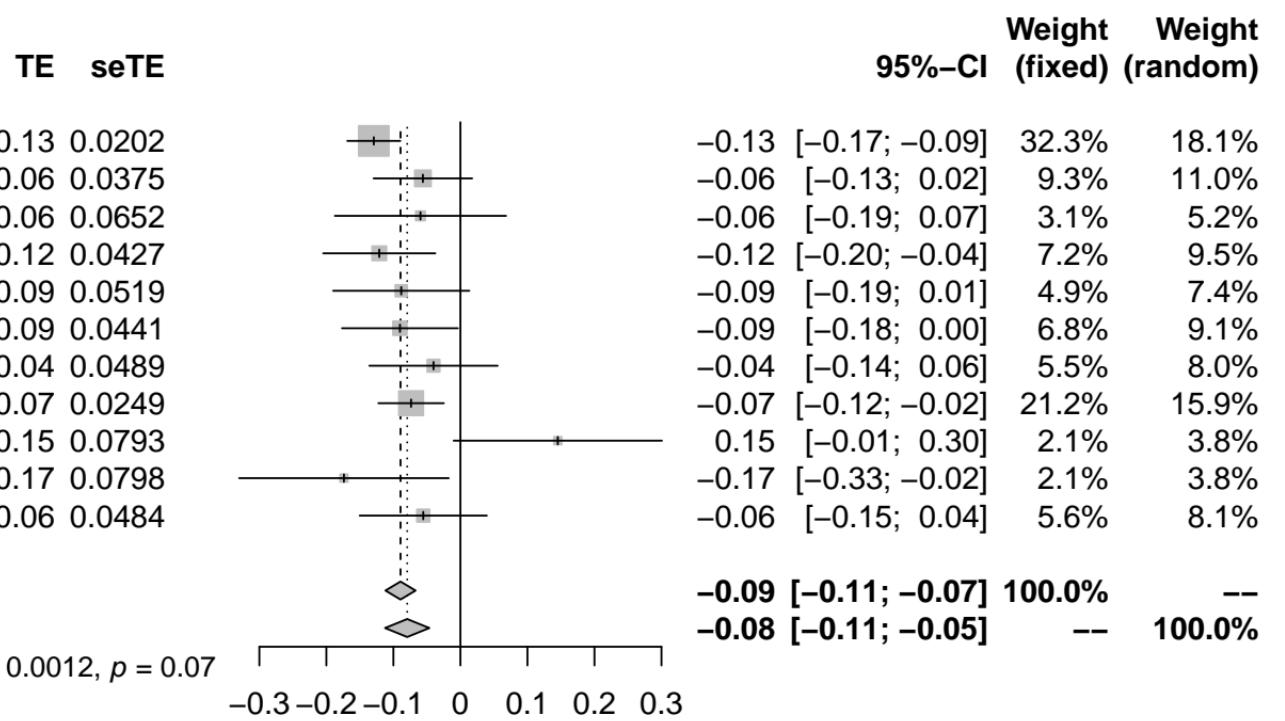
### TRAIL (TNFSF10)-rs8178824



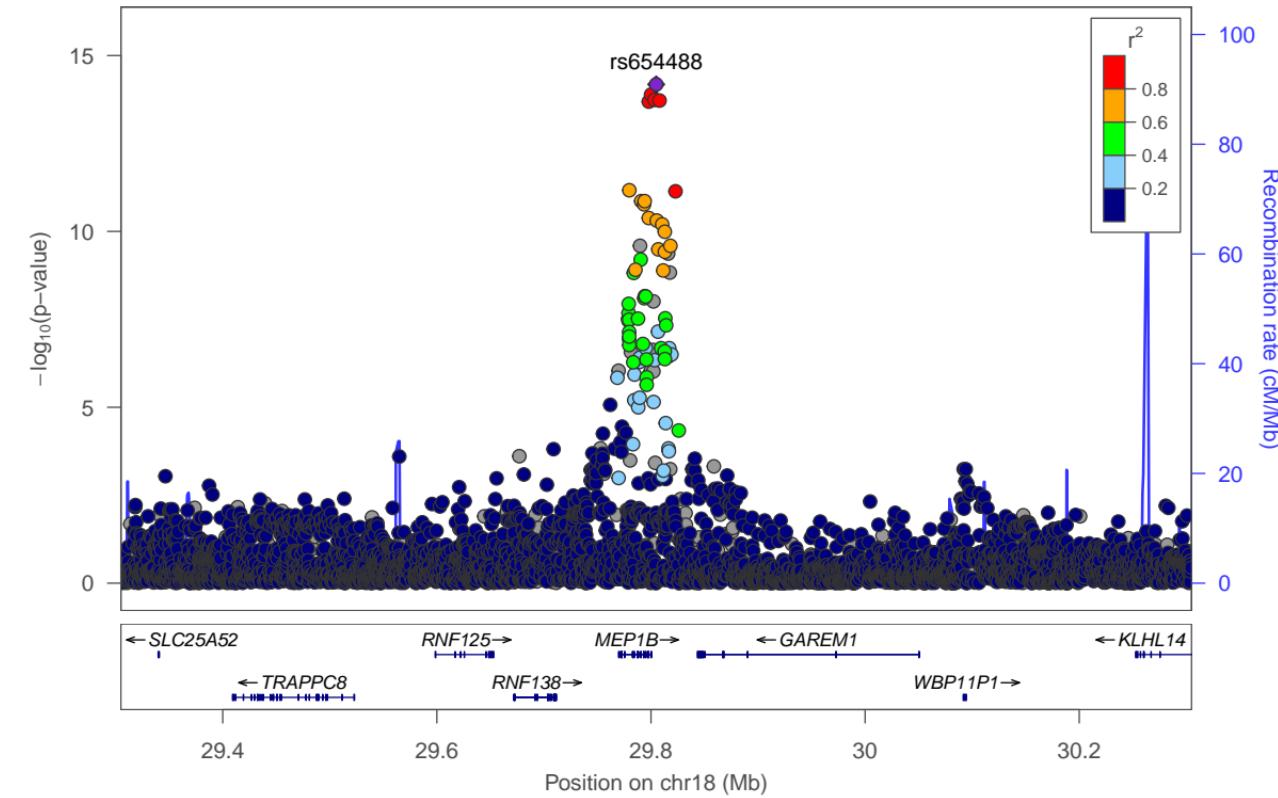
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (448)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

TRAIL [chr18:29804863\_A\_T (rs654488) (A/T) N=14735]



TRAIL (TNFSF10)-rs654488



### TRAIL [chr19:44153100\_A\_G (rs4760) (A/G) N=14287]

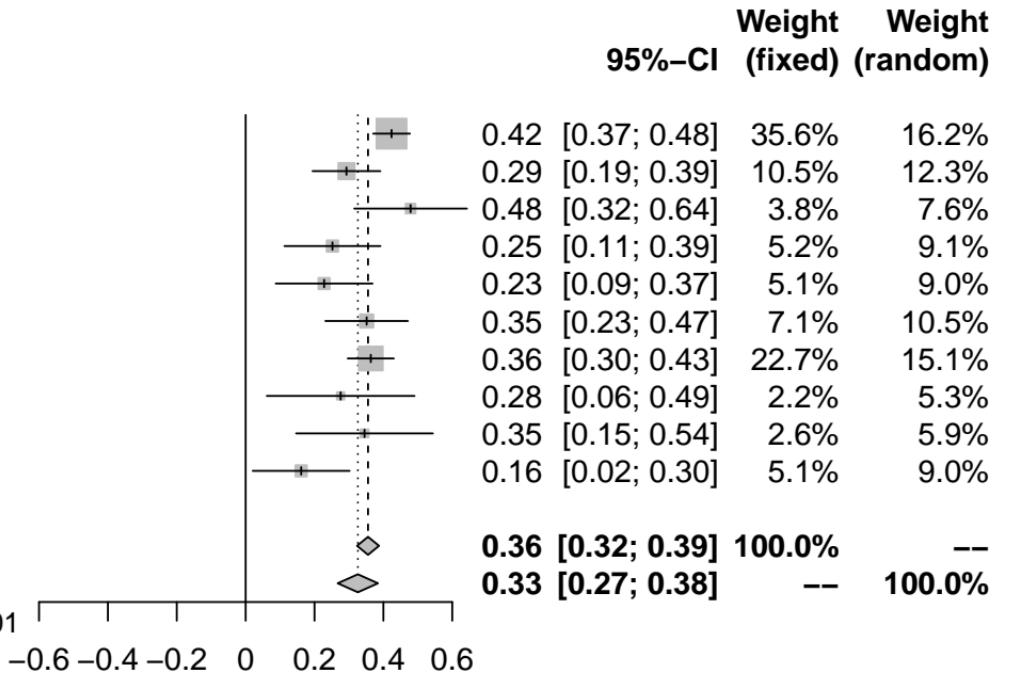
#### Study

	TE	seTE
INTERVAL (4896)	0.42	0.0273
BioFinder (1496)	0.29	0.0503
EGCUT (487)	0.48	0.0835
KORA (1064)	0.25	0.0711
NSPHS (866)	0.23	0.0718
ORCADES (982)	0.35	0.0612
STABILITY (2951)	0.36	0.0342
STANLEY (344)	0.28	0.1095
STANLEY (300)	0.35	0.1014
VIS (901)	0.16	0.0718

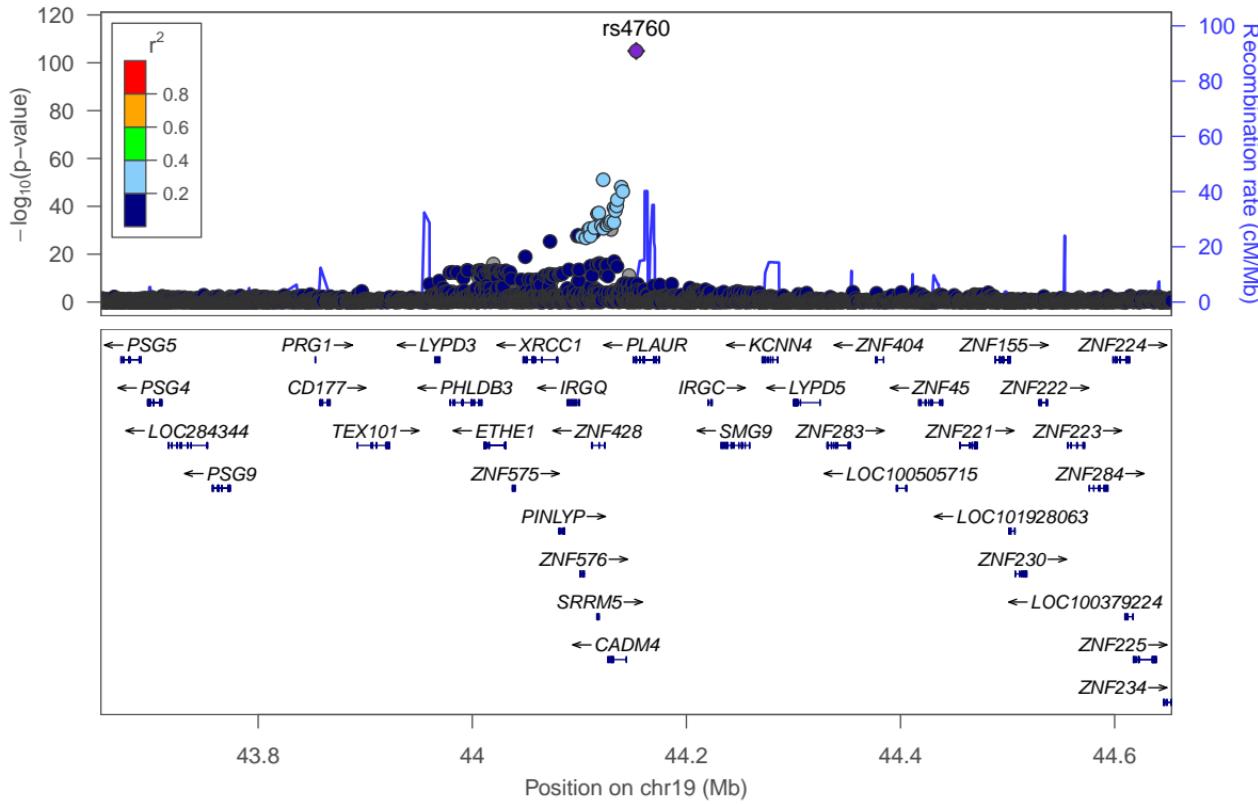
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 61\%$ ,  $\tau^2 = 0.0047$ ,  $p < 0.01$



### TRAIL (TNFSF10)-rs4760



# TRAIL (TNFSF10)-rs574044675

TRAIL [chr3:172274232\_A\_C (rs574044675) (A/C) N=13173]

## Study

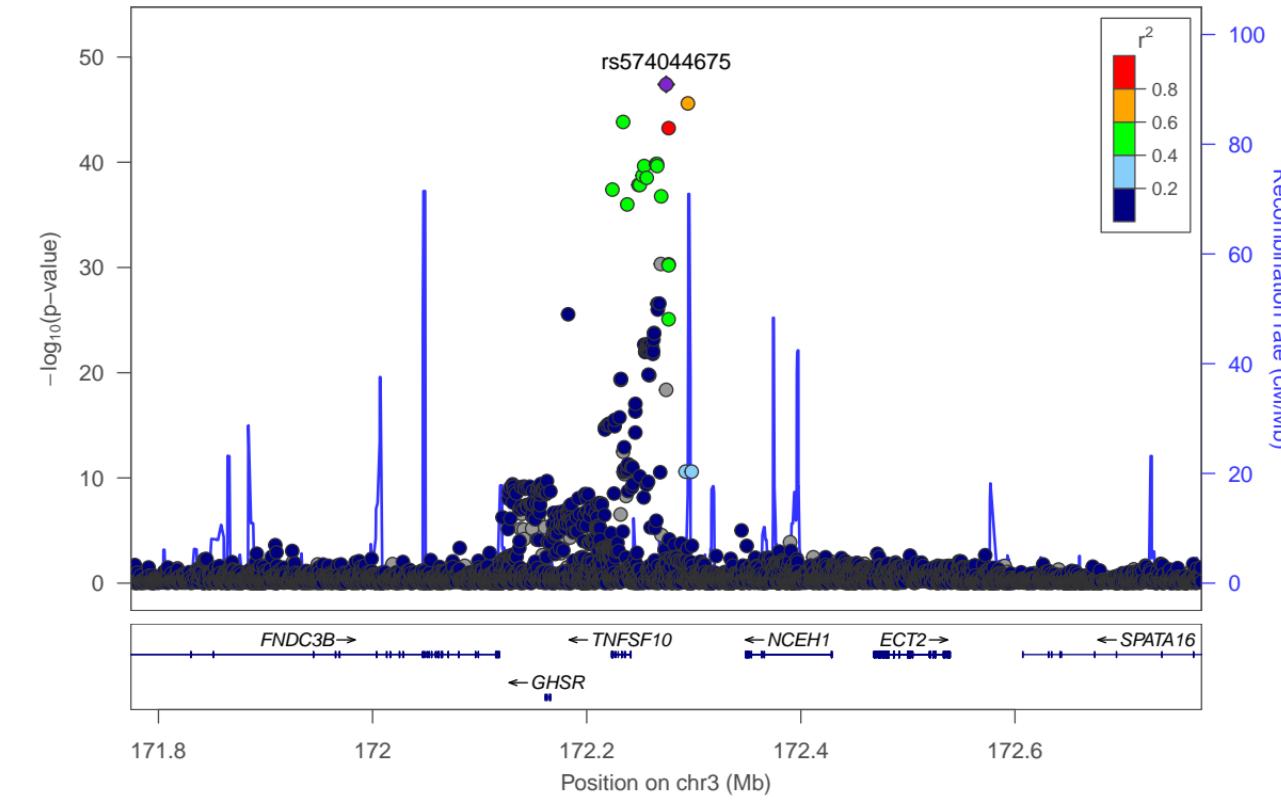
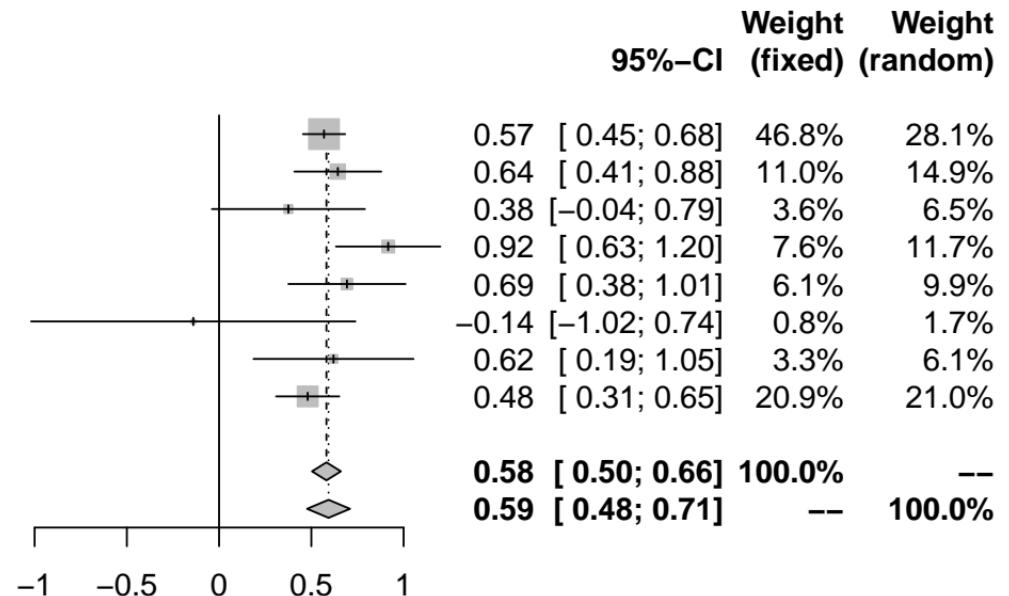
INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (431)  
STABILITY (2951)

