

Supplementary tables

Supplementary Table 1. Allele and genetics models in comparison to COPD and HS.

Allele/ Codominant	COPD (n=164)		HS (n=164)		p-value
	n	AF/GF%	n	AF/GF%	
S	213	64.93	222	67.68	0.508
L	115	35.06	106	32.31	
SS	71	43.3	75	45.73	0.463
SL	71	43.3	72	43.9	
LL	22	13.4	17	10.36	
Dominant	n	F %	n	F %	0.738
SS	71	43.3	75	45.7	
SS+SL	93	56.7	89	54.3	
Recessive	n	F %	n	F %	0.495
SS+SL	142	86.6	147	89.6	
LL	22	13.4	17	10.4	

Abbreviations: COPD, Chronic obstructive pulmonary disease; HS, heavy smokers; AF, allele frequencies; GF, genotype frequencies; F, frequencies. p-value by Yate's correction.

Supplementary Table 2. Allele and genetics models in comparison to COPD and LS.

Allele/ Codominant	COPD (n=164)		LS (n=164)		p-value
	n	AF/GF%	n	AF/GF%	
S	213	64.93	228	69.51	0.244
L	115	35.06	100	30.48	
SS	71	43.3	84	51.21	0.233
SL	71	43.3	60	36.58	
LL	22	13.4	20	12.19	
Dominant	n	F %	n	F %	0.184
SS	71	43.3	84	51.2	
SS+SL	93	56.7	80	48.8	
Recessive	n	F %	n	F %	0.868
SS+SL	142	86.6	144	87.8	
LL	22	13.4	20	12.2	

Abbreviations: COPD, Chronic obstructive pulmonary disease; LS, light smokers; AF, allele frequencies; GF, genotype frequencies; F, frequencies. p-value by Yate's correction.

Supplementary Table 3. Allele and genetics models in comparison to HS and LS.

Allele/ Codominant	HS (n=164)		LS (n=164)		p-value
	n	AF/GF%	n	AF/GF%	
S	222	67.68	228	69.51	0.674
L	106	32.31	100	30.48	
SS	75	45.73	84	51.21	0.625
SL	72	43.9	60	36.58	
LL	17	10.36	20	12.19	

Dominant	n	F %	n	F %	0.376
SS	75	45.7	84	51.2	
SS+SL	89	54.3	80	48.8	
Recessive	n	F %	n	F %	0.727
SS+SL	147	89.6	144	87.8	
LL	17	10.4	20	12.2	

Abbreviations: HS, heavy smokers; LS, light smokers; AF, allele frequencies; GF, genotype frequencies; F, frequencies. p-value by Yate's correction.

Supplementary Table 4. Comparison by age of onset in all populations of the study, in women and men.

<i>Allele/ Codominant</i>	<18 years (n=297)		≥18 years (n=195)		p-value
	n	AF/GF%	n	AF/GF%	
S	386	64.9	268	68.7	0.252
L	208	35.1	122	31.3	
SS	129	43.43	94	48.2	0.496
SL	128	43.10	80	41	
LL	40	13.47	21	10.7	
<i>Dominant</i>	n	F %	n	F %	0.343
SS	129	43.43	94	48.21	
SL+LL	168	56.57	101	51.79	
<i>Women</i>	<18 years (n=90)		≥18 years (n=90)		
<i>Allele/ Codominant</i>	n	AF/GF%	n	AF/GF%	
S	113	62.7	125	69.5	0.220
L	67	37.2	55	30.5	
SS	37	41.1	43	47.7	0.189
SL	39	43.3	39	43.3	
LL	14	15.5	8	8.9	
<i>Dominant</i>	n	F %	n	F %	0.453
SS	37	41.11	43	47.78	
SL+LL	53	58.89	47	52.22	
<i>Men</i>	<18 years (n=208)		≥18 years (n=104)		
<i>Allele/ Codominant</i>	n	AF/GF%	n	AF/GF%	
S	270	64.9	150	72.1	0.085
L	146	35.1	58	27.9	
SS	91	43.8	56	53.8	0.082
SL	88	42.3	38	36.5	
LL	29	13.9	10	9.6	
<i>Dominant</i>	n	F %	n	F %	0.117
SS	91	43.75	56	53.85	
SL+LL	117	56.25	48	46.15	

Abbreviations: AF, allele frequencies; GF, genotype frequencies; F, frequencies. p-value by Yate's correction.

