

Supplementary Materials for “Increasing the power of meta-analysis of genome-wide association studies to detect heterogeneous effects”

Lee et al.

Supplementary Tables

Table S1. List of variants collected from papers that cited RE2. We obtained list of all 60 papers that cited RE2 as of 09/01/2015 (Google Scholar). We thoroughly examined all papers one by one and collected information of variants whose effect sizes and standard errors were available in the manuscript and whose p-values were $p_{FE} < 5 \times 10^{-6}$, and $p_{RE2} < 5 \times 10^{-6}$. Then we selected SNPs with large heterogeneity such that $p_{RE2} < p_{FE}$. Finally, we selected the most significant SNP per locus which gave us 7 SNPs below. The best p-value among all methods is in bold-face.

Study	Disease	N	Ncase	Ncont	RSID	Chr	Pos	Gene	Methods						
									A1	A2	RAF	FE	RE	RE2	RE2C
Sapkota <i>et al</i> (Sapkota <i>et al.</i> , 2014)	endometriosis	4	5300	10218	rs6542095	2	112771606	IL1A	C	T	0.3796	5.04E-07	0.00421952	9.59E-08	3.49E-08
Lee <i>et al</i> (Lee <i>et al.</i> , 2014)	COPD	3	1662	3520	s147862429	11	906896	CHID1	T	C	0.05	7.95E-08	0.454112	7.34E-09	4.06E-09
Rahmioglu <i>et al</i> (Rahmioglu <i>et al.</i> , 2014)	endometriosis	8	7718	32678	rs12700667	7	25862019	NFE2L3, HOXA10	A	G	0.2	7.16E-11	4.52E-05	3.97E-11	1.38E-11
Rahmioglu <i>et al</i>	endometriosis	5	4677	26866	rs4141819	2	67637543	-	C	T	0.22	1.60E-07	0.00227247	8.55E-08	3.44E-08
Kirylyuk <i>et al</i> (Kirylyuk <i>et al.</i> , 2012)	IgAN	13	5397	5443	rs9275596	6	32713854	DQB1,DRB1	C	T	0.2326	4.97E-32	2.55E-16	3.12E-32	6.55E-33
Kirylyuk <i>et al</i>	IgAN	13	5397	5443	rs2071543	6	32843852	PSMB8	T	C	0.152	5.74E-10	0.0202512	3.95E-11	1.52E-11
Perry <i>et al</i> (Perry <i>et al.</i> , 2012)	T2D	15	4993	70632	rs8090011	18	7068463	LAMA1	G	A	0.38	1.13E-08	3.74E-05	1.05E-09	5.12E-10

References

- Kirylyuk, K. *et al.* (2012) Geographic Differences in Genetic Susceptibility to IgA Nephropathy: GWAS Replication Study and Geospatial Risk Analysis. *PLoS Genet*, **8**.
- Lee, J.H. *et al.* (2014) Genetic susceptibility for chronic bronchitis in chronic obstructive pulmonary disease. *Respir. Res.*, **15**.
- Perry, J.R.B. *et al.* (2012) Stratifying type 2 diabetes cases by BMI identifies genetic risk variants in LAMA1 and enrichment for risk variants in lean compared to obese cases. *PLoS Genet*, **8**, e1002741.
- Rahmioglu, N. *et al.* (2014) Genetic variants underlying risk of endometriosis: insights from meta-analysis of eight genome-wide association and replication datasets. *Human Reproduction Update*, **20**, 702–716.
- Sapkota, Y. *et al.* (2014) Association between endometriosis and the interleukin 1A (IL1A) locus. *Human Reproduction*, **30**, 239–248.