SUPPLEMENTAL MATERIAL

Lead SNP	Proxy SNP (r ²)	Gene	Risk Allele	Other Allele	Risk Allele Frequency	Risk Estimate (published)	Reference	Pleiotropy*
rs599839	rs646776 (0.91)	SORT1	Т	С	0.77	1.11	CARDIoGRAM ¹	Lipids, Type 2 Diabetes
rs17114036		PPAP2B	А	G	0.92	1.11	CARDIoGRAMplusC4D ²	Blood Pressure
rs11206510		PCSK9	Т	С	0.82	1.08	CARDIoGRAM	Lipids
rs17465637		MIA3	С	А	0.74	1.14	CARDIoGRAM ¹	
rs6725887		WDR12	G	А	0.13	1.12	CARDIoGRAMplusC4D ²	Lipids
rs9818870		MRAS	Т	С	0.16	1.07	CARDIoGRAMplusC4D ²	
rs17609940		ANKS1A	G	С	0.79	1.07	CARDIoGRAM ¹	
rs12526453		PHACTR1	G	С	0.67	1.1	CARDIoGRAM ¹	
rs12190287		TCF21	С	G	0.63	1.07	CARDIoGRAMplusC4D ²	
rs3798220		LPA	С	Т	0.01	1.51	CARDIoGRAM ¹	Lipids
rs10455872		LPA	С	Т	0.07	1.45	IBC 50k CAD	Lipids
rs11556924		ZC3HC1	С	Т	0.63	1.09	CARDIoGRAMplusC4D ²	Lipids, Blood Pressure
rs4977574		CDKN2A	G	А	0.45	1.29	CARDIoGRAM ¹	
rs579459		ABO	С	Т	0.23	1.07	CARDIoGRAMplusC4D ²	Lipids, Blood Pressure
rs501120	rs1746048 (1)	CXCL12	С	Т	0.86	1.07	CARDIoGRAMplusC4D ²	
rs12413409		CYP17A1	G	А	0.89	1.12	CARDIoGRAM ¹	Blood Pressure
rs964184		APOA5	G	С	0.13	1.13	CARDIoGRAM ¹	Lipids
rs2259816		HNF1A	Т	G	0.35	1.08	Erdmann et al. (2009)	Lipids
rs3184504		SH2B3	Т	С	0.48	1.07	CARDIoGRAMplusC4D ²	Lipids, Blood Pressure
rs4773144		COL4A1	G	А	0.41	1.07	CARDIoGRAMplusC4D ²	
rs2895811		HHIPL1	С	Т	0.45	1.06	CARDIoGRAMplusC4D ²	
rs3825807		ADAMTS7	А	G	0.57	1.08	CARDIoGRAM	Type 2 Diabetes
rs12936587		RASD1	G	А	0.53	1.06	CARDIoGRAMplusC4D ²	
rs216172		SMG6	С	G	0.36	1.07	CARDIoGRAM ¹	
rs46522	rs318090 (1)	UBE2Z	А	G	0.52	1.06	CARDIoGRAM ¹	
rs1122608		LDLR	G	Т	0.77	1.1	CARDIoGRAMplusC4D ²	Lipids, Type 2 Diabetes
rs9982601		KCNE2	Т	С	0.14	1.13	CARDIoGRAMplusC4D ²	
rs4845625		IL6R	Т	С	0.43	1.04	CARDIoGRAMplusC4D ²	
rs1561198	rs2028900 (0.95)	GGCX/VAMP8	Т	С	0.43	1.05	CARDIoGRAMplusC4D ²	
rs6544713	rs4299376 (1)	ABCG8	G	Т	0.29	1.06	CARDIoGRAMplusC4D ²	Lipids

Supplemental Table 1. Coronary Heart Disease Associated Single Nucleotide Polymorphisms Included in the Polygenic Risk Score

