

Supplementary Table 5 Meta analysis of lung adenocarcinoma cases versus controls for 13 SNPs

SNP	CHR	LOC	GROUP	EA*	EAF**	OR	CI	P	Phet
rs7741164	6	41493412	NCI	A	0.308	1.15	(1.05-1.25)	1.62E-03	
rs7741164	6	41493412	Nanjing_Scan	A	0.373	1.16	(0.91-1.49)	2.28E-01	
rs7741164	6	41493412	Japan610	A	0.312	1.09	(0.70-1.70)	7.12E-01	
rs7741164	6	41493412	JapanOmniEx	A	0.272	1.43	(1.20-1.70)	5.18E-05	
rs7741164	6	41493412	Jinan	T	0.318	1.30	(1.13-1.49)	1.57E-04	
rs7741164	6	41493412	Taiwan	T	0.350	1.17	(0.92-1.49)	1.89E-01	
rs7741164	6	41493412	Beijing	T	0.318	1.29	(1.04-1.59)	1.89E-02	
rs7741164	6	41493412	Nanjing_TaqMan	T	0.337	1.20	(0.99-1.44)	5.97E-02	
rs7741164	6	41493412	Tianjin	T	0.337	1.28	(1.01-1.62)	3.97E-02	
rs7741164	6	41493412	Shenyang	T	0.333	1.13	(0.94-1.36)	2.02E-01	
rs7741164	6	41493412	Shanghai	T	0.341	1.14	(0.92-1.41)	2.37E-01	
rs7741164	6	41493412	CGR	T	0.311	1.02	(0.65-1.59)	9.29E-01	
rs7741164	6	41493412	Wuhan	T	0.346	1.13	(0.87-1.46)	3.67E-01	
rs7741164	6	41493412	Japan_NCCI	T	0.300	1.42	(1.00-2.01)	5.29E-02	
rs7741164	6	41493412	Japan_NCCH	T	0.326	0.94	(0.73-1.20)	6.00E-01	
rs7741164	6	41493412	Japan_BBJ_NCCH	T	0.287	1.07	(0.92-1.24)	3.70E-01	
rs7741164	6	41493412	Combined			1.18	(1.13-1.24)	1.22E-12	4.40E-01
rs72658409	9	22160087	NCI	T	0.073	0.78	(0.68-0.89)	2.12E-04	
rs72658409	9	22160087	Nanjing_Scan	T	0.094	0.55	(0.35-0.86)	8.83E-03	
rs72658409	9	22160087	Japan610	T	0.061	0.55	(0.33-0.92)	2.18E-02	
rs72658409	9	22160087	JapanOmniEx	T	0.051	0.68	(0.48-0.96)	3.01E-02	
rs72658409	9	22160087	Jinan	T	0.073	0.78	(0.59-1.03)	7.59E-02	
rs72658409	9	22160087	Taiwan	T	0.063	0.68	(0.40-1.15)	1.48E-01	
rs72658409	9	22160087	Beijing	T	0.079	0.94	(0.63-1.39)	7.50E-01	
rs72658409	9	22160087	Nanjing_TaqMan	T	0.084	0.62	(0.42-0.90)	1.10E-02	
rs72658409	9	22160087	Shenyang	T	0.085	0.66	(0.47-0.94)	1.93E-02	

rs72658409	9	22160087	Shanghai	T	0.058	1.34	(0.88-2.03)	1.75E-01	
rs72658409	9	22160087	CGR	T	0.047	1.12	(0.47-2.65)	8.01E-01	
rs72658409	9	22160087	Wuhan	T	0.094	0.62	(0.38-1.02)	5.73E-02	
rs72658409	9	22160087	Japan_NCCI	T	0.047	1.30	(0.68-2.49)	4.26E-01	
rs72658409	9	22160087	Japan_NCCH	T	0.053	1.01	(0.57-1.79)	9.70E-01	
