Figure S2, panel 1. *GBA* N370S: G vs. A

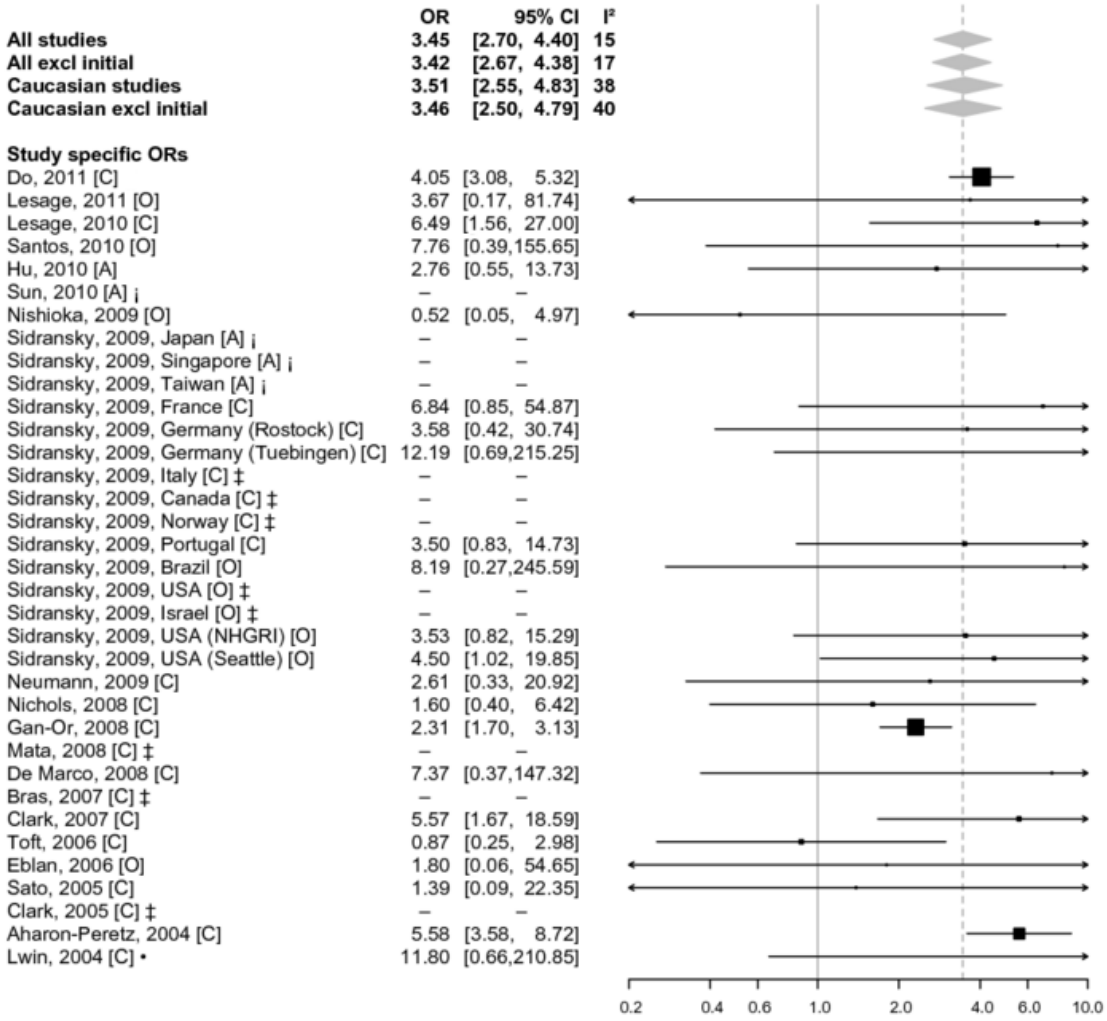

Figure S2, panel 2. *SYT11/RAB25* chr1:154105678: T vs. C

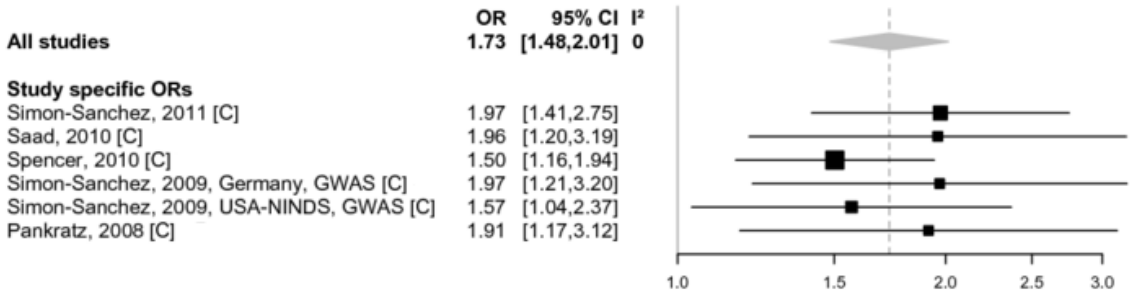

Figure S2, panel 3. PARK16 rs947211: A vs. G

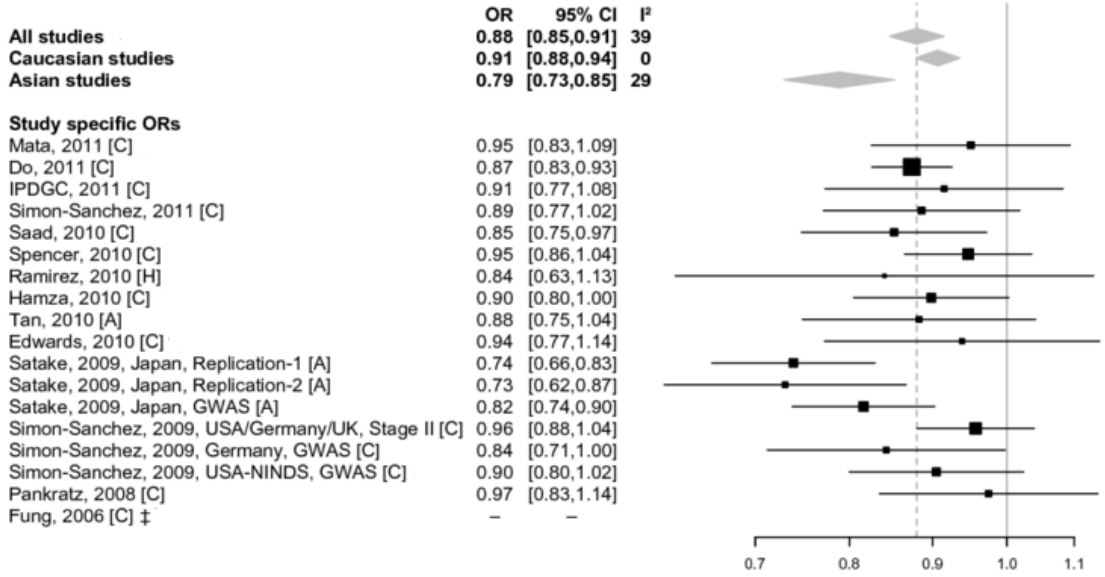

Figure S2, panel 4. *STK39* rs2390669: C vs. A

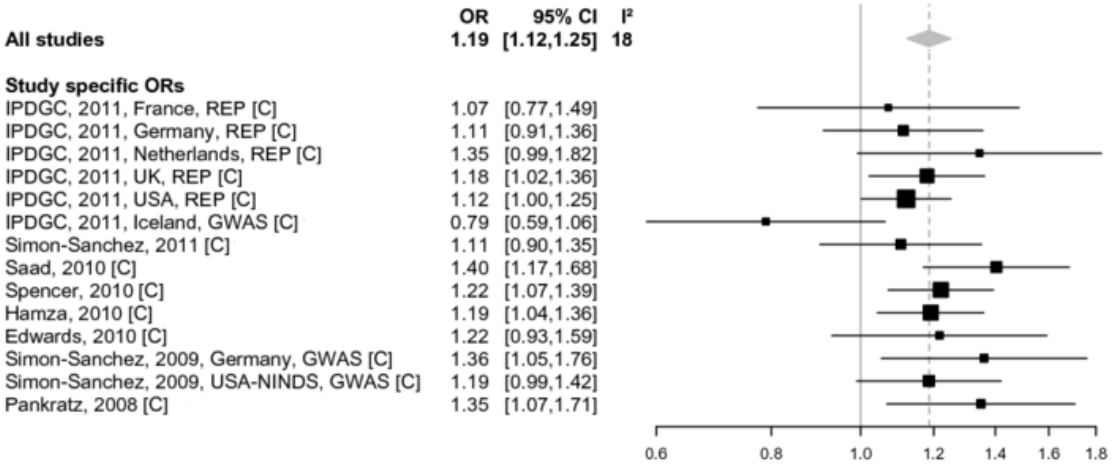

Figure S2, panel 5. *MCCC1/LAMP3* rs11711441: A vs. G

	OR	95% CI	I²
All studies	**0.86**	**[0.82,0.90]**	**19**
Caucasian studies	**0.86**	**[0.82,0.90]**	**18**
Asian studies	**0.81**	**[0.63,1.04]**	**38**
Study specific ORs			
GEO-PD, 2011, China-Mok [A]	0.68	[0.47,0.99]	
GEO-PD, 2011, Korea-Jeon [A]	0.82	[0.63,1.06]	
GEO-PD, 2011, Singapore-Tan [A]	1.35	[0.78,2.32]	
GEO-PD, 2011, Taiwan-Lin [A]	0.66	[0.40,1.09]	
GEO-PD, 2011, Australia-Mellick [C]	0.89	[0.72,1.09]	
GEO-PD, 2011, Belgium-Garraux [C]	1.61	[0.46,5.58]	
GEO-PD, 2011, Belgium-Van Broeckhoven [C]	1.00	[0.76,1.30]	
GEO-PD, 2011, Greece-Bozi [C]	1.33	[0.77,2.29]	
GEO-PD, 2011, Greece-Hadjigeorgios [C]	1.18	[0.86,1.62]	
