

Supplementary table S1. Genotypic and allelic frequencies of genetic markers in relation to acute COVID-19 (NLC), Long COVID-19 patients (LC) and in Belém (BEL; prior the pandemics).

Gene	Genotypes and Alleles	Frequency (%)			P*
		Control (BEL)	NLC (Mild or asymptomatic)	LC (Mild ≥ 3m)	
TNFA		n (497)	n (79)	n (199)	0.0808
	GG	390 (78.5%)	67 (85%)	183 (92%)	
	AG	96 (19.3%)	12 (15%)	15 (7.5%)	
	AA	11 (2.2%)	0	1 (0.5%)	
	A	12%	7%	4%	
IFNG		n (398)	n (79)	n (199)	0.0332*
	AA	226 (56.7%)	36 (45.5%)	119 (60%)	
	AT	147 (37%)	30 (38%)	68 (34%)	
	TT	25 (6.3%)	13 (16.5%)	12 (6%)	
	T	25%	35%	23%	
IL6		n (300)	n (79)	n (198)	0.4081
	GG	207 (69%)	47 (59.5%)	129 (65%)	
	CG	85 (28%)	28 (35.5%)	62 (31%)	
	CC	8 (3%)	4 (5%)	7 (4%)	
	G	83%	77%	80%	
IL6R			n (79)	n (199)	0.4625
	AA	**	31 (39%)	59 (30%)	
	AC	**	33 (42%)	100 (50%)	
	CC	**	15 (19%)	40 (20%)	
	C		40%	45%	
CD209		n (72)	n (79)	n (199)	0.0604
	AA	50 (69.4%)	48 (61%)	145 (73%)	
	AG	19 (26.4%)	28 (35%)	49 (25%)	
	GG	3 (4.2%)	3 (4%)	5 (2%)	
	G	17%	21%	15%	

Gene	Genotypes and Alleles	Frequency (%)			P*
		Control (BEL)	NLC (Mild or asymptomatic)	LC (Mild ≥ 3m)	
CHTA			n (79)	n (199)	1.0000
	AA	**	18 (23%)	39 (19%)	
	AG	**	32 (40%)	99 (50%)	
	GG	**	29 (37%)	61 (31%)	
	A		43%	44%	
DPA1			n (79)	n (199)	0.7893
	AA	**	37 (47%)	88 (44%)	
	AG	**	36 (45%)	91 (46%)	
	GG	**	6 (8%)	20 (10%)	
	A		70%	67%	
DPB1			n (79)	n (199)	0.5807
	AA	**	31 (39%)	70 (35%)	
	AG	**	41 (52%)	100 (50%)	
	GG	**	7 (9%)	29 (15%)	
	G		35%	40%	
MTHFR		n (478)	n (79)	n (199)	0.0450*
	CC	201 (42%)	28 (35%)	98 (49%)	
	CT	226 (47%)	40 (51%)	80 (40%)	
	TT	51 (11%)	11 (14%)	21 (11%)	
	T	34%	39%	31%	
FV		n (127)	n (79)	n (198)	0.3218
	GG	123 (97%)	77 (97.5%)	196 (99%)	
	AG	4 (3%)	2 (2.5%)	2 (1%)	
	AA	0	0	0	
	A	1.6%	1.2%	0.5%	

SNPs genotype and allele frequencies in the population of Belém could be obtained from studies conducted before the COVID-19 pandemics: *TNFA* and *IFNG* [17–21], *MTHFR* and *F5* [22], *IL6* [23], *CD209* [24]. *Analysis between NLC and LC groups (Fisher's exact test). ** No data available in literature.