rs72658409	9	22160087	Japan_BBJ_NCCH	T	0.049	0.81	(0.58-1.14)	2.20E-01	
rs72658409	9	22160087	Combined			0.77	(0.71-0.84)	1.94E-09	1.59E-01
rs11610143	12	52349071	NCI	G	0.315	0.87	(0.81-0.93)	4.80E-05	
rs11610143	12	52349071	Nanjing_Scan	G	0.302	0.94	(0.74-1.21)	6.43E-01	
rs11610143	12	52349071	Japan610	G	0.317	0.89	(0.69-1.14)	3.42E-01	
rs11610143	12	52349071	JapanOmniEx	G	0.350	0.85	(0.73-0.98)	2.49E-02	
rs11610143	12	52349071	Jinan	G	0.343	0.86	(0.75-0.99)	3.03E-02	
rs11610143	12	52349071	Taiwan	G	0.291	0.66	(0.50-0.87)	2.89E-03	
rs11610143	12	52349071	Beijing	G	0.322	0.95	(0.76-1.19)	6.55E-01	
rs11610143	12	52349071	Nanjing_TaqMan	G	0.303	0.98	(0.80-1.19)	8.07E-01	
rs11610143	12	52349071	Tianjin	G	0.325	0.91	(0.72-1.17)	4.72E-01	
rs11610143	12	52349071	Shenyang	G	0.345	0.93	(0.77-1.12)	4.43E-01	
rs11610143	12	52349071	Shanghai	G	0.301	0.87	(0.66-1.15)	3.28E-01	
rs11610143	12	52349071	CGR	G	0.330	1.24	(0.80-1.92)	3.40E-01	
rs11610143	12	52349071	Japan_NCCI	G	0.387	0.77	(0.56-1.07)	1.17E-01	
rs11610143	12	52349071	Japan_NCCH	G	0.317	0.92	(0.72-1.18)	5.10E-01	
rs11610143	12	52349071	Japan_BBJ_NCCH	G	0.362	0.87	(0.75-1.01)	6.50E-02	
rs11610143	12	52349071	Combined			0.88	(0.84-0.92)	2.25E-09	7.69E-01
rs3794742	17	76165548	NCI	A	0.517	0.87	(0.81-0.93)	1.68E-05	
rs3794742	17	76165548	Nanjing_Scan	A	0.486	0.89	(0.70-1.14)	3.57E-01	
rs3794742	17	76165548	Japan610	A	0.564	0.96	(0.76-1.20)	6.90E-01	
rs3794742	17	76165548	JapanOmniEx	A	0.572	0.85	(0.74-0.98)	2.14E-02	
rs3794742	17	76165548	Jinan	A	0.515	0.99	(0.87-1.13)	8.93E-01	

rs3794742	17	76165548	Taiwan	A	0.493	0.96	(0.77-1.20)	7.10E-01	
rs3794742	17	76165548	Beijing	A	0.527	0.93	(0.76-1.14)	5.07E-01	
rs3794742	17	76165548	Nanjing_TaqMan	A	0.514	0.95	(0.79-1.14)	5.48E-01	
rs3794742	17	76165548	Tianjin	A	0.495	1.08	(0.86-1.36)	4.90E-01	
rs3794742	17	76165548	Shenyang	A	0.560	0.71	(0.60-0.85)	1.78E-04	
rs3794742	17	76165548	Shanghai	A	0.500	1.00	(0.82-1.22)	9.75E-01	
rs3794742	17	76165548	CGR	A	0.564	1.21	(0.80-1.84)	3.74E-01	
rs3794742	17	76165548	Wuhan	A	0.521	1.08	(0.85-1.38)	5.36E-01	
rs3794742	17	76165548	Japan_NCCI	A	0.507	1.13	(0.81-1.57)	4.72E-01	
rs3794742	17	76165548	Japan_NCCH	A	0.568	0.99	(0.78-1.26)	9.30E-01	
