	Chromosome	Base pair position	Nearest gene	Effect allele	Other allele	Effect allele frequency	OR (95% CI)	Regression coefficient (β)	Standard error of β	p value, fixed-effects	p value, conditional joint analysis approach	p value, conditional	p value, random-effects	I^2, %
rs6658353	1	161469054	*FCGR2A*	C	G	0·501	1·07 (1·05–1·09)	0·065	0·009	$6·10×10^{-12}$	$4·69×10^{-12}$	$1·38×10^{-5}$	$3·71×10^{-5}$	40·2%
rs11578699	1	171719769	*VAMP4*	T	C	0·195	0·93 (0·91–0·95)	–0·070	0·012	4·47×10–9	4·45×10–9	2·63×10–3	1·09×10–7	5·1%
rs76116224	2	18147848	*KCNS3*	A	T	0·904	1·12 (1·08–1·16)	0·110	0·019	1·27×10–8	1·27×10–8	3·75×10–7	1·27×10–8	0
rs2042477	2	96000943	*KCNIP3*	A	T	0·242	0·94 (0·92–0·96)	–0·066	0·012	$1·38×10^{-8}$	$1·48×10^{-8}$	$3·49×10^{-5}$	$1·38×10^{-8}$	0
rs6808178	3	28705690	*LINC00693*	T	C	0·379	1·07 (1·05–1·09)	0·066	0·010	$8·09×10^{-12}$	$7·18×10^{-12}$	$8·84×10^{-5}$	$8·09×10^{-12}$	0
rs55961674	3	122196892	*KPNA1*	T	C	0·172	1·09 (1·06–1·12)	0·086	0·013	$9·98×10^{-12}$	$8·30×10^{-12}$	$2·80×10^{-6}$	$9·98×10^{-12}$	0
rs11707416	3	151108965	*MED12L*	A	T	0·367	0·94 (0·92–0·96)	–0·063	0·010	$1·13×10^{-10}$	$1·02×10^{-10}$	$2·66×10^{-4}$	$1·77×10^{-7}$	10·9%
rs1450522	3	161077630	*SPTSSB*	A	G	0·674	0·94 (0·92–0·96)	–0·062	0·010	$5·01×10^{-10}$	$4·90×10^{-10}$	$3·51×10^{-4}$	$2·27×10^{-5}$	24·6%
rs34025766	4	17968811	*LCORL*	A	T	0·159	0·92 (0·90–0·94)	–0·084	0·013	$2·87×10^{-10}$	$2·82×10^{-10}$	$7·43×10^{-6}$	$2·87×10^{-10}$	0
rs62333164	4	170583157	*CLCN3*	A	G	0·326	0·94 (0·92–0·96)	–0·064	0·010	$2·00×10^{-10}$	$1·77×10^{-10}$	$5·10×10^{-5}$	$2·17×10^{-5}$	21·3%
rs26431	5	102365794	*PAM*	C	G	0·703	1·06 (1·04–1·09)	0·062	0·010	$1·57×10^{-9}$	$1·65×10^{-9}$	$6·00×10^{-3}$	$2·36×10^{-7}$	7·9%
rs11950533	5	134199105	*C5orf24*	A	C	0·102	0·91 (0·88–0·94)	–0·092	0·016	$7·16×10^{-9}$	$6·73×10^{-9}$	$5·08×10^{-4}$	$2·68×10^{-8}$	1·9%
rs9261484	6	30108683	*TRIM40*	T	C	0·245	0·94 (0·92–0·96)	–0·064	0·011	$1·62×10^{-8}$	$1·43×10^{-8}$	$1·26×10^{-6}$	$1·62×10^{-8}$	0
rs12528068	6	72487762	*RIMS1*	T	C	0·284	1·07 (1·05–1·09)	0·066	0·010	$1·63×10^{-10}$	$1·79×10^{-10}$	$9·80×10^{-6}$	$1·63×10^{-10}$	0
rs997368	6	112243291	*FYN*	A	G	0·805	1·07 (1·05–1·10)	0·071	0·012	$1·84×10^{-9}$	$1·97×10^{-9}$	$2·61×10^{-5}$	$1·84×10^{-9}$	0
rs75859381	6	133210361	*RPS12*	T	C	0·967	0·80 (0·75–0·86)	–0·221	0·034	$1·04×10^{-10}$	$9·67×10^{-11}$	$1·09×10^{-6}$	$1·04×10^{-10}$	0
rs76949143	7	66009851	*GS1-124K5·11*	A	T	0·051	0·87 (0·82–0·91)	–0·143	0·025	$1·43×10^{-8}$	$1·51×10^{-8}$	$5·47×10^{-9}$	$2·04×10^{-6}$	12·3%
rs2086641	8	130901909	*FAM49B*	T	C	0·723	0·94 (0·92–0·96)	–0·061	0·011	$1·81×10^{-8}$	$1·57×10^{-8}$	$6·07×10^{-6}$	$1·81×10^{-8}$	0
rs6476434	9	34046391	*UBAP2*	T	C	0·734	0·94 (0·92–0·96)	–0·062	0·011	$6·58×10^{-9}$	$6·56×10^{-9}$	$2·74×10^{-4}$	$6·58×10^{-9}$	0