Lood SNID Drown SND (*2)		Come	Risk	Other	Risk Allele	Risk Estimate	Deferment	DI
Lead SNP	Proxy SNP (r ²)	Gene	Allele	Allele	Frequency	(published)	Reference	Pleiotropy*
rs515135		APOB	С	Т	0.83	1.08	CARDIoGRAMplusC4D ²	Lipids
rs2252641		ZEB2-AC074093.1	С	Т	0.44	1.04	CARDIoGRAMplusC4D ²	
rs1878406		EDNRA	Т	С	0.13	1.06	CARDIoGRAMplusC4D ²	
rs7692387		GUCY1A3	G	А	0.8	1.06	CARDIoGRAMplusC4D ²	Blood Pressure
rs273909		SLC22A4/SLC22A5	G	А	0.13	1.09	CARDIoGRAMplusC4D ²	Lipids
rs10947789		KCNK5	Т	С	0.75	1.06	CARDIoGRAMplusC4D ²	
rs2048327		SLC22A3/LPAL2/LPA	С	Т	0.41	1.06	CARDIoGRAMplusC4D ²	Lipids
rs4252120		PLG	Т	С	0.71	1.06	CARDIoGRAMplusC4D ²	
rs2023938	rs11984041 (0.86)	HDAC9	Т	С	0.09	1.07	CARDIoGRAMplusC4D ²	
rs10953541		BCAP29	С	Т	0.75	1.08	CAD C4D ⁵	Lipids
rs2954029		TRIB1	А	Т	0.52	1.04	CARDIoGRAMplusC4D ²	Lipids, Blood Pressure
rs3217992		CDKN2BAS	Т	С	0.34	1.16	CARDIoGRAMplusC4D ²	Type 2 Diabetes
rs2505083	rs2487928 (0.88)	KIAA1462	А	G	0.44	1.06	CARDIoGRAMplusC4D ²	
rs2047009		CXCL12	G	Т	0.51	1.05	CARDIoGRAMplusC4D ²	
rs2246833	rs1412444 (0.98)	LIPA	Т	С	0.35	1.06	CARDIoGRAMplusC4D ²	
rs974819	rs11226029(1)	PDGFD	G	А	0.26	1.07	CARDIoGRAMplusC4D ²	
rs9319428		FLT1	А	G	0.32	1.05	CARDIoGRAMplusC4D ²	
rs9515203		COL4A1/COL4A2	Т	С	0.71	1.08	CARDIoGRAMplusC4D ²	
rs7173743		ADAMTS7	Т	С	0.58	1.07	CARDIoGRAMplusC4D ²	
rs17514846		FURIN/FES	А	С	0.46	1.05	CARDIoGRAMplusC4D ²	Blood Pressure

*Obtained from phenoscanner (<u>http://www.phenoscanner.medschl.cam.ac.uk/</u> accessed September 1, 2017) using p < 0.001 as cutoff.

References:

1: Schunkert H, König IR, Kathiresan S, Reilly MP, Assimes TL, Holm H, et al. Large-scale association analysis identifies 13 new susceptibility loci for coronary artery disease. *Nat Genet*. 2011; 43:333-338

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3: The IBC 50K CAD Consortium. Large-scale gene-centric analysis identifies novel variants for coronary artery disease. *PLOS Genet*. 2011;7(9): e1002260 4: Erdmann J, Grosshennig A, Braund PS, König IR, Hengstenberg C, Hall AS, et al. New susceptibility locus for coronary artery disease on chromosome 3q22.3. *Nat Genet*. 2009; 41:280-2

5: Coronary Artery Disease (C4D) Genetics Consortium. A genome-wide association study in Europeans and South Asians identifies five new loci for coronary artery disease. *Nat Genet*. 2011; 43:339-344

	PRS-T1	PRS-T2	PRS-T3	Total
n	3110	3111	3110	9331
Age, y (mean ± SD)	59.5 ± 7.2	59.1 ± 7.0	58.8 ± 7.0	59.1 ± 7.1
BMI, kg/m^2 (mean ± SD)	26.2 ± 3.5	26.3 ± 3.5	26.2 ± 3.5	26.2 ± 3.5
SBP, mmHg (mean ± SD)	144 ± 20	144 ± 19	144 ± 19	144 ± 20
DBP, mmHg (mean ± SD)	88 ± 10	88 ± 10	88 ± 10	88 ± 10
ApoA-I, μ mol/L (mean ± SD)	51.8 ± 8.6	51.8 ± 8.9	52.1 ± 9.3	51.8 ± 8.9
ApoB, μ mol/L (mean ± SD)	2.12 ± 0.49	2.14 ± 0.49	2.18 ± 0.49	2.16 ± 0.49
Triglycerides, mmol/L (mean ± SD)	1.5 ± 0.8	1.6 ± 0.9	1.6 ± 1.0	1.53 ± 0.93
AHT, n (%)	552 (17.8)	565 (18.2)	567 (18.2)	1684 (18.1)
Lipid lowering medication, n (%)	76 (2.4)	113 (3.6)	93 (3.0)	282 (3.0)
Prevalent diabetes, n (%)	170 (5.5)	185 (6.0)	161 (5.2)	516 (5.5)
Incident CHD, n (%)	523 (16.8)	647 (20.8)	795 (25.6)	1965 (21.1)
Smoking				
Never, n (%)	924 (29.7)	865 (27.8)	906 (29.1)	2695 (28.9)
Former, n (%)	1303 (41.9)	1307 (42.0)	1340 (43.1)	3950 (42.3)
Current, n (%)	883 (28.4)	939 (30.2)	864 (27.8)	2686 (28.8)

