

Supplementary Table E2. SNP-Based Analyses for COPD Patients with Lung Cancer and Healthy Control Dataset									
Pathway	Gene	RS ID	OR(Additive Model)	P(Additive Model)	OR(Dominant Model)	P(Dominant Model)	OR(Recessive Model)	P(Recessive Model)	Minimum P Value in Three Genetic Models
DNA	XRCC1	rs1001581	0.908678864	0.342355885	0.841686666	0.231969491	0.958777924	0.827042727	0.231969491
GSH	GSTM4	rs1010167	1.002642877	0.978510929	0.971496021	0.838482382	1.062789784	0.74674874	0.74674874
Inflammation	LTA	rs1041981	0.962200926	0.707870823	0.815271391	0.147144041	1.34826152	0.159065408	0.147144041
GSH	GSTZ1	rs1046428	0.964919056	0.780091042	0.90264166	0.480645914	1.571181732	0.270776794	0.270776794
GSH	GPX7	rs1047635	0.846686047	0.093466549	0.787544008	0.120179805	0.819858175	0.244691525	0.093466549
DNA	APEX1	rs1048945	1.010565044	0.963424462	0.94483333	0.808416713	1.0308358271	0.043875107	0.043875107
GSH	GSTO2	rs10491045	0.839533171	0.411817091	0.791219868	0.287920283	0.7679811487	0.871441602	0.287920283
GSH	ABCC4	rs10508017	0.972322453	0.775019189	0.962617019	0.806375296	0.964005475	0.824994558	0.775019189
GSH	ABCC4	rs10509023	1.312183872	0.067349838	1.295308904	0.123059604	2.313574307	0.112093668	0.067349838
GSH	ABCC3	rs1051640	1.216054938	0.12356993	1.252477365	0.120227869	1.255325754	0.57078067	0.120227869
DNA	RAD52	rs1051669	0.998961486	0.992794153	0.994747251	0.970743004	1.015198278	0.958796492	0.958796492
DNA	MGMT	rs10741191	1.133249749	0.219607121	1.175952623	0.269323792	1.177941417	0.389256901	0.219607121
DNA	MGMT	rs10741198	1.038147543	0.707822915	1.010461728	0.940672891	1.14082145	0.514656692	0.514656692
DNA	RAD52	rs10744729	0.928827149	0.463785923	1.024824503	0.8712193	0.76594199	0.137441208	0.137441208
DNA	MGMT	rs10764901	1.106417314	0.375573007	1.105164897	0.473247819	1.249721177	0.444863368	0.375573007
GSH	GSTA1	rs10948723	0.93354997	0.478622449	0.851688496	0.274208638	1.004366354	0.980125039	0.274208638
DNA	MGMT	rs11016879	0.910507274	0.345156076	0.838591787	0.214774688	0.971690936	0.881770119	0.214774688
DNA	MGMT	rs11016884	1.162098073	0.152859773	1.223440778	0.137822283	1.168472372	0.498902945	0.137822283
DNA	MGMT	rs11016887	1.029278009	0.824258104	1.004826253	0.974552326	1.289508311	0.550445168	0.550445168
DNA	RAD52	rs11064607	1.041124971	0.69291882	1.040123126	0.796030558	1.073936134	0.693841221	0.69291882
GSH	ABCC1	rs11075295	0.826051888	0.156063616	0.760900786	0.080093561	1.124718752	0.77804561	0.080093561
GSH	ABCC2	rs11190291	1.194737979	0.149972981	1.202488184	0.207894186	1.470859019	0.278784807	0.149972981
GSH	GSTO1	rs11191975	0.980038701	0.895875874	0.91864517	0.620927537	1.99257434	0.252019703	0.252019703
GSH	GSTO2	rs11191990	1.113691351	0.75055133	1.070611751	0.848615449	3.943730903	0.4616951	0.4616951
DNA	XPC	rs1124303	1.104598265	0.582046413	1.108869618	0.585023635	1.173538418	0.873596761	0.582046413
GSH	GSTP1	rs1138272	0.649512966	0.01684454	0.59833919	0.008185689	1.253341196	0.774616401	0.008185689
Inflammation	IL1B	rs1143627	0.857578057	0.144697173	0.781450517	0.077797983	0.938267863	0.776547993	0.077797983
Inflammation	IL1B	rs1143630	0.987406513	0.954129638	0.957236508	0.850361272	1.222565189	0.50639944	0.50639944
Inflammation	IL1B	rs1143633	1.043534475	0.693421192	1.052479253	0.715955035	1.064871385	0.773817898	0.693421192
Inflammation	IL1B	rs1143634	0.9462726	0.62867055	0.902323398	0.462933411	1.090672414	0.767381912	0.462933411
GSH	GSTO1	rs1147611	1.266235184	0.022937872	1.356428015	0.030697333	1.350333596	0.135637844	0.022937872
GSH	GSTO1	rs11509438	1.122899477	0.67700948	1.094025201	0.752932929	NA	NA	0.67700948