TE seTE

	TE	seTE
INTERVAL (4896)	0.57	0.0583
BioFinder (1496)	0.64	0.1202
EGCUT (487)	0.38	0.2117
KORA (1064)	0.92	0.1444
NSPHS (866)	0.69	0.1621
ORCADES (982)	-0.14	0.4485
RECOMBINE (431)	0.62	0.2213
STABILITY (2951)	0.48	0.0874

## Fixed effect model Random effects model

Heterogeneity:  $I^2 = 37\%$ ,  $\tau^2 = 0.0091$ ,  $p = 0.14$



# TRAIL (TNFSF10)-rs5030044

TRAIL [chr3:186449122\_A\_G (rs5030044) (A/G) N=14287]

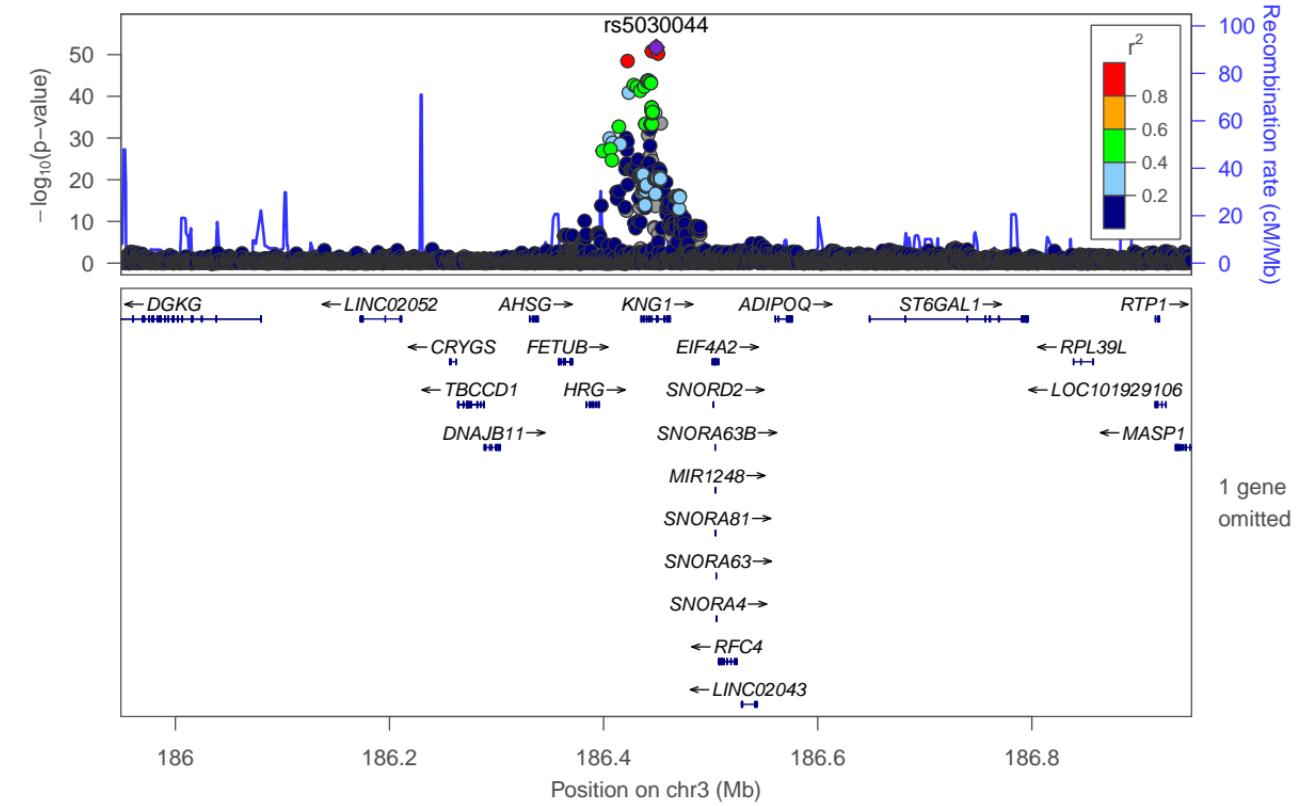
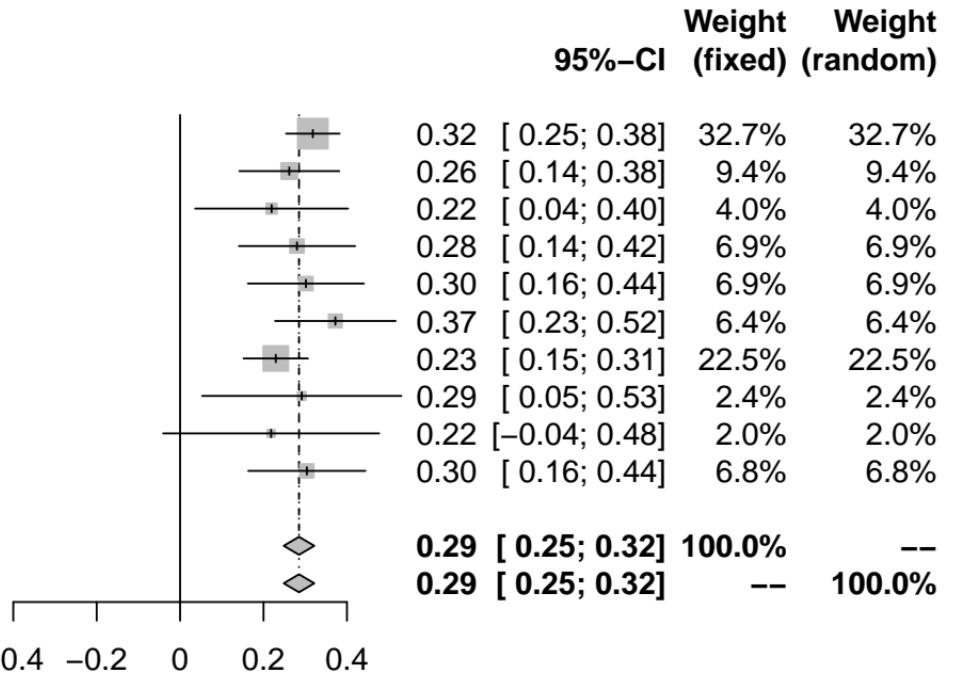
## Study

	TE	seTE
INTERVAL (4896)	0.32	0.0327
BioFinder (1496)	0.26	0.0611
EGCUT (487)	0.22	0.0935
KORA (1064)	0.28	0.0711
NSPHS (866)	0.30	0.0710
ORCADES (982)	0.37	0.0738
STABILITY (2951)	0.23	0.0394
STANLEY (344)	0.29	0.1219
STANLEY (300)	0.22	0.1322
VIS (901)	0.30	0.0717

## Fixed effect model

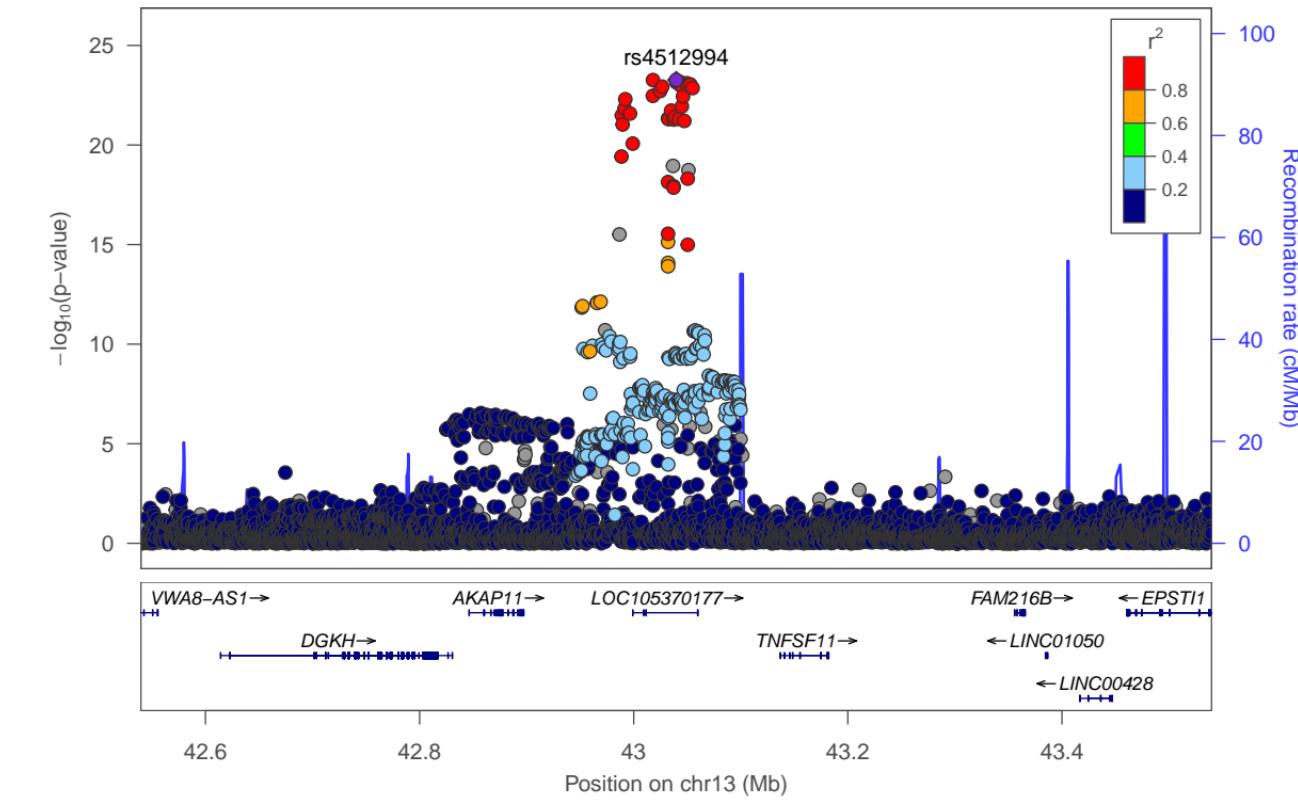
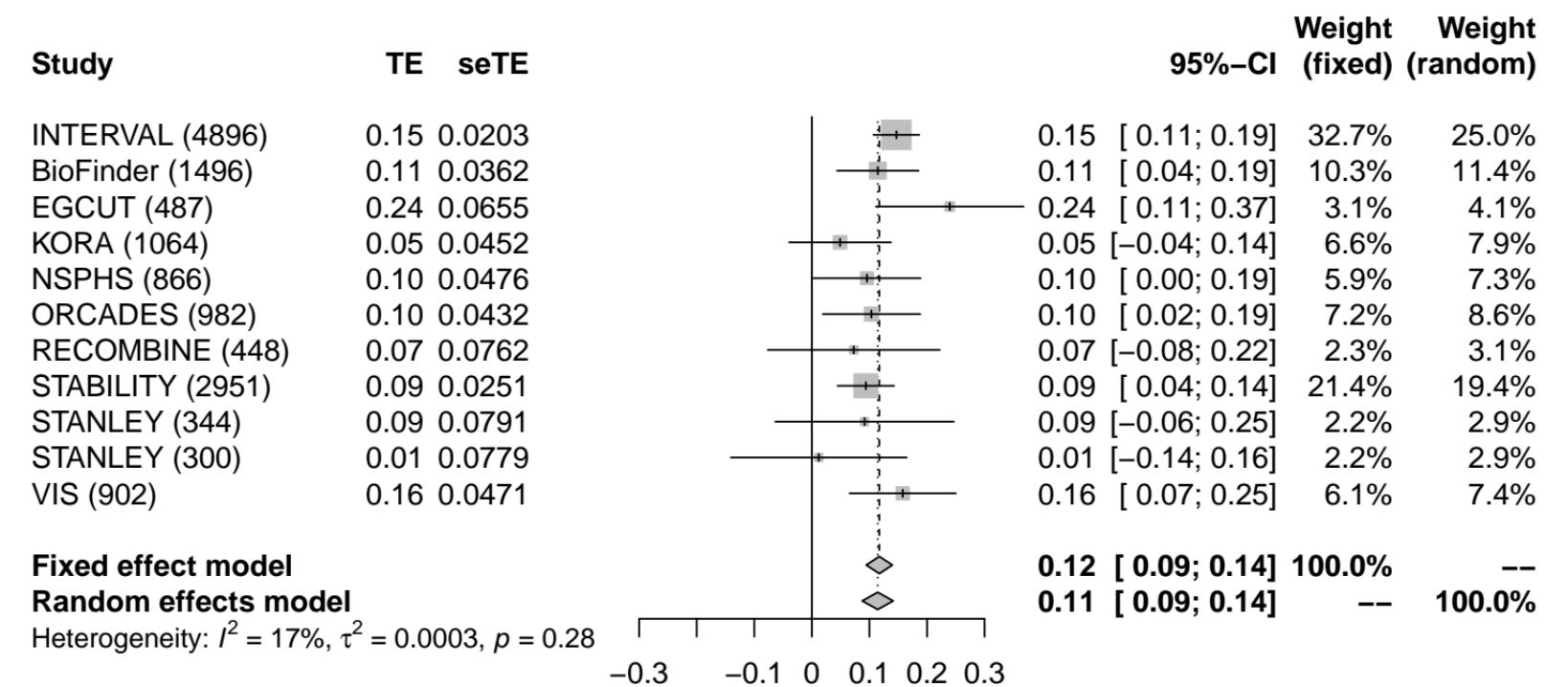
## Random effects model

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.79$



# TRANCE (TNFSF11)-rs4512994

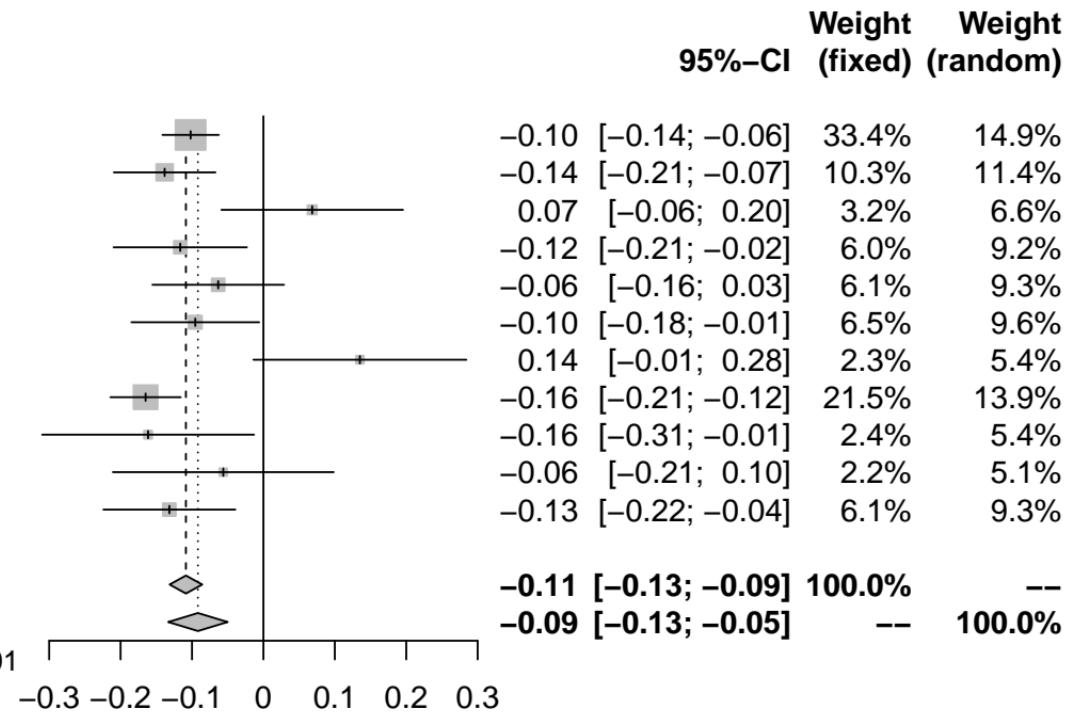
TRANCE [chr13:43039673\_A\_C (rs4512994) (A/C) N=14736]