GEO-PD, 2011, Ireland-Lynch [C]	0.56	[0.39,0.80]	
GEO-PD, 2011, Italy, Annesi [C]	0.80	[0.52,1.22]	
GEO-PD, 2011, Norway-Aasley [C]	0.76	[0.59,0.97]	
GEO-PD, 2011, France-Brice [C] ‡	–	–	
GEO-PD, 2011, UK-Morrison [C] ‡	–	–	
GEO-PD, 2011, Poland-Opala [C]	0.86	[0.58,1.28]	
GEO-PD, 2011, Sweden-Wirdefeldt [C]	0.74	[0.42,1.29]	
GEO-PD, 2011, USA-Farrer/Wszolek [C]	0.97	[0.76,1.22]	
GEO-PD, 2011, USA-Maraganore [C]	1.15	[0.82,1.62]	
IPDGC, 2011, France, REP [C]	0.69	[0.48,0.99]	
IPDGC, 2011, Germany, REP [C]	0.75	[0.62,0.91]	
IPDGC, 2011, Netherlands, REP [C]	0.90	[0.67,1.19]	
IPDGC, 2011, UK, REP [C]	0.83	[0.71,0.96]	
IPDGC, 2011, USA, REP [C]	0.92	[0.82,1.03]	
IPDGC, 2011, Iceland, GWAS [C]	0.92	[0.73,1.18]	
Simon-Sanchez, 2011 [C]	0.94	[0.80,1.11]	
Saad, 2010 [C]	0.82	[0.70,0.97]	
Spencer, 2010 [C]	0.83	[0.74,0.93]	
Hamza, 2010 [C]	0.91	[0.81,1.02]	
Simon-Sanchez, 2009, Germany, GWAS [C]	0.78	[0.63,0.95]	
Simon-Sanchez, 2009, USA-NINDS, GWAS [C]	0.84	[0.72,0.98]	
Pankratz, 2008 [C]	0.78	[0.64,0.96]	

