

Supplementary Table 2 Meta analysis of overall lung cancer cases versus controls for 13 SNPs

SNP	CHR	LOC	GROUP	EA*	EAF**	OR	CI	P	Phet
rs7741164	6	41493412	NCI	A	0.309	1.14	(1.06-1.24)	8.75E-04	
rs7741164	6	41493412	Nanjing_Scan	A	0.347	1.11	(0.88-1.40)	3.71E-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	1.29	(1.15-1.46)	2.23E-05	
rs7741164	6	41493412	Taiwan	T	0.350	1.19	(0.95-1.50)	1.37E-01	
rs7741164	6	41493412	Beijing	T	0.318	1.30	(1.06-1.60)	1.18E-02	
rs7741164	6	41493412	Nanjing_TaqMan	T	0.337	1.21	(1.01-1.45)	4.12E-02	
rs7741164	6	41493412	Tianjin	T	0.337	1.28	(1.01-1.62)	3.97E-02	
rs7741164	6	41493412	Shenyang	T	0.333	1.06	(0.90-1.25)	4.84E-01	
rs7741164	6	41493412	Shanghai	T	0.341	1.14	(0.93-1.41)	2.13E-01	
rs7741164	6	41493412	CGR	T	0.311	0.92	(0.62-1.37)	6.86E-01	
rs7741164	6	41493412	Wuhan	T	0.346	1.10	(0.88-1.37)	3.90E-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			1.17	(1.12-1.22)	5.80E-13	2.17E-01
rs72658409	9	22160087	NCI	T	0.073	0.76	(0.68-0.86)	1.07E-05	
rs72658409	9	22160087	Nanjing_Scan	T	0.075	0.85	(0.55-1.32)	4.64E-01	
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	0.74	(0.59-0.94)	1.24E-02	
rs72658409	9	22160087	Taiwan	T	0.063	0.71	(0.44-1.15)	1.61E-01	
rs72658409	9	22160087	Beijing	T	0.079	0.97	(0.66-1.41)	8.63E-01	
rs72658409	9	22160087	Nanjing_TaqMan	T	0.084	0.63	(0.44-0.90)	1.16E-02	
rs72658409	9	22160087	Shenyang	T	0.085	0.70	(0.52-0.93)	1.46E-02	

rs72658409	9	22160087	Shanghai	T	0.058	1.33	(0.88-2.00)	1.79E-01	
rs72658409	9	22160087	CGR	T	0.047	1.03	(0.47-2.23)	9.48E-01	
rs72658409	9	22160087	Wuhan	T	0.094	0.69	(0.47-1.01)	5.70E-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	(0.72-0.84)	1.41E-10	2.79E-01
rs11610143	12	52349071	NCI	G	0.315	0.87	(0.82-0.93)	1.97E-05	
rs11610143	12	52349071	Nanjing_Scan	G	0.327	1.02	(0.80-1.31)	8.45E-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	0.90	(0.80-1.01)	6.72E-02	
rs11610143	12	52349071	Taiwan	G	0.291	0.71	(0.55-0.92)	9.06E-03	
rs11610143	12	52349071	Beijing	G	0.322	0.93	(0.75-1.16)	5.35E-01	
rs11610143	12	52349071	Nanjing_TaqMan	G	0.303	0.96	(0.79-1.17)	7.18E-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	(0.79-1.10)	4.05E-01	
rs11610143	12	52349071	Shanghai	G	0.301	0.88	(0.68-1.15)	3.58E-01	
rs11610143	12	52349071	CGR	G	0.330	1.28	(0.88-1.87)	2.00E-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			0.89	(0.85-0.92)	4.96E-09	7.16E-01
rs3794742	17	76165548	NCI	A	0.517	0.88	(0.83-0.93)	1.23E-05	
rs3794742	17	76165548	Nanjing_Scan	A	0.514	0.80	(0.62-1.02)	7.30E-02	
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	(0.88-1.10)	8.08E-01	

