

**Supplementary Table 4**

Detailed association analysis between *CACNA1A* rs4926244 and exfoliation syndrome in all collections.

Stage	Collection	N Cases	N Controls	MAF cases	MAF cont	Study weight (%) <sup>a</sup>	OR	P	
GWAS discovery	Japan - discovery	1484	1188	0.29	0.25	8.99	1.29	5.5 x 10 <sup>-5</sup>	
Validation (Stage 1)	Japan - validation	1001	2629	0.28	0.27	9.43	1.04	0.46	
	Singapore	83	2553	0.27	0.20	3.14	1.42	0.051	
	Saudi Arabia	258	977	0.26	0.27	5.00	0.95	0.66	
	Greece	214	483	0.27	0.20	4.26	1.47	0.0044	
	Turkey	80	180	0.25	0.23	2.61	1.15	0.53	
	Mexico	98	195	0.39	0.29	2.83	1.54	0.017	
	South Africa	102	379	0.27	0.22	3.14	1.33	0.12	
	United States	577	1208	0.20	0.15	6.92	1.34	0.002	
	Russia	215	343	0.16	0.13	4.03	1.29	0.14	
	All Validation (Stage 1)		2628	8947				1.17	4.17 x 10 <sup>-5</sup>
All Discovery + Validation (Stage 1)		4112	10135				1.20	2.45 x 10 <sup>-8</sup>	
Replication (Stage 2)	Australia	291	2621	0.19	0.15	5.67	1.33	0.011	
	India	1064	3536	0.30	0.27	10.01	1.16	0.0066	
	Japan - replication	346	906	0.31	0.28	5.54	1.16	0.13	
	Germany	1693	3763	0.17	0.16	11.96	1.09	0.11	
	Italy	510	496	0.18	0.21	5.55	0.88	0.25	
	China-Beijing	100	142	0.19	0.17	2.68	1.12	0.65	
	China-Xinjiang	50	49	0.17	0.15	1.74	1.13	0.75	
	Iran	89	131	0.19	0.18	2.55	1.05	0.84	
	Argentina	42	38	0.24	0.16	1.56	1.67	0.21	
	Poland	88	98	0.23	0.14	2.38	1.84	0.025	
	All Replication (Stage 2)		4273	11780				1.13	1.14 x 10 <sup>-4</sup>
	All Data		8385	21915				1.16	3.36 x 10 <sup>-11b</sup>

<sup>a</sup> Study weights are assigned as described previously by Willer CJ, Li Y, and Abecasis GR. *Bioinformatics* 2010; 26: 2190–2191.

<sup>b</sup>  $P_{het}=0.18$ ;  $I^2$  index = 22.5%