Supplemental Table 2. Baseline Characteristics of the Malmö Diet and Cancer Study Male Participants According to Tertiles of the Polygenic Risk Score for Coronary Heart Disease

PRS, polygenic risk score; T, tertile; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; ApoA-I, apolipoprotein A-I; ApoB, apolipoprotein B; AHT, antihypertensive medication; CHD, coronary heart disease

	PRS-T1	PRS-T2	PRS-T3	Total
n	5037	5038	5037	15112
Age, y (mean ± SD)	57.4 ± 8.0	57.3 ± 8.0	57.2 ± 8.0	57.3 ± 8.0
BMI, kg/m ² (mean \pm SD)	25.4 ± 4.3	25.4 ± 4.3	25.5 ± 4.3	25.5 ± 4.3
SBP, mmHg (mean ± SD)	139 ± 20	139 ± 21	139 ± 20	139 ± 20
DBP, mmHg (mean ± SD)	84 ± 10	84 ± 10	84 ± 10	84 ± 10
ApoA-I, μ mol/L (mean \pm SD)	58.9 ± 10	58.9 ± 9.6	58.6 ± 9.6	58.7 ± 10
ApoB, μ mol/L (mean \pm SD)	2.01 ± 0.51	2.05 ± 0.51	2.07 ± 0.51	2.05 ± 0.51
Triglycerides, mmol/L (mean \pm SD)	1.25 ± 0.64	1.23 ± 0.74	1.29 ± 0.72	1.26 ± 0.70
AHT, n (%)	825 (16.4)	771 (15.3)	801 (15.9)	2397 (15.9)
Lipid lowering medication, n (%)	72 (1.4)	80 (1.6)	107 (2.1)	259 (1.7)
Prevalent diabetes, n (%)	167 (3.3)	159 (3.2)	168 (3.3)	494 (3.3)
Incident CHD, n (%)	346 (6.9)	392 (7.8)	514 (10.2)	1252 (8.3)
Smoking				
Never, n (%)	2215 (44.0)	2265 (45.0)	2252 (44.7)	6732 (44.6)
Former, n (%)	1375 (27.3)	1386 (27.5)	1428 (28.4)	4189 (27.7)
Current, n (%)	1447 (28.7)	1387 (27.5)	1357 (26.9)	4191 (27.7)

Supplemental Table 3. Baseline Characteristics of the Malmö Diet and Cancer Study Female Participants According to Tertiles of the Polygenic Risk Score for Coronary Heart Disease

PRS, polygenic risk score; T, tertile; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; ApoA-I, apolipoprotein A-I; ApoB, apolipoprotein B; AHT, antihypertensive medication; CHD, coronary heart disease

	Never	Former	Current	Total
n	2695	3950	2686	9331
Age, y (mean ± SD)	59.2 ± 7.0	59.9 ± 7.3	58.0 ± 6.7	59.1 ± 7.1
BMI, kg/m ² (mean \pm SD)	26.1 ± 3.4	26.8 ± 3.4	25.5 ± 3.5	26.2 ± 3.5
SBP, mmHg (mean ± SD)	143 ± 19	146 ± 20	142 ± 20	144 ± 20
DBP, mmHg (mean ± SD)	88 ± 10	88 ± 10	87 ± 10	88 ± 10
ApoA-I, μ mol/L (mean \pm SD)	51.8 ± 8.6	52.5 ± 8.6	51.1 ± 9.3	51.8 ± 8.9
ApoB, μ mol/L (mean \pm SD)	2.09 ± 0.47	2.16 ± 0.51	2.20 ± 0.51	2.16 ± 0.49
Triglycerides, mmol/L (mean \pm SD)	1.41 ± 0.71	1.56 ± 0.90	1.61 ± 1.14	1.53 ± 0.93
AHT, n (%)	491 (18.2)	794 (20.1)	399 (14.9)	1684 (18.1)
Lipid lowering medication, n (%)	67 (2.5)	132 (3.3)	83 (3.1)	282 (3.0)
Prevalent diabetes, n (%)	135 (5.0)	254 (6.4)	127 (4.7)	516 (5.5)
Incident CHD, n (%)	475 (17.6)	821 (20.8)	669 (24.9)	1965 (21.1)
Tertile of PRS				
T1, n (%)	924 (34.3)	1303 (33.0)	883 (32.9)	3110 (33.3)
T2, n (%)	865 (32.1)	1307 (33.1)	939 (35.0)	3111 (33.3)
T3, n (%)	906 (33.6)	1340 (33.9)	864 (32.1)	3110 (33.3)