rs3794742	17	76165548	Japan_BBJ_NCCH	A	0.582	0.88	(0.76-1.01)	6.60E-02	
rs3794742	17	76165548	Combined			0.91	(0.87-0.94)	1.06E-06	1.22E-01
rs10969557	9	310970	NCI	G	0.227	1.16	(1.07-1.25)	1.66E-04	
rs10969557	9	310970	Nanjing_Scan	G	0.228	0.92	(0.68-1.23)	5.53E-01	
rs10969557	9	310970	Japan610	G	0.251	0.96	(0.72-1.26)	7.47E-01	
rs10969557	9	310970	JapanOmniEx	G	0.227	1.33	(1.13-1.57)	7.00E-04	
rs10969557	9	310970	Jinan	G	0.211	0.94	(0.80-1.10)	4.35E-01	
rs10969557	9	310970	Taiwan	G	0.217	1.11	(0.84-1.46)	4.56E-01	
rs10969557	9	310970	Beijing	G	0.232	1.03	(0.81-1.31)	8.05E-01	
rs10969557	9	310970	Nanjing_TaqMan	G	0.216	1.05	(0.84-1.32)	6.56E-01	
rs10969557	9	310970	Tianjin	G	0.217	0.94	(0.71-1.23)	6.50E-01	
rs10969557	9	310970	Shenyang	G	0.219	1.11	(0.90-1.37)	3.44E-01	
rs10969557	9	310970	Shanghai	G	0.231	0.98	(0.72-1.33)	8.88E-01	
rs10969557	9	310970	CGR	G	0.281	0.78	(0.48-1.26)	3.05E-01	
rs10969557	9	310970	Japan_NCCI	G	0.258	1.00	(0.67-1.50)	1.00E+00	
rs10969557	9	310970	Japan_NCCH	G	0.231	1.06	(0.79-1.41)	7.10E-01	
rs10969557	9	310970	Japan_BBJ_NCCH	G	0.238	1.21	(1.03-1.42)	2.20E-02	
rs10969557	9	310970	Combined			1.10	(1.05-1.16)	5.95E-05	1.69E-01

rs55750811	10	131316206	NCI	C	0.019	1.61	(1.30-2.00)	1.16E-05	
rs55750811	10	131316206	Nanjing_Scan	C	0.022	1.32	(0.60-2.89)	4.89E-01	
rs55750811	10	131316206	Japan610	C	0.078	1.25	(0.82-1.90)	2.93E-01	
rs55750811	10	131316206	JapanOmniEx	C	0.070	1.34	(1.03-1.74)	2.70E-02	
rs55750811	10	131316206	Beijing	C	0.014	0.96	(0.39-2.33)	9.25E-01	
rs55750811	10	131316206	Shenyang	C	0.038	1.03	(0.65-1.62)	9.07E-01	
rs55750811	10	131316206	Shanghai	C	0.010	1.44	(0.45-4.62)	5.40E-01	
rs55750811	10	131316206	CGR	C	0.062	0.71	(0.29-1.75)	4.53E-01	
rs55750811	10	131316206	Japan_NCCI	C	0.085	1.08	(0.63-1.87)	7.77E-01	
rs55750811	10	131316206	Japan_NCCH	C	0.076	1.08	(0.67-1.72)	7.50E-01	
rs55750811	10	131316206	Japan_BBJ_NCCH	C	0.092	0.98	(0.77-1.25)	8.70E-01	
rs55750811	10	131316206	Combined			1.24	(1.11-1.39)	1.88E-04	2.26E-01
rs4921799	8	17507964	NCI	G	0.828	0.90	(0.83-0.98)	1.32E-02	
rs4921799	8	17507964	Nanjing_Scan	G	0.839	1.16	(0.83-1.62)	3.86E-01	
rs4921799	8	17507964	Japan610	G	0.761	0.85	(0.64-1.11)	2.29E-01	