Supplementary Table 5. Comparison by sex in LS, HS and COPD groups.

<i>LS</i>		Men (n=80)		Women (n=84)		p-value
<i>Allele/ Codominant</i>		n	AF/GF%	n	AF/GF%	
S		117	73.1	108	64.3	0.108
L		43	26.9	60	35.7	
SS		47	58.8	35	41.7	0.106
SL		23	28.7	38	45.3	
LL		10	12.5	11	13	
Dominant		n	F %	n	F %	0.042
SS		47	58.75	35	41.67	
SL+LL		33	41.25	49	58.33	
<i>HS</i>		Men (n=93)		Women (n=71)		
<i>Allele/ Codominant</i>		n	AF/GF%	n	AF/GF%	
S		123	66.1	94	66.2	0.165
L		63	33.9	48	33.8	
SS		40	43	32	45	0.989
SL		43	46.2	30	42.2	
LL		10	10.7	9	12.7	
Dominant		n	F %	n	F %	0.916
SS		40	43.01	32	45.07	
SL+LL		53	56.99	39	54.93	
<i>COPD</i>		Men (n=130)		Women (n=34)		
<i>Allele/ Codominant</i>		n	AF/GF%	n	AF/GF%	
S		165	63.5	47	69.1	0.467
L		95	36.5	21	30.9	
SS		53	40.7	16	47.1	0.389
SL		59	45.4	15	44.1	
LL		18	13.8	3	8.8	

Dominant	n	F %	n	F %	
SS	53	40.77	16	47.06	0.640
SL+LL	77	59.23	18	52.94	

Abbreviations: LS, light smokers; HS, heavy smokers; COPD, Chronic obstructive pulmonary disease; AF, allele frequencies; GF, genotype frequencies; F, frequencies. p-value by Yate's correction.

Supplementary Table 6. Comparison in women included in this study.

<i>Codominant</i>	HS (n=71)		LS (n=84)		p-value
	n	GF%	n	GF%	
SS	32	45	35	41.7	0.730
SL	30	42.2	38	45.3	
LL	9	12.7	11	13	
Dominant	n	F %	n	F %	0.792
SS	32	45	35	41.7	
SL+LL	39	54.9	49	58.3	
<i>Codominant</i>	COPD (n=34)		LS (n=84)		
	n	GF%	n	GF%	
SS	16	47.1	35	41.7	0.481
SL	15	44.1	38	45.3	
LL	3	8.8	11	13	
Dominant	n	F %	n	F %	0.741
SS	16	47	35	41.7	
SL+LL	18	52.9	49	58.3	
<i>Codominant</i>	COPD (n=34)		HS (n=71)		
	n	GF%	n	GF%	
SS	16	47.1	32	45	0.679
SL	15	44.1	30	42.2	
LL	3	8.8	9	12.7	
Dominant	n	F %	n	F %	0.985
SS	16	47	32	45	
SL+LL	18	52.9	39	54.9	

Abbreviations: HS, heavy smokers; LS, light smokers; COPD, Chronic obstructive pulmonary disease; GF, genotype frequencies; F, frequencies. p-value by Yate's correction.

Supplementary Table 7. Comparison only in men included in this study.

<i>Codominant</i>	COPD (n=130)		HS (n=93)		p-value
	n	GF%	n	GF%	
SS	53	40.7	40	43	0.562
SL	59	45.4	43	46.2	
LL	18	13.8	10	10.7	
Dominant	n	F %	n	F %	0.843
SS	53	40.7	40	43	
SL+LL	77	59.2	53	57	

Abbreviations: COPD, Chronic obstructive pulmonary disease; HS, heavy smokers; GF, genotype frequencies; F, frequencies. p-value by Yate's correction.