Supplemental Table 4. Baseline Characteristics of the Malmö Diet and Cancer Study Male Participants According to Smoking Status

BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; ApoA-I, apolipoprotein A-I; ApoB, apolipoprotein B; AHT, antihypertensive medication; CHD, coronary heart disease; PRS, polygenic risk score; T, tertile

	Never	Former	Current	Total
n	6732	4189	4191	15112
Age, y (mean ± SD)	58.9 ± 8.1	56.7 ± 8.0	55.4 ± 7.4	57.3 ± 8.0
BMI, kg/m ² (mean \pm SD)	25.8 ± 4.3	25.7 ± 4.2	24.7 ± 4.2	25.5 ± 4.3
SBP, mmHg (mean ± SD)	142 ± 20	138 ± 20	136 ± 20	139 ± 20
DBP, mmHg (mean ± SD)	85 ± 10	84 ± 10	83 ± 10	84 ± 10
ApoA-I, μ mol/L (mean \pm SD)	58.9 ± 9.6	59.6 ± 10	57.1 ± 10	58.7 ± 10
ApoB, μ mol/L (mean ± SD)	2.05 ± 0.51	1.97 ± 0.51	2.09 ± 0.51	2.05 ± 0.51
Triglycerides, mmol/L (mean \pm SD)	1.25 ± 0.70	1.22 ± 0.65	1.31 ± 0.75	1.26 ± 0.70
AHT, n (%)	1209 (18.0)	673 (16.1)	515 (12.3)	2397 (15.9)
Lipid lowering medication, n (%)	107 (1.6)	89 (2.1)	63 (1.5)	259 (1.7)
Prevalent diabetes, n (%)	233 (3.5)	144 (3.4)	117 (2.8)	494 (3.3)
Incident CHD, n (%)	506 (7.5)	327 (7.8)	419 (10.0)	1252 (8.3)
Tertile of PRS				
T1, n (%)	2215 (32.9)	1375 (32.8)	1447 (34.5)	5037 (33.3)
T2, n (%)	2265 (33.7)	1386 (33.1)	1387 (33.1)	5038 (33.3)
T3, n (%)	2252 (33.5)	1428 (34.1)	1357 (32.4)	5037 (33.3)

Supplemental Table 5. Baseline Characteristics of the Malmö Diet and Cancer Study Female Participants According to Smoking Status

BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; ApoA-I, apolipoprotein A-I; ApoB, apolipoprotein B; AHT, antihypertensive medication; CHD, coronary heart disease; PRS, polygenic risk score; T, tertile

PRS	Smoking	OR (95% CI) †	<i>P</i> Value
T1 *	· · · · ·		
	Never	1.00 (ref)	
	Former	1.59 (1.23–2.04)	3×10^{-4}
	Current	2.17 (1.66–2,84)	1.2×10^{-8}
	Per category	1.46 (1.28–1.67)	1.1×10^{-8}
T2			
	Never	1.00 (ref)	
	Former	1.11 (0.89–1.40)	0.35
	Current	1.70 (1.34–2.16)	1×10^{-5}
	Per category	1.32 (1.17–1.49)	$7.0 imes 10^{-6}$
Т3			
	Never	1.00 (ref)	
	Former	1.03 (0.84–1.25)	0.80
	Current	1.31 (1.05–1.62)	0.017
	Per category	1.14 (1.02–1.28)	0.017

Supplemental Table 6. Association between Smoking Status and Coronary Heart Disease in Tertiles of Polygenic Risk Score among Men

* T1, T2, T3 designate the first, second and third tertiles of the polygenic risk score

[†] Odds ratio and 95% confidence interval for coronary heart disease among former or current smokers compared to never smokers

PRS	Smoking	OR (95% CI) †	<i>P</i> Value
T1 *			
	Never	1.00 (ref)	
	Former	1.27 (0.95–1.69)	0.11
	Current	1.95 (1.49–2.55)	9.7 × 10 ⁻⁷
	Per category	1.39 (1.22–1.60)	1.0×10^{-6}
T2			
	Never	1.00 (ref)	
	Former	1.02 (0.77–1.35)	0.90
	Current	2.06 (1.60-2.64)	1.8×10^{-8}
	Per category	1.42 (1.25–1.62)	9.3 × 10 ⁻⁸
Т3			
	Never	1.00 (ref)	
	Former	1.45 (1.15–1.83)	0.001
	Current	1.63 (1.29–2.06)	4×10^{-5}
	Per category	1.29 (1.15–1.44)	2×10^{-5}

Supplemental Table 7. Association between Smoking Status and Coronary Heart Disease in Tertiles of Polygenic Risk Score among Women