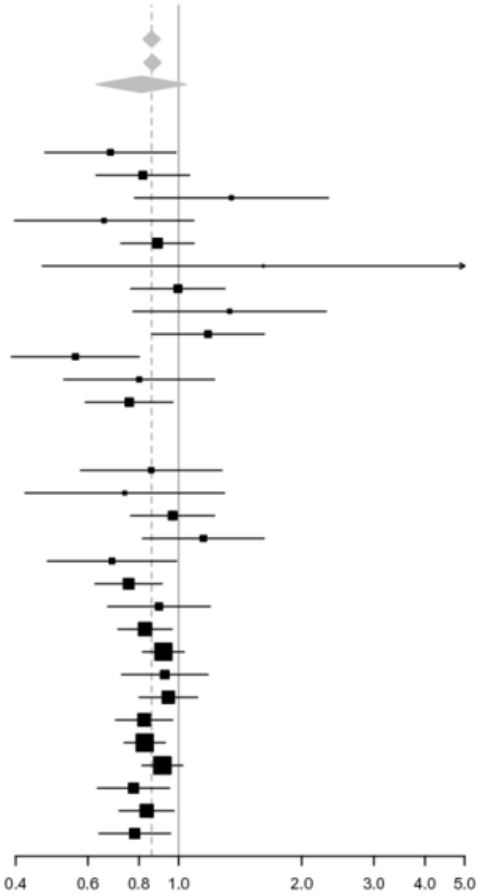

Figure S2, panel 6. *DGKQ/GAK* rs11248060: T vs. C

	OR	95% CI	I²
All studies	**1.21**	**[1.14,1.27]**	**11**
Study specific ORs			
Do, 2011 [C]	1.20	[1.09,1.32]	
IPDGC, 2011 [C]	1.03	[0.83,1.28]	
Simon-Sanchez, 2011 [C]	1.23	[1.03,1.48]	
Saad, 2010 [C]	1.17	[0.99,1.39]	
Spencer, 2010 [C]	1.13	[1.00,1.27]	
Hamza, 2010 [C]	1.24	[1.08,1.43]	
Edwards, 2010 [C]	1.10	[0.86,1.40]	
Simon-Sanchez, 2009, Germany, GWAS [C]	1.28	[1.04,1.59]	
Simon-Sanchez, 2009, USA-NINDS, GWAS [C]	1.25	[1.07,1.45]	
Pankratz, 2008 [C]	1.55	[1.26,1.91]	
Fung, 2006 [C] ‡	–	–	

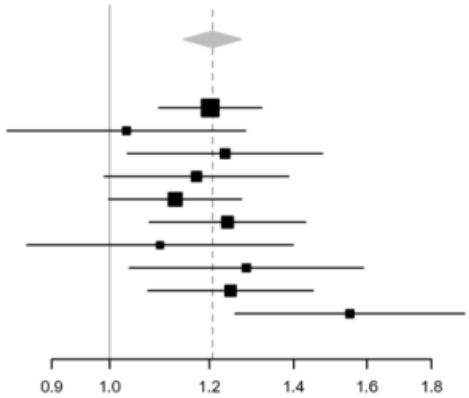

Figure S2, panel 7. *BST1* rs11724635: C vs. A

	OR	95% CI	I²
All studies	**0.87**	**[0.84,0.91]**	**46**
Caucasian studies	**0.88**	**[0.84,0.91]**	**43**
Asian studies	**0.79**	**[0.61,1.04]**	**55**
Study specific ORs			
GEO-PD, 2011, China-Mok [A]	0.88	[0.66,1.18]	
GEO-PD, 2011, Korea-Jeon [A]	0.65	[0.52,0.80]	
GEO-PD, 2011, Taiwan-Lin [A]	1.01	[0.63,1.62]	
GEO-PD, 2011, Australia-Mellick [C]	0.98	[0.86,1.12]	
GEO-PD, 2011, Belgium-Garraux [C]	1.19	[0.56,2.53]	
GEO-PD, 2011, Belgium-Van Broeckhoven [C]	0.85	[0.70,1.03]	
GEO-PD, 2011, Greece-Bozi [C]	0.52	[0.34,0.79]	
GEO-PD, 2011, Greece-Hadjigeorgios [C]	1.19	[0.95,1.49]	
GEO-PD, 2011, Ireland-Lynch [C]	0.84	[0.67,1.04]	
GEO-PD, 2011, Italy, Annesi [C]	0.82	[0.61,1.11]	
GEO-PD, 2011, Norway-Aasley [C]	0.86	[0.72,1.03]	
GEO-PD, 2011, France-Brice [C] ‡	–	–	
GEO-PD, 2011, UK-Morrison [C] ‡	–	–	
GEO-PD, 2011, Poland-Opala [C]	0.95	[0.74,1.23]	
GEO-PD, 2011, Sweden-Wirdefeldt [C]	1.18	[0.83,1.67]	
GEO-PD, 2011, USA-Farrer/Wszolek [C]	0.87	[0.74,1.03]	
GEO-PD, 2011, USA-Maraganore [C]	0.87	[0.68,1.10]	
IPDGC, 2011, France, REP [C]	0.82	[0.65,1.03]	
IPDGC, 2011, Germany, REP [C]	0.84	[0.73,0.96]	
IPDGC, 2011, Netherlands, REP [C]	1.00	[0.81,1.23]	
IPDGC, 2011, UK, REP [C]	0.78	[0.71,0.87]	
IPDGC, 2011, USA, REP [C]	0.90	[0.83,0.97]	
IPDGC, 2011, Iceland, GWAS [C]	0.95	[0.80,1.13]	
Simon-Sanchez, 2011 [C]	0.88	[0.78,0.99]	
Saad, 2010 [C]	0.76	[0.69,0.85]	
Spencer, 2010 [C]	0.92	[0.85,1.00]	
Hamza, 2010 [C]	0.87	[0.80,0.96]	
Edwards, 2010 [C]	0.87	[0.73,1.03]	
Simon-Sanchez, 2009, Germany, GWAS [C]	0.84	[0.73,0.97]	
Simon-Sanchez, 2009, USA-NINDS, GWAS [C]	0.97	[0.87,1.07]	
Pankratz, 2008 [C]	0.75	[0.64,0.87]	

