TableO2 Gene main effects of HMOX1 and GST polymorphisms on annual decline in FEF₂₅₋₇₅ stratified by sex

Gene-Polymorphism			WOMEN (n=2308)			MEN (n=2057)		
			Gene main effect on decline in FEF ₂₅ ₇₅ /year (in mL/s per year) ¹	` ,	P-value	Gene main effect on decline in FEF _{25- 75} /year (in mL/s per year) ¹	` ,	P-value
Heme Oxygenase-1 Single Nucleotide Polymorphisms								
	Alleles	N (whole samp						
	AA	1401	ref			ref		
HMOX1	AT	2089	0.7	-4.6 to 6.1	0.093 ^c	1.1	-5.8 to 7.9	0.109 ^c
rs2071746	TT	763	5.7	-1.2 to 12.7		7.1	-1.8 to 15.9	
LIMOV4	AA	1669	ref			ref		
HMOX1 rs735266	AT	2022	-1.0	-6.1 to 4.1	0.365°	3.3	-3.3 to 9.8	0.054 ^a
13733200	TT	595	2.5	-4.7 to 9.8		9.5	0.0 to 19.0	
HMOX1	СС	2021	ref			ref		
rs5995098	CG	1876	-1.7	-6.7 to 3.2	0.217 ^c	0.2	-6.2 to 6.5	0.062 ^c
	GG	427	4.1	-4.1 to 12.2		9.7	-0.9 to 20.2	
Heme Oxygenase-1 Haplotypes ² No of alleles N								
Hanlahm :	0	798	ref			ref		
Haplotype	1	2178	-3.6	-10.0 to 2.7	0.181 ^b	-5.1	-13.2 to 3.0	0.139 ^b
AAC	2	1389	-4.9	-11.7 to 2.0		-6.9	-15.5 to 1.8	
Haplotype	0	3925	ref			ref		
ATC	1	431	6.0	-1.9 to 13.9	0.123 ^a	-1.4	-11.2 to 8.3	0.704^{a}
AIC	2	9	28.9	-79.0 to 136.9		-9.0	-61.8 to 43.9	
Haplotype	0	3873	ref			ref		
TTC	1	478	1.8	-5.6 to 9.3	0.488 ^c	5.6	-3.9 to 15.1	0.321 ^b
	2	14	14.7	-26.1 to 55.5		-25.7	-78.9 to 27.6	
Haplotype	0	2057	ref			ref		
TTG	1	1895	-2.0	-6.9 to 2.9	0.210 ^c	0.1	-6.2 to 6.3	0.032 ^c
	2	413	4.0	-4.2 to 12.2		11.3	0.6 to 22.0	1
Heme Oxygenase-1 Promoter Repeat Polymorphism long allele N (>=33 repeats)								
	no no	3919	ref			ref		
HMOX1 (GT)n	yes	446	4.0	-3.7 to 11.7	0.310	-2.7	-12.7 to 7.4	0.603
Glutathians					2.3.0		10 7.1	
Glutathione S	- i i ai iSi	erase FulyIIIC	npinsins					
complete						1 -		
GSTM1	no	2032	ref	0.0 +- 1.0	0.100	ref	21 +- 00	0.044
deletion ³ GSTT1	yes	2319 3554	-3.6 ref	-8.3 to 1.0	0.128	2.9 ref	-3.1 to 9.0	0.341
deletion ³	no yes	3554 797	4.4	-1.5 to 10.2	0.145	-6.2	-14.3 to 1.8	0.126
	Ile / Ile	2061	ref	1.0 10 10.2	0.140	ref	. 1.0 10 1.0	0.120
GSTP1 Val/Ile	lle/Val	1892	-4.2	-9.0 to 0.7	0.089 ^b	-3.7	-10.0 to 2.6	0.159 ^a
Polymorphism	Val/Val	401	-3.4	-12.0 to 5.3	3.003	-6.1	-16.7 to 4.5	0.155
a	July Val		J	0 10 0.0		J 5.1	.0.7 10 4.0	

a under an additive genetic model b under a dominant genetic model

under a recessive genetic model

¹ Negative values represent accelerations of the natural decline, positive values attenuations, compared to the reference group Estimates from a multivariable linear regression of annual change in FEF25-75 on genetic variants adjusted for: PM10 exposure at baseline, annual change in PM10, sex, age, age squared, height and atopy at baseline, smoking status at follow-up, cigarettes per day in smokers at both surveys, pack-years up to baseline and between surveys, parental smoking, workplace-exposure to dust and fumes at each survey, baseline BMI, change in BMI and the interaction between the two, level of education and its change, nationality, season of assessment and clustering within area.

² Determined from rs2071746, rs735266 and rs5995098 SNPs (in this sequence) using PHASE software v2.1

³ Deletions are homozygous gene deletions (null vs. non-null)