

Supplemental Material, Table S3

Supplemental Material, Table S3. Stratum-specific estimates (OR, 95% CI) and relative excess risk due to interaction (RERI, 95% CI) for each SNP-solvent association using single-referent coding, adjusting for education and ancestry

Chr.	Gene*	rs number	Solvent Exposure	SNP	OR (95% CI)	PD	RERI (95% CI)
5	<i>IL7R</i>	rs6897932	No	No	1.00		
			Yes	No	0.87 (0.60, 1.26)	-0.13	
			Yes	Yes	0.75 (0.28, 2.01)		
6	<i>TNF<math>\alpha</math></i>	rs1799964	No	No	1.00		
			Yes	No	0.36 (0.07, 1.80)	-0.39	-0.26 (-1.25, 0.73)
			Yes	Yes	0.86 (0.23, 3.30)	0.28	0.22 (-1.09, 1.53)
		rs1800629	No	No	1.00		
			Yes	No	0.82 (0.53, 1.26)	-0.18	
			Yes	Yes	0.64 (0.25, 1.60)		
	<i>TNF<math>\beta</math></i>	rs3093671	No	No	1.00		
			Yes	No	0.45 (0.12, 1.66)	-0.55	
			Yes	Yes	0.91 (0.57, 1.46)	0.30	0.94 (0.00, 0.00)
		rs769178	No	No	1.00		
			Yes	No	0.52 (0.28, 0.96)	-0.48	
			Yes	Yes	1.05 (0.16, 7.08)	0.52	1.00 (-1.09, 3.09)
	rs769177	No	No	1.00			
		Yes	No	0.40 (0.13, 1.24)	-0.60		
		Yes	Yes	0.83 (0.52, 1.31)	0.19	0.95 (0.00, 0.00)	
rs909253		No	No	1.00			
		Yes	No	0.66 (0.45, 0.98)	-0.34		
		Yes	Yes	0.84 (0.26, 2.75)	0.47	0.80 (-0.28, 1.88)	
<i>HLA-DRB1*1501</i>	rs3135388	No	No	1.00			
		Yes	No	3.28 (2.16, 4.99)	2.28		
		Yes	Yes	0.36 (0.07, 1.74)			
<i>PTCRA</i>	rs9471958	No	No	1.00			
		Yes	No	1.09 (0.75, 1.59)	0.09		
		Yes	Yes	1.25 (0.45, 3.47)			
	rs6901007	No	No	1.00			
		Yes	No	0.15 (0.02, 1.17)	-1.10	-1.20 (-2.61, 0.22)	
		Yes	Yes	0.88 (0.59, 1.33)	-0.12		
			Yes	No	0.46 (0.12, 1.86)		
			Yes	Yes	0.68 (0.22, 2.09)	0.21	0.33 (-0.66, 1.32)