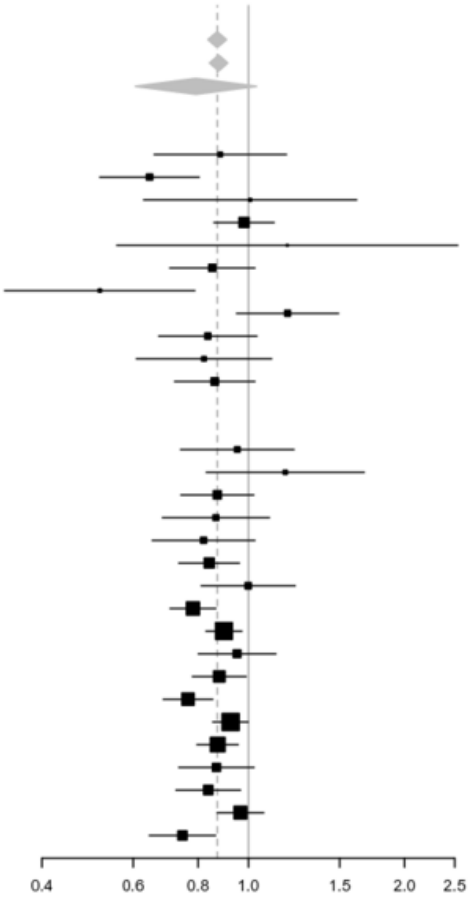

Figure S2, panel 8. *SNCA* rs356219: G vs. A

	OR	95% CI	I²
All studies	**1.30**	**[1.26,1.33]**	**18**
Caucasian studies	**1.29**	**[1.25,1.33]**	**16**
Asian studies	**1.33**	**[1.11,1.59]**	**34**
Study specific ORs			
GEO-PD, 2011, China-Mok [A]	1.16	[0.87,1.55]	
GEO-PD, 2011, Korea-Jeon [A] ‡	–	–	
GEO-PD, 2011, Singapore-Tan [A]	1.45	[0.94,2.24]	
GEO-PD, 2011, Taiwan-Lin [A]	1.03	[0.68,1.56]	
GEO-PD, 2011, Australia-Mellick [C]	1.25	[1.09,1.44]	
GEO-PD, 2011, Belgium-Garraux [C]	1.27	[0.55,2.94]	
GEO-PD, 2011, Belgium-Van Broeckhoven [C]	1.08	[0.89,1.31]	
GEO-PD, 2011, Greece-Hadjigeorgios [C]	1.11	[0.88,1.39]	
GEO-PD, 2011, Ireland-Lynch [C]	1.80	[1.44,2.26]	
GEO-PD, 2011, Italy, Annesi [C]	1.31	[0.95,1.80]	
GEO-PD, 2011, Norway-Aasley [C]	1.18	[0.99,1.40]	
GEO-PD, 2011, Greece-Bozi [C] ‡	–	–	
GEO-PD, 2011, France-Brice [C] ‡	–	–	
GEO-PD, 2011, UK-Morrison [C] ‡	–	–	
GEO-PD, 2011, Poland-Opala [C]	1.29	[1.00,1.67]	
GEO-PD, 2011, Sweden-Wirdefeldt [C]	1.00	[0.69,1.45]	
GEO-PD, 2011, USA-Farrer/Wszolek [C]	1.27	[1.08,1.49]	
GEO-PD, 2011, USA-Maraganore [C]	1.25	[0.97,1.61]	
Mata, 2011 [C]	1.23	[1.09,1.38]	
Do, 2011 [C]	1.30	[1.21,1.40]	
IPDGC, 2011, France, REP [C]	1.44	[1.15,1.81]	
IPDGC, 2011, Germany, REP [C]	1.09	[0.95,1.25]	
IPDGC, 2011, Netherlands, REP [C]	1.32	[1.06,1.64]	
IPDGC, 2011, UK, REP [C]	1.29	[1.16,1.43]	
IPDGC, 2011, USA, REP [C]	1.28	[1.18,1.39]	
IPDGC, 2011, Iceland, GWAS [C]	1.29	[1.07,1.54]	
Simon-Sanchez, 2011 [C]	1.34	[1.19,1.51]	
Kim, 2010 [A]	1.50	[1.29,1.75]	
Elbaz, 2010, Greece-Bozi [C]	1.23	[0.84,1.81]	
Elbaz, 2010, Italy, Ferrarese [C]	1.67	[1.12,2.50]	
Elbaz, 2010, Italy, Valente [C]	1.50	[1.04,2.17]	
Elbaz, 2010, Australia-Mellick [C] ‡	–	–	
Elbaz, 2010, Greece-Hadjigeorgiou [C] ‡	–	–	
Elbaz, 2010, Ireland-Lynch [C] ‡	–	–	
Elbaz, 2010, Italy-Annesi [C] ‡	–	–	
Elbaz, 2010, Norway-Aasly [C] ‡	–	–	
Elbaz, 2010, Poland-Opala [C] ‡	–	–	
Elbaz, 2010, Sweden-Wirdefeldt [C] ‡	–	–	
Elbaz, 2010, USA-Wzsolek [C] ‡	–	–	
Elbaz, 2010, France-Chartier-Harlin [C] ‡	–	–	
Elbaz, 2010, Germany-Auberger [C] ‡	–	–	
Elbaz, 2010, Germany-Klein [C] ‡	–	–	
Elbaz, 2010, Germany-Krueger [C] ‡	–	–	
Wider, 2010, Ireland [C] ‡	–	–	
Wider, 2010, Norway [C] ‡	–	–	
Wider, 2010, USA [C] ‡	–	–	
Saad, 2010 [C]	1.35	[1.21,1.51]	
Mata, 2010, USA [C] ‡	–	–	
Mata, 2010, USA [C] ‡	–	–	
Botta-Orfila, 2010 [C] ‡	–	–	
Spencer, 2010 [C]	1.27	[1.17,1.37]	
Hamza, 2010 [C]	1.40	[1.27,1.54]	
Edwards, 2010 [C]	1.49	[1.25,1.77]	
Simon-Sanchez, 2009, Germany, GWAS [C] ¶	1.35	[1.17,1.56]	
Simon-Sanchez, 2009, USA-NINDS, GWAS [C] ¶	1.24	[1.12,1.38]	
Pankratz, 2009 [C] ‡	–	–	
Pankratz, 2008 [C]	1.41	[1.22,1.62]	
Westerlund, 2008 [C]	1.17	[0.91,1.52]	
Myhre, 2008 [C] ‡	–	–	
Goris, 2007 [C] ‡	–	–	
Maraganore, 2005, USA, REP [C] ‡	–	–	
Maraganore, 2005, USA-LEAPS, GWAS [C] ‡	–	–	
Mueller, 2005, Germany-I [C] • ‡	–	–	
Mueller, 2005, Germany-II [C] • ‡	–	–	

