Table S3 List of KEGG categories significantly (p<0.05) enriched in both GWAS

KEGG	p-val	p-val	Joint p	Function
pathway	(Harold)	(Lambert)	John P	i diletion
5310	0.0010	0.0026	0.0016	Asthma
4640	0.0060	0.0044	0.0068	Hematopoietic cell lineage
5332	0.0074	0.0106	0.0158	Graft-versus-host disease
5330	0.0078	0.0126	0.0189	Allograft rejection
5320	0.0246	0.0042	0.0197	Autoimmune thyroid disease
4940	0.0304	0.0072	0.0319	Type I diabetes mellitus

[&]quot;Joint p" is the probability of observing by chance at least one category among the entire set of categories tested with joint enrichment (defined as the product of enrichment p-values from the two GWAS) at least as extreme as that observed in the real data. This corrects for the multiple non-independent GO categories being tested.