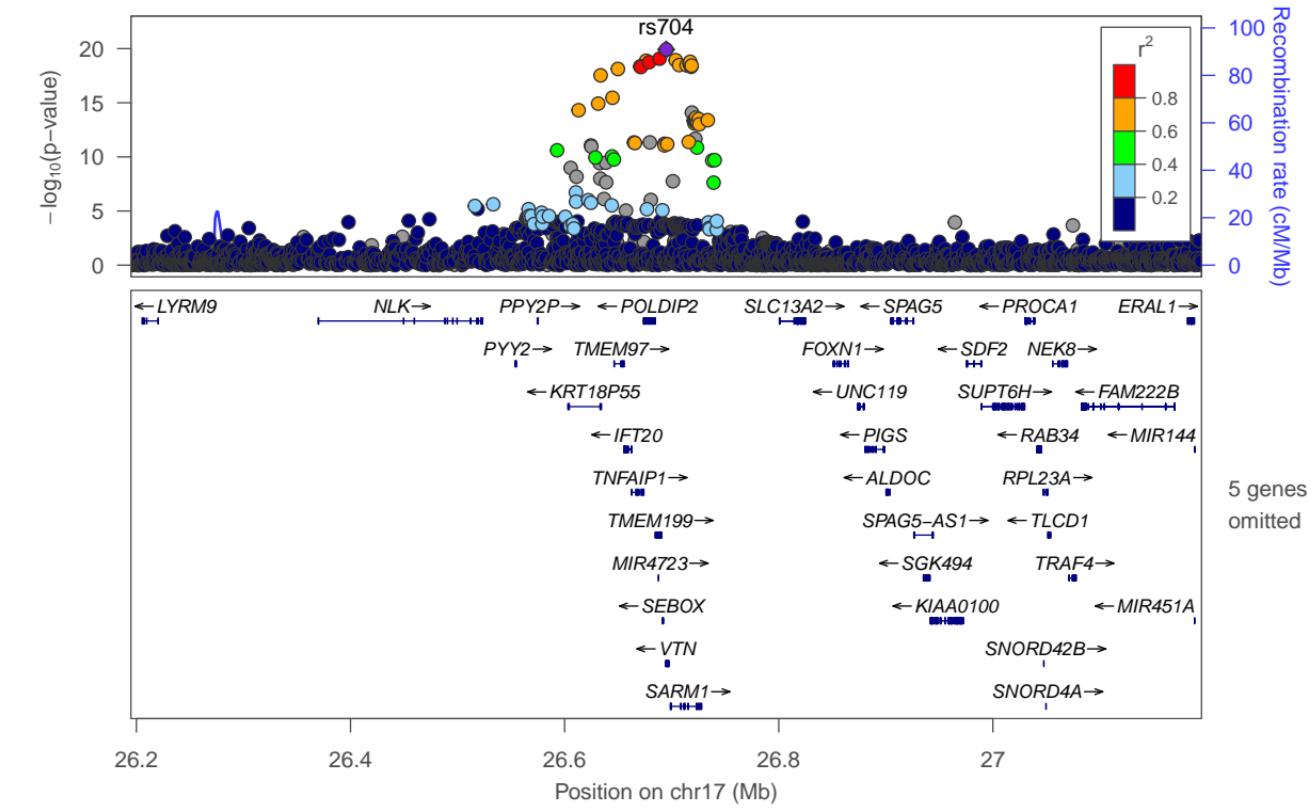
**Study**

## TRANCE [chr17:26694861\_A\_G (rs704) (A/G) N=14736]

	TE	seTE			95%-CI	Weight (fixed)	Weight (random)
INTERVAL (4896)	-0.10	0.0202			-0.10 [-0.14; -0.06]	33.4%	14.9%
BioFinder (1496)	-0.14	0.0363			-0.14 [-0.21; -0.07]	10.3%	11.4%
EGCUT (487)	0.07	0.0649			0.07 [-0.06; 0.20]	3.2%	6.6%
KORA (1064)	-0.12	0.0476			-0.12 [-0.21; -0.02]	6.0%	9.2%
NSPHS (866)	-0.06	0.0470			-0.06 [-0.16; 0.03]	6.1%	9.3%
ORCADES (982)	-0.10	0.0456			-0.10 [-0.18; -0.01]	6.5%	9.6%
RECOMBINE (448)	0.14	0.0761			0.14 [-0.01; 0.28]	2.3%	5.4%
STABILITY (2951)	-0.16	0.0251			-0.16 [-0.21; -0.12]	21.5%	13.9%
STANLEY (344)	-0.16	0.0757			-0.16 [-0.31; -0.01]	2.4%	5.4%
STANLEY (300)	-0.06	0.0789			-0.06 [-0.21; 0.10]	2.2%	5.1%
VIS (902)	-0.13	0.0471			-0.13 [-0.22; -0.04]	6.1%	9.3%
<b>Fixed effect model</b>					<b>-0.11 [-0.13; -0.09]</b>	<b>100.0%</b>	--
<b>Random effects model</b>					<b>-0.09 [-0.13; -0.05]</b>	--	<b>100.0%</b>

Heterogeneity:  $I^2 = 61\%$ ,  $\tau^2 = 0.0026$ ,  $p < 0.01$ 

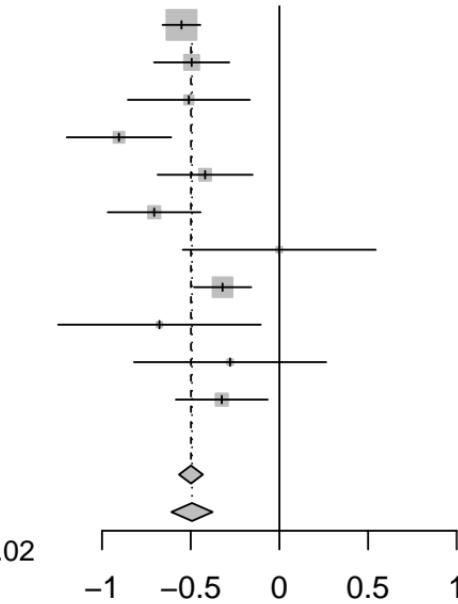
## TRANCE (TNFSF11)-rs704



**Study**

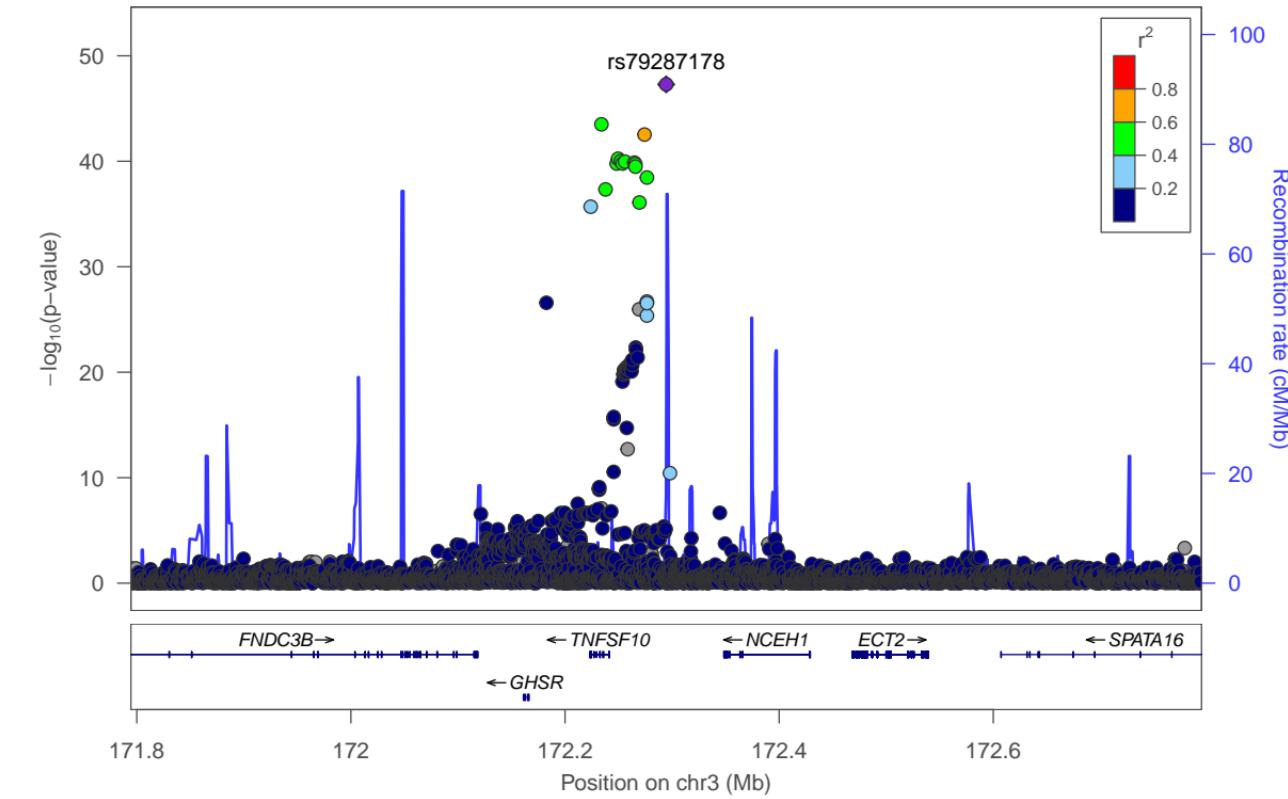
INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (431)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

## TRANCE [chr3:172294500\_A\_G (rs79287178) (A/G) N=14719]

**TE seTE****Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 54\%$ ,  $\tau^2 = 0.0174$ ,  $p = 0.02$ 

		95%-CI	Weight (fixed)	Weight (random)
		-0.55 [-0.66; -0.45]	39.7%	17.1%
		-0.49 [-0.71; -0.28]	10.0%	12.0%
		-0.51 [-0.85; -0.17]	3.8%	7.2%
		-0.90 [-1.20; -0.61]	5.2%	8.7%
		-0.42 [-0.69; -0.15]	6.3%	9.7%
		-0.71 [-0.97; -0.44]	6.6%	9.9%
		-0.00 [-0.54; 0.54]	1.5%	3.7%
		-0.32 [-0.48; -0.16]	17.3%	14.4%
		-0.68 [-1.25; -0.11]	1.4%	3.4%
		-0.28 [-0.82; 0.26]	1.5%	3.7%
		-0.32 [-0.58; -0.07]	6.7%	10.0%
	<b>Fixed effect model</b>	<b>-0.50 [-0.57; -0.43]</b>	<b>100.0%</b>	--
	<b>Random effects model</b>	<b>-0.49 [-0.61; -0.38]</b>	--	<b>100.0%</b>

## TRANCE (TNFSF11)-rs79287178



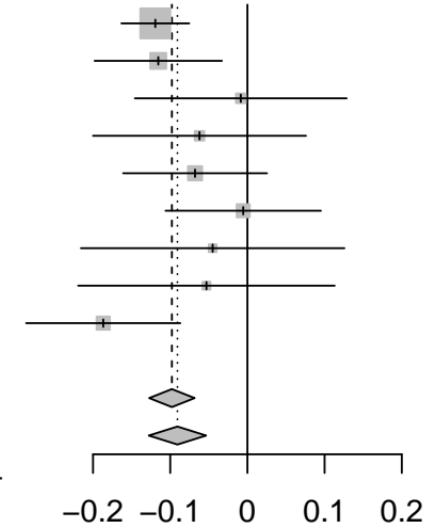
# TRANCE (TNFSF11)-rs11713634

TRANCE [chr3:194061578\_A\_G (rs11713634) (A/G) N=11337]

## Study

Study	TE	seTE
INTERVAL (4896)	-0.12	0.0224
BioFinder (1496)	-0.12	0.0421
EGCUT (487)	-0.01	0.0700
KORA (1064)	-0.06	0.0704
NSPHS (866)	-0.07	0.0476
ORCADES (982)	-0.01	0.0514
STANLEY (344)	-0.04	0.0871
STANLEY (300)	-0.05	0.0848
VIS (902)	-0.19	0.0510

TE seTE

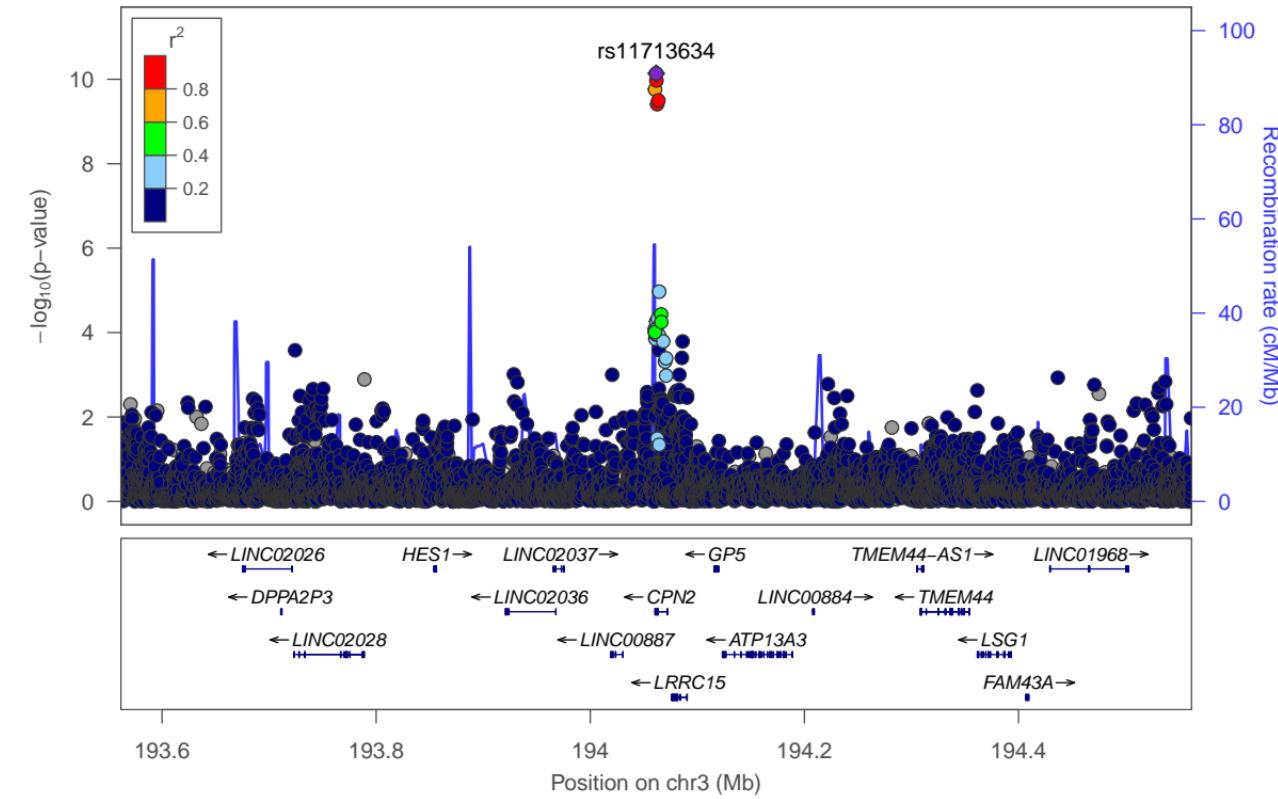


Fixed effect model

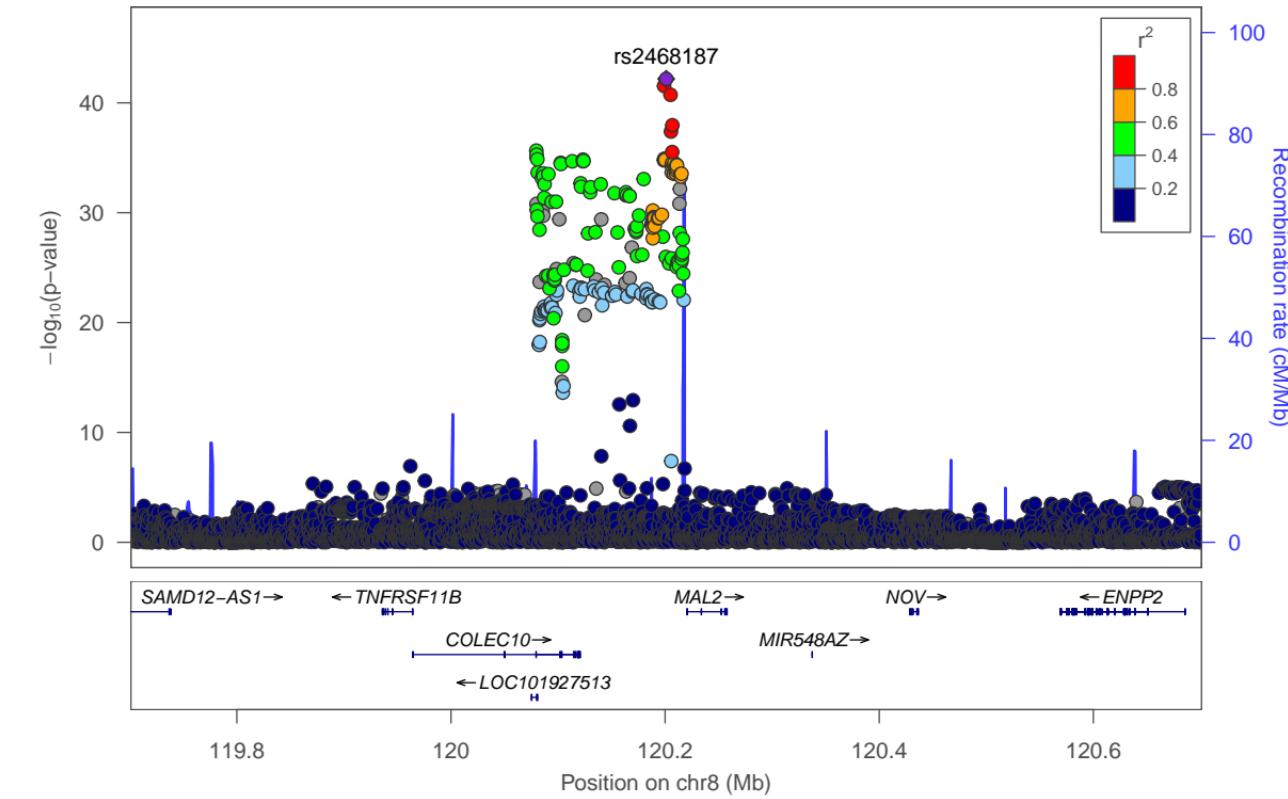
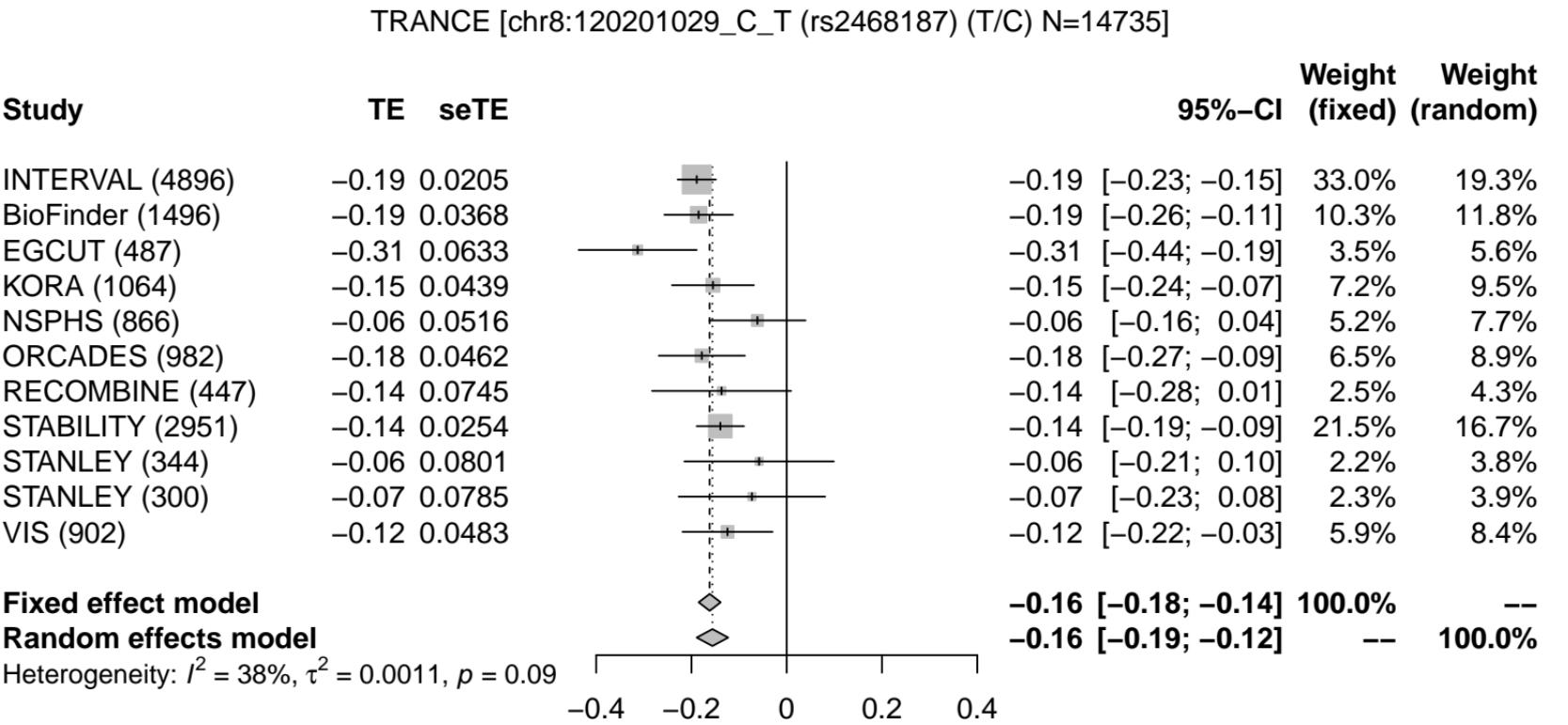
Random effects model