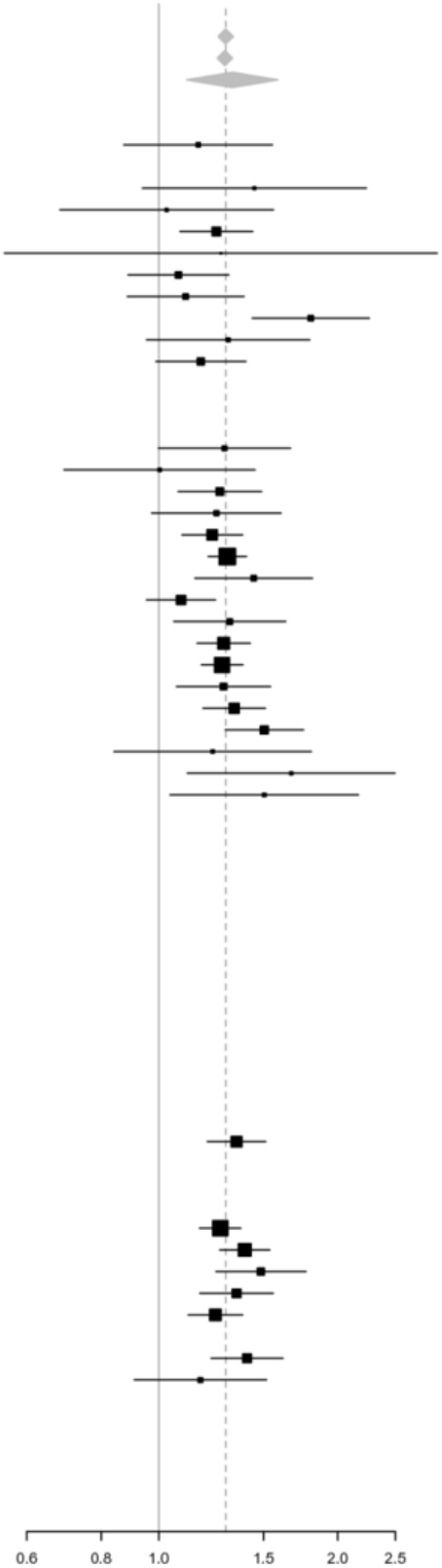

Figure S2, panel 9. *ITGA8* rs7077361: C vs. T

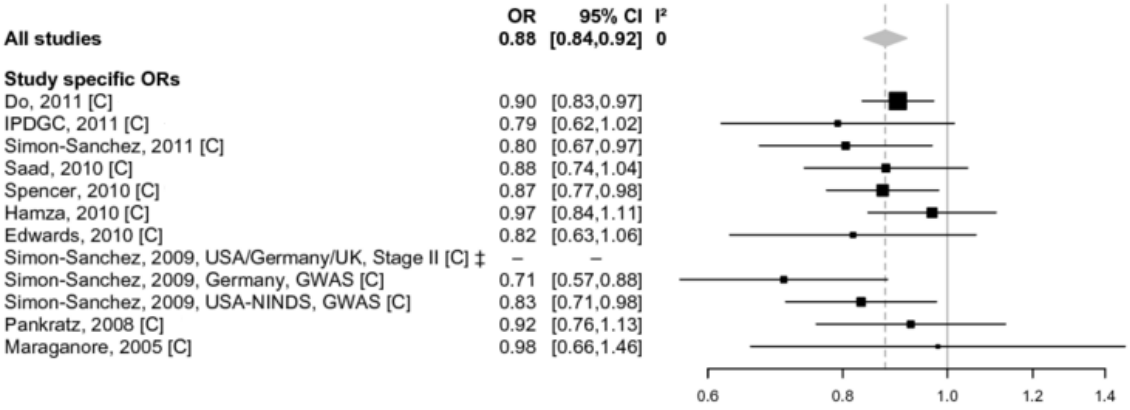

Figure S2, panel 10. *LRRK2* rs1491942: G vs C

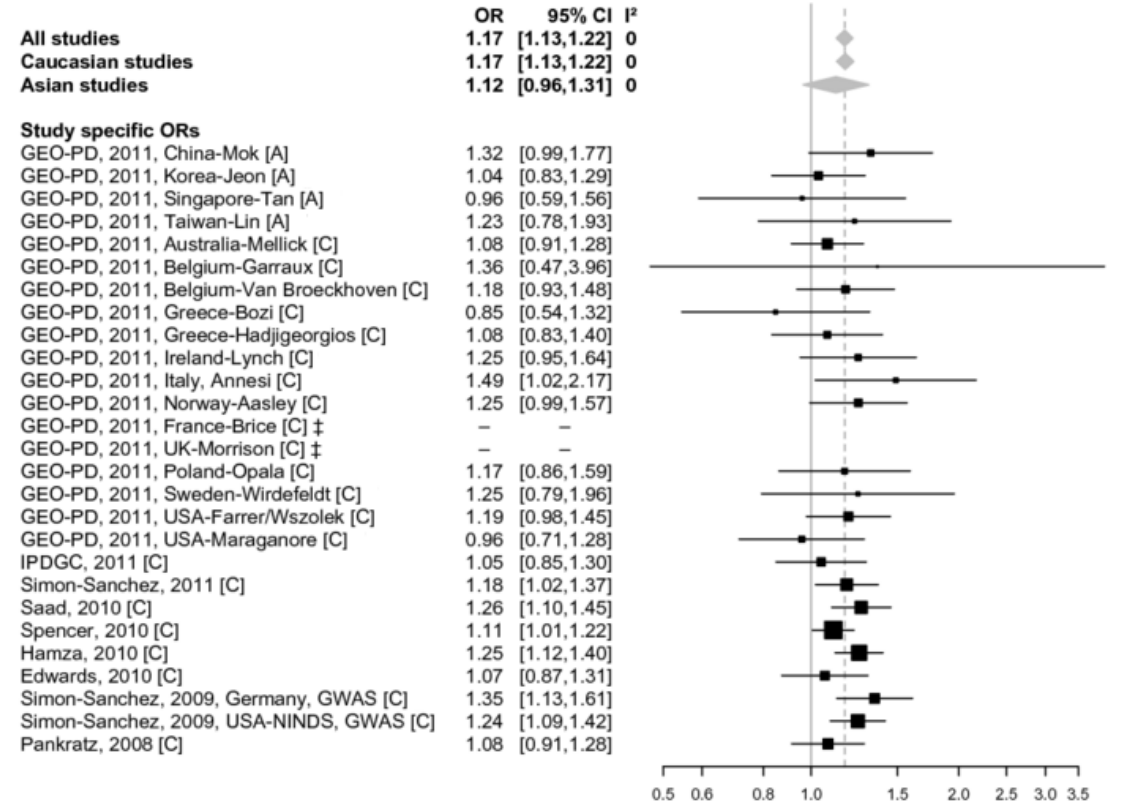

Figure S2, panel 11. *CCDC62/HIP1R* rs10847864: T vs G

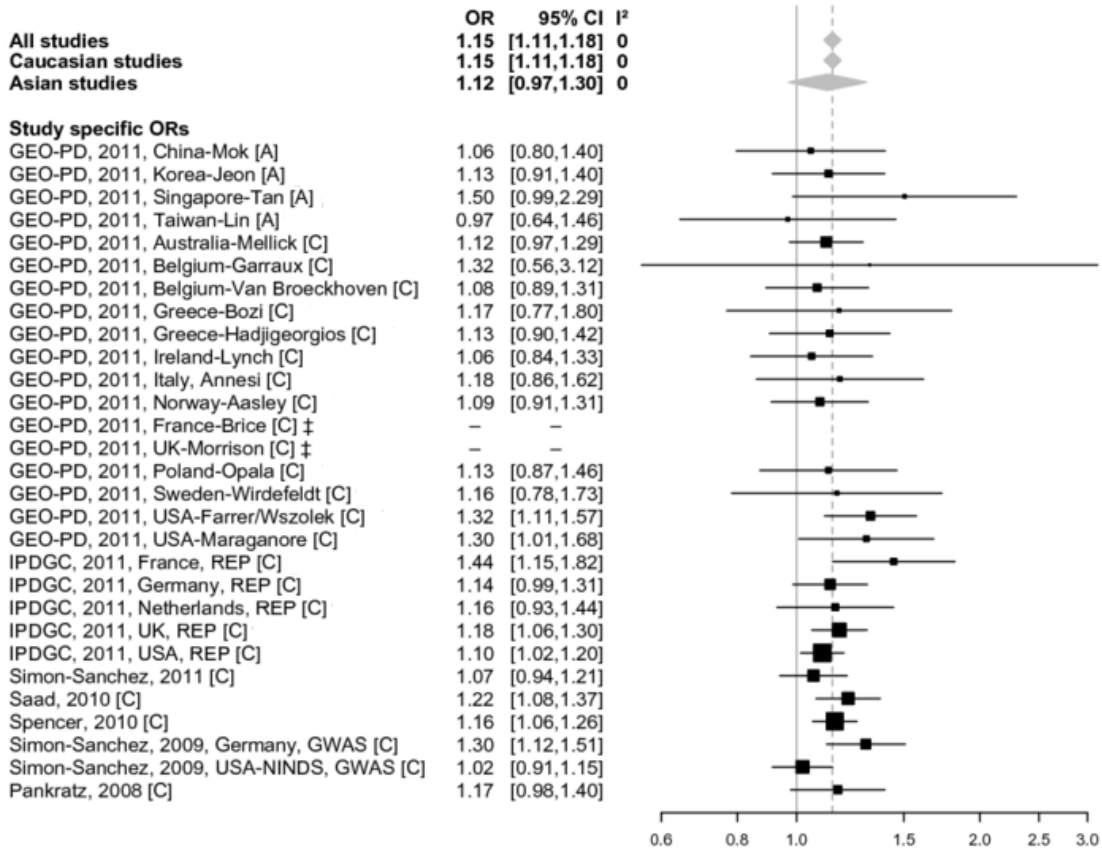

Figure S2, panel 12. *MAPT* H1H2: H2 vs H1

	OR	95% CI	I²
All studies ø	**0.78**	**[0.75, 0.80]**	**1**
All excl HWE violations	**0.78**	**[0.76, 0.81]**	**0**
Caucasian studies	**0.78**	**[0.75, 0.80]**	**0**
Caucasian excl HWE violations	**0.78**	**[0.75,0.80]**	**0**
Study specific ORs			
GEO-PD, 2011, China-Mok [A] ¡	–	–	
GEO-PD, 2011, Singapore-Tan [A] ¡	–	–	
GEO-PD, 2011, Taiwan-Lin [A] ¡	–	–	
GEO-PD, 2011, Australia-Mellick [C]	0.81	[0.69, 0.96]	
GEO-PD, 2011, Belgium-Garraux [C]	0.54	[0.20, 1.46]	
GEO-PD, 2011, Belgium-Van Broeckhoven [C]	0.69	[0.55, 0.87]	
GEO-PD, 2011, Greece-Bozi [C]	0.59	[0.35, 0.99]	
GEO-PD, 2011, Greece-Hadjigeorgios [C]	0.93	[0.70, 1.22]	
GEO-PD, 2011, Italy-Annesi [C]	1.03	[0.71, 1.49]	
GEO-PD, 2011, Norway-Aasley [C]	0.73	[0.58, 0.93]	
GEO-PD, 2011, Ireland-Lynch [C] ‡	–	–	
GEO-PD, 2011, Poland-Opala [C] ‡	–	–	
GEO-PD, 2011, Sweden-Wirdefeldt [C] ‡	–	–	
GEO-PD, 2011, France-Brice [C] ‡	–	–	
GEO-PD, 2011, UK-Morrison [C] ‡	–	–	
GEO-PD, 2011, USA-Farrer/Wszolek [C]	0.68	[0.55, 0.83]	
GEO-PD, 2011, USA-Maraganore [C]	0.76	[0.57, 1.03]	