DNA	MGMT	rs11511217	0.991920405	0.941776693	0.943828628	0.680537999	1.171579641	0.548679544	0.548679544
GSH	ABCC4	rs11568643	0.895939238	0.545548015	0.891278249	0.547170311	0.84834337	0.8634105	0.545548015
GSH	ABCC4	rs11568658	0.915169812	0.755410213	1.003214073	0.99152353	9.62E-07	0.970782432	0.755410213
GSH	ABCC4	rs11568663	1.075361519	0.622301043	1.038653566	0.814566075	1.87216405	0.276357759	0.276357759
DNA	MGMT	rs11592158	1.091857769	0.464591994	1.117298114	0.436801594	1.074035879	0.832089863	0.436801594
GSH	ABCC2	rs11597282	0.885520699	0.670238283	0.885520699	0.670238283	NA	NA	0.670238283
DNA	ERRC1	rs1161615	0.956370098	0.664224798	0.926731012	0.591328763	0.981263032	0.927527183	0.591328763
GSH	GSTM5	rs11807	1.072702635	0.562021578	1.105588883	0.483415414	0.987894268	0.971789449	0.483415414
DNA	MGMT	rs11813056	1.397764872	0.012943869	1.412837278	0.023166908	2.031509894	0.111238976	0.012943869
DNA	MGMT	rs11813363	1.162098073	0.152859773	1.223440778	0.137822283	1.168472372	0.498902945	0.137822283
DNA	PARP	rs11842915	1.116279727	0.396189325	1.140954813	0.231151769	1.122204138	0.771974348	0.396189325
GSH	ABCC1	rs11864374	1.01779813	0.874824564	1.035754512	0.803325777	0.972650677	0.920549762	0.803325777
GSH	ABCC4	rs1189428	0.736030699	0.480124024	1.204105748	0.230882554	0.978258202	0.898986416	0.230882554
GSH	ABCC4	rs1189446	1.031922986	0.809536595	1.020886443	0.889471941	1.173901679	0.701554687	0.701554687
GSH	ABCC4	rs1189457	0.926731784	0.453620388	0.927961805	0.616950363	0.872577367	0.45839931	0.453620388
GSH	ABCC4	rs1189465	0.99886886	0.998964186	1.201628387	0.215322667	0.748266578	0.120649886	0.120649886
GSH	ABCC4	rs1189470	1.008181764	0.949257079	1.056773384	0.704323617	0.692952166	0.385867943	0.385867943
GSH	GSTA3	rs11961374	1.547707719	0.255924554	1.547707719	0.255924554	NA	NA	0.255924554
GSH	GSTA1	rs11969435	0.933276734	0.47672451	0.851434317	0.273341454	1.003782542	0.982774219	0.273341454
DNA	MGMT	rs12219606	1.00829475	0.93326777	1.042479559	0.773434338	0.961741744	0.832723407	0.773434338
DNA	MGMT	rs12220762	0.957492823	0.892346528	0.994833325	0.9703322	0.811020001	0.38937941	0.38937941
DNA	MGMT	rs12243174	0.94204401	0.512982123	0.961496657	0.784896469	0.787614445	0.451330298	0.451330298
DNA	MGMT	rs12256667	0.876485935	0.348187658	0.890476373	0.453484737	0.594240068	0.335845643	0.335845643
GSH	GSTM4	rs12405275	1.285141781	0.264670946	1.253038082	0.333345516	6.185739966	0.267225374	0.264670946
DNA	MGMT	rs12413023	1.008382476	0.932784913	1.249649004	0.133684252	0.741999503	0.097680203	0.097680203
DNA	MSH3	rs12513549	1.346905389	0.066375569	1.314357744	0.109538992	3.886554088	0.106026613	0.066375569
DNA	MSH3	rs12521232	1.224719454	0.185952734	1.219788555	0.230246188	1.77758028	0.370892133	0.185952734
GSH	GCLC	rs12524494	0.844284115	0.438369642	0.877986533	0.578515706	0.274244893	0.263921488	0.263921488
GSH	GCLC	rs12524550	2.107213164	0.022790943	2.097809511	0.026251741	NA	NA	0.022790943
GSH	GCLC	rs12525474	1.210297874	0.179395523	1.216285478	0.220677642	1.551142249	0.377669145	0.179395523
GSH	GSTM5	rs12743015	1.01773671	0.955443695	0.963302271	0.908898273	NA	NA	0.908898273
DNA	MGMT	rs12763287	1.099940206	0.484372503	1.176179546	0.282087316	0.594034491	0.321168703	0.282087316
DNA	RRM1	rs12806998	0.895550832	0.290617064	0.853693252	0.256005795	0.80956184	0.743875642	0.256005795
DNA	RAD52	rs12827646	1.04077426	0.775471707	1.108832722	0.501106132	0.48480889	0.21528975	0.21528975
DNA	MGMT	rs12917	0.991901318	0.955384987	1.020245747	0.896155471	0.531388705	0.391481106	0.391481106
GSH	ABCC1	rs12924212	0.897351799	0.284385878	0.889857601	0.419786857	0.830581566	0.335468879	0.284385878