Heterogeneity:  $I^2 = 22\%$ ,  $\tau^2 = 0.0007$ ,  $p = 0.24$

	95%-CI	Weight (fixed)	Weight (random)
	-0.12 [-0.16; -0.08]	44.8%	30.0%
	-0.12 [-0.20; -0.03]	12.7%	14.6%
	-0.01 [-0.15; 0.13]	4.6%	6.4%
	-0.06 [-0.20; 0.08]	4.5%	6.3%
	-0.07 [-0.16; 0.03]	10.0%	12.1%
	-0.01 [-0.11; 0.10]	8.5%	10.8%
	-0.04 [-0.22; 0.13]	3.0%	4.3%
	-0.05 [-0.22; 0.11]	3.1%	4.5%
	-0.19 [-0.29; -0.09]	8.7%	10.9%
	<b>-0.10 [-0.13; -0.07]</b>	<b>100.0%</b>	--
	<b>-0.09 [-0.13; -0.05]</b>	--	<b>100.0%</b>



# TRANCE (TNFSF11)-rs2468187



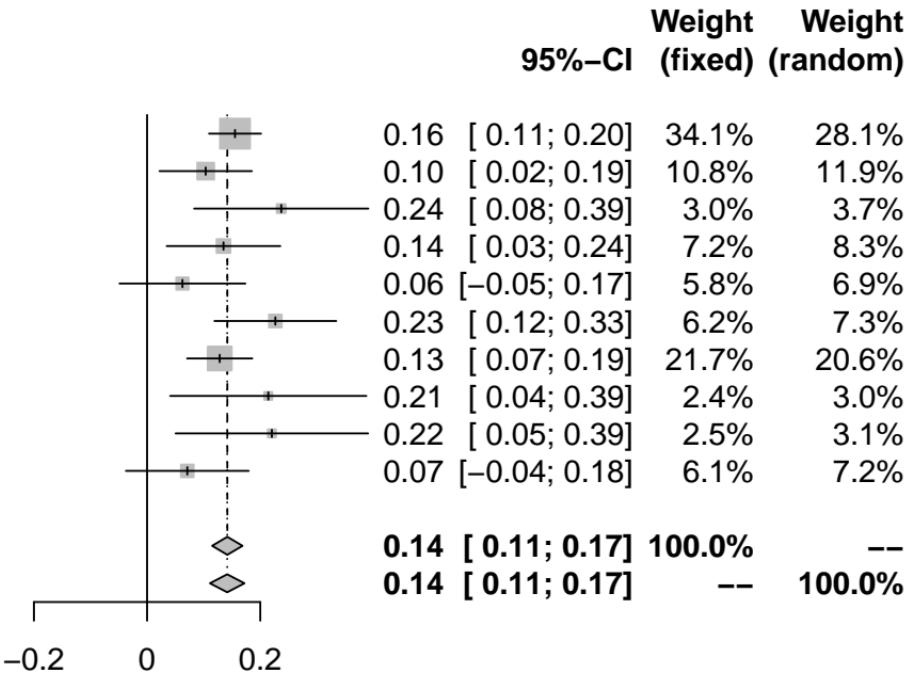
### TRANCE [chr8:23085868\_A\_G (rs4872091) (A/G) N=14288]

Study	TE	seTE
INTERVAL (4896)	0.16	0.0235
BioFinder (1496)	0.10	0.0417
EGCUT (487)	0.24	0.0786
KORA (1064)	0.14	0.0513
NSPHS (866)	0.06	0.0568
ORCADES (982)	0.23	0.0550
STABILITY (2951)	0.13	0.0294
STANLEY (344)	0.21	0.0885
STANLEY (300)	0.22	0.0868
VIS (902)	0.07	0.0554

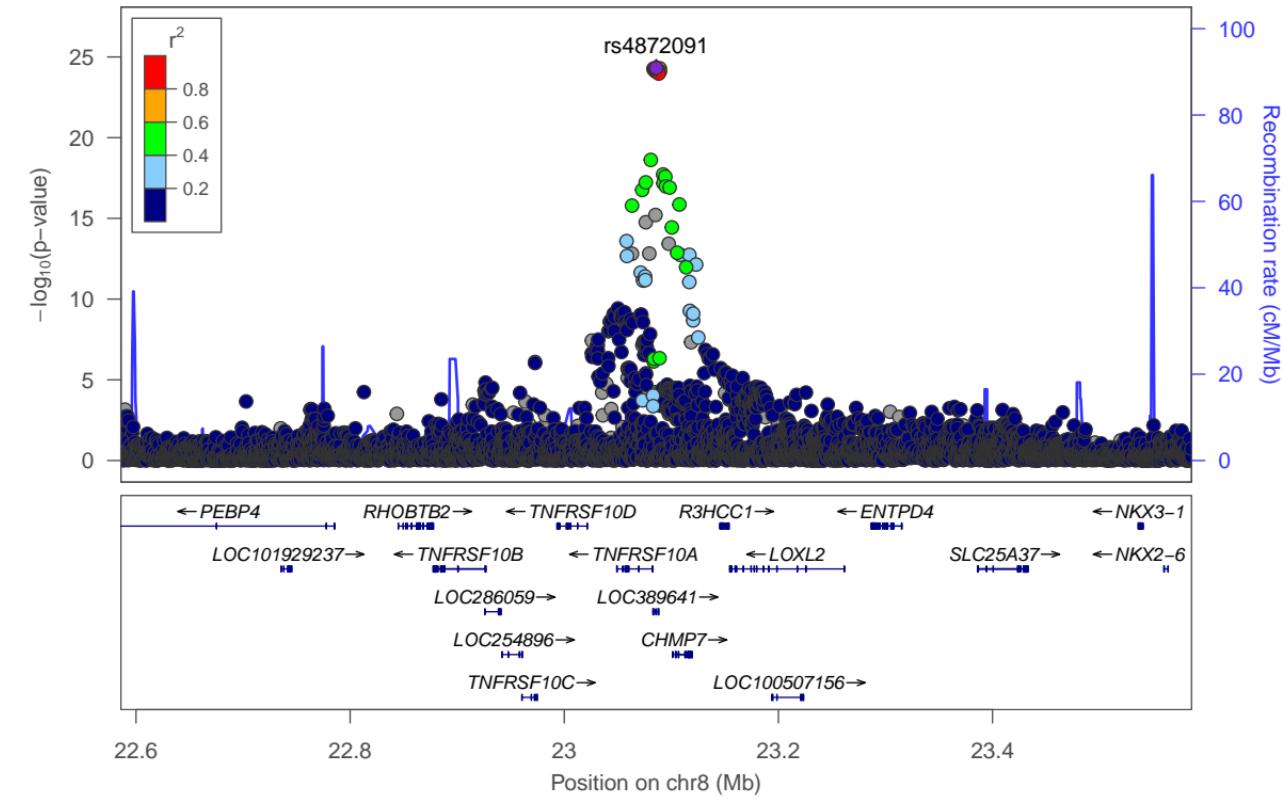
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 13\%$ ,  $\tau^2 = 0.0003$ ,  $p = 0.32$



### TRANCE (TNFSF11)-rs4872091



### TWEAK [chr17:7451110\_C\_T (rs34790908) (T/C) N=14732]

#### Study

	TE	seTE
INTERVAL (4896)	0.23	0.0227
BioFinder (1496)	0.32	0.0410
EGCUT (487)	0.16	0.0722
KORA (1064)	0.43	0.0475
NSPHS (866)	0.20	0.0615
ORCADES (982)	0.05	0.0524
RECOMBINE (444)	0.23	0.0478
STABILITY (2951)	0.13	0.0296
STANLEY (344)	0.21	0.0868
STANLEY (300)	0.20	0.0844
VIS (902)	0.09	0.0530

#### Fixed effect model

**0.21 [ 0.19; 0.24]**

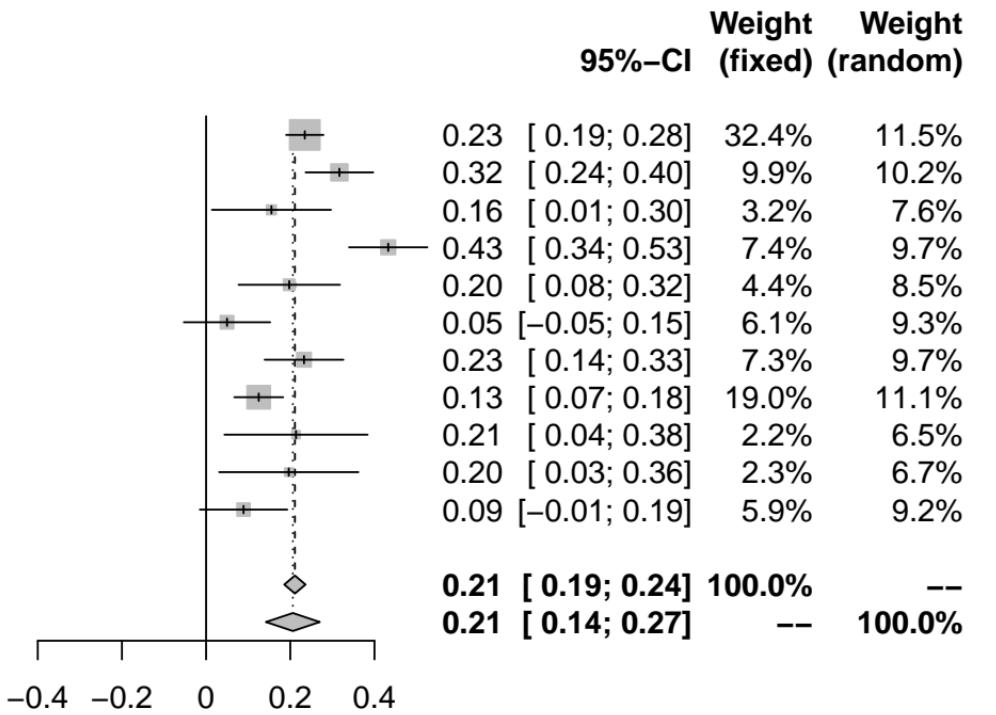
**100.0%**

#### Random effects model

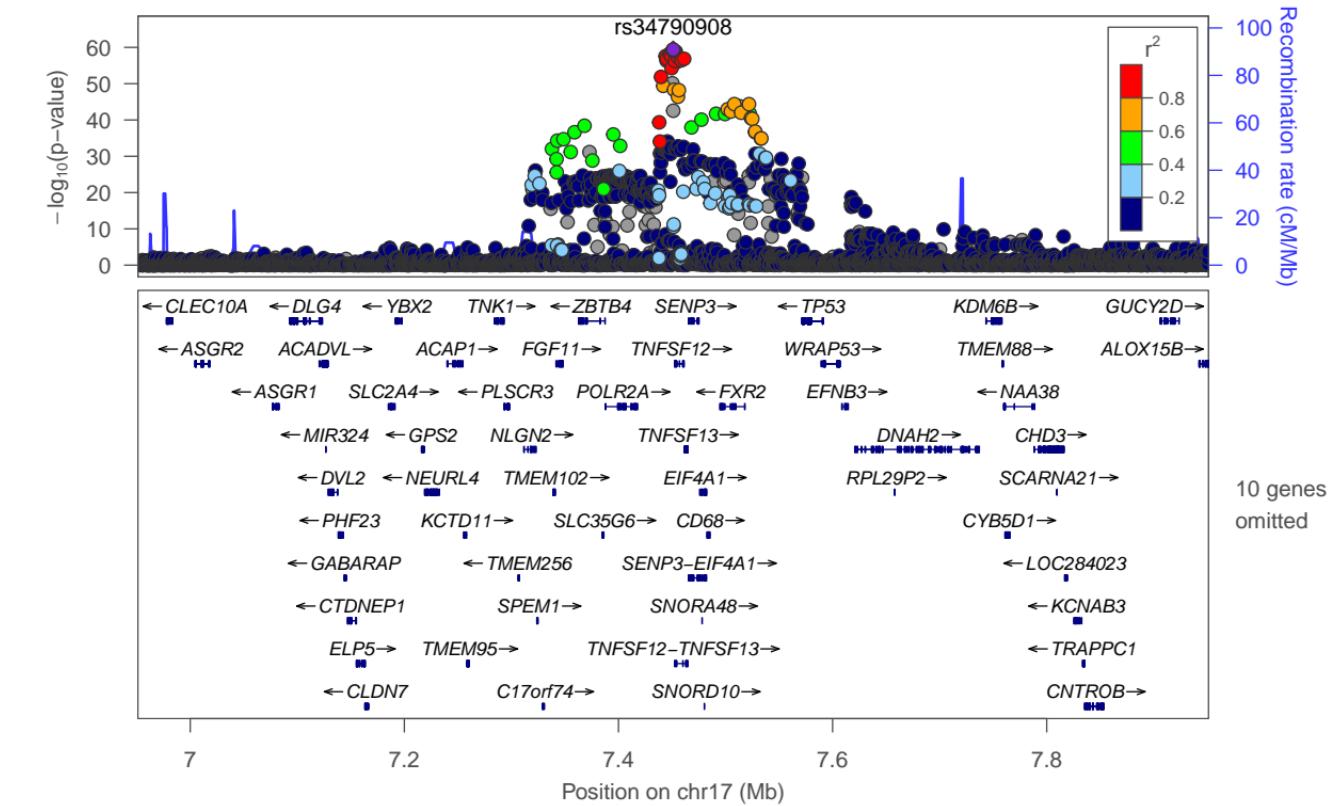
**0.21 [ 0.14; 0.27]**

**--**

Heterogeneity:  $I^2 = 81\%$ ,  $\tau^2 = 0.0088$ ,  $p < 0.01$



### TWEAK (TNFSF12)-rs34790908



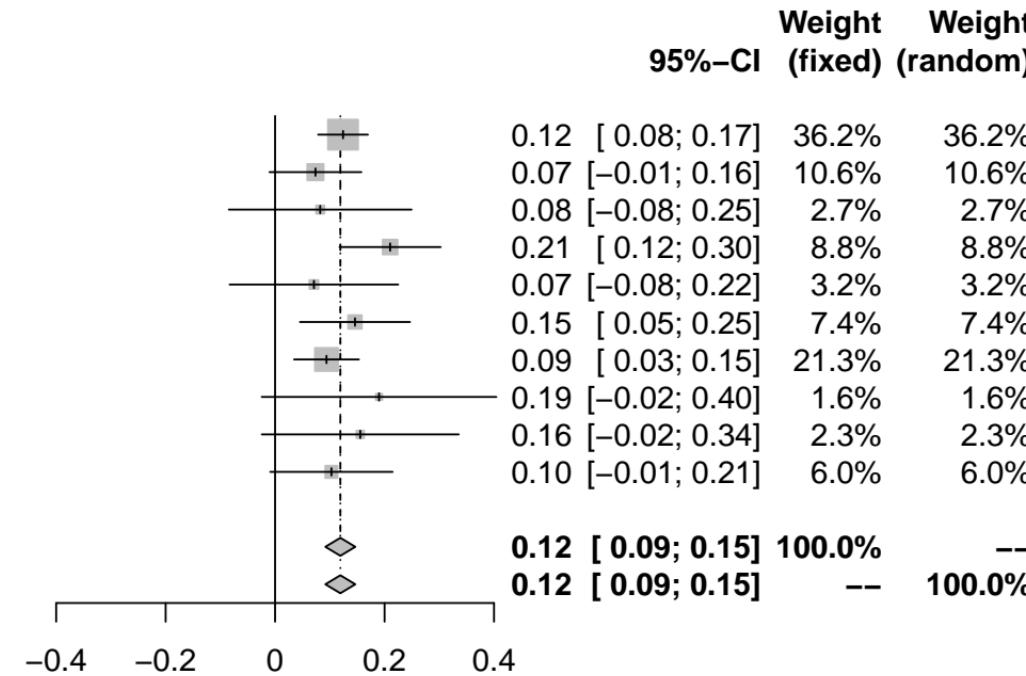
### TWEAK [chr3:143021856\_C\_G (rs9842051) (C/G) N=14288]

