Table S1. Candidate genes and SNPs included in the study

Gene	SNP	Chromosome	Rare allele	Common allele	MAF	Function	HWE-*P*
SOD2	rs4880	6	C	T	0.15	Val16Ala	0.284
GSTP1	rs1695	11	G	A	0.21	Ile105Val	0.787
TXN2	rs2281082	22	G	T	0.29	Intronic	0.104
PPARG*	rs1801282	3	G	C	0.07	Pro12Ala	< 0.001
GPX1	rs1800668	3	T	C	0.09	Promoter	0.339
CAT	rs769214	11	A	G	0.29	5' UTR	0.087
PON1	rs662	7	A	G	0.35	Q192R	0.491
NOS2	rs2297518	17	A	G	0.18	Ser608Leu	0.410
NOS3	rs1799983	7	T	G	0.14	Glu298Asp	0.829
MPO	rs2333227	17	G	A	0.16	Promoter	0.426
GPX1	rs1050450	3	T	C	0.11	Pro200Leu	0.614
NQO1	rs1800566	16	T	C	0.49	Pro187Ser	0.067
CYBA	rs4673	16	T	C	0.08	His72Tyr	0.209
AKR1C3*	rs1937840	10	C	G	0.19	Intronic	< 0.001
RAC1	rs10951982	7	A	G	0.20	Intronic	0.092
KL	rs3752472	13	T	C	0.10	Pro514Ser	0.497
BLVRA	rs699512	7	G	A	0.32	Thr3Ala	1.000
GPX4	rs713041	19	T	C	0.46	3' UTR	0.090
GCLC	rs17883901	6	T	C	0.12	Promoter	0.990
MT2A	rs10636	16	C	G	0.32	3' UTR	0.910

MAF: minor allele frequency; HWE: Hardy-Weinberg equilibrium. *indicates SNPs deviated from Hardy-Weinberg equilibrium and thus excluded from the analysis.

Table S2. Associations between SNPs and progression-free and overall survival of NSCLC patients

Gene	SNP	Progression-free survival		Overall survival	
		HR (95% CI)	*P* value	HR (95% CI)	*P* value
SOD2	rs4880	0.819 (0.601-1.114)	0.203	1.158 (0.859-1.560)	0.336
GSTP1	rs1695	1.293 (0.967-1.730)	0.083	0.679 (0.510-0.904)	0.008
TXN2	rs2281082	1.171 (0.933-1.471)	0.174	0.936 (0.752-1.165)	0.553
GPX1	rs1800668	1.224 (0.830-1.804)	0.308	0.848 (0.594-1.209)	0.361
CAT	rs769214	1.009 (0.797-1.277)	0.941	1.035 (0.820-1.308)	0.770
PON1	rs662	1.012 (0.803-1.274)	0.921	1.085 (0.861-1.367)	0.489
NOS2	rs2297518	0.934 (0.688-1.267)	0.659	0.776 (0.579-1.040)	0.090
NOS3	rs1799983	0.736 (0.537-1.009)	0.057	1.168 (0.842-1.620)	0.354
MPO	rs2243828	0.934 (0.702-1.242)	0.639	0.685 (0.519-0.904)	0.007
GPX1	rs1050450	1.146 (0.793-1.658)	0.468	1.193 (0.838-1.697)	0.327
NQO1	rs1800566	0.951 (0.759-1.190)	0.659	0.932 (0.801-1.085)	0.366
CYBA	rs4673	1.349 (0.895-2.035)	0.153	0.783 (0.556-1.101)	0.159
RAC1	rs10951982	1.173 (0.862-1.596)	0.310	0.972 (0.730-1.296)	0.848
KL	rs3752472	0.901 (0.608-1.335)	0.603	1.113 (0.772-1.606)	0.565
BLVRA	rs699512	0.969 (0.763-1.231)	0.799	0.786 (0.628-0.985)	0.036
GPX4	rs713041	0.874 (0.714-1.069)	0.190	0.903 (0.735-1.108)	0.329
MT2A	rs10636	1.042 (0.827-1.314)	0.726	1.000 (0.794-1.262)	0.997
GCLC	rs17883901	0.968 (0.684-1.372)	0.857	1.145 (0.868-1.511)	0.338