* T1, T2, T3 designate the first, second and third tertiles of the polygenic risk score

[†] Odds ratio and 95% confidence interval for coronary heart disease among former or current smokers compared to never smokers

Supplemental Table 8. Association between Smoking Status and Coronary Heart Disease in Tertiles of Polygenic Risk Score among Individuals with no Family History for Myocardial Infarction

PRS	Smoking	OR (95% CI) †	<i>P</i> Value
T1 *		·	
	Never	1.00 (ref)	
	Former	1.51 (1.17–1.95)	0.001
	Current	2.17 (1.68–2.79)	2.4×10^{-9}
	Per category	1.47 (1.30–1.68)	2.1 × 10 ⁻⁹
T2			
	Never	1.00 (ref)	
	Former	1.05 (0.84–1.33)	0.62
	Current	1.71 (1.36–2.15)	3.6×10^{-6}
	Per category	1.32 (1.17–1.48)	3.3×10^{-6}
T3			
	Never	1.00 (ref)	
	Former	1.11 (0.90–1.35)	0.33
	Current	1.46 (1.18–1.80)	4×10^{-4}
	Per category	1.21 (1.09–1.34)	5×10^{-4}

* T1, T2, T3 designate the first, second and third tertiles of the polygenic risk score

[†] Odds ratio and 95% confidence interval for coronary heart disease among former or current smokers compared to never smokers

Supplemental Table 9. Association between Smoking Status and Coronary Heart Disease in Tertiles of Polygenic Risk Score among Individuals with Family History for Myocardial Infarction

PRS	Smoking	OR (95% CI) †	P Value	
T1 *				
	Never	1.00 (ref)		
	Former	1.20 (0.91–1.58)	0.20	
	Current	1.99 (1.51–2.63)	1.4×10^{-6}	
	Per category	1.41 (1.23–1.63)	1.8×10^{-6}	
T2				
	Never	1.00 (ref)		
	Former	1.19 (0.91–1.54)	0.20	
	Current	1.82 (1.40–2.38)	9.2×10^{-6}	
	Per category	1.35 (1.18–1.4)	1.2×10^{-5}	
T3				
	Never	1.00 (ref)		
	Former	1.14 (0.91–1.43)	0.26	
	Current	1.41 (1.11–1.81)	0.006	
	Per category	1.19 (1.05–1.34)	0.006	

* T1, T2, T3 designate the first, second and third tertiles of the polygenic risk score

[†] Odds ratio and 95% confidence interval for coronary heart disease among former or current smokers compared to never smokers

Supplemental Table 10. C-statistics and Discrimination by Polygenic Risk Score for Incident Coronary Heart Disease by Smoking Status among Men

	AUG	C (95%CI)	IDI (SE)	DValua
	Traditional Model *	Traditional Model + PRS	IDI (SE)	<i>I</i> value
Never Smokers	0.675 (0.649-0.700)	0.702 (0.676-0.727)	0.023 (0.004)	3×10^{-11}
Former Smokers	0.664 (0.644-0.685)	0.673 (0.652-0.693)	0.007 (0.001)	4×10^{-06}
Current Smokers	0.661 (0.637-0.685)	0.664 (0.640-0.688)	0.004 (0.001)	0.003

* Traditional model includes: age, sex, family history of myocardial infarction, systolic blood pressure, antihypertensive medication, ApoB as a proxy for LDL cholesterol, ApoA-I as a proxy for HDL cholesterol and diabetes at baseline

AUC, area under receiver operating curve; CI, confidence interval; IDI: integrated discrimination improvement; PRS, polygenic risk score

Supplemental Table 11. C-statistics and Discrimination by Polygenic Risk Score for Incident Coronary Heart Disease by Smoking Status among Women

	AUG	C (95%CI)	IDI (SE)	DValua
	Traditional Model *	Traditional Model + PRS	IDI (SE)	<i>r</i> value
Never Smokers	0.745 (0.725-0.765)	0.753 (0.732-0.773)	0.005 (0.001)	0.0001
Former Smokers	0.755 (0.727-0.782)	0.764 (0.737-0.790)	0.006 (0.002)	0.004
Current Smokers	0.729 (0.704-0.754)	0.734 (0.710-0.759)	0.004 (0.001)	0.003

* Traditional model includes: age, sex, family history of myocardial infarction, systolic blood pressure, antihypertensive medication, ApoB as a proxy for LDL cholesterol, ApoA-I as a proxy for HDL cholesterol and diabetes at baseline

AUC, area under receiver operating curve; CI, confidence interval; IDI: integrated discrimination improvement; PRS, polygenic risk score

Supplemental Figure 1. Odds Ratio for Coronary Heart Disease According to Tertiles of Polygenic Risk Score and Smoking Status among Men



Individuals who are in the lowest tertile of polygenic risk score (PRS) and are never smokers were considered as a reference group. Smoking was associated with higher risk for coronary heart disease among individuals within each tertile of PRS. The magnitude of risk relative risk increase by smoking was higher among men with low PRS (OR: 1.46; 95% CI: 1.28–1.67) compared to men with high PRS (OR: 1.14; 1.02–1.28).