Study	TE	seTE
INTERVAL (4896)	0.12	0.0232
BioFinder (1496)	0.07	0.0429
EGCUT (487)	0.08	0.0852
KORA (1064)	0.21	0.0472
NSPHS (866)	0.07	0.0786
ORCADES (982)	0.15	0.0513
STABILITY (2951)	0.09	0.0302
STANLEY (344)	0.19	0.1094
STANLEY (300)	0.16	0.0918
VIS (902)	0.10	0.0570

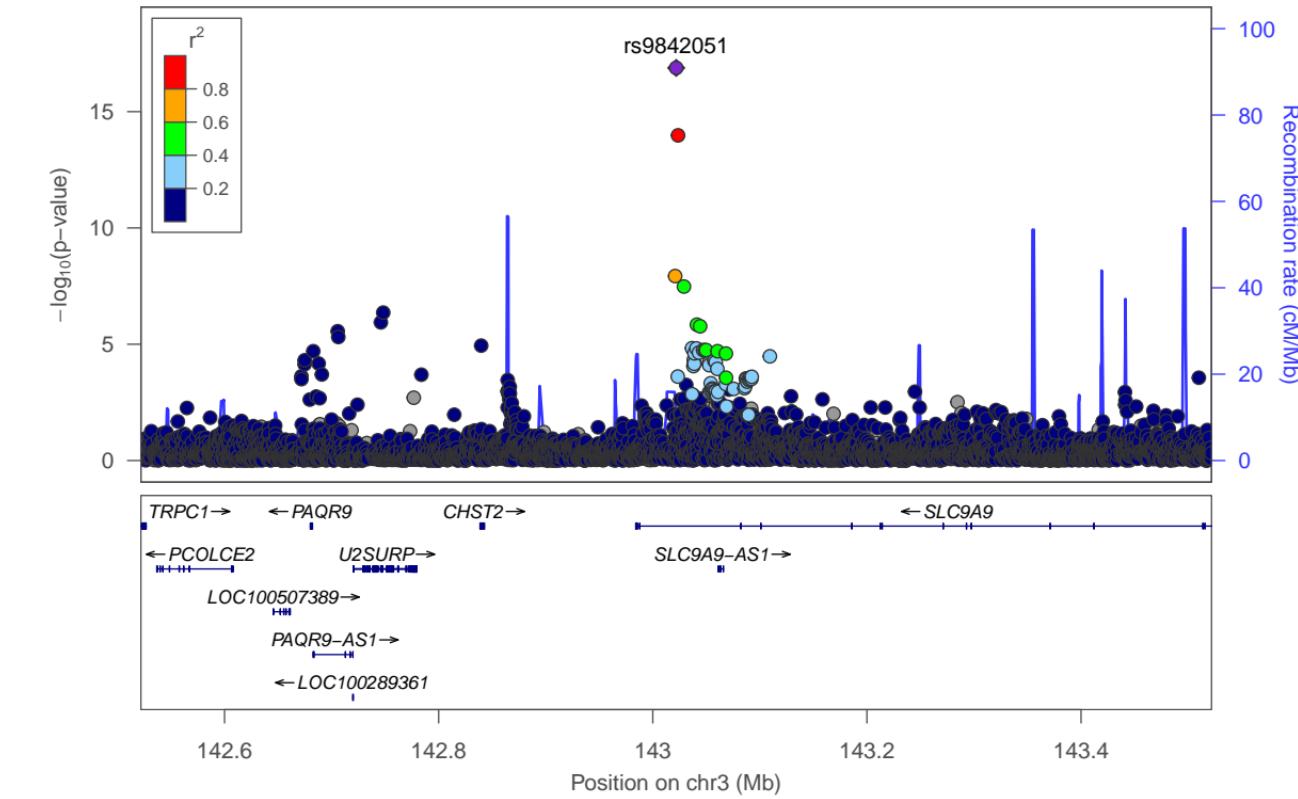
**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.63$



### TWEAK (TNFSF12)-rs9842051

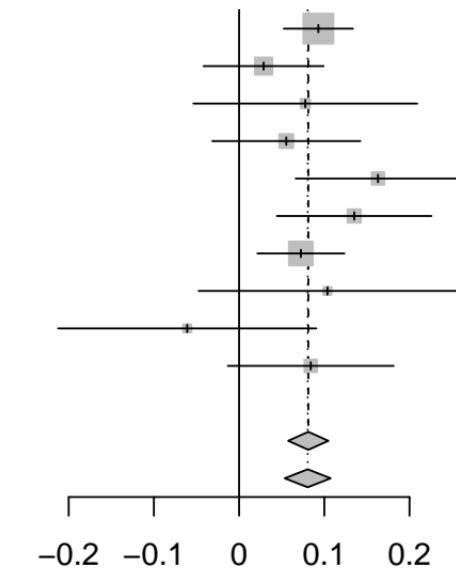


TWEAK [chr3:98429219\_C\_G (rs73133996) (C/G) N=14288]

**Study**

Study	TE	seTE
INTERVAL (4896)	0.09	0.0208
BioFinder (1496)	0.03	0.0360
EGCUT (487)	0.08	0.0670
KORA (1064)	0.06	0.0444
NSPHS (866)	0.16	0.0493
ORCADES (982)	0.14	0.0463
STABILITY (2951)	0.07	0.0261
STANLEY (344)	0.10	0.0772
STANLEY (300)	-0.06	0.0773
VIS (902)	0.08	0.0497

**TE seTE**

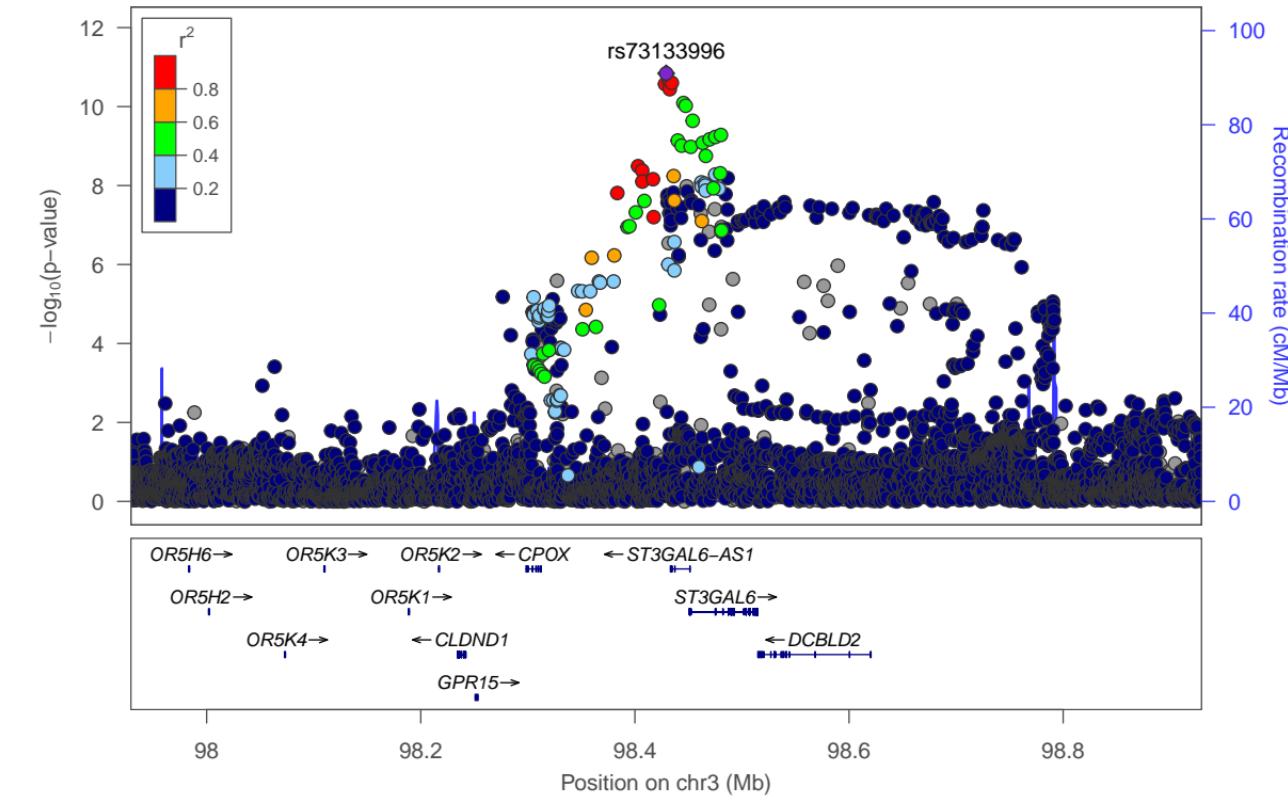


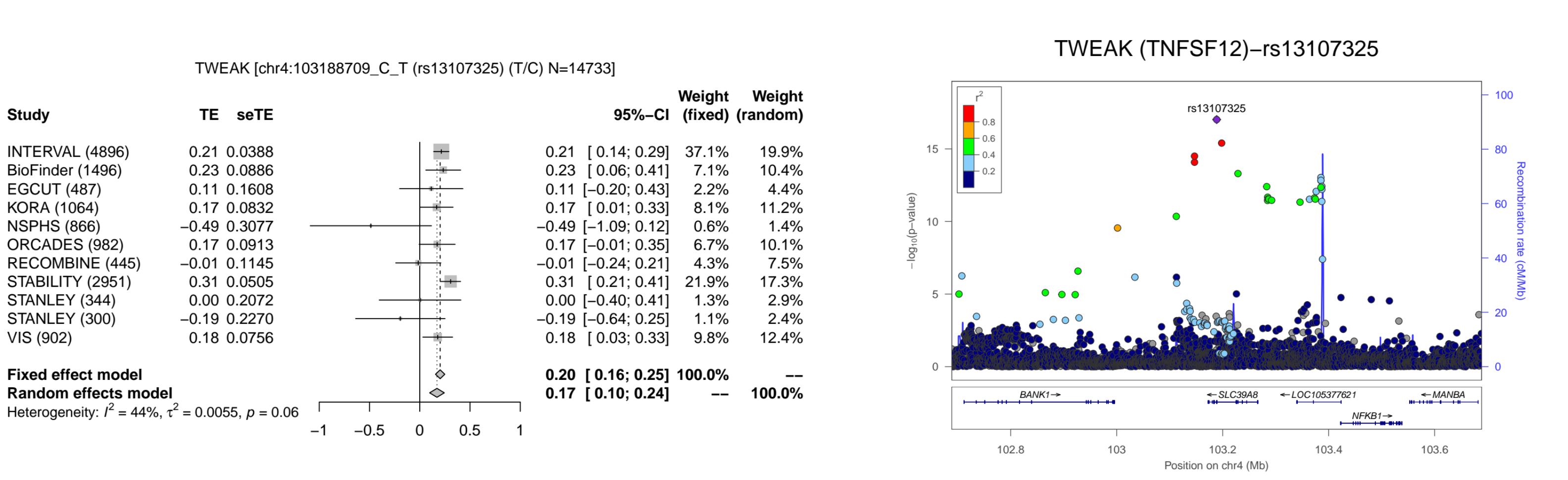
**Weight (fixed) (random)**

	95%-CI	Weight (fixed)	Weight (random)
	0.09 [ 0.05; 0.13]	33.6%	27.3%
	0.03 [-0.04; 0.10]	11.2%	12.2%
	0.08 [-0.05; 0.21]	3.2%	4.0%
	0.06 [-0.03; 0.14]	7.3%	8.5%
	0.16 [ 0.07; 0.26]	5.9%	7.0%
	0.14 [ 0.04; 0.23]	6.7%	7.9%
	0.07 [ 0.02; 0.12]	21.3%	20.1%
	0.10 [-0.05; 0.26]	2.4%	3.0%
	-0.06 [-0.21; 0.09]	2.4%	3.0%
	0.08 [-0.01; 0.18]	5.9%	6.9%
<b>Fixed effect model</b>	<b>0.08 [ 0.06; 0.10]</b>	<b>100.0%</b>	--
<b>Random effects model</b>	<b>0.08 [ 0.05; 0.11]</b>	--	<b>100.0%</b>

Heterogeneity:  $I^2 = 14\%$ ,  $\tau^2 = 0.0003$ ,  $p = 0.31$

TWEAK (TNFSF12)-rs73133996





### TWEAK [chr9:136154168\_C\_T (rs579459) (T/C) N=11785]

#### Study

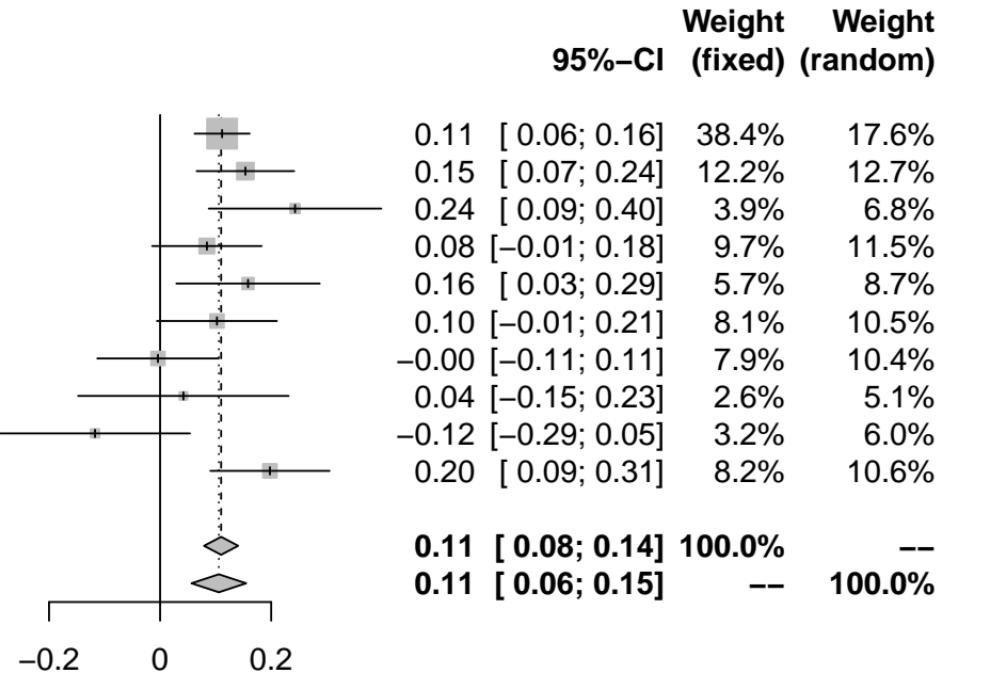
INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (982)  
RECOMBINE (448)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

