

Appendix 1. Association results for SNPs in the *EPHA2* region with age-related cataracts

SNPs	rs7543472				rs11260867				rs3754334			
Phenotype	Any Cortical Cataracts (n = 115)	Any Nuclear Cataracts (n = 120)	Any Cataracts (n = 204)	Controls (n = 102)	Any Cortical Cataracts (n = 119)	Any Nuclear Cataracts (n = 126)	Any Cataracts (n = 213)	Controls (n = 102)	Any Cortical Cataracts (n = 107)	Any Nuclear Cataracts (n = 113)	Any Cataracts (n = 189)	Controls (n = 102)
Allele No. (Freq.)	T* 195 (85%) C 35 (15%)	201 (84%) 39 (16%)	345 (85%) 63 (15%)	157 (77%) 47 (23%)	C 215 (90%) G* 23 (10%)	216 (86%) 36 (14%)	375 (88%) 51 (12%)	169 (83%) 35 (17%)	C 96 (63%) T* 56 (37%)	153 (68%) 73 (32%)	249 (66%) 129 (34%)	132 (72%) 52 (28%)
Allelic P Values	0.038	0.071	0.021		0.020	0.400	0.076		0.101	0.377	0.163	
allelic OR (95% confidence interval)	1.7 (1.03-2.7)	1.5 (0.96-2.5)	1.6 (1.1-2.5)		1.95 (1.1-3.4)	1.2 (0.7-2.1)	1.5 (0.95-2.4)		0.7 (0.46-1.1)	0.8 (0.5-1.3)	0.8 (0.5-1.1)	
Trend P Values	0.036	0.062	0.018		0.02	0.40	0.07		0.11	0.38	0.17	
Genotypes (Freq.)	TT 84 (73%) TG 27 (23%) GG 4 (3%)	84 (70%) 33 (28%) 3 (3%)	146 (72%) 53 (26%) 5 (2%)	58 (57%) 41 (40%) 3 (3%)	GG 98 (82%) GC 19 (16%) CC 2 (2%)	94 (75%) 28 (22%) 3 (3%)	166 (78%) 43 (20%) 4 (2%)	68 (67%) 33 (32%) 1 (1%)	CC 47 (44%) CT 43 (40%) TT 17 (16%)	55 (49%) 43 (38%) 15 (13%)	87 (46%) 75 (40%) 27 (14%)	45 (49%) 42 (46%) 5 (5%)
Genotypic P Values	TT 0.012 TG 0.008 GG 0.823	0.042 0.046 0.840	0.010 0.011 0.800		GG 0.007 GC 0.004 CC 0.654	0.189 0.086 0.261	0.032 0.018 0.551		CC 0.48 CT 0.44 TT 0.019	0.973 0.272 0.060	0.650 0.341 0.028	
Genotype OR (95% confidence interval)	TT 2.1 (1.2-3.6) TG 0.5 (0.2-0.8) GG 1.2 (0.26-5.4)	1.8 (1.2-3.1) 0.6 (0.3-0.99) 0.8 (0.2-4.2)	1.9 (1.2-3.1) 0.5 (0.3-0.9) 0.8 (0.2-3.5)		GG 2.3 (1.25-4.4) GC 0.4 (0.2-0.8) CC 1.7(0.15-19)	1.5 (0.82-2.6) 0.6 (0.3-1.0) 3.3 (0.4-30)	1.8 (1.04-3.0) 0.5 (0.3-0.9) 1.94 (0.2-17)		CC 0.8 (0.5-1.4) CT 0.8 (0.5-1.4) TT 3.3 (1.2-9.3)	0.99 (0.6-1.7) 0.7 (0.4-1.3) 2.7 (0.9-7.6)	0.9 (0.5-1.5) 0.8 (0.5-1.3) 2.9 (1.1-7.8)	

Calculated significance values ( $p = < 0.05$ ) show most association between rs11260867 and any cortical cataracts, and between rs7543472 and any cataracts.