DNA	MSH2	rs12998837	0.968378244	0.828605349	0.940380779	0.706073312	1.318944362	0.624862327	0.624862327
DNA	ERRC2	rs13181	0.806016569	0.031453126	0.753322012	0.04423926	0.747562442	0.146999832	0.031453126
GSH	GSTM3	rs1332018	1.0261276	0.799443956	1.012850941	0.931487068	1.069376178	0.719303956	0.719303956
GSH	ABCC1	rs152022	0.901643797	0.397473695	1.015031868	0.919293454	0.397637009	0.011576628	0.011576628
GSH	ABCC1	rs152023	0.870550168	0.184379735	0.937932199	0.643948597	0.605145438	0.032169331	0.032169331
GSH	ABCC1	rs152028	1.015838637	0.881980462	1.039439734	0.780739508	0.966645376	0.886496421	0.780739508
GSH	ABCC3	rs1541392	1.157652779	0.304492945	1.135819581	0.423126861	1.744064163	0.272651935	0.272651935
GSH	ABCC4	rs1564351	1.204367436	0.260277664	1.184068446	0.34407649	2.162131832	0.293502881	0.260277664
GSH	GSTO1	rs156999	1.01127314	0.895144975	0.999507673	0.997473474	1.218111756	0.659605439	0.659605439
GSH	GSTO2	rs157077	1.177603868	0.093423533	1.427610391	0.018476055	1.045527589	0.794591938	0.093423533
DNA	GSTO2	rs157080	1.220673845	0.05912975	1.39709791	0.016834154	1.041377779	0.859685997	0.05912975
DNA	OGG1	rs159154	1.012136903	0.908423769	1.062656459	0.662267392	0.897566207	0.638542078	0.638542078
DNA	ERRC2	rs1618536	1.118385981	0.251506127	1.185781754	0.256626948	1.131573533	0.471178469	0.251506127
DNA	RRM1	rs1662162	0.762295467	0.11717344	0.691715	0.054315324	1.627430418	0.485100054	0.054315324
GSH	ABCC4	rs1678374	1.065497179	0.527304911	1.042478495	0.770741711	1.174359944	0.407923535	0.407923535
GSH	GSTP1	rs1695	1.001203426	0.99092307	0.90739984	0.486322418	1.304269591	0.24478526	0.24478526
GSH	ABCC1	rs16967755	1.215991339	0.09348199	1.449392964	0.010130762	0.724801926	0.291748689	0.010130762
GSH	ABCC4	rs17189376	0.906738364	0.40247312	0.933238033	0.627830264	0.697241629	0.24754287	

GSH	GSS	rs2025096	1.116528024	0.36855588	1.126175891	0.411682828	1.229819241	0.557164142	0.36855588
DNA	MGMT	rs2026975	0.983699574	0.879853587	0.967273464	0.811600784	1.021098132	0.935111155	0.811600784
DNA	MGMT	rs2026976	1.030711177	0.776540966	1.14222487	0.342347884	0.800671863	0.340053505	0.340053505
GSH	GPX5	rs2064424	1.345823847	0.067950058	1.336662346	0.106788653	2.414332571	0.163958864	0.067950058
Inflammation	IL6	rs2066992	0.815957258	0.396139703	0.814982411	0.416149721	0.573292291	0.68049145	0.396139703
Inflammation	IL6	rs2069835	0.744507099	0.196034985	0.777902816	0.288828294	6.61E-07	0.974224033	0.196034985
Inflammation	IL6	rs2069840	1.120055219	0.26212948	1.155671643	0.30217049	1.171998823	0.441169514	0.26212948
Inflammation	IL6	rs2069843	1.225260643	0.525523434	1.324181738	0.397346947	NA	NA	0.397346947
Inflammation	IL6	rs2069852	1.082512448	0.803296231	1.082512448	0.803296231	NA	NA	0.803296231
Inflammation	IL6	rs2069861	0.753632754	0.069825978	0.750489081	0.092164824	0.50112016	0.279873931	0.069825978
DNA	MSH6	rs2072447	1.051829188	0.650838562	1.011995826	0.48581185	0.930259698	0.793325656	0.48581185
DNA	OGG1	rs2072668	0.950114542	0.667285278	0.903237817	0.476685185	1.155134545	0.656590052	0.476685185
GSH	ABCC1	rs2074085	1.242888596	0.165802898	1.270746501	0.166228916	1.354851972	0.612530846	0.165802898
GSH	GPX6	rs2078439	1.335245433	0.072886372	1.32365987	0.114808265	2.414332571	0.163958864	0.072886372
GSH	GCLC	rs2100375	0.775860612	0.022902315	0.779762253	0.074913976	0.566775871	0.038720169	0.022902315
GSH	ABCC1	rs212081	1.042610043	0.683116404	1.03059068	0.83325354	1.106050772	0.613915592	0.613915592
GSH	ABCC1	rs212082	0.89597039	0.38968773	0.862982968	0.317183233	1.007426724	0.984971867	0.317183233