Supplemental Figure 2. Odds Ratio for Coronary Heart Disease According to Tertiles of Polygenic Risk Score and Smoking Status among Women



Individuals who are in the lowest tertile of polygenic risk score (PRS) and are never smokers were considered as a reference group. Smoking was associated with higher risk for coronary heart disease among individuals within each tertile of PRS. The magnitude of risk relative risk increase by smoking was higher among women with low PRS (OR: 1.39; 95% CI: 1.22–1.60) compared to women with low PRS (OR: 1.29; 1.15–1.44).

Supplemental Figure 3. Interaction Estimates between each Single Nucleotide Polymorphism and Smoking Status on the Risk of Coronary Heart Disease

SNP	Locus			OR	[95% CI]	p-value
		_				
rs17114036	PPAP2B	← <mark>+</mark>		0.82	[0.72; 0.93]	0.003
rs6725887	WDR12	<mark></mark>		0.88	[0.80; 0.98]	0.018
rs17609940	ANKS1A	— <mark>—</mark> —		0.92	[0.84; 1.00]	0.039
rs9818870	MRAS	<mark>+</mark>	-	0.92	[0.84; 1.00]	0.061
rs4977574	CDKN2A			0.92	[0.86; 0.99]	0.018
rs17465637	MIA3			0.92	[0.85; 1.00]	0.044
rs273909	SLC22A4/SLC22A5	<mark></mark>		0.94	[0.85; 1.04]	0.2
rs964184	APOA5		—	0.94	[0.85; 1.04]	0.251
rs11206510	PCSK9		_	0.95	[0.87; 1.03]	0.201
rs17514846	FURIN/FES		-	0.95	[0.89; 1.01]	0.126
rs7692387	GUCY1A3			0.95	[0.87; 1.04]	0.239
rs3825807	ADAMTS7		-	0.95	[0.89; 1.02]	0.158
rs2252641	ZEB2-AC074093.1		_	0.96	[0.89; 1.02]	0.199
rs2487928	KIAA1462		_	0.96	[0.89; 1.02]	0.206
rs11556924	ZC3HC1		_	0.96	[0.89; 1.03]	0.231
rs4773144	COL4A1		_	0.96	[0.90; 1.03]	0.313
rs10953541	BCAP29		<u> </u>	0.97	[0.89; 1.04]	0.373
rs3217992	CDKN2BAS		_	0.97	[0.90; 1.04]	0.335
rs515135	APOB			0.97	[0.88; 1.06]	0.456
rs4845625	IL6R		<u> </u>	0.97	[0.90; 1.04]	0.349
rs2895811	HHIPL1		-	0.97	[0.90; 1.04]	0.343
rs12413409	CYP17A1			0.98	[0.88; 1.09]	0.691
rs646776	SORT1			0.98	[0.90; 1.06]	0.622
rs7173743	ADAMTS7	<mark>-</mark> +		0.98	[0.92; 1.05]	0.605
rs9982601	KCNE2		—	0.98	[0.89; 1.08]	0.754
rs4252120	PLG		—	0.99	[0.91; 1.06]	0.716
rs2047009	CXCL12		-	1.00	[0.93; 1.06]	0.89
rs1746048	CXCL12			1.00	[0.90; 1.10]	0.944
rs1122608	LDLR			1.00	[0.92; 1.08]	0.962
rs12526453	PHACTR1	-		1.00	[0.93; 1.08]	0.991
rs11226029	PDGFD	-		1.00	[0.93; 1.08]	0.975
rs9515203	COL4A1/COL4A2	-		1.00	[0.93; 1.08]	0.975
rs579459	ABO			1.00	[0.93; 1.09]	0.932
rs318090	UBE2Z		+	1.01	[0.94; 1.08]	0.877
rs10455872	LPA		<mark>+</mark>	1.01	[0.89; 1.14]	0.925
rs3184504	SH2B3			1.01	[0.94; 1.08]	0.78
rs1878406	EDNRA			1.01	[0.92; 1.12]	0.828
rs4299376	ABCG8	-		1.01	[0.94; 1.09]	0.72
rs1412444	LIPA	_		1.02	[0.95; 1.09]	0.66
rs2028900	GGCX/VAMP8	-		1.02	[0.95; 1.09]	0.616