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Chr.	Gene*	rs number	Solvent Exposure	SNP	OR (95% CI)	PD	RERI (95% CI)		
7	<i>TCA-β</i>	rs17133575	No	No	1.00				
				Yes	1.10 (0.73, 1.68)	0.10			
			Yes	No	0.75 (0.30, 1.88)				
				Yes	0.38 (0.04, 3.29)	-0.37	-0.47 (-1.63, 0.70)		
				No	No	1.00			
					Yes	0.93 (0.62, 1.40)	-0.07		
10	<i>IL2RA</i>	rs2104286	No	No	1.00				
				Yes	0.99 (0.67, 1.47)	-0.01			
			Yes	No	0.75 (0.26, 2.21)				
				Yes	0.53 (0.14, 2.07)	-0.22	-0.21 (-1.33, 0.90)		
				No	No	1.00			
					Yes	1.09 (0.73, 1.62)	0.09		
12	<i>VDR</i>	rs7975128	No	No	1.00				
				Yes	0.87 (0.20, 3.81)				
			Yes	No	0.54 (0.18, 1.66)	-0.33	-0.41 (-1.90, 1.07)		
				Yes	0.58 (0.19, 1.80)	-0.53	-0.66 (-2.35, 1.04)		
				No	No	1.00			
					Yes	1.13 (0.72, 1.76)	0.13		
			Yes	No	1.11 (0.28, 4.39)				
				Yes	0.52 (0.18, 1.49)	-2.26	-2.56 (-7.09, 1.97)		
				No	No	1.00			
					Yes	1.30 (0.83, 2.04)	0.30		
			rs2248098	No	No	1.00			
					Yes	2.78 (0.58, 13.40)			
				Yes	No	0.41 (0.12, 1.39)	-0.74	-1.02 (-2.45, 0.42)	
					Yes	0.49 (0.16, 1.48)	-1.28	-1.48 (-3.89, 0.92)	
					No	No	1.00		
						Yes	1.21 (0.82, 1.77)	0.21	
			rs2239182	No	No	1.00			
					Yes	1.76 (0.47, 6.55)			
				Yes	No	0.57 (0.13, 2.53)			
					Yes	0.49 (0.16, 1.48)	-1.28	-1.48 (-3.89, 0.92)	
					No	No	1.00		
						Yes	0.87 (0.58, 1.29)	-0.13	
			rs2107301	No	No	1.00			
					Yes	1.28 (0.88, 1.86)	0.28		
Yes	No	1.15 (0.38, 3.49)							
	Yes	0.41 (0.12, 1.39)		-0.74	-1.02 (-2.45, 0.42)				
	No	No		1.00					
		Yes		1.21 (0.82, 1.77)	0.21				
rs1540339	No	No	1.00						
		Yes	1.76 (0.47, 6.55)						
	Yes	No	0.57 (0.13, 2.53)						
		Yes	0.49 (0.16, 1.48)	-1.28	-1.48 (-3.89, 0.92)				
		No	No	1.00					
			Yes	0.87 (0.58, 1.29)	-0.13				
rs2239179	No	No	1.00						
		Yes	0.57 (0.13, 2.53)						
	Yes	No	0.59 (0.22, 1.56)	0.02	0.15 (-0.86, 1.16)				
		Yes	0.59 (0.22, 1.56)	0.02	0.15 (-0.86, 1.16)				
		No	No	1.00					
			Yes	1.12 (0.75, 1.67)	0.12				
rs2189480	No	No	1.00						
		Yes	1.12 (0.75, 1.67)	0.12					
	Yes	No	0.60 (0.16, 2.19)						
		Yes	0.89 (0.30, 2.64)	0.29	0.16 (-1.03, 1.35)				
		No	No	1.00					
			Yes	0.98 (0.66, 1.45)	-0.02				
rs3819545	No	No	1.00						
		Yes	0.98 (0.66, 1.45)	-0.02					
	Yes	0.89 (0.23, 3.49)							

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Chr.	Gene*	rs number	Solvent Exposure	SNP	OR (95% CI)	PD	RERI (95% CI)
				Yes	0.55 (0.19, 1.57)	-0.34	-0.31 (-1.64, 1.02)
		rs3782905	No	No	1.00		
				Yes	0.83 (0.57, 1.22)	-0.17	
			Yes	No	0.55 (0.16, 1.90)		
				Yes	0.48 (0.14, 1.65)	-0.06	0.11 (-0.83, 1.04)
		rs2239186	No	No	1.00		
				Yes	1.01 (0.67, 1.51)	0.01	
			Yes	No	0.45 (0.15, 1.34)		
				Yes	1.11 (0.33, 3.72)	0.65	0.65 (-0.72, 2.01)
		rs2228570	No	No	1.00		
				Yes	0.85 (0.57, 1.27)	-0.15	
			Yes	No	1.16 (0.34, 3.94)		
				Yes	0.36 (0.11, 1.21)	-0.80	-0.65 (-2.16, 0.86)
		rs2254210	No	No	1.00		
				Yes	1.15 (0.78, 1.71)	0.15	
			Yes	No	0.72 (0.23, 2.26)		
				Yes	0.67 (0.21, 2.10)	-0.05	-0.20 (-1.31, 0.92)
		rs2238136	No	No	1.00		
				Yes	0.95 (0.64, 1.42)	-0.05	
			Yes	No	0.10 (0.01, 0.85)		
				Yes	1.75 (0.59, 5.16)	1.65	1.70 (-0.20, 3.59)
		rs2853564	No	No	1.00		
				Yes	1.48 (0.97, 2.24)	0.48	
			Yes	No	1.02 (0.32, 3.31)		
				Yes	0.61 (0.17, 2.10)	-0.41	-0.89 (-2.43, 0.65)
		rs4760648	No	No	1.00		
				Yes	0.81 (0.54, 1.21)	-0.19	
			Yes	No	0.55 (0.12, 2.46)		
				Yes	0.55 (0.19, 1.60)	0.00	0.19 (-0.80, 1.18)
		rs11168287	No	No	1.00		
				Yes	1.13 (0.73, 1.77)	0.13	
			Yes	No	0.52 (0.09, 3.01)		
				Yes	0.83 (0.30, 2.32)	0.31	0.18 (-1.06, 1.41)
		rs4328262	No	No	1.00		
				Yes	1.11 (0.74, 1.69)	0.11	
			Yes	No	0.17 (0.02, 1.56)		
				Yes	0.97 (0.37, 2.50)	0.80	0.68 (-0.31, 1.67)
		rs4237855	No	No	1.00		
				Yes	0.78 (0.52, 1.18)	-0.22	
			Yes	No	0.25 (0.05, 1.29)		
				Yes	0.89 (0.33, 2.39)	0.64	0.86 (-0.06, 1.78)
		rs7136534	No	No	1.00		
				Yes	1.24 (0.84, 1.83)	0.24	