GSH	ABCC1	rs212087	1.293769121	0.012597217	1.308371538	0.073736345	1.539449079	0.021088869	0.012597217
GSH	ABCC1	rs215100	0.762556781	0.009689485	0.749485946	0.038160969	0.587275608	0.022908831	0.009689485
GSH	ABCC1	rs215101	0.806668468	0.152279924	0.821643948	0.230677801	0.443726154	0.193662174	0.152279924
GSH	GSTO1	rs2164624	1.2711425396	0.021765871	1.382948581	0.020552881	1.315273583	0.222051482	0.020552881
GSH	GSTA2	rs2180314	1.016370389	0.866810051	1.075717023	0.614220143	0.948165104	0.755843525	0.614220143
GSH	ABCC4	rs2182262	1.074905582	0.596534718	1.06356188	0.698763687	1.292980759	0.541558805	0.541558805
Inflammation	PTGS2	rs2206593	0.924475489	0.680900465	0.849863972	0.448592479	2.147442615	0.329910989	0.329910989
Inflammation	IL8	rs2227306	0.995316961	0.962897239	0.93027406	0.639066145	1.082873343	0.650167083	0.639066145
Inflammation	IL8	rs2227543	1.008783661	0.930260879	0.946041149	0.715955745	1.104020228	0.56978676	0.56978676
DNA	XPC	rs2228000	1.240545559	0.055170131	1.228100335	0.139671159	1.660176699	0.072244049	0.055170131
GSH	GSTM3	rs2234696	1.30577119	0.142649344	1.318874747	0.150503318	1.644624906	0.588454704	0.142649344
GSH	GSS	rs2236270	1.097933398	0.358154004	1.095502392	0.530727391	1.190809468	0.363251951	0.358154004
DNA	RAD50	rs2237060	1.031576865	0.762727362	1.176717765	0.270329567	0.84395319	0.380466911	0.270329567
GSH	ABCC1	rs2239330	1.101626034	0.385771799	0.994920885	0.970766894	1.797954127	0.030706944	0.385771799
DNA	LIG1	rs2241721	0.935043884	0.505015383	0.971198019	0.836983256	0.816003256	0.306632624	0.306632624
DNA	RAD50	rs2245176	1.050718362	0.676541336	1.155645272	0.311737254	0.689897228	0.254734322	0.254734322
GSH	GSR	rs22909345	0.929090345	0.532988887	0.961167881	0.780708205	0.705440316	0.289798359	0.289798359
DNA	RRM1	rs2268166	0.845683317	0.461581903	0.775264914	0.294072638	7.868980798	0.201931162	0.201931162
GSH	GCLC	rs2268327	1.260039852	0.507784949	1.27789624	0.489513425	NA	NA	0.489513425
DNA	OGG1	rs2269112	0.931686372	0.594819786	0.887326393	0.429848945	1.253407622	0.598971058	0.429848945
GSH	GSTZ1	rs2270422	1.078442857	0.457796385	1.071815415	0.633842771	1.160032093	0.439086269	0.439086269
GSH	GSS	rs2273684	1.090225261	0.383055064	1.15836827	0.343082581	1.079051092	0.651188077	0.343082581
GSH	ABCC4	rs2274403	1.135291143	0.197443222	1.075810294	0.635319136	1.32626003	0.092593322	0.092593322
GSH	ABCC4	rs2274405	0.948939738	0.634649756	1.035410835	0.807162574	0.691064161	0.1400809	0.1400809
GSH	GSTA4	rs2274760	1.30259463	0.080354021	1.447356009	0.028084077	0.613589141	0.399894966	0.028084077
DNA	PARP	rs2275660	1.000197882	0.998641723	0.941317237	0.670528709	1.32508399	0.358561223	0.358561223
GSH	ABCC3	rs2277624	1.064013848	0.602873725	1.129804668	0.387851134	0.822521229	0.560273027	0.387851134
DNA	PARP	rs2282410	0.951953072	0.630423362	0.993049189	0.967930929	0.63327381	0.373992737	0.373992737
DNA	RRM1	rs2284449	0.708711116	0.356303051	0.708711116	0.356303051	NA	NA	0.356303051
GSH	GSTZ1	rs2287396	1.004067222	0.975241994	0.978775074	0.882688785	1.298272322	0.566200211	0.566200211
GSH	GSTZ1	rs2287397	0.974866139	0.939122294	0.974866139	0.939122294	NA	NA	0.939122294
GSH	ABCC1	rs2299670	0.840880047	0.107209593	0.774502372	0.07064223	0.889774028	0.610443235	0.07064223
GSH	GCLM	rs2301022	0.88906628	0.269140954	0.875822656	0.341718896	0.821580681	0.403258075	0.269140954
DNA	MSH2	rs2303428	0.813493481	0.185813991	0.84952966	0.341209689	0.313652343	0.089603154	0.089603154
DNA	RRM1	rs232045	0.811924128	0.320324306	0.770730808	0.252612306	1.281059769	0.787907928	0.252612306