rs12936587	RASD1			1.02	[0.95; 1.09]	0.536
rs216172	SMG6			1.02	[0.95; 1.10]	0.518
rs2048327	SLC22A3/LPAL2/LPA			1.03	[0.96; 1.10]	0.465
rs2259816	HNF1A	—		1.03	[0.96; 1.11]	0.362
rs12190287	TCF21			1.04	[0.97; 1.11]	0.307
rs2954029	TRIB1	_		1.04	[0.97; 1.11]	0.241
rs9319428	FLT1	—		1.04	[0.97; 1.12]	0.258
rs10947789	KCNK5	-	—	1.06	[0.98; 1.15]	0.121
rs3798220	LPA			1.14	[0.86; 1.51]	0.358
rs11984041	HDAC9	[1.17	[1.04; 1.32]	0.009
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SNP	Locus		OR	[95% CI]	p–value
rs17114036	PPAP2B	< <mark>-+</mark>	0.79	[0.66; 0.95]	0.014
rs9818870	MRAS	< <mark></mark>	0.80	[0.70; 0.91]	0.001
rs4977574	CDKN2A		0.89	[0.81; 0.98]	0.017
rs273909	SLC22A4/SLC22A5		0.90	[0.78; 1.03]	0.112
rs17609940	ANKS1A		0.90	[0.80; 1.01]	0.082
rs3825807	ADAMTS7		0.90	[0.82; 0.99]	0.037
rs6725887	WDR12		0.91	[0.79; 1.04]	0.163
rs964184	APOA5		0.92	[0.80; 1.05]	0.22
rs11206510	PCSK9		0.92	[0.81; 1.04]	0.182
rs515135	APOB		0.92	[0.81; 1.05]	0.211
rs17514846	FURIN/FES		0.92	[0.84; 1.01]	0.098
rs10953541	BCAP29		0.93	[0.83; 1.03]	0.16
rs579459	ABO		0.93	[0.83; 1.04]	0.191
rs17465637	MIA3	_	0.94	[0.84; 1.05]	0.268
rs3798220	LPA	<	- 0.94	[0.62; 1.42]	0.774
rs2028900	GGCX/VAMP8		0.94	[0.86; 1.04]	0.23
rs2895811	HHIPL1		0.94	[0.86; 1.04]	0.225
rs3217992	CDKN2BAS		0.95	[0.86; 1.05]	0.31
rs9982601	KCNE2		0.95	[0.83; 1.09]	0.484
rs4845625	IL6R		0.96	[0.88; 1.06]	0.452
rs4252120	PLG	_	0.97	[0.87; 1.07]	0.514
rs11556924	ZC3HC1		0.97	[0.88; 1.07]	0.501
rs216172	SMG6		0.97	[0.88; 1.07]	0.501
rs1122608	LDLR	_	0.97	[0.86; 1.09]	0.597
rs2252641	ZEB2-AC074093.1		0.97	[0.88; 1.07]	0.522
rs318090	UBE2Z		0.97	[0.88; 1.07]	0.534
rs12936587	RASD1		0.97	[0.89; 1.07]	0.584
rs4773144	COL4A1		0.98	[0.89; 1.08]	0.705
rs7692387	GUCY1A3	_	0.98	[0.87; 1.11]	0.785
rs2047009	CXCL12		0.99	[0.90; 1.09]	0.87
rs2487928	KIAA1462		1.00	[0.90; 1.09]	0.923
rs11226029	PDGFD		1.00	[0.90; 1.11]	0.945
rs1412444			1.00	[0.90; 1.10]	0.97
rs646776	SORI1		1.00	[0.89; 1.12]	0.974
rs/1/3/43	ADAMIS/		1.00		0.996
rs10455872			1.01	[0.85; 1.20]	0.916
rs9515203			1.01	[0.91; 1.13]	0.795
182259816			1.02	[0.93, 1.13]	0.038
154299376			1.02	[0.92, 1.14]	0.001
152954029			1.02	[0.93; 1.13]	0.62
IS12020400			1.03	[0.93; 1.14]	0.007
IS12190287			1.04	[0.94; 1.14]	0.492
1510/0400			1.04	[0.91, 1.20]	0.070
ro1746049			1.04	[0.95, 1.15]	0.001
151/40040			1.00	[0.91, 1.21]	0.000
1510341109 re0210100			1.00	[0.95, 1.18]	0.017
133313420 re3181501			1.00	[0.30, 1.17]	0.20
re12/12/00	CVP17A1		1.00	[0.07, 1.17]	0.197
rs1198/0/1			1.07	[0.02, 1.24]	0.092
1311304041				[0.00, 1.07]	0.002
	C	.75 1	1.5		

