

Appendix 1. Association of *GJD2* rs634990, *IGF1* rs6214 and *HGF* rs3735520 with refractive parameters using one eye data.

Gene	SNP	STM			NAI			Meta-analysis			
		β	SE	<i>P</i>	β	SE	<i>P</i> *	β	SE	<i>P</i>	Adjusted <i>P</i>
Spherical error											
<i>GJD2</i>	rs634990	-0.426	0.434	0.328	0.024	0.194	0.902	-0.048	0.170	0.779	0.989
<i>IGF1</i>	rs6214	-0.476	0.444	0.285	0.115	0.183	0.53	0.042	0.161	0.793	0.991
<i>HGF</i>	rs3735520	-1.140	0.430	0.009	-0.242	0.192	0.207	-0.364	0.167	0.029	0.084
Cylindrical error											
<i>GJD2</i>	rs634990	-0.048	0.131	0.714	0.010	0.084	0.901	-0.007	0.069	0.922	1.000
<i>IGF1</i>	rs6214	-0.249	0.133	0.063	0.134	0.079	0.09	0.028	0.065	0.669	0.964
<i>HGF</i>	rs3735520	-0.160	0.132	0.225	0.039	0.082	0.633	-0.010	0.067	0.878	0.998
Spherical equivalent											
<i>GJD2</i>	rs634990	-0.450	0.469	0.339	0.047	0.213	0.827	-0.035	0.186	0.852	0.997
<i>IGF1</i>	rs6214	-0.600	0.479	0.212	0.147	0.200	0.462	0.047	0.175	0.787	0.990
<i>HGF</i>	rs3735520	-1.220	0.465	0.01	-0.212	0.208	0.309	-0.351	0.181	0.053	0.151
Astigmatism											
<i>GJD2</i>	rs634990	-0.017	0.069	0.809	-0.093	0.177	0.602	-0.027	0.064	0.671	0.964
<i>IGF1</i>	rs6214	-0.031	0.068	0.652	0.083	0.175	0.634	-0.013	0.063	0.831	0.995
<i>HGF</i>	rs3735520	0.008	0.071	0.906	-0.279	0.174	0.11	-0.034	0.065	0.605	0.939
Corneal curvature											
<i>GJD2</i>	rs634990	0.085	0.110	0.439	-0.085	0.164	0.608	0.029	0.091	0.749	0.984
<i>IGF1</i>	rs6214	0.234	0.107	0.029	0.102	0.162	0.529	0.182	0.088	0.038	0.111
<i>HGF</i>	rs3735520	-0.128	0.113	0.256	0.201	0.162	0.217	-0.018	0.092	0.845	0.996