Mata, 2011 [C]	0.79	[0.70, 0.90]	
IPDGC, 2011, France, REP [C]	0.86	[0.66, 1.11]	
IPDGC, 2011, Germany, REP [C]	0.86	[0.72, 1.02]	
IPDGC, 2011, Netherlands, REP [C]	0.92	[0.71, 1.19]	
IPDGC, 2011, UK, REP [C]	0.79	[0.70, 0.89]	
IPDGC, 2011, USA, REP [C]	0.76	[0.69, 0.83]	
Simon-Sanchez, 2011 [C]	0.82	[0.71, 0.95]	
Elbaz, 2010, Ireland (Lynch) [C]	0.67	[0.52, 0.87]	
Elbaz, 2010, Italy (Ferrarese) [C] #	0.61	[0.39, 0.97]	
Elbaz, 2010, Italy (Valente) [C]	0.91	[0.61, 1.36]	
Elbaz, 2010, Australia-Mellick [C] ‡	–	–	
Elbaz, 2010, Greece-Bozi [C] ‡	–	–	
Elbaz, 2010, Greece-Hadjigeorgiou [C] ‡	–	–	
Elbaz, 2010, Italy-Annesi [C] ‡	–	–	
Elbaz, 2010, Norway-Aasly [C] ‡	–	–	
Elbaz, 2010, USA-Farrer [C] ‡	–	–	
Elbaz, 2010, Germany/Auberger [C] ‡	–	–	
Elbaz, 2010, France [C] ‡	–	–	
Elbaz, 2010, Germany/Klein [C] ‡	–	–	
Elbaz, 2010, Germany/Krueger [C] ‡	–	–	
Elbaz, 2010, Poland (Opala) [C] #	0.91	[0.67, 1.24]	
Elbaz, 2010, Sweden (Wirdefeldt) [C]	1.06	[0.64, 1.75]	
Wider, 2010, Ireland [C] ‡	–	–	
Wider, 2010, Norway-Aasly [C] ‡	–	–	
Wider, 2010, USA [C] ‡	–	–	
Chung, 2010 [C]	0.84	[0.66, 1.06]	
Saad, 2010 [C]	0.74	[0.64, 0.86]	
Botta-Orfila, 2010 [C] ‡	–	–	
Spencer, 2010 [C]	0.77	[0.70, 0.84]	
Benitez, 2010 [O] #	0.76	[0.46, 1.26]	
Hamza, 2010 [C]	0.76	[0.68, 0.86]	
Edwards, 2010 [C]	0.76	[0.61, 0.94]	
Simon-Sanchez, 2009, Germany, GWAS [C]	0.71	[0.59, 0.85]	