DNA	RRM1	rs232054	0.850588897	0.102686654	0.823459191	0.197569323	0.785136823	0.16631238	0.102686654
DNA	MSH6	rs2348244	0.902821006	0.453220257	0.902638895	0.503734483	0.779608046	0.594748615	0.453220257
DNA	ERRC2	rs238415	1.006209154	0.950021289	0.953618164	0.742304631	1.104757064	0.590074657	0.590074657
DNA	LIG1	rs2386523	0.949201931	0.589796567	0.867010011	0.357574867	1.0093638	0.954256617	0.357574867
GSH	GPX2	rs2412065	0.931928007	0.547203089	0.934947726	0.637605137	0.637368012	0.569157565	0.547203089
GSH	ABCC3	rs2412333	0.973005254	0.810997174	1.000629296	0.996408687	0.832725993	0.534370894	0.534370894
DNA	MSH3	rs245345	1.07321632	0.453137611	1.145470586	0.369837722	1.050630756	0.776714831	0.369837722
DNA	MSH3	rs245400	1.127194214	0.36531726	1.131380656	0.421732885	1.306709062	0.51005383	0.36531726
GSH	ABCC1	rs246217	0.891358224	0.469398793	0.885808613	0.478971492	0.818248715	0.771725583	0.469398793
GSH	ABCC1	rs246221	0.963626068	0.733794726	0.982348458	0.898054933	0.867969513	0.577580452	0.577580452
GSH	ABCC1	rs246230	1.008168936	0.954227885	1.021867197	0.892753501	0.904071325	0.834159528	0.834159528
DNA	XPC	rs2470353	1.190316572	0.077242724	1.317162896	0.086959456	1.207567347	0.241204193	0.077242724
GSH	ABCC4	rs2487566	1.087161971	0.39908983	1.237446026	0.178336054	0.999239385	0.996319008	0.178336054
DNA	MSH3	rs249633	0.939949124	0.590099901	0.948850968	0.708757725	0.835090723	0.546254802	0.546254802
DNA	XPC	rs2607734	0.912976514	0.367326931	0.927467696	0.59976604	0.818812688	0.305554457	0.305554457
DNA	RAD51	rs2619681	1.142087705	0.311328648	1.17965328	0.277831258	1.102577547	0.809131026	0.277831258
DNA	MSH3	rs26279	1.146848967	0.212202259	1.142023225	0.341073564	1.362644307	0.2355815	0.212202259
DNA	XPC	rs2733537	1.056627634	0.596613943	1.115713938	0.435559722	0.978171672	0.919021701	0.435559722
GSH	GPX2	rs2737844	0.910894314	0.378788139	0.897234745	0.435189572	0.859095459	0.522856322	0.378788139
Inflammation	PTGS2	rs2745557	0.867949909	0.257700751	0.79763015	0.12801443	1.165521888	0.66778701	0.12801443
GSH	ABCC2	rs2756105	1.06368406	0.536285514	1.007956652	0.957581027	1.205619967	0.295979209	0.295979209
GSH	ABCC2	rs2756109	0.795915097	0.025453115	0.769467733	0.081792644	0.705201706	0.057313151	0.025453115
GSH	ABCC4	rs2766482	1.11526936	0.28427068	1.119803327	0.428930673	1.218797765	0.320453491	0.28427068
GSH	ABCC2	rs2804397	0.841222475	0.449239391	0.803850651	0.369651341	1.591080705	0.676567544	0.369651341
DNA	XPA	rs2805835	1.063515737	0.70177851	1.062624669	0.723480539	1.190966937	0.81279731	0.70177851
Inflammation	IL1B	rs2853550	0.99962266	0.999844223	0.995707557	0.983137903	1.112171676	0.916459022	0.916459022
DNA	XRC1	rs2854506	1.100331942	0.407496044	1.200223283	0.19614343	0.834510503	0.550049604	0.19614343
DNA	XRC1	rs2854510	1.04919487	0.895187824	1.030498077	0.835247169	1.244893013	0.534681309	0.534681309
DNA	ABCC1	rs2889517	0.91843219	0.418647022	0.928280693	0.588970093	0.813888128	0.382253375	0.382253375
GSH	ABCC4	rs2892713	0.914627713	0.532174813	0.894956592	0.484617497	1.007242639	0.98880559	0.484617497
GSH	ABCC4	rs2892716	1.0038274	0.970421007	1.005169041	0.971090602	1.004463608	0.982732537	0.970421007
DNA	MSH3	rs2897298	1.208223097	0.216944669	1.191389255	0.293833857	1.966467641	0.27547271	0.216944669
GSH	GSR	rs2911670	1.069778065	0.749025302	1.075989955	0.730175247	2.25E-05	0.977427669	0.730175247
GSH	GSR	rs2978662	0.983228892	0.897269995	1.001663174	0.99097774	0.810552998	0.637563004	0.637563004
GSH	GSR	rs2978663	0.8891387	0.256130709	0.930145743	0.610128436	0.723621883	0.123829281	0.123829281
Inflammation	IL10	rs3021094	1.055812385						

