

Table S1. A set of SNPs selected for the association analysis of COVID-19-related phenotypes in the present study.

SNP	Gene Name	Chr:position (GRCh37)	EA/NEA	Proxy GWAS SNP	HWE <i>p</i> -value	EA/NEA GWAS	Phenotype	Reference
rs1405655	<i>NR1H2</i>	19:50882619	C/T	-	0.80	C/T	Hospitalized, AD	[1,2]
rs2109069	<i>DPP9</i>	19:4719443	A/G	-	0.46	A/G	dementia	[1,3]
rs35705950	<i>MUC5B</i>	11:1241221	T/G	-	0.22	T/G	Hospitalized, AD	[1,2]
rs505922	<i>ABO</i>	9:136149229	C/T	-	0.80	T/C	dementia	[1]
rs10735079	<i>OAS3</i>	12:113380008	G/A	-	1	G/A	dementia	[3]
rs2304256	<i>TYK2</i>	19:10475652	A/C	rs11085727	1	T/C	dementia	[3]
rs114067890	<i>SMRR1</i>	1:24999518	G/A	rs111972040	1	G/A	dementia	[3]
rs12329760	<i>TMPRSS2</i>	21:42852497	T/C	-	0.31	T/C	dementia	[3]
rs112640945	<i>CCHCR1</i>	6:31117673	T/C	rs143334143	0.11	A/G	dementia	[3]
rs4290734	<i>TMPRSS2</i>	21:42853083	G/A	rs17854725	0.10	A/G	dementia	[3]
rs3131294	<i>NOTCH4</i>	6:32180146	A/G	-	0.27	A/G	dementia	[3]
rs769449	<i>APOE</i>	19:45410002	A/G	rs429358	0.53	C/T	dementia	[3]
rs61735789	<i>TMPRSS2</i>	21:42852435	A/G	-	0.01	A/G	dementia	[3]
rs117696554	<i>TMPRSS2</i>	21:42860532	A/G	rs61735794	<0.01	T/C	dementia	[3]
rs1894401	<i>FURIN</i>	15:91429042	G/A	rs6226	1	G/C	dementia	[3]
rs4766664	<i>OAS1</i>	12:113362997	T/G	rs6489867	0.75	C/T	dementia	[3]
rs657152	<i>ABO</i>	9:136139265	A/C	-	0.04	A/C	dementia	[3]
rs10911734	<i>IVNS1ABP, SWT1</i>	1:185422424	T/C	rs6668622	0.49	C/T	dementia	[3]
rs17078348	<i>LZTFL1</i>	3:45847241	G/A	rs71325088	0.73	C/T	dementia	[3]
rs7412	<i>APOE</i>	19:45412079	T/C	-	0.08	T/C	dementia	[3]
rs2838046	<i>TMPRSS2</i>	21:42898366	G/A	rs75603675	<0.01	A/C	dementia	[3]
rs9380142	<i>HLA-G</i>	6:29798794	G/A	-	0.19	G/A	dementia	[3]
rs2531743	<i>SLC6A20</i>	3:45838300	A/G	-	0.06	A/G	Hospitalized, AD	[2]
rs45524632	<i>KEAP1</i>	19:10596988	A/C	-	0.39	A/C	critical illness, AD	[2]

rs635634	ABO	9:136155000	T/C	-	<0.01	T/C	critical illness, AD	[2]
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EA/NEA – effect (minor) allele/non-effect (major) allele; AD – Alzheimer’s disease.

References:

1. COVID-19 Host Genetics Initiative. Mapping the Human Genetic Architecture of COVID-19. *Nature* **2021**, 600, 472–477. <http://doi:10.1038/s41586-021-03767-x>.
2. Baranova, A.; Cao, H.; Zhang, F. Causal Effect of COVID-19 on Alzheimer’s Disease: A Mendelian Randomization Study. *J. Med. Virol.* **2022**, <http://doi:10.1002/jmv.28107>.
3. de Rojas, I.; Hernández, I.; Montreal, L.; Quintela, I.; Calero, M.; Royo, J.L.; Huerto Vilas, R.; González-Pérez, A.; Franco-Macías, E.; Macías, J.; et al. Genomic Characterization of Host Factors Related to SARS-CoV-2 Infection in People with Dementia and Control Populations: The GR@ACE/DEGESCO Study. *J. Pers. Med.* **2021**, 11. <http://doi:10.3390/jpm11121318>.