rs4921799	8	17507964	JapanOmniEx	G	0.797	0.78	(0.66-0.91)	2.07E-03	
rs4921799	8	17507964	Jinan	G	0.823	1.04	(0.89-1.20)	6.42E-01	
rs4921799	8	17507964	Taiwan	G	0.845	0.74	(0.54-1.01)	5.92E-02	
rs4921799	8	17507964	Beijing	G	0.842	1.07	(0.80-1.42)	6.56E-01	
rs4921799	8	17507964	Nanjing_TaqMan	G	0.853	0.80	(0.63-1.03)	7.77E-02	
rs4921799	8	17507964	Tianjin	G	0.900	0.67	(0.48-0.95)	2.20E-02	
rs4921799	8	17507964	Shenyang	G	0.860	0.79	(0.62-1.03)	7.63E-02	
rs4921799	8	17507964	Shanghai	G	0.811	1.36	(1.04-1.78)	2.29E-02	
rs4921799	8	17507964	CGR	G	0.805	0.76	(0.46-1.24)	2.64E-01	
rs4921799	8	17507964	Wuhan	G	0.870	0.98	(0.69-1.39)	9.14E-01	
rs4921799	8	17507964	Japan_NCCI	G	0.779	0.74	(0.51-1.08)	1.23E-01	
rs4921799	8	17507964	Japan_NCCH	G	0.785	0.97	(0.73-1.28)	8.10E-01	
rs4921799	8	17507964	Japan_BBJ_NCCH	C	0.771	0.99	(0.84-1.17)	8.90E-01	
rs4921799	8	17507964	Combined			0.91	(0.87-0.96)	2.51E-04	1.80E-02

rs76677882	4	44187929	NCI	T	0.053	1.38	(1.18-1.61)	4.94E-05	
rs76677882	4	44187929	Nanjing_Scan	T	0.068	0.80	(0.48-1.33)	3.84E-01	
rs76677882	4	44187929	Japan610	T	0.039	1.81	(0.81-4.03)	1.47E-01	
rs76677882	4	44187929	JapanOmniEx	T	0.035	1.95	(1.23-3.09)	4.79E-03	
rs76677882	4	44187929	Jinan	A	0.062	0.97	(0.73-1.28)	8.13E-01	
rs76677882	4	44187929	Taiwan	A	0.085	1.06	(0.72-1.58)	7.60E-01	
rs76677882	4	44187929	Beijing	A	0.079	0.86	(0.58-1.29)	4.74E-01	
rs76677882	4	44187929	Nanjing_TaqMan	A	0.082	1.02	(0.72-1.43)	9.13E-01	
rs76677882	4	44187929	Tianjin	A	0.061	1.49	(0.97-2.29)	6.84E-02	
rs76677882	4	44187929	Shenyang	A	0.072	1.23	(0.91-1.67)	1.73E-01	
rs76677882	4	44187929	Shanghai	A	0.066	1.22	(0.75-2.00)	4.27E-01	
rs76677882	4	44187929	CGR	A	0.042	0.48	(0.13-1.75)	2.56E-01	
rs76677882	4	44187929	Japan_NCCI	T	0.031	1.04	(0.41-2.61)	9.37E-01	
rs76677882	4	44187929	Japan_NCCH	T	0.031	1.11	(0.57-2.16)	7.60E-01	
rs76677882	4	44187929	Japan_BBJ_NCCH	T	0.034	0.82	(0.55-1.23)	3.50E-01	
rs76677882	4	44187929	Combined			1.18	(1.08-1.30)	3.59E-04	5.66E-02
rs10854241	20	18175352	NCI	G	0.222	1.14	(1.05-1.23)	1.27E-03	
rs10854241	20	18175352	Nanjing_Scan	G	0.257	0.91	(0.68-1.21)	4.99E-01	
rs10854241	20	18175352	Japan610	G	0.189	1.03	(0.73-1.44)	8.83E-01	