TE seTE

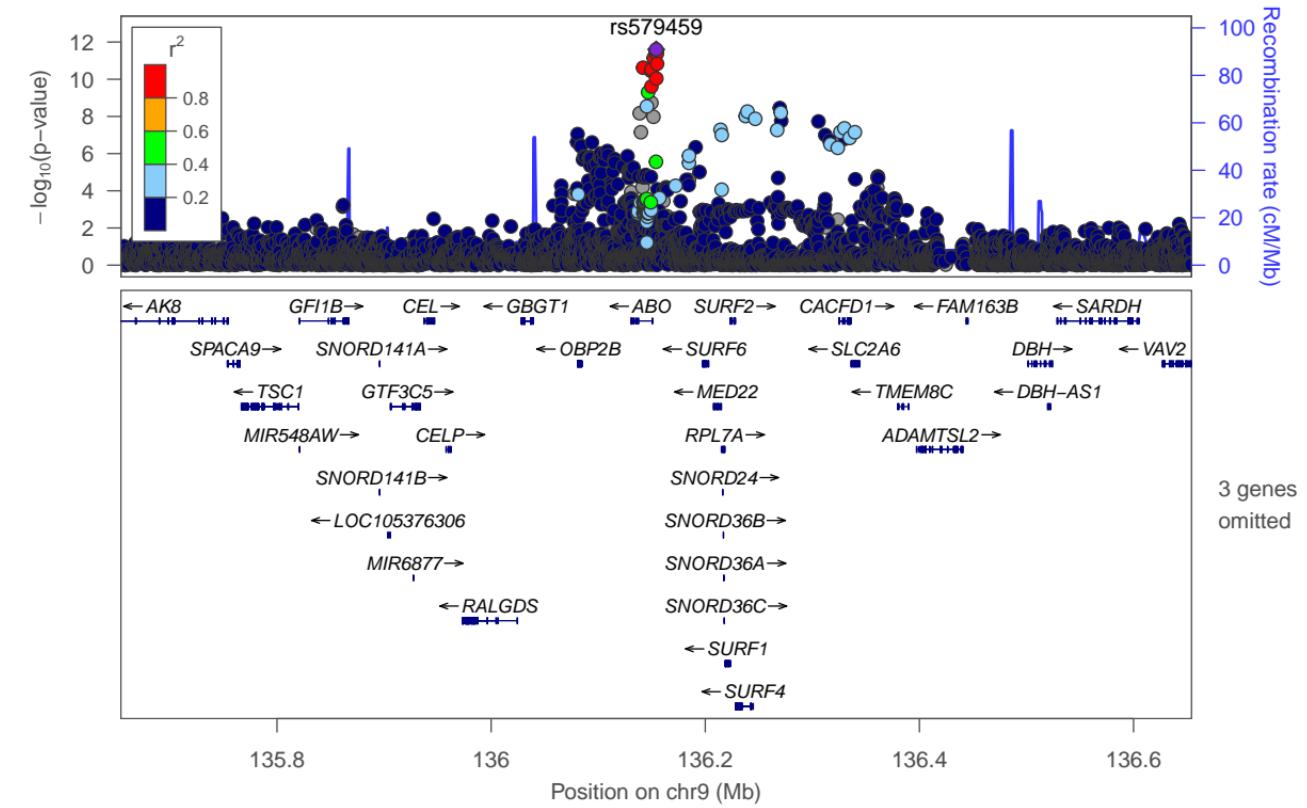
	TE	seTE
INTERVAL (4896)	0.11	0.0253
BioFinder (1496)	0.15	0.0448
EGCUT (487)	0.24	0.0793
KORA (1064)	0.08	0.0503
NSPHS (866)	0.16	0.0659
ORCADES (982)	0.10	0.0551
RECOMBINE (448)	-0.00	0.0558
STANLEY (344)	0.04	0.0967
STANLEY (300)	-0.12	0.0873
VIS (902)	0.20	0.0548

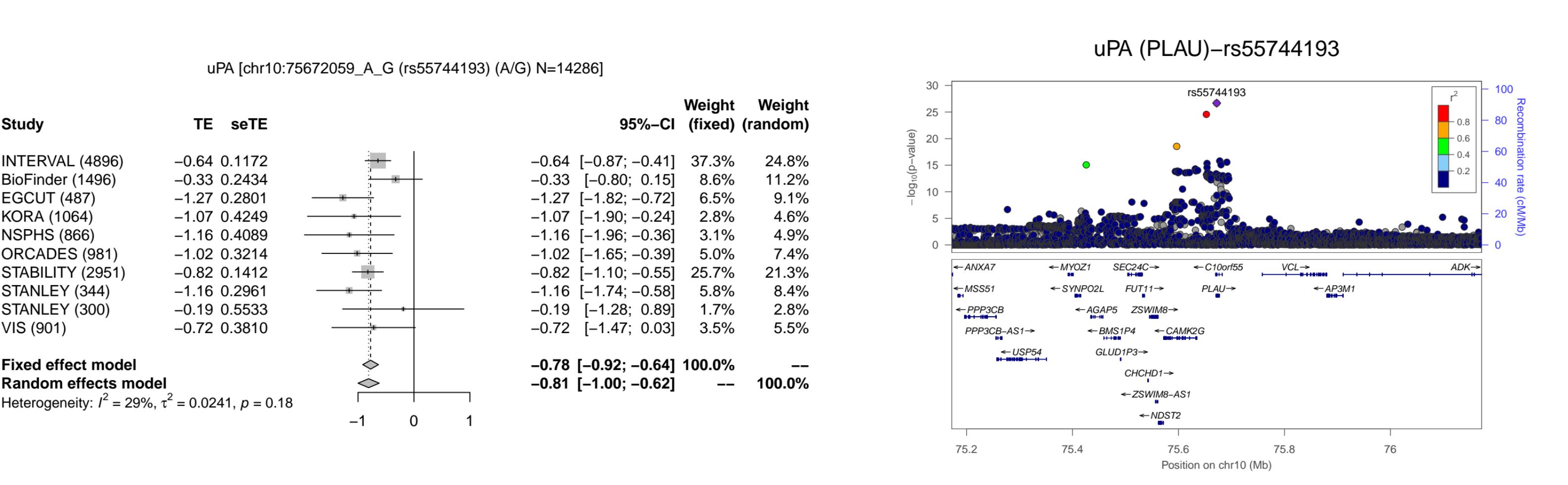
**Fixed effect model**  
**Random effects model**

Heterogeneity:  $I^2 = 52\%$ ,  $\tau^2 = 0.0029$ ,  $p = 0.03$



### TWEAK (TNFSF12)-rs579459



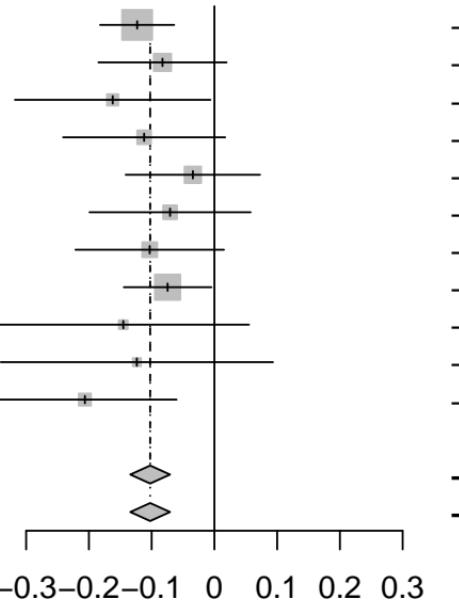


**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (445)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

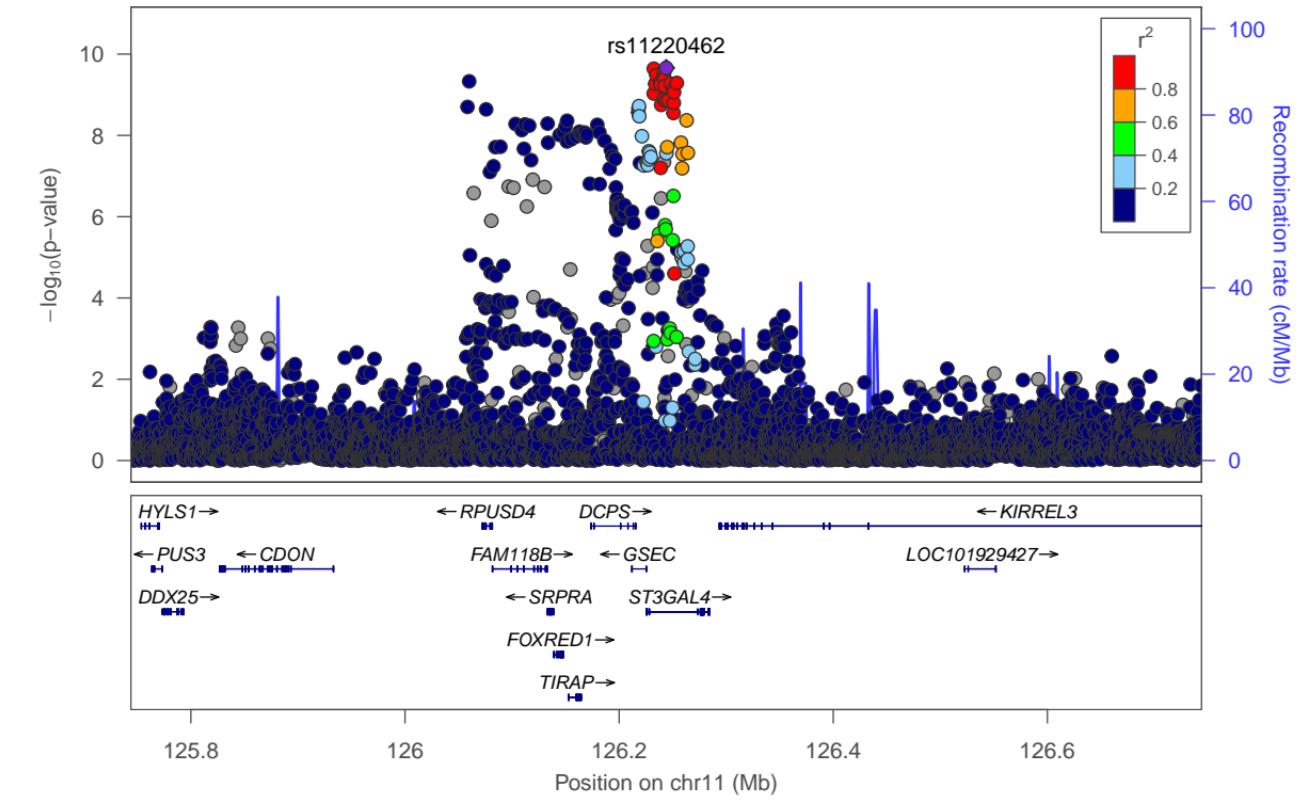
TE seTE

-0.12	0.0301
-0.08	0.0521
-0.16	0.0795
-0.11	0.0659
-0.03	0.0546
-0.07	0.0655
-0.10	0.0604
-0.07	0.0357
-0.15	0.1022
-0.12	0.1107
-0.21	0.0746

**uPA [chr11:126243952\_A\_G (rs11220462) (A/G) N=14731]**

	TE	seTE	95%-CI	Weight (fixed)	Weight (random)
	-0.12	0.0301	-0.12 [-0.18; -0.06]	28.7%	28.7%
	-0.08	0.0521	-0.08 [-0.18; 0.02]	9.6%	9.6%
	-0.16	0.0795	-0.16 [-0.32; -0.01]	4.1%	4.1%
	-0.11	0.0659	-0.11 [-0.24; 0.02]	6.0%	6.0%
	-0.03	0.0546	-0.03 [-0.14; 0.07]	8.7%	8.7%
	-0.07	0.0655	-0.07 [-0.20; 0.06]	6.1%	6.1%
	-0.10	0.0604	-0.10 [-0.22; 0.02]	7.1%	7.1%
	-0.07	0.0357	-0.07 [-0.14; 0.00]	20.5%	20.5%
	-0.15	0.1022	-0.15 [-0.35; 0.06]	2.5%	2.5%
	-0.12	0.1107	-0.12 [-0.34; 0.09]	2.1%	2.1%
	-0.21	0.0746	-0.21 [-0.35; -0.06]	4.7%	4.7%
<b>Fixed effect model</b>			<b>-0.10 [-0.13; -0.07]</b>	<b>100.0%</b>	--
<b>Random effects model</b>			<b>-0.10 [-0.13; -0.07]</b>	--	<b>100.0%</b>

Heterogeneity:  $I^2 = 0\%$ ,  $\tau^2 = 0$ ,  $p = 0.84$

**uPA (PLAU)-rs11220462**

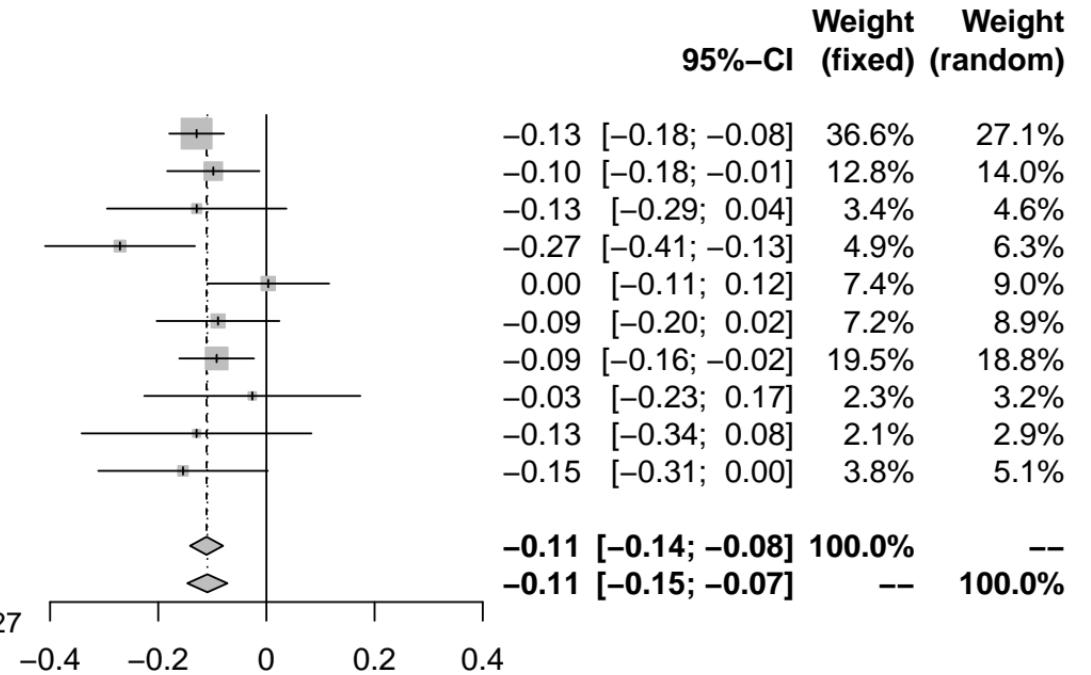
### uPA [chr17:7063667\_C\_T (rs7406661) (T/C) N=14286]

#### Study

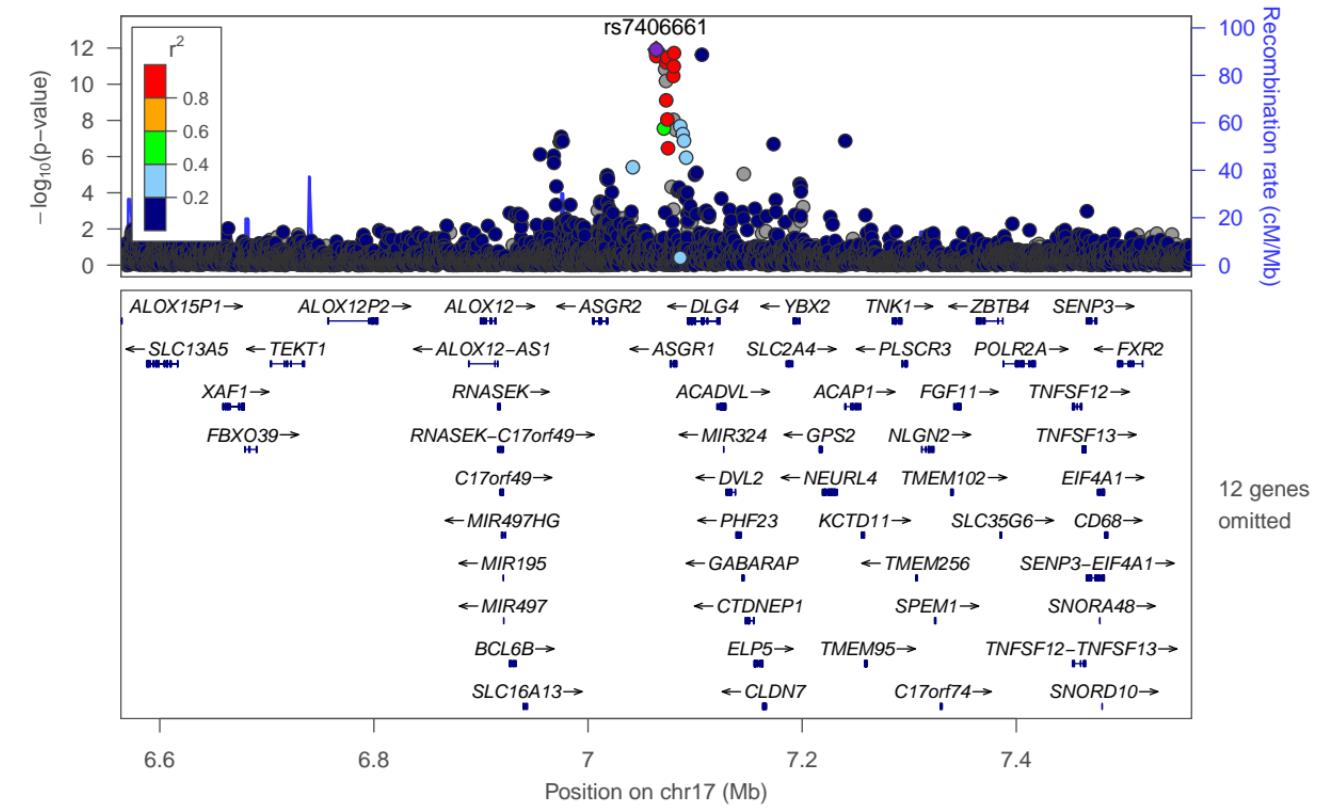
	TE	seTE
INTERVAL (4896)	-0.13	0.0258
BioFinder (1496)	-0.10	0.0435
EGCUT (487)	-0.13	0.0846
KORA (1064)	-0.27	0.0707
NSPHS (866)	0.00	0.0575
ORCADES (981)	-0.09	0.0579
STABILITY (2951)	-0.09	0.0352
STANLEY (344)	-0.03	0.1019
STANLEY (300)	-0.13	0.1084
VIS (901)	-0.15	0.0799