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Chr.	Gene*	rs number	Solvent Exposure	SNP	OR (95% CI)	PD	RERI (95% CI)
18	<i>MBP</i>	rs7299460	Yes	No	0.82 (0.28, 2.42)		
				Yes	0.61 (0.17, 2.17)	-0.22	-0.46 (-1.67, 0.75)
			No	No	1.00		
				Yes	1.23 (0.84, 1.80)	0.23	
			Yes	No	0.87 (0.29, 2.57)		
				Yes	0.58 (0.16, 2.03)	-0.29	-0.52 (-1.74, 0.70)
		rs4760658	No	No	1.00		
				Yes	1.17 (0.78, 1.75)	0.17	
			Yes	No	1.01 (0.31, 3.33)		
				Yes	0.49 (0.14, 1.66)	-0.52	-0.70 (-2.14, 0.75)
			No	No	1.00		
				Yes	0.90 (0.59, 1.36)	-0.10	
		rs17026	Yes	No	0.65 (0.16, 2.71)		
				Yes	0.58 (0.20, 1.68)	-0.06	0.04 (-1.10, 1.18)
			No	No	1.00		
				Yes	1.15 (0.79, 1.67)	0.15	
			Yes	No	0.44 (0.13, 1.48)		
				Yes	1.22 (0.38, 3.88)	0.78	0.63 (-0.85, 2.12)
		rs470724	No	No	1.00		
				Yes	1.20 (0.82, 1.76)	0.20	
			Yes	No	0.41 (0.12, 1.34)		
				Yes	1.47 (0.45, 4.81)	1.07	0.87 (-0.89, 2.63)
			No	No	1.00		
				Yes	1.36 (0.87, 2.12)	0.36	
		rs470550	Yes	No	1.44 (0.37, 5.64)		
				Yes	0.58 (0.19, 1.78)	-0.86	-1.22 (-3.41, 0.98)
			No	No	1.00		
				Yes	0.65 (0.44, 0.96)	-0.35	
			Yes	No	1.02 (0.32, 3.32)		
				Yes	0.31 (0.09, 1.03)	-0.71	-0.36 (-1.65, 0.92)
rs11661054	No	No	1.00				
		Yes	1.11 (0.74, 1.66)	0.11			
	Yes	No	0.65 (0.16, 2.73)				
		Yes	0.73 (0.26, 2.02)	0.07	-0.03 (-1.19, 1.13)		
	No	No	1.00				
		Yes	0.75 (0.52, 1.10)	-0.25			
rs4890785	Yes	No	0.66 (0.19, 2.34)				
		Yes	0.52 (0.17, 1.63)	-0.14	0.11 (-0.94, 1.15)		
	No	No	1.00				
		Yes	1.18 (0.80, 1.75)	0.18			
	Yes	No	0.74 (0.19, 2.96)				
		Yes	0.70 (0.25, 2.00)	-0.04	-0.22 (-1.51, 1.06)		
rs9675994	No	No	1.00				