rs10854241	20	18175352	JapanOmniEx	G	0.166	1.21	(0.99-1.47)	6.16E-02	
rs10854241	20	18175352	Jinan	G	0.185	1.05	(0.90-1.23)	5.26E-01	
rs10854241	20	18175352	Taiwan	G	0.375	0.33	(0.13-0.85)	1.63E-02	
rs10854241	20	18175352	Nanjing_TaqMan	G	0.202	0.88	(0.69-1.11)	2.79E-01	
rs10854241	20	18175352	CGR	G	0.145	0.71	(0.38-1.34)	2.92E-01	
rs10854241	20	18175352	Combined			1.09	(1.02-1.16)	7.75E-03	3.43E-02
rs4621673	7	155209171	NCI	T	0.435	0.86	(0.81-0.92)	9.48E-06	
rs4621673	7	155209171	Nanjing_Scan	T	0.409	1.06	(0.83-1.35)	6.46E-01	

rs4621673	7	155209171	Japan610	T	0.352	0.72	(0.57-0.92)	9.23E-03	
rs4621673	7	155209171	JapanOmniEx	T	0.334	0.93	(0.81-1.07)	3.26E-01	
rs4621673	7	155209171	Jinan	T	0.425	1.02	(0.90-1.17)	7.24E-01	
rs4621673	7	155209171	Taiwan	T	0.422	1.11	(0.88-1.40)	3.82E-01	
rs4621673	7	155209171	Beijing	T	0.397	1.21	(0.98-1.49)	6.92E-02	
rs4621673	7	155209171	Nanjing_TaqMan	T	0.408	1.16	(0.96-1.40)	1.16E-01	
rs4621673	7	155209171	Tianjin	T	0.417	1.09	(0.86-1.38)	4.70E-01	
rs4621673	7	155209171	Shenyang	T	0.416	0.98	(0.82-1.18)	8.54E-01	
rs4621673	7	155209171	Shanghai	T	0.420	0.95	(0.73-1.23)	6.81E-01	
rs4621673	7	155209171	CGR	T	0.354	0.84	(0.54-1.31)	4.51E-01	
rs4621673	7	155209171	Japan_NCCI	T	0.308	1.01	(0.71-1.42)	9.77E-01	
rs4621673	7	155209171	Japan_NCCH	T	0.298	1.37	(1.06-1.78)	1.70E-02	
rs4621673	7	155209171	Japan_BBJ_NCCH	T	0.336	0.90	(0.77-1.05)	1.60E-01	
rs4621673	7	155209171	Combined			0.95	(0.91-0.99)	1.04E-02	8.84E-04
rs1800378	12	6172202	NCI	C	0.721	0.89	(0.83-0.95)	7.06E-04	
rs1800378	12	6172202	Nanjing_Scan	C	0.643	1.25	(0.92-1.70)	1.46E-01	
rs1800378	12	6172202	Japan610	C	0.659	0.80	(0.63-1.02)	7.63E-02	
rs1800378	12	6172202	JapanOmniEx	C	0.652	0.88	(0.76-1.01)	6.99E-02	
rs1800378	12	6172202	Jinan	C	0.702	1.09	(0.95-1.26)	2.23E-01	
rs1800378	12	6172202	Taiwan	C	0.739	0.81	(0.63-1.04)	1.03E-01	
rs1800378	12	6172202	Beijing	C	0.707	0.99	(0.79-1.24)	9.40E-01	
rs1800378	12	6172202	Nanjing_TaqMan	C	0.730	1.06	(0.86-1.30)	6.07E-01	
rs1800378	12	6172202	Tianjin	C	0.710	1.04	(0.82-1.33)	7.31E-01	
rs1800378	12	6172202	Shenyang	C	0.729	0.94	(0.76-1.14)	5.17E-01	
rs1800378	12	6172202	Shanghai	C	0.726	0.88	(0.66-1.17)	3.68E-01	