rs10748818	10	104015279	*GBF1*	A	G	0·851	0·92 (0·90–0·95)	–0·079	0·013	$1·05×10^{-9}$	$1·23×10^{-9}$	$7·47×10^{-6}$	$1·05×10^{-9}$	0
rs7938782	11	10558777	*RNF141*	A	G	0·878	1·09 (1·06–1·12)	0·087	0·015	$2·12×10^{-9}$	$1·97×10^{-9}$	$2·17×10^{-7}$	$2·12×10^{-9}$	0
rs7134559	12	46419086	*SCAF11*	T	C	0·404	0·95 (0·93–0·97)	–0·054	0·010	$3·96×10^{-8}$	$3·80×10^{-8}$	$1·69×10^{-2}$	$1·84×10^{-5}$	25·2%
rs11610045	12	133063768	*FBRSL1*	A	G	0·490	1·06 (1·04–1·08)	0·060	0·009	$1·77×10^{-10}$	$1·62×10^{-10}$	$3·57×10^{-5}$	$8·79×10^{-7}$	19·5%
rs9568188	13	49927732	*CAB39L*	T	C	0·740	1·06 (1·04–1·09)	0·062	0·011	$1·15×10^{-8}$	$1·11×10^{-8}$	$4·29×10^{-6}$	$2·46×10^{-4}$	21·4%
rs4771268	13	97865021	*MBNL2*	T	C	0·230	1·07 (1·05–1·09)	0·068	0·011	$1·45×10^{-9}$	$1·67×10^{-9}$	$1·41×10^{-4}$	$1·45×10^{-9}$	0
rs12147950	14	37989270	*MIPOL1*	T	C	0·438	0·95 (0·93–0·97)	–0·053	0·010	$3·54×10^{-8}$	$3·58×10^{-8}$	$1·06×10^{-3}$	$3·54×10^{-8}$	0
rs3742785	14	75373034	*RPS6KL1*	A	C	0·787	1·07 (1·05–1·10)	0·071	0·012	$1·92×10^{-9}$	$2·08×10^{-9}$	$2·22×10^{-6}$	$8·18×10^{-6}$	24·8%
rs2904880	16	28944396	*CD19*	C	G	0·309	0·94 (0·92–0·96)	–0·065	0·011	$7·87×10^{-10}$	$8·68×10^{-10}$	$1·39×10^{-5}$	$7·87×10^{-10}$	0
rs6500328	16	50736656	*NOD2*	A	G	0·599	1·06 (1·04–1·08)	0·059	0·010	$1·82×10^{-9}$	$1·53×10^{-9}$	$1·43×10^{-3}$	$1·82×10^{-9}$	0
rs12600861	17	7355621	*CHRNB1*	A	C	0·648	0·95 (0·93–0·96)	–0·057	0·010	$1·01×10^{-8}$	$1·15×10^{-8}$	$5·10×10^{-3}$	$1·01×10^{-8}$	0
rs2269906	17	42294337	*UBTF*	A	C	0·653	1·07 (1·04–1·09)	0·063	0·010	$6·24×10^{-10}$	$8·63×10^{-9}$	$1·17×10^{-5}$	$6·24×10^{-10}$	0
rs850738	17	42434630	*FAM171A2*	A	G	0·606	0·93 (0·91–0·95)	–0·071	0·011	$1·29×10^{-11}$	$3·55×10^{-10}$	$4·18×10^{-4}$	$2·17×10^{-7}$	17·0%
rs61169879	17	59917366	*BRIP1*	T	C	0·164	1·09 (1·06–1·11)	0·082	0·013	$9·28×10^{-10}$	$9·40×10^{-10}$	$9·07×10^{-7}$	$6·21×10^{-6}$	16·4%
rs666463	17	76425480	*DNAH17*	A	T	0·833	1·08 (1·05–1·11)	0·076	0·013	$3·20×10^{-9}$	$2·90×10^{-9}$	$1·62×10^{-5}$	$4·17×10^{-4}$	41·0%
rs1941685	18	31304318	*ASXL3*	T	G	0·498	1·05 (1·04–1·07)	0·053	0·009	$1·69×10^{-8}$	$1·61×10^{-8}$	$1·64×10^{-8}$	$1·69×10^{-8}$	0
rs8087969	18	48683589	*MEX3C*	T	G	0·550	0·94 (0·93–0·96)	–0·058	0·010	$1·41×10^{-8}$	$1·46×10^{-8}$	$1·09×10^{-4}$	$1·41×10^{-8}$	0
rs77351827	20	6006041	*CRLS1*	T	C	0·128	1·08 (1·05–1·11)	0·080	0·014	$8·87×10^{-9}$	$7·94×10^{-9}$	$1·84×10^{-5}$	$4·38×10^{-7}$	11·2%
rs2248244	21	38852361	*DYRK1A*	A	G	0·283	1·07 (1·05–1·10)	0·071	0·011	$2·74×10^{-11}$	$2·51×10^{-11}$	$6·31×10^{-5}$	$8·78×10^{-6}$	34·3%

Summary statistics for 38 novel genome-wide significant Parkinson's disease variants using data from all available genome-wide association studies.

Table 1: **Novel loci associated with Parkinson's disease**