rs3794742	17	76165548	Taiwan	A	0.493	0.97	(0.78-1.20)	7.97E-01	
rs3794742	17	76165548	Beijing	A	0.527	0.95	(0.78-1.15)	6.04E-01	
rs3794742	17	76165548	Nanjing_TaqMan	A	0.514	0.93	(0.78-1.11)	4.10E-01	
rs3794742	17	76165548	Tianjin	A	0.495	1.08	(0.86-1.36)	4.90E-01	
rs3794742	17	76165548	Shenyang	A	0.560	0.72	(0.61-0.84)	2.58E-05	
rs3794742	17	76165548	Shanghai	A	0.500	1.04	(0.85-1.26)	7.21E-01	
rs3794742	17	76165548	CGR	A	0.564	1.20	(0.83-1.72)	3.32E-01	
rs3794742	17	76165548	Wuhan	A	0.521	1.11	(0.90-1.36)	3.31E-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	(0.88-0.94)	4.29E-07	2.66E-02
rs4921799	8	17507964	NCI	G	0.829	0.88	(0.81-0.94)	5.79E-04	
rs4921799	8	17507964	Nanjing_Scan	G	0.844	0.81	(0.59-1.11)	1.85E-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	1.00	(0.88-1.13)	9.88E-01	
rs4921799	8	17507964	Taiwan	G	0.845	0.78	(0.58-1.06)	1.11E-01	
rs4921799	8	17507964	Beijing	G	0.842	1.10	(0.83-1.45)	5.19E-01	
rs4921799	8	17507964	Nanjing_TaqMan	G	0.853	0.83	(0.65-1.06)	1.35E-01	
rs4921799	8	17507964	Tianjin	G	0.900	0.67	(0.48-0.95)	2.20E-02	
rs4921799	8	17507964	Shenyang	G	0.860	0.73	(0.58-0.91)	5.04E-03	
rs4921799	8	17507964	Shanghai	G	0.811	1.34	(1.03-1.74)	2.69E-02	
rs4921799	8	17507964	CGR	G	0.805	0.79	(0.51-1.22)	2.85E-01	
rs4921799	8	17507964	Wuhan	G	0.870	1.10	(0.81-1.50)	5.24E-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			0.89	(0.85-0.94)	3.12E-06	1.28E-02

rs10969557	9	310970	NCI	G	0.227	1.16	(1.08-1.24)	3.74E-05	
rs10969557	9	310970	Nanjing_Scan	G	0.207	1.17	(0.88-1.56)	2.84E-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	1.00	(0.87-1.14)	9.65E-01	
rs10969557	9	310970	Taiwan	G	0.217	1.12	(0.86-1.46)	3.94E-01	
rs10969557	9	310970	Beijing	G	0.232	1.02	(0.81-1.29)	8.59E-01	
rs10969557	9	310970	Nanjing_TaqMan	G	0.216	1.03	(0.83-1.29)	7.59E-01	
rs10969557	9	310970	Tianjin	G	0.217	0.94	(0.71-1.23)	6.50E-01	
rs10969557	9	310970	Shenyang	G	0.219	1.06	(0.88-1.28)	5.48E-01	
rs10969557	9	310970	Shanghai	G	0.231	0.99	(0.74-1.33)	9.70E-01	
rs10969557	9	310970	CGR	G	0.281	0.71	(0.47-1.08)	1.04E-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			1.11	(1.06-1.16)	5.87E-06	1.83E-01
rs10854241	20	18175352	NCI	G	0.222	1.16	(1.08-1.25)	5.77E-05	
rs10854241	20	18175352	Nanjing_Scan	G	0.213	1.40	(1.06-1.84)	1.72E-02	
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	1.08	(0.94-1.24)	2.95E-01	
rs10854241	20	18175352	Taiwan	G	0.375	0.43	(0.20-0.92)	2.54E-02	
rs10854241	20	18175352	Nanjing_TaqMan	G	0.202	0.83	(0.66-1.05)	1.15E-01	
rs10854241	20	18175352	CGR	G	0.145	0.68	(0.39-1.19)	1.75E-01	
rs10854241	20	18175352	Combined			1.12	(1.06-1.18)	8.51E-05	5.65E-03
rs55750811	10	131316206	NCI	C	0.019	1.57	(1.29-1.92)	7.99E-06	
rs55750811	10	131316206	Nanjing_Scan	C	0.026	0.73	(0.32-1.66)	4.57E-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	1.17	(0.52-2.65)	7.08E-01	
rs55750811	10	131316206	Nanjing_TaqMan	C	0.012	0.97	(0.43-2.19)	9.42E-01	
rs55750811	10	131316206	Shenyang	C	0.038	1.02	(0.68-1.53)	9.18E-01	
rs55750811	10	131316206	Shanghai	C	0.010	1.14	(0.36-3.66)	8.23E-01	
rs55750811	10	131316206	CGR	C	0.062	0.76	(0.36-1.63)	4.82E-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			1.22	(1.10-1.36)	3.20E-04	2.07E-01
rs76677882	4	44187929	NCI	T	0.053	1.27	(1.11-1.46)	8.02E-04	
rs76677882	4	44187929	Nanjing_Scan	T	0.068	1.25	(0.79-1.98)	3.31E-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	0.99	(0.78-1.25)	9.13E-01	
rs76677882	4	44187929	Taiwan	A	0.085	1.05	(0.72-1.53)	8.05E-01	
rs76677882	4	44187929	Beijing	A	0.079	0.88	(0.60-1.29)	5.10E-01	
rs76677882	4	44187929	Nanjing_TaqMan	A	0.082	0.99	(0.71-1.39)	9.74E-01	
rs76677882	4	44187929	Tianjin	A	0.061	1.49	(0.97-2.29)	6.84E-02	
rs76677882	4	44187929	Shenyang	A	0.072	1.20	(0.91-1.58)	1.91E-01	
rs76677882	4	44187929	Shanghai	A	0.066	1.16	(0.73-1.86)	5.29E-01	
rs76677882	4	44187929	CGR	A	0.042	1.14	(0.48-2.71)	7.60E-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			1.17	(1.07-1.27)	4.29E-04	2.66E-01
rs1800378	12	6172202	NCI	C	0.722	0.88	(0.82-0.94)	7.73E-05	