rs1800378	12	6172202	CGR	C	0.638	1.01	(0.67-1.51)	9.78E-01	
rs1800378	12	6172202	Japan_NCCI	C	0.601	1.22	(0.87-1.71)	2.59E-01	
rs1800378	12	6172202	Japan_NCCH	C	0.617	1.16	(0.90-1.48)	2.50E-01	
rs1800378	12	6172202	Japan_BBJ_NCCH	G	0.615	1.05	(0.91-1.21)	5.50E-01	

rs1800378	12	6172202	Combined		0.95	(0.91-0.99)	2.33E-02	5.18E-02
rs911499	11	34240897	NCI	G	0.867	0.82	(0.75-0.90)	3.07E-05
rs911499	11	34240897	Nanjing_Scan	G	0.844	0.97	(0.71-1.34)	8.74E-01
rs911499	11	34240897	Japan610	G	0.910	0.93	(0.61-1.43)	7.48E-01
rs911499	11	34240897	JapanOmniEx	G	0.907	0.73	(0.59-0.92)	6.07E-03
rs911499	11	34240897	Jinan	G	0.737	1.13	(0.99-1.29)	6.22E-02
rs911499	11	34240897	Taiwan	G	0.845	1.07	(0.77-1.48)	6.89E-01
rs911499	11	34240897	Nanjing_TaqMan	G	0.845	1.27	(0.97-1.65)	8.29E-02
rs911499	11	34240897	Tianjin	G	0.836	1.09	(0.80-1.49)	5.88E-01
rs911499	11	34240897	Shenyang	G	0.856	0.99	(0.76-1.29)	9.32E-01
rs911499	11	34240897	Shanghai	G	0.837	1.07	(0.76-1.52)	7.03E-01
rs911499	11	34240897	CGR	G	0.869	3.82	(1.43-10.19)	4.67E-03
rs911499	11	34240897	Japan_NCCI	G	0.925	0.47	(0.27-0.80)	5.60E-03
rs911499	11	34240897	Japan_NCCH	G	0.897	1.12	(0.73-1.73)	6.10E-01
rs911499	11	34240897	Japan_BBJ_NCCH	C	0.898	0.98	(0.78-1.23)	8.70E-01
rs911499	11	34240897	Combined		0.94	(0.89-1.00)	3.38E-02	4.88E-05
rs78662068	4	44214815	NCI	C	0.053	1.35	(1.16-1.58)	9.88E-05
rs78662068	4	44214815	Nanjing_Scan	C	0.069	0.76	(0.46-1.26)	2.85E-01
rs78662068	4	44214815	Japan610	C	0.038	1.71	(0.79-3.74)	1.76E-01
rs78662068	4	44214815	JapanOmniEx	C	0.034	2.02	(1.29-3.18)	2.19E-03
rs78662068	4	44214815	Jinan	G	0.148	0.86	(0.75-1.00)	5.40E-02
rs78662068	4	44214815	Taiwan	G	0.081	1.07	(0.71-1.60)	7.55E-01
rs78662068	4	44214815	Beijing	G	0.064	0.88	(0.57-1.35)	5.48E-01
rs78662068	4	44214815	CGR	G	0.038	0.56	(0.15-2.05)	3.76E-01
rs78662068	4	44214815	Japan_NCCI	G	0.028	1.12	(0.44-2.86)	8.09E-01
rs78662068	4	44214815	Japan_NCCH	G	0.032	1.02	(0.51-2.00)	9.70E-01
rs78662068	4	44214815	Japan_BBJ_NCCH	G	0.033	0.74	(0.49-1.12)	1.60E-01
rs78662068	4	44214815	Combined		1.06	(0.97-1.17)	1.82E-01	3.01E-04

*EA, Effect Allele; **EAF; Effect Allele Frequency in controls.