Simon-Sanchez, 2009, USA-NINDS, GWAS [C]	0.81	[0.71, 0.93]	
Wider, 2009, Ireland [C] ‡	–	–	
Wider, 2009, Norway-Aasly [C] ‡	–	–	
Wider, 2009, USA [C] ‡	–	–	
Ezquerra, 2009 [C] ‡	–	–	
Payami, 2009 [C] †	–	–	
Kalinderi, 2009 [C] #	0.59	[0.42, 0.84]	
Refenes, 2009 [C] #	0.59	[0.38, 0.92]	
Garcia-Gorostiaga, 2009 [C]	0.95	[0.71, 1.27]	
Das, 2009 [O]	1.35	[0.77, 2.39]	
Ezquerra, 2008 [C] ‡	–	–	
Camuzat, 2008 [D]	2.23	[0.37,13.59]	
McCulloch, 2008, USA-Georgia [C] ‡	–	–	
McCulloch, 2008, USA-NY [C] ‡	–	–	
McCulloch, 2008, USA-Oregon [C] ‡	–	–	
McCulloch, 2008, USA-Washington [C] ‡	–	–	
Vandrovcova, 2007 [C] ‡	–	–	
Goris, 2007 [C] ‡	–	–	
Winkler, 2007, Germany/Klein [C] ‡	–	–	
Winkler, 2007, Serbia [C]	0.57	[0.39, 0.83]	
Zabetian, 2007 [C] ‡	–	–	
Papapetropoulos, 2007 [C]	0.55	[0.34, 0.89]	
Fung, 2006, Taiwan [A] ¡	–	–	
Fung, 2006, Finland [C]	0.87	[0.47, 1.59]	
Fung, 2006, Greece [C] ‡	–	–	
Kobayashi, 2006 [A] ¡	–	–	
Fidani, 2006 [C] ‡	–	–	
Johansson, 2005 [C]	0.68	[0.41, 1.14]	
Kwok, 2005, China [A] ¡	–	–	
Kwok, 2005, Australia [C] ‡	–	–	
Maraganore, 2005 [C] ‡	–	–	
Mamah, 2005 [C] ‡	–	–	
Skipper, 2004 [C] ‡	–	–	
Healy, 2004 [C] ‡	–	–	
Kwok, 2004 [C] ‡	–	–	
Levecque, 2004 [C] ‡	–	–	
Peplonska, 2003 [C]	0.92	[0.52, 1.62]	
Clark, 2003, USA [C]	0.82	[0.47, 1.43]	
Clark, 2003, USA [O]	1.48	[0.76, 2.88]	
de Silva, 2002 [C] ‡	–	–	
Farrer, 2002 [C] ‡	–	–	
Maraganore, 2001 [C] • ‡	–	–	