	GSH	GPX3	rs3792796	0.947971172	0.601443806	0.972492094	0.844542914	0.857089381	0.449041396	0.449041396
	DNA	MGMT	rs3793910	0.994265886	0.969699361	0.956458503	0.787731813	1.638694753	0.40758421	0.40758421
Inflammation	IL1RN		rs380092	1.033110815	0.763258089	1.061928253	0.666064613	0.981300376	0.938406662	0.666064613
	GSH	GPX3	rs3805435	1.139076132	0.457370252	1.138542581	0.49914292	1.432325146	0.61118089	0.457370252
	GSH	GPX3	rs3828599	1.026821179	0.811818318	1.039166812	0.785046031	1.015279171	0.955494594	0.785046031
	DNA	MGMT	rs3852507	0.927849349	0.454965194	0.969711613	0.848363403	0.843978835	0.30322331	0.30322331
	DNA	MGMT	rs3858300	1.163513325	0.15387418	1.079452344	0.599269912	1.532353426	0.040984293	0.040984293
	GSH	ABCC1	rs3887893	0.861882066	0.145331994	0.867903393	0.328455512	0.750079948	0.141848772	0.141848772
	DNA	ERC2	rs3918697	1.282109259	0.026265316	1.328085711	0.041430039	1.478322846	0.150051885	0.026265316
Inflammation	IL1RN		rs3921211	1.061306968	0.57781506	1.104029052	0.47574665	1.003771213	0.587530396	0.47574665
	GSH	GSTA4	rs405729	1.06555885	0.522041634	1.170200649	0.310042318	0.996601775	0.983961272	0.310042318
	GSH	GSTP1	rs4147581	0.937272983	0.514606796	0.925299714	0.628072004	0.910301622	0.564463645	0.514606796
	GSH	ABCC1	rs4148350	0.802481965	0.292766972	0.819044228	0.365743179	0.31193364	0.330986453	0.292766972
	GSH	ABCC2	rs4148398	1.077471675	0.475877531	1.010629826	0.940924738	1.321047618	0.185798164	0.185798164
	GSH	ABCC3	rs4148412	1.04485399	0.669178392	1.031490908	0.826241423	1.119444031	0.587603212	0.587603212
	GSH	ABCC4	rs4148424	0.998244491	0.988252306	0.948559973	0.709653418	1.317200024	0.406349822	0.406349822
	GSH	ABCC4	rs4148434	1.071417091	0.493102953	1.091881648	0.530087652	1.102688055	0.633464675	0.493102953
	GSH	ABCC4	rs4148446	1.021176478	0.832157771	1.138612601	0.372246638	0.873440731	0.462515655	0.372246638
	GSH	ABCC4	rs4148482	0.953472649	0.663746765	1.032035196	0.820439877	0.694114705	0.156985644	0.156985644
	GSH	ABCC4	rs4148512	1.122859603	0.341661791	1.121492483	0.422896424	1.313766745	0.438001514	0.341661791
	GSH	ABCC4	rs4148527	0.941841714	0.638941406	0.897889099	0.459719045	1.271437044	0.559447404	0.459719045
	GSH	ABCC4	rs4148535	0.871037238	0.236589101	0.783706771	0.085520834	1.210873892	0.535830895	0.085520834
	DNA	LIG1	rs416844	1.05213162	0.605239638	0.98778444	0.936042591	1.178917151	0.329239517	0.329239517
Inflammation	IL1RN		rs4252041	0.613063448	0.053377546	0.650905006	0.112224192	7.10E-07	0.965249434	0.053377546
	GSH	ABCC4	rs4283094	0.976031196	0.801407021	1.056917027	0.730250118	0.889806508	0.456597337	0.456597337
	GSH	GPX5	rs440481	1.130279506	0.345495446	1.131624257	0.414340119	1.337488185	0.459220277	0.345495446
	GSH	GPX5	rs445870	1.120717305	0.27503445	1.051560611	0.1717036956	1.506335492	0.073805768	0.073805768
	DNA	MSH2	rs4608577	1.10144988	0.466635367	1.083394298	0.589976719	1.469292641	0.395049646	0.395049646
	GSH	ABCC4	rs4636781	0.949516891	0.693933018	0.997031099	0.984477795	0.617502403	0.248792886	0.248792886
Inflammation	PTGS2		rs4648261	1.003834079	0.988107858	1.007797636	0.975989959	NA	NA	0.975989959
Inflammation	PTGS2		rs4648307	0.957861978	0.766222319	0.931888154	0.667655423	1.14183159	0.784647393	0.667655423
	GSH	GCLC	rs4712035	1.358921486	0.017636406	1.341932112	0.048099172	2.30443161	0.041592007	0.017636406
	GSH	GPX8	rs4713167	1.117794335	0.31105085	1.037962312	0.788289825	1.489802289	0.078962775	0.078962775
	GSH	GSTA5	rs4715352	1.011304799	0.924507319	1.034012404	0.814111895	0.913985635	0.781989584	0.781989584
	GSH	GSTA5	rs4715353	0.941979436	0.536857326	0.861593291	0.309828874	1.016532236	0.925077534	0.309828874