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Chr.	Gene*	rs number	Solvent Exposure	SNP	OR (95% CI)	PD	RERI (95% CI)
				Yes	1.01 (0.68, 1.50)	0.01	
			Yes	No	0.58 (0.21, 1.62)		
		rs8090438		Yes	0.78 (0.21, 2.88)	0.20	0.19 (-0.95, 1.34)
			No	No	1.00		
				Yes	0.95 (0.63, 1.42)	-0.05	
			Yes	No	0.69 (0.17, 2.82)		
		rs8094402		Yes	0.64 (0.22, 1.87)	-0.05	0.00 (-1.17, 1.18)
			No	No	1.00		
				Yes	1.24 (0.84, 1.82)	0.24	
			Yes	No	1.07 (0.33, 3.42)		
		rs12456341		Yes	0.48 (0.14, 1.63)	-0.59	-0.83 (-2.30, 0.65)
			No	No	1.00		
				Yes	0.96 (0.65, 1.43)	-0.04	
			Yes	No	0.33 (0.09, 1.29)		
		rs17576751		Yes	1.37 (0.43, 4.37)	1.03	1.07 (-0.52, 2.66)
			No	No	1.00		
				Yes	1.06 (0.71, 1.57)	0.06	
			Yes	No	1.08 (0.29, 4.03)		
		rs3794848		Yes	0.58 (0.18, 1.83)	-0.50	-0.55 (-2.16, 1.05)
			No	No	1.00		
				Yes	1.21 (0.82, 1.78)	0.21	
			Yes	No	0.52 (0.17, 1.57)		
		rs4890875		Yes	1.22 (0.34, 4.40)	0.70	0.49 (-1.13, 2.12)
			No	No	1.00		
				Yes	1.02 (0.69, 1.49)	0.02	
			Yes	No	0.46 (0.11, 1.85)		
		rs595997		Yes	0.95 (0.32, 2.83)	0.49	0.48 (-0.71, 1.67)
			No	No	1.00		
				Yes	0.74 (0.50, 1.10)	-0.26	
			Yes	No	0.97 (0.29, 3.25)		
		rs2974260		Yes	0.36 (0.11, 1.19)	-0.61	-0.35 (-1.63, 0.93)
			No	No	1.00		
				Yes	1.90 (1.23, 2.91)	0.90	
			Yes	No	0.93 (0.27, 3.25)		
		rs2051344		Yes	0.91 (0.28, 2.91)	-0.02	-0.92 (-2.62, 0.79)
			No	No	1.00		
				Yes	0.85 (0.58, 1.26)	-0.15	
			Yes	No	0.40 (0.13, 1.23)		
		rs470681		Yes	0.98 (0.30, 3.18)	0.58	0.73 (-0.46, 1.91)
			No	No	1.00		
				Yes	0.77 (0.52, 1.12)	-0.23	
			Yes	No	0.48 (0.12, 1.96)		
				Yes	0.61 (0.22, 1.66)	0.13	0.36 (-0.52, 1.24)

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Chr.	Gene*	rs number	Solvent Exposure	SNP	OR (95% CI)	PD	RERI (95% CI)	
19	<i>APOE</i>	rs12967023	No	No	1.00			
				Yes	1.68 (1.12, 2.50)	0.68		
			Yes	No	1.22 (0.42, 3.60)			
				Yes	0.46 (0.11, 1.89)	-0.76	-1.44 (-3.09, 0.22)	
			rs4890788	No	No	1.00		
					Yes	0.95 (0.64, 1.41)	-0.05	
		Yes		No	0.44 (0.12, 1.54)			
				Yes	1.06 (0.34, 3.26)	0.62	0.67 (-0.56, 1.91)	
		rs7232502		No	No	1.00		
					Yes	1.23 (0.81, 1.84)	0.23	
			Yes	No	1.72 (0.50, 5.94)			
				Yes	0.40 (0.12, 1.31)	-1.32	-1.55 (-3.80, 0.71)	
			rs8096433	No	No	1.00		
					Yes	1.96 (1.25, 3.07)	0.96	
		Yes		No	3.15 (0.87, 11.47)			
				Yes	0.44 (0.13, 1.42)	-2.72	-3.68 (-8.00, 0.65)	
		rs17660901		No	No	1.00		
					Yes	0.71 (0.48, 1.04)	-0.29	
			Yes	No	0.28 (0.08, 0.95)			
				Yes	1.44 (0.44, 4.75)	1.16	1.45 (-0.23, 3.13)	
			rs429358	No	No	1.00		
Yes	0.93 (0.60, 1.43)				-0.07			
Yes	No	0.56 (0.21, 1.45)						
	Yes	1.12 (0.21, 5.90)		0.56	0.64 (-1.31, 2.58)			
rs7412	No	No		1.00				
		Yes		0.90 (0.53, 1.53)	-0.10			
	Yes	No	0.56 (0.22, 1.44)					
		Yes	1.25 (0.21, 7.65)	0.69	0.79 (-1.55, 3.13)			

Abbreviations: *APOE*, Apolipoprotein E; CI=confidence interval; *HLA*, Human leukocyte antigen; *IL2RA*, Interleukin-2 receptor alpha; *IL7RA*, Interleukin-7 receptor alpha; MAF, minor allele frequency; *MBP*, Myelin basic protein; OR, prevalence odds ratio; PD, prevalence difference; SNP, single nucleotide polymorphism; *TCA-β*, T cell antigen receptor beta; *TNFα*, Tumor necrosis factor alpha; *TNFβ*, Tumor necrosis factor beta; *VDR*, Vitamin D receptor.