

TAG SNPs Identification Papers

PMID: [35970579](#)

From the paper

The subsequent meta-analysis of COURAGE-PD and IPDGC datasets (Ntotal = 25,950) led to the identification of 2 genome-wide significant association signals on Chr 4, including the previously reported *SNCA* locus (rs983361) and a novel *BST1* locus (rs4698412).

riskAllele	pValue	riskFrequency	mappedGenes	traitName	efoTraits	locations
rs983361-T	3E-09	0.204	SNCA-AS1	Age of onset of parkinson disease	age of onset of Parkinson disease	4:89840793
rs4698412-A	4E-08	0.562	BST1	Age of onset of parkinson disease	age of onset of Parkinson disease	4:15735725

ref: rs4698412

LD information
hg19 LD R-squared

4	15737101	rs11724635	4	15737348	rs4698412	0.999308
4	15737348	rs4698412	4	15730146	rs34559912	0.966445
4	15737348	rs4698412	4	15730398	rs4389574	0.963118
4	15737348	rs4698412	4	15737101	rs11724635	0.999308
4	15737348	rs4698412	4	15737348	rs4698412	1
4	15737348	rs4698412	4	15737882	rs4698413	0.993086

ref: rs983361

hg19 LD R-squared

4	90753180	rs2737002	4	90761944	rs983361	0.817636
4	90757294	rs1372518	4	90761944	rs983361	0.836286
4	90757505	rs1372520	4	90761944	rs983361	0.8542
4	90761944	rs983361	4	90750326	rs2583978	0.800937
4	90761944	rs983361	4	90750588	rs2583979	0.803922
4	90761944	rs983361	4	90753180	rs2737002	0.817636
4	90761944	rs983361	4	90754313	rs1471484	0.825711
4	90761944	rs983361	4	90754771	rs990085	0.819515
4	90761944	rs983361	4	90757294	rs1372518	0.836286
4	90761944	rs983361	4	90757309	rs1372519	0.838199
4	90761944	rs983361	4	90757505	rs1372520	0.8542
4	90761944	rs983361	4	90761944	rs983361	1
4	90761944	rs983361	4	90771499	rs2583990	0.842982
4	90761944	rs983361	4	90775649	rs1442152	0.851479
4	90761944	rs983361	4	90776257	rs2736989	0.842982
4	90761944	rs983361	4	90779758	rs2583961	0.838894
4	90761944	rs983361	4	90779823	rs2737026	0.838894

PDID: [30957308](#)

From the paper

We found two genome-wide significant association signals, one at SNCA and the other a protein-coding variant in TMEM175, both of which are known PD risk loci and a Bonferroni corrected significant effect at other known PD risk loci, GBA, INPP5F/BAG3, FAM47E/SCARB2, and MCCC1. Notably, SNCA, TMEM175.

riskAllele	pValue	mappedGenes	traitName	efoTraits	locations
rs356203-?	2E-12	SNCA	Parkinson's disease (age of onset)	age at onset,Parkinson disease	4:89744890
rs34311866-C	1E-08	TMEM175	Parkinson's disease (age of onset)	age at onset,Parkinson disease	4:958159

rs356203

4	90637601	rs356219	4	90666041	rs356203	0.962572
4	90641340	rs356220	4	90666041	rs356203	0.985644
4	90666041	rs356203	4	90635606	rs356209	0.845618
4	90666041	rs356203	4	90636561	rs356215	0.844504
4	90666041	rs356203	4	90637601	rs356219	0.962572
4	90666041	rs356203	4	90641340	rs356220	0.985644
4	90666041	rs356203	4	90646886	rs356165	0.994704
4	90666041	rs356203	4	90666041	rs356203	1

rs34311866

4	951947	rs34311866	4	951947	rs34311866	1
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rs6532192

4	90743331	rs10005233	4	90764131	rs6532192	0.803553
4	90750025	rs6828271	4	90764131	rs6532192	0.807909
4	90757272	rs3756059	4	90764131	rs6532192	0.845287

4	90757394	rs3756063	4	90764131	rs6532192	0.852115
4	90759556	rs3806789	4	90764131	rs6532192	0.988154
4	90763360	rs7680557	4	90764131	rs6532192	0.992393

PMID: [27402877](#)