	GSH	GSTA5	rs4715354	1.064040719	0.517375736	1.1117472	0.492990572	1.062031906	0.709073807	0.492990572
	DNA	MGMT	rs4750761	1.056682607	0.614811749	1.2203984	0.152411154	0.685729984	0.145975617	0.145975617
	DNA	MGMT	rs4750764	0.961152266	0.681408363	0.965538482	0.815654908	0.926186844	0.648951919	0.648951919
	DNA	MGMT	rs4750765	1.012986726	0.899137948	0.945728029	0.688999413	1.204813727	0.381194634	0.381194634
	DNA	MGMT	rs4750768	0.949734279	0.618530563	0.969502089	0.824614147	0.855496225	0.479168674	0.479168674
	DNA	MGMT	rs4751107	1.063472664	0.581983891	1.124865399	0.396378157	0.91508529	0.745111793	0.396378157
	GSH	ABCC4	rs4773844	0.998336191	0.989169078	0.915600244	0.539636035	1.704621097	0.138566206	0.138566206
	GSH	ABCC4	rs4773856	1.005141063	0.963086308	0.939898884	0.659035728	1.294297106	0.3378509	0.3378509
	GSH	ABCC4	rs4773867	0.736622865	0.040171114	0.734286898	0.063232166	0.464385085	0.164771549	0.040171114
	GSH	ABCC1	rs4780589	0.955230023	0.666030423	0.970740515	0.830534367	0.866247888	0.547710964	0.547710964
	GSH	ABCC1	rs4781701	0.995680369	0.972187408	0.908994694	0.515049228	1.775004444	0.123504858	0.123504858
	GSH	ABCC3	rs4794173	0.999658878	0.997582857	1.002958942	0.983057779	0.986170776	0.960125159	0.960125159
	DNA	MSH2	rs4952887	0.94105507	0.73016813	0.952996769	0.796261581	0.634717762	0.618232669	0.618232669
	DNA	ERC2	rs50871	1.153574754	0.151516723	1.312921459	0.085736907	1.101754439	0.559195045	0.085736907
	DNA	ERC2	rs50872	0.953217489	0.677648666	0.993486175	0.96284691	0.743858558	0.328550555	0.328550555
	GSH	GCLC	rs510088	1.054465514	0.617917739	0.996247708	0.97839987	1.318225958	0.245415468	0.245415468
	DNA	MGMT	rs511361	0.984578965	0.878507734	1.006280713	0.967402604	0.945731793	0.753400914	0.753400914
	GSH	GSTA3	rs512795	0.912330809	0.627846702	0.947043001	0.784620556	0.272171455	0.262965315	0.262965315
Inflammation	PTGS2		rs5275	1.000917412	0.99298807	1.017416115	0.902125611	0.963053107	0.863004133	0.863004133
Inflammation	PTGS2		rs5277	1.039557079	0.766267293	1.006017334	0.988119418	1.40776924	0.409201281	0.409201281
	GSH	GCLC	rs4429114	0.783623007	0.016837505	0.754491926	0.052662572	0.680643346	0.049409086	0.016837505
	GSH	GSTA1	rs557135	0.891831053	0.257565006	0.952719345	0.729976234	0.69021582	0.07367528	0.07367528
	GSH	GSTM1	rs560018	0.958620896	0.667698935	0.806446481	1.129885909	1.257892836	0.228525492	0.129885909
	GSH	GSTO2	rs568526	1.203695085	0.068224944	1.317324886	0.049883171	1.192861777	0.40046503	0.049883171
	DNA	MGMT	rs569235	0.989480236	0.917428621	1.132446867	0.444000773	0.851744456	0.338160146	0.338160146
	GSH	GCLC	rs574389	0.844438349	0.089288618	0.79437905	0.134598097	0.805606065	0.206570242	0.089288618
	GSH	GCLC	rs600033	0.83064353	0.062801488	0.781959925	0.109829655	0.78269517	0.153956529	0.062801488
	GSH	GSS	rs6060127	1.146439934	0.179659348	1.257988286	0.101517382	1.067280936	0.756041574	0.101517382
	GSH	GCLC	rs606548	0.843184128	0.441353096	0.901900762	0.670682865	0.203532697	0.155907409	0.155907409
	GSH	GSS	rs6088659	0.770218714	0.057948216	0.826404356	0.215519808	0.2303308656	0.010623423	0.010623423
	GSH	GSTA3	rs614765	0.857678847	0.595617465	0.859210579	0.600871863	NA	NA	0.595617465
	DNA	MSH3	rs6151627	0.854649354	0.157335626	0.7970064	0.104049941	0.925812347	0.771261057	0.104049941
	DNA	MSH3	rs6151665	0.995339662	0.977566876	1.043781975	0.813059633	0.492919545	0.326130709	0.326130709
	DNA	MSH3	rs6151735	1.145669207	0.453721894	1.176523851	0.388920078	0.532459031	0.61389645	0.388920078
	GSH	GSTO1	rs628480	0.890902298	0.714614603	0.840757178	0.597719897	NA	NA	0.597719897
