

Supplementary Tables to Ong et al. “A genetic variant in the gene encoding fibrinogen beta chain predicted development of hypertension in Chinese men” (Thromb Haemost 2010; 103.4)

Supplementary Table 1: Tagging SNP selection.

SNP	Chromosome position (NC_000004)	Location in gene	MAF (CHB HapMap)	Alleles (Major : Minor)	Tagging SNP	r^2
rs7673587	155699884	5' near gene	0.111	C:T	rs1044291	1.00
rs4508864	155700739	5' near gene	0.119	C:T	rs4220	0.90
rs1025154	155700813	5' near gene	0.333	T:C	rs1025154	1.00
rs4333166	155700961	5' near gene	0.178	G:A	rs4220	1.00
rs1800789	155702193	5' near gene	0.183	G:A	rs4220	1.00
rs1800788	155703364	5' near gene	0.382	T:C	rs1025154	1.00
rs2227401	155705831	Intron 1	0.178	C:T	rs4220	1.00
rs6056	155708271	Exon 4 (Ser/Ser)	0.178	C:T	rs4220	1.00
rs4681	155710282	Exon 7 (Tyr/Tyr)	0.178	C:T	rs4220	1.00
rs4220	155711209	Exon 8 (Arg/Lys)	0.178	G:A	rs4220	1.00
rs2227424	155712170	3' near gene	0.178	C:G	rs4220	1.00
rs2227426	155712621	3' near gene	0.178	G:A	rs4220	1.00
rs2059502	155712769	3' near gene	0.178	T:C	rs4220	1.00
rs1044291	155712802	3' near gene	0.111	C:T	rs1044291	1.00
rs2059503	155712869	3' near gene	0.182	A:T	rs4220	1.00

Supplementary Table 2: *FGB* haplotypes.

Haplotype	rs1025154	rs4220	rs1044291	Frequency
1	C	G	C	0.522
2	T	A	C	0.269
3	T	G	T	0.115
4	T	G	C	0.093

Only haplotypes with frequency >0.05 are shown.

Supplementary Table 3: Association of haplotypes with hypertension, blood pressure* and fibrinogen.

SNP	Plasma fibrinogen, p-value (regression coefficient)	Hypertension, p-value (odds ratio)	Systolic blood pressure, p-value (regression coefficient)	Diastolic blood pressure, p-value (regression coefficient)
Baseline				
Overall	<0.001	0.017	0.008	0.040
CGC	0.001 (-0.068)	ns	ns	-
TAC	<0.001 (0.135)	0.004 (1.49)	ns	-
TGT	ns	ns	<0.001 (-3.096)	0.006 (-1.617)
TGC	ns	ns	ns	-
Follow-up				
Overall	<0.001	ns	ns	0.004
CGC	0.003 (-0.065)	-	-	ns
TAC	<0.001 (0.124)	-	-	0.019 (1.113)
TGT	ns	-	-	0.002 (-2.080)
TGC	ns	-	-	ns

An omnibus test was first performed to assess the global p-value of the overall variation at the locus. Phenotypes with a global $p < 0.05$ were further analyzed for the effect of each of the specific haplotype by comparing with all other haplotypes combined. All p-values were adjusted for age and sex.

*For blood pressure, only subjects not taking anti-hypertensive medications at baseline (n=1220) and follow-up (n=1084) were included in the analysis.

Abbreviation: ns, not significant ($p > 0.05$).

Supplementary Table 4: Sex-specific associations of genotypes with blood pressure in subjects not taking anti-hypertensive medications at baseline and follow-up.