From the paper

CHR	Gene	SNP	MAF	Discovery (NGRC)					Replication					Discovery + Replication				
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GWAS Test Cox regression		Effect on AAO Linear regression			Test Cox regression		Effect on AAO Linear regression			Test Cox regression		Effect on AAO Linear regression						
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HR	P	Beta	95% CI	P	HR	P	Beta	95% CI	P	HR	P	Beta	95% CI	P				
5	LHFPL2	rs10035651	0.016	4.76	3E-8	-12.31	-18.42; -6.19	8E-5	—	—	—	—	—	—	—	—	—	—
5	LHFPL2	rs344650	0.016	4.77	3E-8	-12.33	-18.45; -6.21	8E-5	2.68	2E-5	-8.03	-13.11; -2.95	1E-3	3.40	1E-11	-9.79	-13.70; -5.88	9E-7
5	LHFPL2	rs344657	0.016	4.77	3E-8	-12.33	-18.45; -6.21	8E-5	—	—	—	—	—	—	—	—	—	—
8	TRPS1	rs74335301	0.014	4.46	3E-8	-11.76	-17.98; -5.54	2E-4	1.39	0.07	0.44	-4.34; 5.23	0.86*	2.20	3E-6	-4.09	-7.89; -0.30	0.03
14	KLHDC1	rs79503702	0.012	6.95	7E-9	-14.81	-22.00; -7.62	5E-5	1.89	0.04	-2.03	-10.46; 6.41	0.32	3.82	5E-8	-9.43	-14.90; -3.96	7E-4
14	KLHDC1_ARF6	rs192855008	0.012	7.12	4E-9	-15.01	-22.22; -7.79	5E-5	—	—	—	—	—	—	—	—	—	—
15	TPM1	rs117267308	0.012	6.47	2E-8	-15.30	-22.49; -8.10	3E-5	3.20	2E-4	-9.29	-16.79; -1.79	8E-3	4.55	9E-11	-12.42	-17.61; -7.23	3E-6
15	TPM1	rs141049631	0.012	6.47	2E-8	-15.30	-22.49; -8.10	3E-5	—	—	—	—	—	—	—	—	—	—
15	TPM1	rs116860970	0.013	6.52	8E-9	-15.13	-22.17; -8.09	3E-5	—	—	—	—	—	—	—	—	—	—
15	TPM1	rs77362326	0.012	6.47	2E-8	-15.30	-22.49; -8.10	3E-5	—	—	—	—	—	—	—	—	—	—
15	TPM1	rs201411148	0.012	6.47	2E-8	-15.30	-22.49; -8.10	3E-5	—	—	—	—	—	—	—	—	—	—
15	TPM1	rs142383316	0.012	6.47	2E-8	-15.30	-22.49; -8.10	3E-5	—	—	—	—	—	—	—	—	—	—
15	TPM1	rs117484764	0.012	6.46	2E-8	-15.29	-22.49; -8.10	3E-5	—	—	—	—	—	—	—	—	—	—

rs10035651

5	77860608	rs344650	5	77837737	rs10035651	0.926268
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rs344650

5	77860608	rs344650	5	77837737	rs10035651	0.926268
5	77860608	rs344650	5	77860608	rs344650	1
5	77860608	rs344650	5	77871164	rs394521	0.901537

rs344657

None

rs74335301

8	116638637	rs74335301	8	116638637	rs74335301	1
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rs79503702

14	50206170	rs79503702	14	50206170	rs79503702	1
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rs192855008

None

rs141049631

None

rs116860970

15	63346376	rs117267308	15	63351500	rs116860970	0.929039
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rs77362326

15	63346376	rs117267308	15	63353865	rs77362326	0.913295
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rs201411148

15	63346376	rs117267308	15	63356439	rs201411148	0.964033
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rs142383316

15	63346376	rs117267308	15	63364309	rs142383316	0.929039
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rs117484764

15	63346376	rs117267308	15	63365502	rs117484764	0.929039
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PMID: [33884653](#)

From the paper

One novel significant intergenic locus rs9783733 (NDN; PWRN4) was identified (P = 3.14E-09, beta = 2.30, SE = 0.39).

riskAllele	pValue	riskFrequency	beta	ci	mappedGenes	traitName	efoTraits	accessionId	locations
rs9783733-?	3E-09	NR	2.3 unit increase	[1.54-3.06]	PWRN4	Parkinson's disease (age of onset)	age at onset,Parkinson disease	GCST011677	15:23923803

rs9783733

15	24168950	rs9783733	15	24168950	rs9783733	1
15	24168950	rs9783733	15	24177901	rs28671452	0.947717

PMID: [19772629](#)

From the paper

riskAllele	pValue	mappedGenes	traitName	efoTraits	locations
rs7577851-T	9E-06	AAK1	Parkinson's disease (age of onset)	age at onset,Parkinson disease	2:69496578

rs7577851

2	69723710	rs7577851	2	69723494	rs71840259	0.996326
2	69723710	rs7577851	2	69723710	rs7577851	1
2	69723710	rs7577851	2	69724366	rs202069720	0.997797
2	69723710	rs7577851	2	69724371	rs201872917	0.997797
2	69723710	rs7577851	2	69724649	rs111258456	0.997798