**Fixed effect model**  
**Random effects model**

Heterogeneity:  $I^2 = 19\%$ ,  $\tau^2 = 0.0007$ ,  $p = 0.27$



### uPA (PLAU)-rs7406661

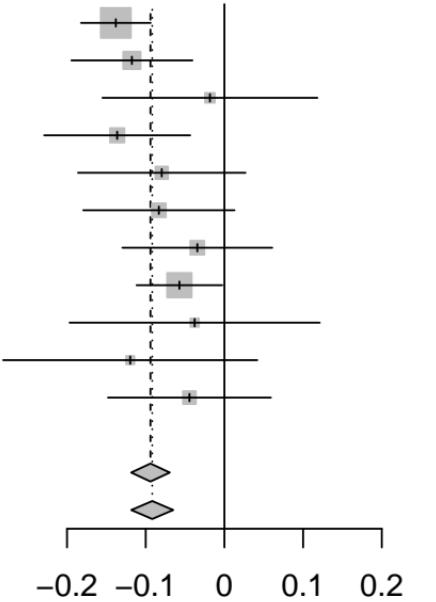


**Study**

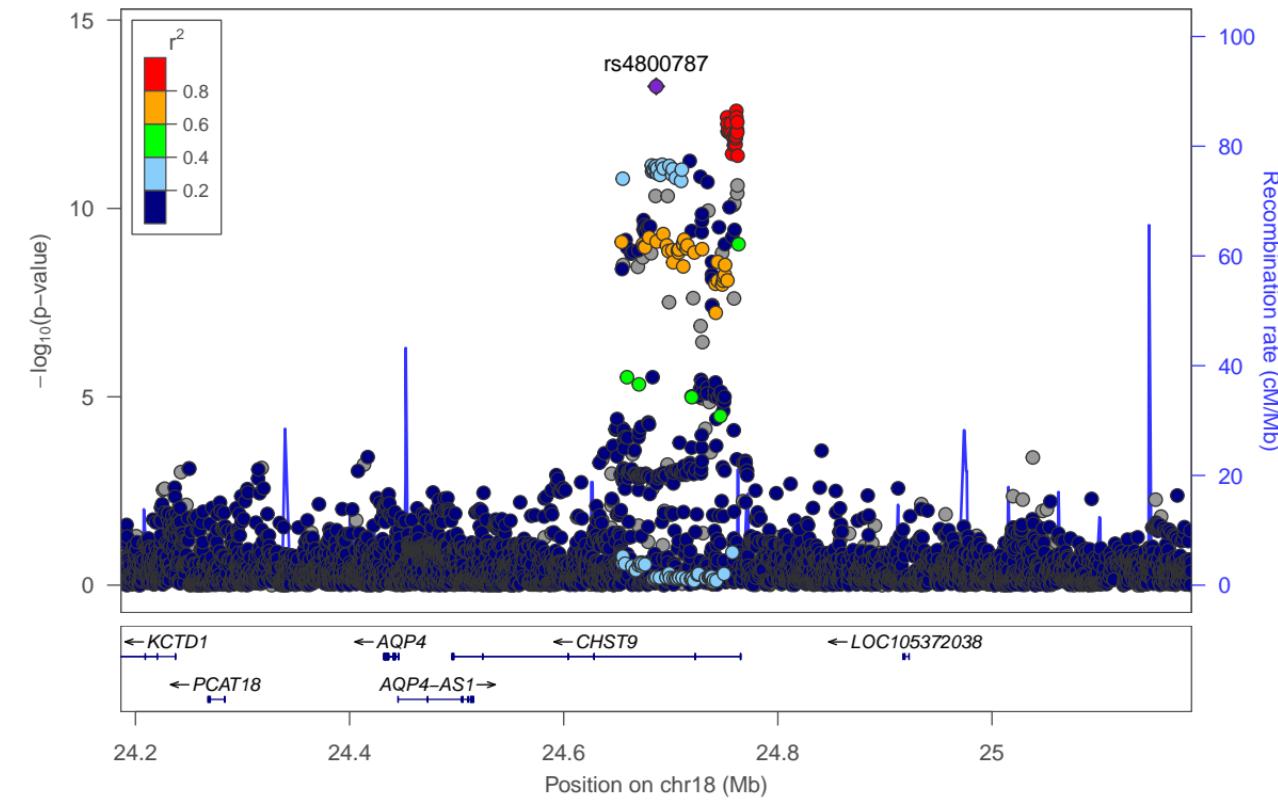
INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (444)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

**TE seTE**

-0.14 0.0226  
-0.12 0.0393  
-0.02 0.0697  
-0.14 0.0473  
-0.08 0.0543  
-0.08 0.0490  
-0.03 0.0486  
-0.06 0.0278  
-0.04 0.0811  
-0.12 0.0824  
-0.04 0.0528

**Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 9\%$ ,  $\tau^2 = 0.0002$ ,  $p = 0.36$ **uPA [chr18:24686365\_C\_T (rs4800787) (T/C) N=14730]****95%-CI****Weight (fixed)****Weight (random)**

	95%-CI	Weight (fixed)	Weight (random)
-0.14 [-0.18; -0.09]	30.6%	26.7%	
-0.12 [-0.19; -0.04]	10.2%	10.7%	
-0.02 [-0.16; 0.12]	3.2%	3.7%	
-0.14 [-0.23; -0.04]	7.0%	7.6%	
-0.08 [-0.19; 0.03]	5.3%	5.9%	
-0.08 [-0.18; 0.01]	6.5%	7.1%	
-0.03 [-0.13; 0.06]	6.6%	7.3%	
-0.06 [-0.11; 0.00]	20.3%	19.4%	
-0.04 [-0.20; 0.12]	2.4%	2.7%	
-0.12 [-0.28; 0.04]	2.3%	2.6%	
-0.04 [-0.15; 0.06]	5.6%	6.2%	
<b>-0.09 [-0.12; -0.07]</b>	<b>100.0%</b>	--	
<b>-0.09 [-0.12; -0.07]</b>	--	<b>100.0%</b>	

**uPA (PLAU)-rs4800787**

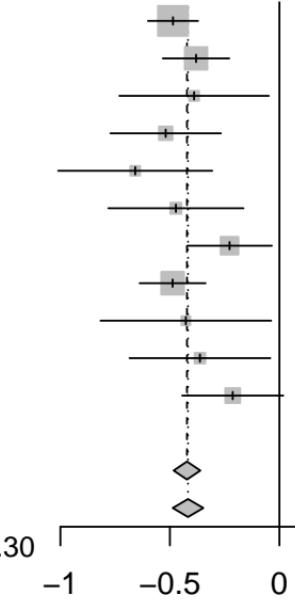
### uPA [chr19:44174441\_C\_T (rs4251805) (T/C) N=14734]

#### Study

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (448)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

TE seTE

-0.49 0.0584  
-0.38 0.0775  
-0.39 0.1743  
-0.52 0.1288  
-0.66 0.1796  
-0.47 0.1574  
-0.23 0.0986  
-0.49 0.0769  
-0.43 0.1989  
-0.36 0.1641  
-0.21 0.1179



Weight (fixed) Weight (random)

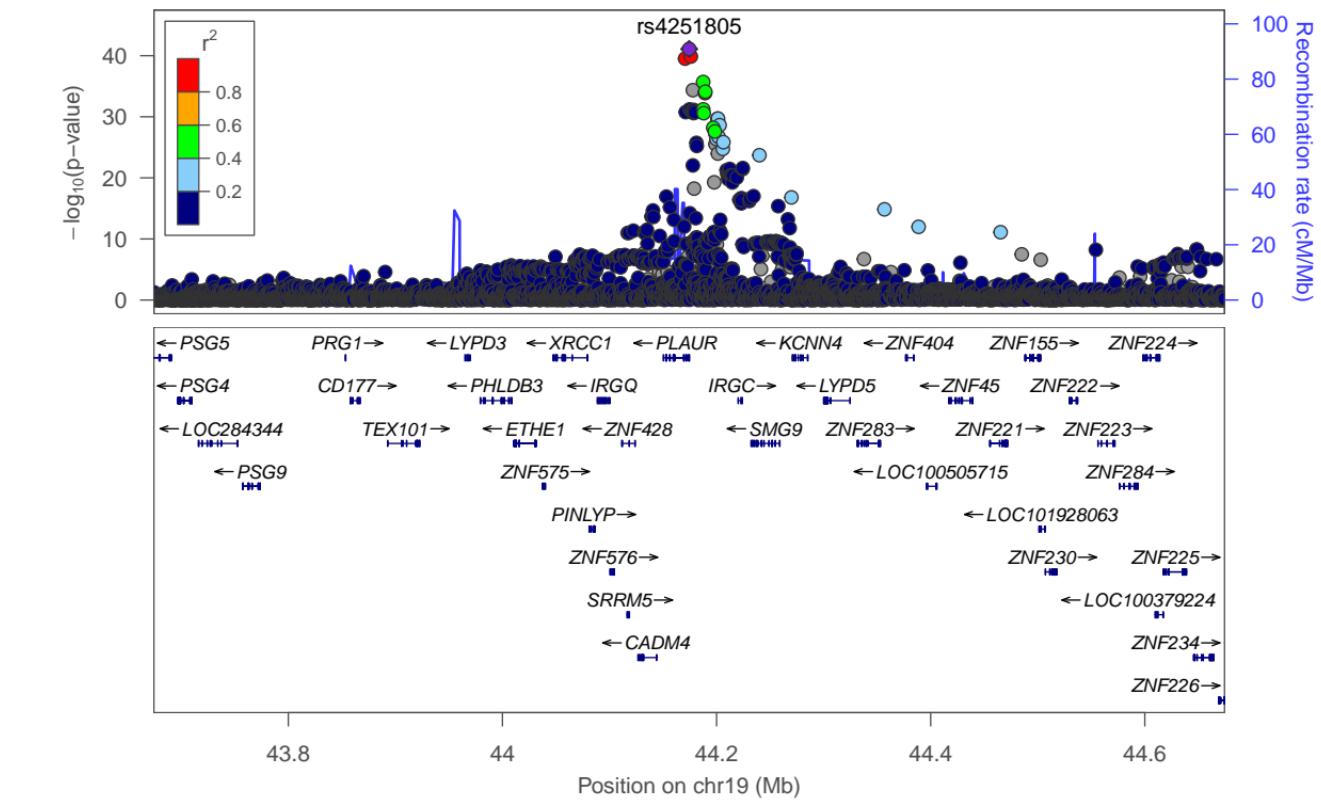
	95%-CI	Weight (fixed)	Weight (random)
-0.49 [-0.60; -0.37]	28.5%	23.1%	
-0.38 [-0.53; -0.23]	16.1%	15.7%	
-0.39 [-0.73; -0.05]	3.2%	3.9%	
-0.52 [-0.77; -0.27]	5.8%	6.8%	
-0.66 [-1.01; -0.31]	3.0%	3.7%	
-0.47 [-0.78; -0.16]	3.9%	4.7%	
-0.23 [-0.42; -0.03]	10.0%	10.8%	
-0.49 [-0.64; -0.34]	16.4%	15.9%	
-0.43 [-0.82; -0.04]	2.5%	3.0%	
-0.36 [-0.68; -0.04]	3.6%	4.4%	
-0.21 [-0.44; 0.02]	7.0%	7.9%	
<b>-0.42 [-0.48; -0.36]</b>	<b>100.0%</b>	--	
<b>-0.42 [-0.49; -0.35]</b>	--	<b>100.0%</b>	

**Fixed effect model**

**Random effects model**

Heterogeneity:  $I^2 = 15\%$ ,  $\tau^2 = 0.0021$ ,  $p = 0.30$

### uPA (PLAU)-rs4251805



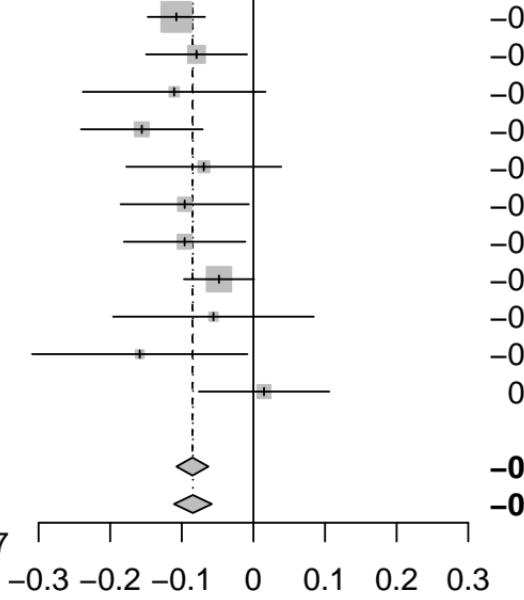
**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (866)  
ORCADES (981)  
RECOMBINE (443)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (901)

**TE seTE**

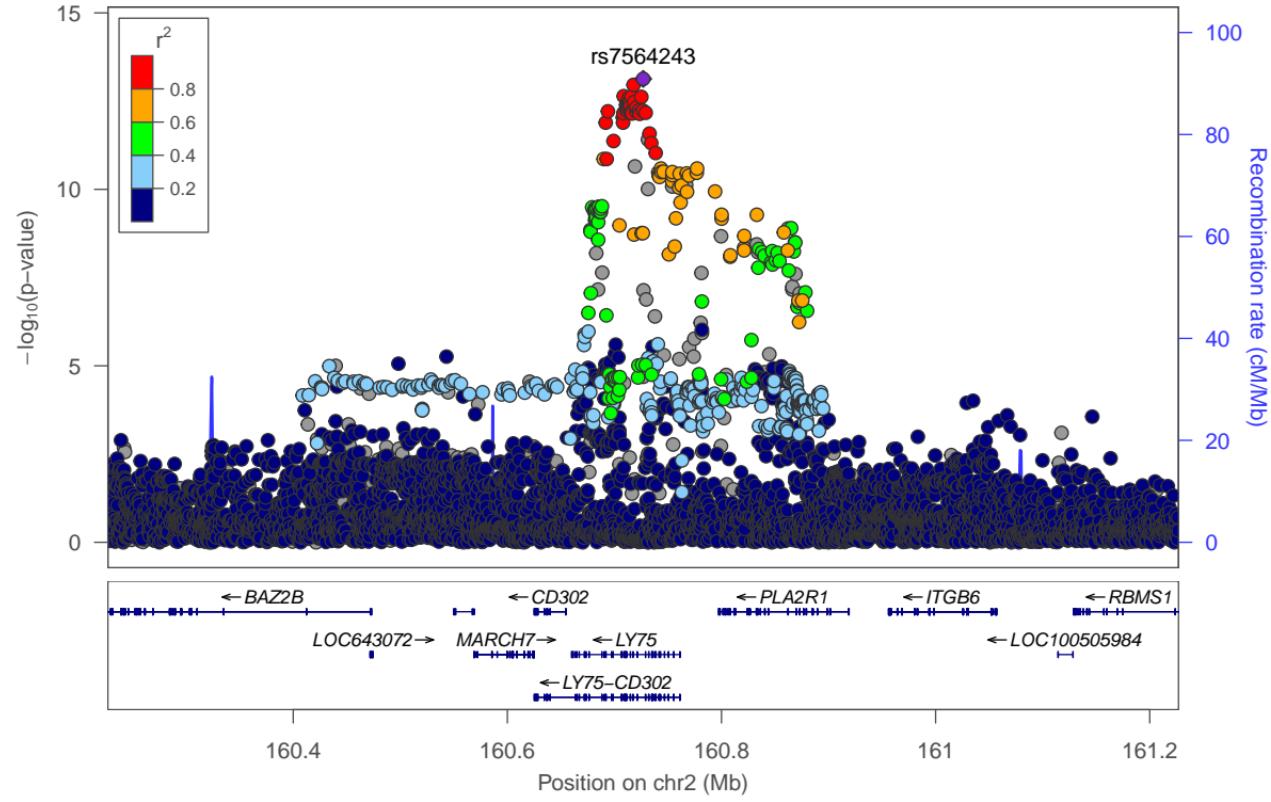
-0.11 0.0204  
-0.08 0.0360  
-0.11 0.0651  
-0.16 0.0434  
-0.07 0.0552  
-0.10 0.0457  
-0.10 0.0433  
-0.05 0.0250  
-0.06 0.0715  
-0.16 0.0767  
0.01 0.0465

uPA [chr2:160726868\_A\_G (rs7564243) (A/G) N=14729]

**Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 18\%$ ,  $\tau^2 = 0.0003$ ,  $p = 0.27$ **95%-CI Weight (fixed) Weight (random)**