	DNA	RAD52	rs6413436	0.886183242	0.240022133	0.89464553	0.443499371	0.78789737	0.226634297	0.226634297
	GSH	GCLC	rs642429	0.9349185	0.601998284	0.949113342	0.737962514	0.778209736	0.491211783	0.491211783
	GSH	ABCC4	rs6492763	0.952933881	0.641526753	1.103842162	0.491211812	0.674947733	0.058292877	0.058292877
	GSH	ABCC4	rs6492768	1.060167522	0.611685656	1.029238592	0.837370936	1.2994886	0.378916972	0.378916972
	GSH	GSTM4	rs650985	0.921615375	0.68994344	0.968087719	0.878491432	1.35E-06	0.966981484	0.68994344
	GSH	GSTA4	rs654144	1.063424656	0.728499917	1.058478951	0.762031178	1.30886093	0.761142573	0.728499917
	GSH	GSTA2	rs6577	1.116756505	0.609546189	1.169024686	0.493116558	0.414017539	0.472068721	0.472068721
	GSH	GCLC	rs670548	0.873390426	0.181475508	0.722991036	0.022870677	1.116640249	0.578417124	0.022870677
Inflammation	PTGS2	rs689470	1.955537048	1.955537048	0.084065512	1.955537048	0.084065512	NA	NA	0.084065512
	GSH	GSTA4	rs6904769	0.953128977	0.762396891	1.0596959	0.739329751	0.184101753	0.032668824	0.032668824
	GSH	GSTA4	rs6904771	0.989583132	0.789236041	0.821110163	0.855256611	NA	NA	0.855256611
	DNA	MGMT	rs7068301	1.002430083	0.980556381	1.08875637	0.554127732	0.868177964	0.460225736	0.460225736
	DNA	MGMT	rs7073225	0.952993922	0.677560082	1.009037501	0.949717373	0.690610011	0.22668282	0.22668282
	DNA	MGMT	rs7080419	1.003801513	0.969697372	1.181604542	0.26468599	0.795810369	0.204606793	0.204606793
	DNA	MGMT	rs7087131	0.946595805	0.866835609	0.983471189				

DNA	MGMT	rs913119	1.052129508	0.607053315	0.948533116	0.734061731	1.228114527	0.217996467	0.217996467
GSH	GSTM5	rs929166	0.991115213	0.932601423	0.885077376	0.380325976	1.355994487	0.196258811	0.196258811
GSH	ABCC4	rs943288	0.873712352	0.348994378	0.888274266	0.460179021	0.590622653	0.325908422	0.325908422
GSH	GSTA3	rs9474339	0.968654243	0.930178758	0.968654243	0.930178758	NA	NA	0.930178758
DNA	PARP	rs9507355	1.004420573	0.963934826	1.144862659	0.377868717	0.862172221	0.37622694	0.37622694
DNA	PARP	rs9511308	1.016015962	0.891455712	1.06011845	0.677465707	0.840569966	0.578117004	0.578117004
GSH	ABCC4	rs9516530	0.868475913	0.202918485	0.867090537	0.305091502	0.745303621	0.272086104	0.202918485
GSH	ABCC4	rs9516546	1.003890314	0.971084098	0.989119437	0.937330885	1.053621288	0.827881937	0.827881937
GSH	ABCC4	rs9524821	1.050472951	0.63013507	1.186287559	0.244380448	0.887335336	0.534078043	0.244380448
GSH	ABCC4	rs9524822	1.23489351	0.103530003	1.341056892	0.048061778	0.882597723	0.761072442	0.048061778
GSH	ABCC4	rs9524858	1.016385312	0.873251473	1.044453441	0.759368313	0.975944598	0.904464974	0.759368313
GSH	ABCC4	rs9524885	1.088579537	0.731170433	1.105507995	0.690423327	9.22E-06	0.978935858	0.690423327
GSH	ABCC4	rs9561784	1.043267231	0.713417788	1.072892029	0.615313593	0.963442441	0.902190372	0.615313593
GSH	ABCC4	rs9561797	1.121391011	0.28154246	1.118232421	0.421553514	1.27562465	0.303996026	0.28154246
DNA	PARP	rs9578747	0.963801038	0.813294799	0.924411695	0.641533519	1.721794322	0.412137851	0.412137851
DNA	PARP	rs9581094	1.04175972	0.765045662	1.040503056	0.791014009	1.119848692	0.828450694	0.765045662
GSH	ABCC4	rs9590216	1.010536204	0.937765607	0.931570054	0.640471133	2.092898802	0.101893742	0.101893742
DNA	RAD52	rs9634161	1.055163187	0.677831338	1.056327246	0.714742992	1.127596162	0.760184432	0.677831338
GSH	ABCC4	rs9634642	0.983893735	0.867210478	1.016745289	0.91293349	0.933617143	0.682318641	0.682318641
GSH	GPX6	rs974334	1.074807844	0.571318597	1.079074431	0.610128744	1.159898567	0.69624709	0.571318597
DNA	MLH1	rs9852378	1.091122666	0.374091654	0.944415038	0.700089534	1.429685465	0.041695542	0.041695542