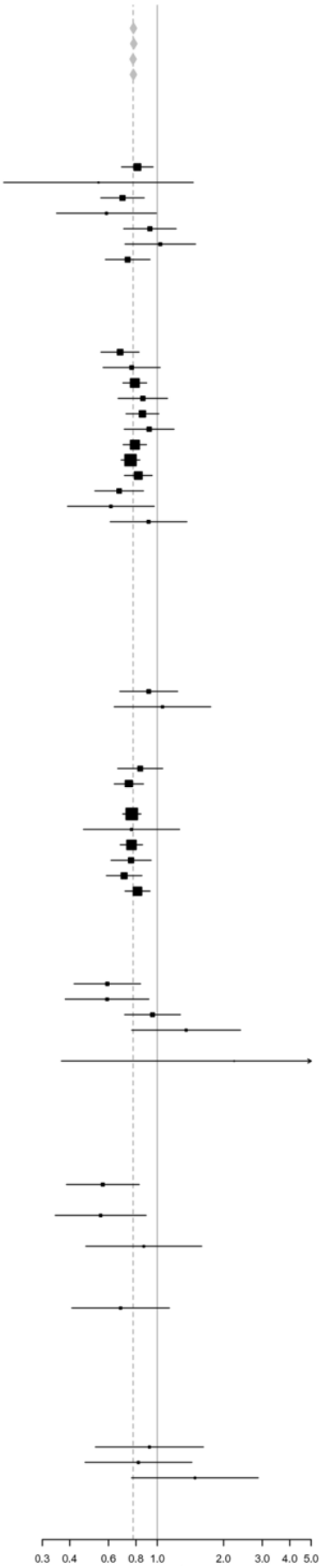

Figure S2, panel 13. PARK16 rs823156: G vs A

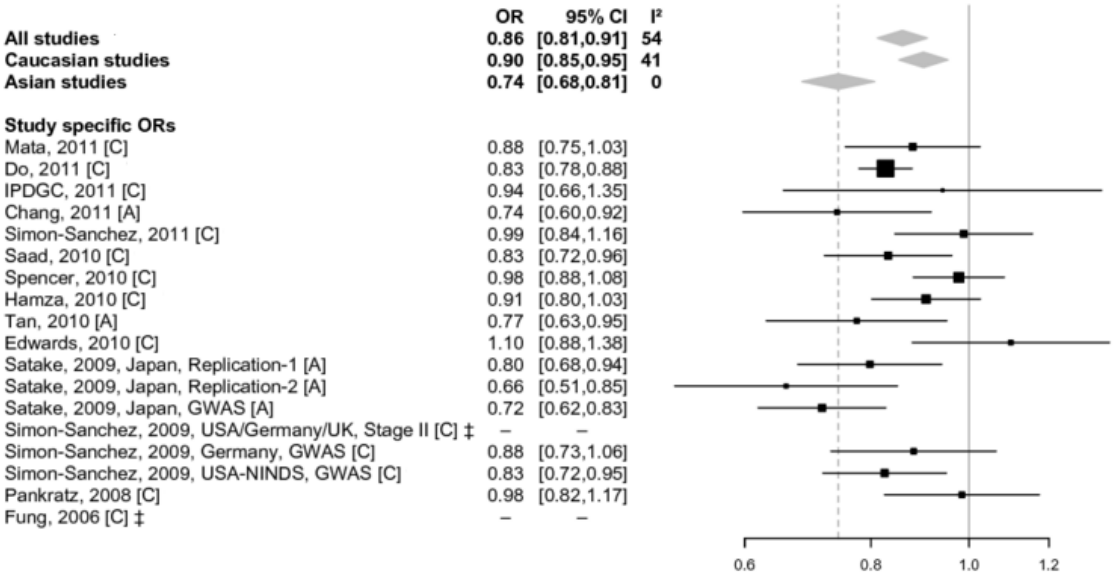

Figure S2, panel 14. *BST1* rs4538475: G vs A

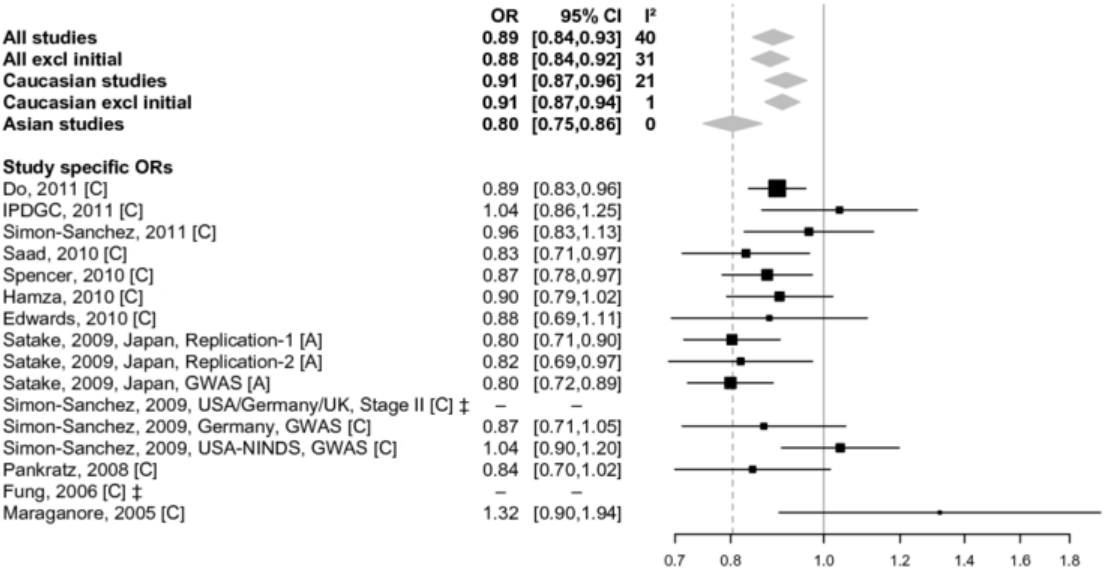

Figure S2, panel 15. *SNCA* rs6532194: T vs C

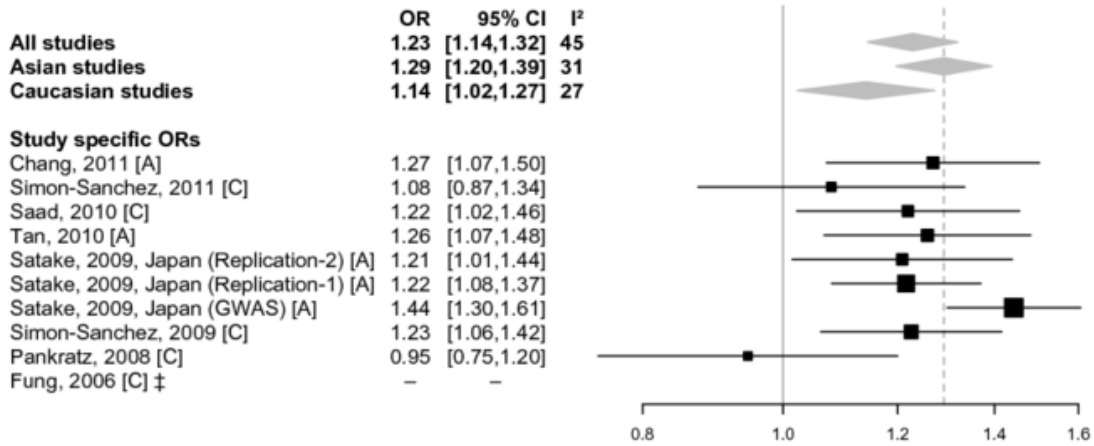
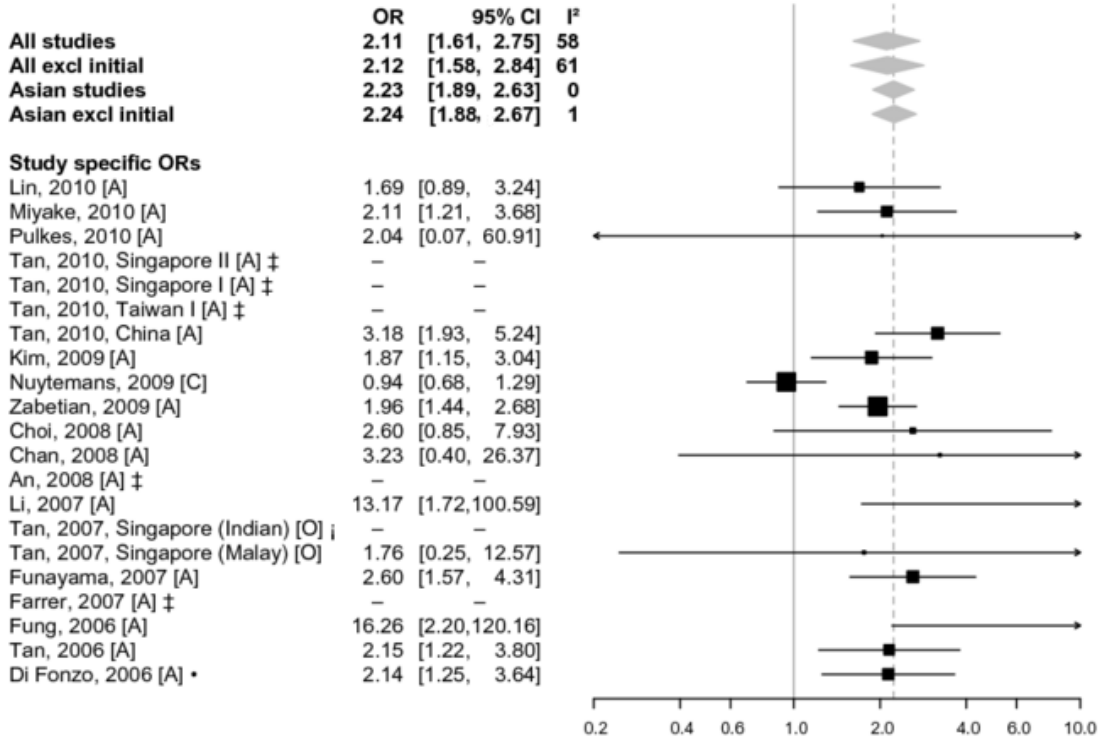
Figure S2, panel 16. *LRKK2* rs34778348: A vs G