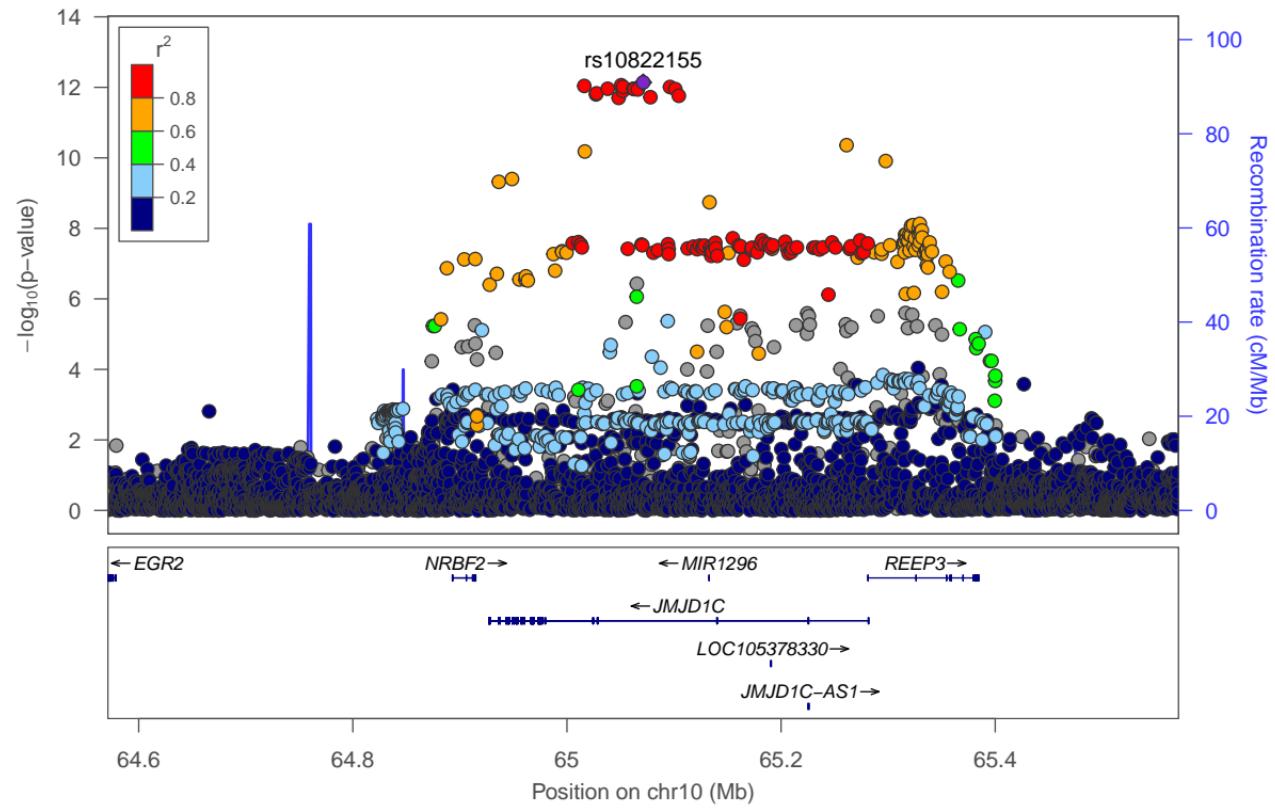
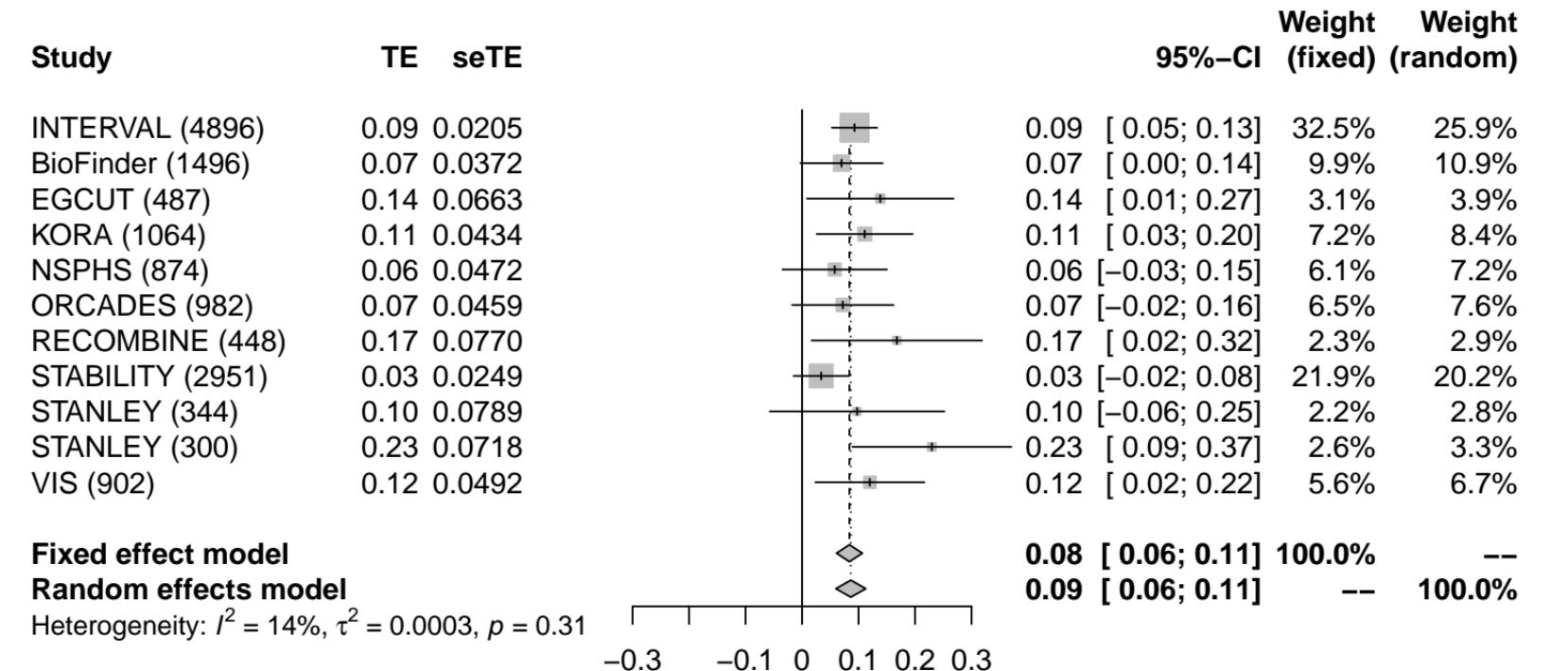
	95%-CI	Weight (fixed)	Weight (random)
-0.11 [-0.15; -0.07]	31.1%	23.8%	
-0.08 [-0.15; -0.01]	10.0%	11.0%	
-0.11 [-0.24; 0.02]	3.1%	3.9%	
-0.16 [-0.24; -0.07]	6.9%	8.1%	
-0.07 [-0.18; 0.04]	4.3%	5.3%	
-0.10 [-0.19; -0.01]	6.2%	7.4%	
-0.10 [-0.18; -0.01]	6.9%	8.2%	
-0.05 [-0.10; 0.00]	20.8%	18.7%	
-0.06 [-0.20; 0.08]	2.5%	3.3%	
-0.16 [-0.31; -0.01]	2.2%	2.9%	
0.01 [-0.08; 0.11]	6.0%	7.2%	
<b>-0.09 [-0.11; -0.06]</b>	<b>100.0%</b>	--	
<b>-0.08 [-0.11; -0.06]</b>	--	<b>100.0%</b>	

## uPA (PLAU)-rs7564243



## VEGF\_A (VEGFA)-rs10822155

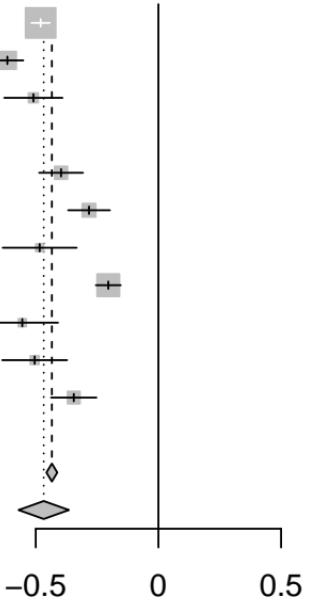
VEGF\_A [chr10:65071215\_A\_C (rs10822155) (A/C) N=14744]



**Study**

INTERVAL (4896)  
BioFinder (1496)  
EGCUT (487)  
KORA (1064)  
NSPHS (874)  
ORCADES (982)  
RECOMBINE (437)  
STABILITY (2951)  
STANLEY (344)  
STANLEY (300)  
VIS (902)

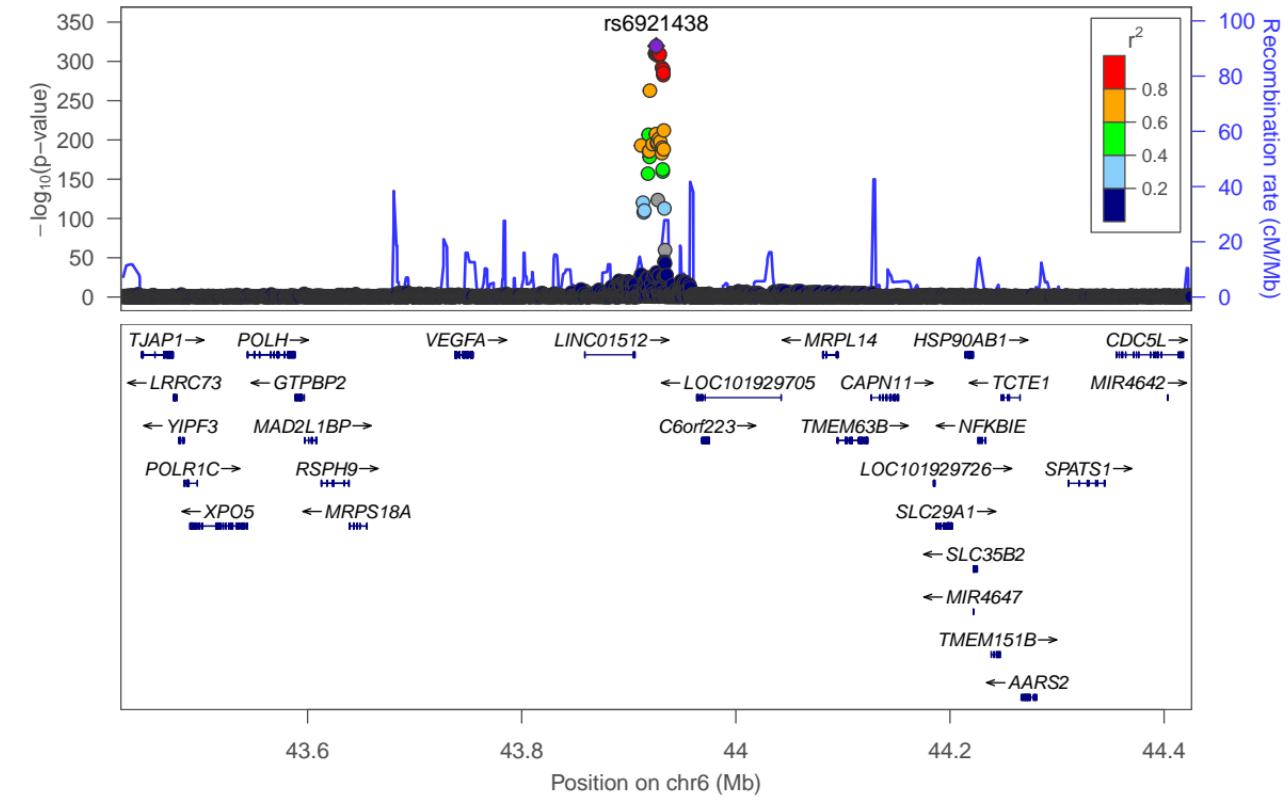
## VEGF\_A [chr6:43925607\_A\_G (rs6921438) (A/G) N=14733]

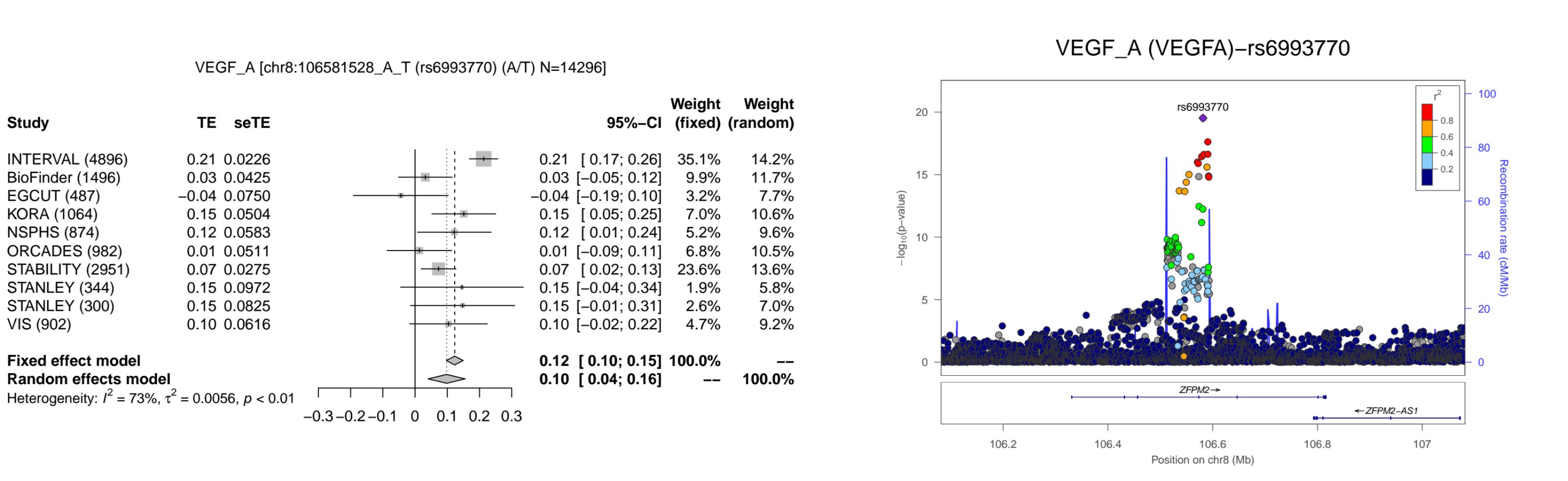
**TE****seTE****Fixed effect model****Random effects model**Heterogeneity:  $I^2 = 95\%$ ,  $\tau^2 = 0.0274$ ,  $p < 0.01$ **Weight  
95%-CI  
(fixed)****Weight  
(random)**

	95%-CI	Weight (fixed)	Weight (random)
-0.48	[-0.52; -0.44]	34.9%	9.9%
-0.62	[-0.68; -0.55]	11.8%	9.6%
-0.51	[-0.63; -0.39]	3.5%	8.8%
-0.80	[-0.90; -0.69]	4.5%	9.0%
-0.40	[-0.49; -0.31]	6.2%	9.3%
-0.28	[-0.37; -0.20]	6.8%	9.3%
-0.48	[-0.63; -0.33]	2.2%	8.2%
-0.20	[-0.26; -0.15]	19.2%	9.7%
-0.55	[-0.70; -0.41]	2.3%	8.3%
-0.50	[-0.64; -0.37]	2.8%	8.6%
-0.34	[-0.44; -0.25]	5.8%	9.2%

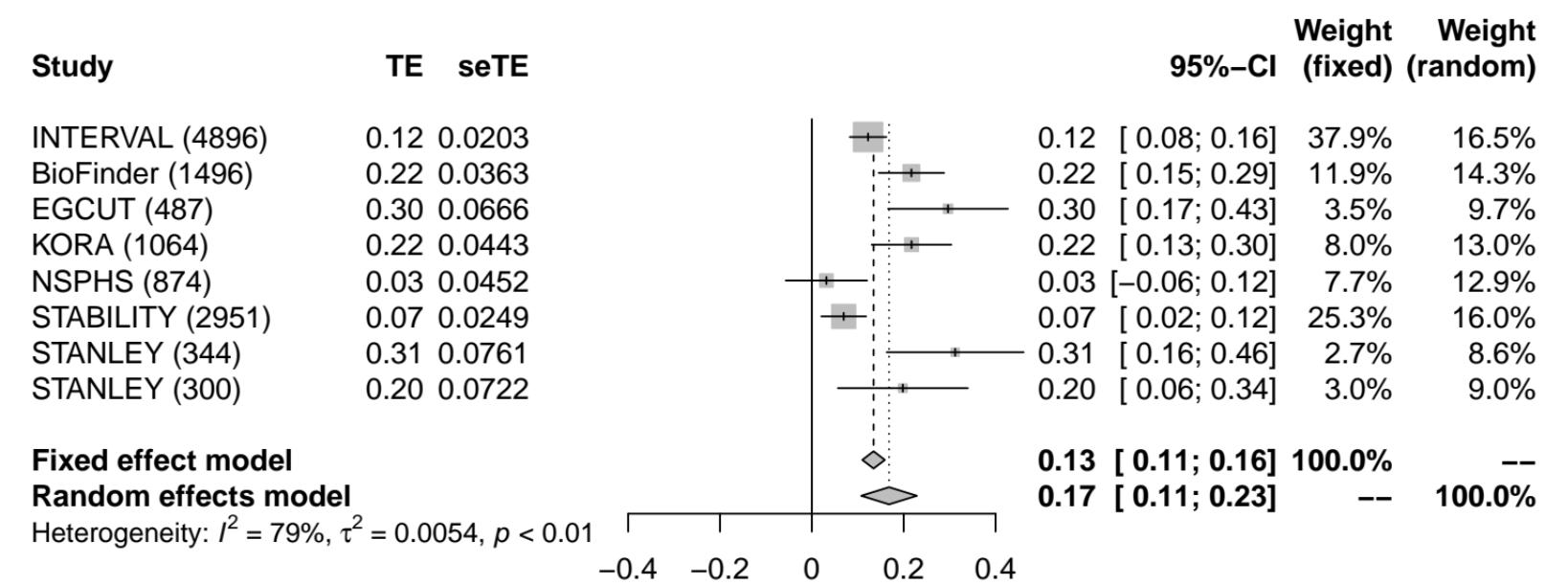
**-0.43** **[ -0.46; -0.41 ]** **100.0%**  
**-0.47** **[ -0.57; -0.36 ]** **--** **100.0%**

## VEGF\_A (VEGFA)-rs6921438





VEGF\_A [chr9:2687795\_A\_T (rs6475938) (A/T) N=12412]



VEGF\_A (VEGFA)-rs6475938

