

**Supplementary Table 1.** Frequency of asthma genes under CNVs in males and females of study population

Gene	YRI		CEU		AJI		AJ II		CHB		China		Tibet		India		JPT		Australia		New world	Taiwan		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
ACAA1																							1.0	
ACE							0.4																	
ADAM8	1.8				3.8	5.3	8.5	7.4					18.2	15					5.2				6.5	8.6
AICDA					0.4		0.4																	
ALOX5						0.4																		
BDNF													9.0											
C14orf180																			3					
C5orf56																							2.4	
CCL11						0.4		0.4																
CCL2						0.4		0.4																
CCR1																							4.8	
CCL3L1	23	30	5	2	3	2	5	5	14	5	11	7	55	10		5	13	23	6			2	4	50
CD69																							2.4	
CDK2								0.4																
CHRM3									4.5										6					
CSF2								0.4																
CTNNA3					0.8	0.4						1.3												
CXCL12						0.8													3	5.2				
CYSLTR1						0.4																		
DIAPH3					0.4																			
DPP10									4.5															
EGFR								0.4																
GPX3								0.8																
GSTCD					0.4																			
GSTT1	3.7	2.7			0.8	0.4	1.2	1.2	4.5	7.5	1.3		5	5.5		8.6			5.2			2.4		
HAVCR1					0.4																			
HAVCR2					0.4																			
HLA-DQA1						0.4																		
HLA-DRA																							5.2	
HLA-DRB1					0.4		0.4						9.0	5									5.2	
HLA-DRB5					0.8		0.4						9.0	5									15.7	
ICAM1												1.3												
IL13RA2					2.5	2.2	1.7	1.2																
IL17RB						0.4		0.4																
IL1A																							12.1	
IL1B																							12.1	
IL3								0.4																
IL33								0.4																
IL4R																							2.4	
IL8																							7.3	
IL9																			3					
IRF1																							2.4	
KCNIP4					0.8	0.4		0.4																
LTA																							4.8	
MBL2					0.4																			

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