SNP	Genotype	Men (n=595 at baseline and 527 at follow-up)		Women (n=625 at baseline and 557 at follow-up)	
		Mean \pm SD (mmHg)	P-value (regression coefficient, β)	Mean \pm SD (mmHg)	P-value (regression coefficient, β)
Systolic blood pressure at baseline					
rs1025154	CC	117.4 \pm 14.5	0.486 (0.548, 0.026)	115.4 \pm 18.9	0.102 (-1.338, -0.054)
	CT	119.6 \pm 15.7		112.7 \pm 17.7	
	TT	117.8 \pm 15.3		110.3 \pm 16.1	
rs4220	GG	117.2 \pm 15.5	0.007 (2.440, 0.100)*	113.0 \pm 18.3	0.782 (-0.262, -0.009)
	GA	119.9 \pm 14.7		113.7 \pm 16.8	
	AA	120.5 \pm 16.3		108.4 \pm 19.1	
rs1044291	CC	119.5 \pm 15.5	0.001 (-4.077, -0.120)*	113.8 \pm 18.0	0.107 (-2.145, -0.053)
	CT	115.4 \pm 13.8		109.3 \pm 16.2	
	TT	107.1 \pm 15.9		123.3 \pm 20.2	
Systolic blood pressure at follow-up					
rs1025154	CC	122.6 \pm 14.6	0.506 (0.537, 0.027)	116.8 \pm 17.8	0.271 (-1.017, -0.042)
	CT	121.1 \pm 14.2		115.9 \pm 18.8	
	TT	122.7 \pm 14.9		113.4 \pm 14.0	

rs4220	GG	121.1 ± 14.0	0.029 (2.060, 0.089)	115.9 ± 18.9	0.845 (-0.208, -0.007)
	GA	122.7 ± 14.8		115.7 ± 15.9	
	AA	124.2 ± 16.8		113.0 ± 14.4	
rs1044291	CC	122.6 ± 14.8	0.035 (-2.769, -0.085)	116.1 ± 16.9	0.236 (-1.818, -0.045)
	CT	120.0 ± 13.2		113.7 ± 19.7	
	TT	110.2 ± 9.9		117.0 ± 7.6	
Diastolic blood pressure at baseline					
rs1025154	CC	75.2 ± 8.5	0.876 (0.079, 0.006)	72.1 ± 10.0	0.008 (-1.322, -0.097)*
	CT	75.9 ± 9.8		70.5 ± 9.7	
	TT	75.1 ± 9.1		68.6 ± 9.1	
rs4220	GG	75.0 ± 9.3	0.146 (0.858, 0.058)	70.7 ± 9.8	0.274 (-0.635, -0.040)
	GA	75.9 ± 9.3		71.1 ± 9.5	
	AA	76.3 ± 8.5		66.4 ± 10.3	
rs1044291	CC	76.0 ± 9.1	0.005 (-2.306, -0.113)*	70.9 ± 9.9	0.255 (-0.932, -0.042)
	CT	74.0 ± 9.2		69.1 ± 9.0	
	TT	67.6 ± 12.1		73.8 ± 8.9	
Diastolic blood pressure at follow-up					
rs1025154	CC	77.6 ± 9.4	0.492 (0.396, 0.030)	72.4 ± 9.6	0.276 (-0.630, -0.046)
	CT	77.3 ± 9.5		72.0 ± 10.8	

	TT	78.4 ± 10.3		70.8 ± 8.1	
rs4220	GG	77.0 ± 9.1	0.036 (1.413, 0.071)	71.5 ± 10.2	0.221 (0.816, 0.051)
	GA	78.2 ± 9.8		72.0 ± 9.8	
	AA	79.8 ± 12.3		73.1 ± 8.3	
rs1044291	CC	78.1 ± 9.8	0.014 (-2.309, -0.107)	72.2 ± 9.7	0.047 (-1.899, -0.083)
	CT	76.3 ± 9.1		69.9 ± 10.6	
	TT	67.8 ± 5.2		75.3 ± 10.1	

Data are expressed as mean ± SD. All p-values were adjusted for age and sex. Unstandardised regression coefficient and standardized regression coefficient (β) are shown only when $p < 0.05$.

*P-values that can pass multiple testing correction ($p < 0.0096$).