Supplemental Figure 4. Interaction Estimates between each Single Nucleotide Polymorphism and Smoking Status on the Risk of Coronary Heart Disease among Men

Supplemental Figur	e 5. Interaction Est	timates between each	n Single Nucleotide	
Polymorphism and S	moking Status on t	he Risk of Coronary	Heart Disease among	g Women

SNP	Locus			OR	[95% CI]	p–value
rs17114036	PPAP2B	<	_	0.84	[0 69.1 02]	0 074
rs6725887	WDB12	<	-	0.87	[0.05, 1.02]	0.061
rs12413409	CYP17A1			0.89	[0.76; 1.01]	0.145
rs17465637	MIA3		_	0.00	[0.70, 1.01]	0.082
rs7692387	GUCY1A3			0.92	$[0.81 \cdot 1.04]$	0 181
rs2487928	KIAA1462		_	0.93	[0.84: 1.02]	0.128
rs17609940	ANKS1A			0.93	[0.83: 1.05]	0.27
rs2252641	ZEB2_AC074093.1	<mark></mark>	_	0.94	[0.85: 1.03]	0.202
rs11556924	ZC3HC1		_	0.94	[0.85: 1.04]	0.247
rs1746048	CXCL12	_ _		0.95	[0.82: 1.10]	0.466
rs273909	SLC22A4/SLC22A5	<mark>+</mark>		0.95	[0.82; 1.11]	0.521
rs4773144	COL4A1			0.95	[0.86; 1.05]	0.341
rs4977574	CDKN2A			0.96	[0.87; 1.05]	0.367
rs11206510	PCSK9	<mark>+</mark>		0.96	[0.85; 1.08]	0.493
rs4845625	IL6R			0.96	[0.87; 1.07]	0.48
rs646776	SORT1			0.97	[0.86; 1.08]	0.556
rs964184	APOA5			0.97	[0.84; 1.12]	0.641
rs7173743	ADAMTS7	<mark></mark>		0.97	[0.88; 1.07]	0.549
rs3184504	SH2B3			0.97	[0.88; 1.07]	0.582
rs12526453	PHACTR1			0.97	[0.88; 1.08]	0.639
rs3217992	CDKN2BAS			0.98	[0.89; 1.08]	0.691
rs9515203	COL4A1/COL4A2		<u> </u>	0.98	[0.88; 1.09]	0.726
rs1878406	EDNRA		<u> </u>	0.99	[0.86; 1.14]	0.854
rs11226029	PDGFD	<mark>-</mark>		0.99	[0.89; 1.11]	0.878
rs17514846	FURIN/FES	<mark>-</mark> -	 	0.99	[0.90; 1.09]	0.873
rs4299376	ABCG8	<mark>-</mark>		0.99	[0.89; 1.11]	0.891
rs2895811	HHIPL1	<mark></mark>	—	0.99	[0.90; 1.09]	0.886
rs2048327	SLC22A3/LPAL2/LPA			1.00	[0.90; 1.10]	0.973
rs4252120	PLG			1.00	[0.90; 1.12]	0.969
rs515135	APOB			1.01	[0.88; 1.14]	0.937
rs10455872	LPA			1.01	[0.85; 1.20]	0.945
rs3825807	ADAMTS7			1.01	[0.91; 1.11]	0.872
rs1122608	LDLR			1.01	[0.90; 1.13]	0.884
rs2047009	CXCL12			1.01	[0.92; 1.11]	0.845
rs9982601	KCNE2			1.01	[0.88; 1.16]	0.863
rs10953541	BCAP29		+	1.02	[0.91; 1.14]	0.752
rs1412444	LIPA			1.03	[0.93; 1.14]	0.536
rs9319428	FLT1			1.03	[0.93; 1.15]	0.53
rs2259816	HNF1A			1.03	[0.93; 1.15]	0.514
rs318090	UBE2Z			1.04	[0.94; 1.15]	0.442
rs2954029	I RIB1			1.04	[0.94; 1.15]	0.41
rs9818870	MRAS			1.06	[0.93; 1.21]	0.404
rs10947789	KCNK5			1.06	[0.95; 1.18]	0.325
rs12190287	TCF21			1.06	[0.96; 1.17]	0.277
rs216172	SMG6	_		1.08	[0.98; 1.20]	0.14
rs12936587	RASDI	_		1.08	[0.98; 1.19]	0.110
18579459	ABO	_		1.09	[0.97; 1.23]	0.133
152020900				1.10	[1.00, 1.22]	0.04/
1511904041		=		1.17		0.074
153/90220	LFA			- 1.39]	[0.95, 2.02]	0.080
	Λ	75	1	5		