rs1800378	12	6172202	Nanjing_Scan	C	0.666	0.79	(0.58-1.07)	1.24E-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	1.12	(0.99-1.27)	7.16E-02	
rs1800378	12	6172202	Taiwan	C	0.739	0.82	(0.64-1.05)	1.09E-01	
rs1800378	12	6172202	Beijing	C	0.707	1.02	(0.82-1.27)	8.70E-01	
rs1800378	12	6172202	Nanjing_TaqMan	C	0.730	1.01	(0.83-1.23)	9.38E-01	
rs1800378	12	6172202	Tianjin	C	0.710	1.04	(0.82-1.33)	7.31E-01	
rs1800378	12	6172202	Shenyang	C	0.729	0.90	(0.76-1.07)	2.50E-01	
rs1800378	12	6172202	Shanghai	C	0.726	0.87	(0.67-1.14)	3.09E-01	
rs1800378	12	6172202	CGR	C	0.638	1.06	(0.75-1.51)	7.36E-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			0.94	(0.90-0.98)	2.55E-03	2.10E-02
rs4621673	7	155209171	NCI	T	0.435	0.88	(0.83-0.93)	1.16E-05	
rs4621673	7	155209171	Nanjing_Scan	T	0.387	1.05	(0.81-1.35)	7.27E-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	1.01	(0.90-1.13)	8.93E-01	
rs4621673	7	155209171	Taiwan	T	0.422	1.10	(0.88-1.37)	4.11E-01	
rs4621673	7	155209171	Beijing	T	0.397	1.22	(1.00-1.49)	5.30E-02	
rs4621673	7	155209171	Nanjing_TaqMan	T	0.408	1.17	(0.98-1.41)	8.47E-02	
rs4621673	7	155209171	Tianjin	T	0.417	1.09	(0.86-1.38)	4.70E-01	
rs4621673	7	155209171	Shenyang	T	0.416	0.99	(0.85-1.16)	8.96E-01	
rs4621673	7	155209171	Shanghai	T	0.420	1.01	(0.80-1.29)	9.15E-01	
rs4621673	7	155209171	CGR	T	0.354	0.79	(0.54-1.16)	2.28E-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)	9.91E-03	6.49E-04
rs911499	11	34240897	NCI	G	0.867	0.85	(0.78-0.92)	1.40E-04	
rs911499	11	34240897	Nanjing_Scan	G	0.853	0.96	(0.70-1.31)	7.95E-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	1.06	(0.95-1.18)	3.07E-01	
rs911499	11	34240897	Taiwan	G	0.845	1.03	(0.76-1.40)	8.29E-01	
rs911499	11	34240897	Nanjing_TaqMan	G	0.845	1.24	(0.96-1.60)	9.51E-02	
rs911499	11	34240897	Tianjin	G	0.836	1.09	(0.80-1.49)	5.88E-01	
rs911499	11	34240897	Shenyang	G	0.856	0.95	(0.75-1.19)	6.41E-01	
rs911499	11	34240897	Shanghai	G	0.837	1.04	(0.76-1.44)	7.94E-01	
rs911499	11	34240897	CGR	G	0.869	2.63	(1.29-5.36)	6.21E-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	(0.89-0.99)	2.10E-02	5.17E-04
rs78662068	4	44214815	NCI	C	0.053	1.25	(1.09-1.44)	1.78E-03	
rs78662068	4	44214815	Nanjing_Scan	C	0.066	1.26	(0.80-1.97)	3.24E-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	0.87	(0.77-0.99)	3.53E-02	
rs78662068	4	44214815	Taiwan	G	0.081	1.02	(0.69-1.52)	9.07E-01	
rs78662068	4	44214815	Beijing	G	0.064	0.91	(0.60-1.39)	6.73E-01	
rs78662068	4	44214815	CGR	G	0.038	1.34	(0.56-3.21)	5.14E-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	1.05	(0.96-1.14)	2.72E-01	1.89E-03
------------	---	----------	----------	------	-------------	----------	----------

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