

Additional table 1 Genotype frequencies of the studied SNPs among Finnish construction workers according to the existence of different emphysematous changes

Gene	SNP	Genotypes	Amino acid change	Radiologic signs of emphysema					
				No changes n (%)	Any changes n (%)	Centrilobular n (%)	Paraceptal n (%)	Panlobular n (%)	Bullae n (%)
<i>GC</i>	rs7041 (n=941) ^a	TT	Glu432Glu	254 (42.8)	136 (39.2)	83 (36.7)	63 (37.5)	59 (35.3)	54 (43.9)
		TG	Glu432Asp	278 (46.8)	161 (46.4)	113 (50.0)	80 (47.6)	82 (49.1)	57 (46.3)
		GG	Asp432Asp	62 (10.4)	50 (14.4)	30 (13.3)	25 (14.9)	26 (15.6)	12 (9.8)
	rs4588 (n=940) ^a	CC	Thr436Thr	365 (61.4)	216 (62.4)	133 (59.1)	98 (58.7)	105 (62.9)	79 (64.2)
		CA	Thr436Lys	204 (34.3)	117 (33.8)	86 (38.2)	64 (38.3)	56 (33.5)	43 (35.0)
		AA	Lys436Lys	25 (4.2)	13 (3.8)	6 (2.7)	5 (3.0)	6 (3.6)	1 (0.8)
<i>MMP1</i>	rs1799750 (n=944) ^a	GG		209 (35.1)	109 (31.3)	67 (29.6)	42 (24.9)	54 (32.3)	35 (28.5)
		G-		272 (45.6)	171 (49.1)	108 (47.8)	90 (53.3)	84 (50.3)	65 (52.8)
		--		115 (19.3)	68 (19.5)	51 (22.6)	37 (21.9)	29 (17.4)	23 (18.7)
<i>MMP9</i>	rs3918242 (n=942) ^a	CC		428 (72.1)	262 (75.3)	171 (75.7)	124 (73.4)	123 (73.7)	91 (74.0)
		CT		154 (25.9)	82 (23.6)	52 (23.0)	44 (26.0)	43 (25.7)	31 (25.2)
		TT		12 (2.0)	4 (1.1)	3 (1.3)	1 (0.6)	1 (0.6)	1 (0.8)
<i>MMP12</i>	rs652438 (n=941) ^a	AA	Asn357Asn	549 (92.4)	324 (93.4)	210 (92.9)	155 (92.3)	159 (95.2)	116 (94.3)
		AG	Asn357Ser	45 (7.6)	23 (6.6)	16 (7.1)	13 (7.7)	8 (4.8)	7 (5.7)
		GG	Ser357Ser	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
<i>TIMP2</i>	rs2277698 (n=940) ^a	GG		462 (77.9)	270 (77.8)	175 (77.4)	123 (73.2)	125 (74.9)	93 (75.6)
		GA		123 (20.7)	68 (19.6)	45 (19.9)	39 (23.2)	37 (22.2)	27 (22.0)
		AA		8 (1.3)	9 (2.6)	6 (2.7)	6 (3.6)	5 (3.0)	3 (2.4)
<i>TNF</i>	rs1799724 (n=939) ^a	CC		530 (89.2)	308 (89.3)	200 (89.3)	152 (90.5)	149 (89.2)	114 (92.7)
		CT		62 (10.4)	37 (10.7)	24 (10.7)	16 (9.5)	18 (10.8)	9 (7.3)
		TT		2 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
	rs1800629 (n=941) ^a	GG		465 (78.3)	251 (72.3)	163 (72.1)	111 (66.1)	119 (71.3)	90 (73.2)
		GA		120 (20.2)	87 (25.1)	60 (26.5)	52 (31.0)	42 (25.1)	31 (25.2)
		AA		9 (1.5)	9 (2.6)	3 (1.3)	5 (3.0)	6 (3.6)	2 (1.6)
<i>TGFBI</i>	rs1800469 (n=917) ^a	GG		338 (58.3)	198 (58.8)	131 (59.8)	98 (60.1)	92 (56.8)	73 (62.9)
		GA		198 (34.1)	120 (35.6)	77 (35.2)	57 (35.0)	56 (34.6)	39 (33.6)
		AA		44 (7.6)	19 (5.6)	11 (5.0)	8 (4.9)	14 (8.6)	4 (3.4)
	rs1800470 (n=944) ^a	TT	Leu10Leu	297 (49.8)	180 (51.7)	118 (52.2)	86 (50.9)	82 (49.1)	67 (54.5)
		TC	Leu10Pro	243 (40.8)	143 (41.1)	93 (41.2)	71 (42.0)	67 (40.1)	52 (42.3)
		CC	Pro10Pro	56 (9.4)	25 (7.2)	15 (6.6)	12 (7.1)	18 (10.8)	4 (3.3)
rs2241718 (n=935) ^a	GG		436 (73.8)	255 (74.1)	173 (77.6)	129 (77.7)	121 (72.9)	99 (81.1)	
	GA		138 (23.4)	82 (23.8)	46 (20.6)	36 (21.7)	42 (25.3)	21 (17.2)	
	AA		17 (2.9)	7 (2.0)	4 (1.8)	1 (0.6)	3 (1.8)	2 (1.6)	

^aNumber of successful genotyping analysis