

Supplementary Table E3. SNP-Based Analyses for COPD Patients without 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	1.112705078	0.389638362	0.984203964	0.930509777	1.453254211	0.089741688	0.089741688
GSH	GSTM4	rs1010167	1.174370075	0.185412153	1.226258959	0.261594845	1.265899006	0.29034588	0.185412153
Inflammation	LTA	rs1041981	0.889512266	0.386511294	0.868915865	0.427769046	0.848085524	0.571603005	0.386511294
GSH	GSTZ1	rs1046428	0.889307708	0.464086222	0.830013501	0.319061095	1.35401178	0.570267187	0.319061095
GSH	GP1	rs1047635	0.77494757	0.042591589	0.677890106	0.037954535	0.7672720485	0.33176849	0.037954535
DNA	APEX1	rs1048945	1.389966611	0.225970066	1.407857061	0.213889048	1.19E-05	0.385495597	0.213889048
GSH	GSTO2	rs10491045	0.601338743	0.097255982	0.601338743	0.097255982	NA	NA	0.097255982
GSH	ABCC4	rs10508017	0.992896488	0.954026367	0.91501282	0.646010485	1.084738837	0.693716189	0.646010485
GSH	ABCC4	rs10508023	0.792117133	0.265835409	0.768318256	0.247542209	0.824875174	0.815835315	0.247542209
GSH	ABCC3	rs1051640	0.878571913	0.435411027	0.854318521	0.401011505	0.931579899	0.894907305	0.401011505
DNA	RAD52	rs1051669	1.01526097	0.916131083	1.092998405	0.617327307	0.741390676	0.447467749	0.447467749
DNA	MGMT	rs10741191	1.237364434	0.098054135	1.368976916	0.098439489	1.244285989	0.349942156	0.098054135
DNA	MGMT	rs10741198	0.86617535	0.352628541	0.897169683	0.533928057	0.753899426	0.322287192	0.322287192
DNA	RAD52	rs10744729	1.055047229	0.658680757	1.099234698	0.617382432	1.045116284	0.835014322	0.617382432
DNA	MGMT	rs10764901	1.151593131	0.32202035	1.228276667	0.237956892	1.015378889	0.967367424	0.237956892
GSH	GSTA1	rs10948723	0.889476173	0.357115835	0.94738758	0.772150658	0.730691982	0.191812432	0.191812432
DNA	MGMT	rs11016879	0.851757121	0.207733068	0.711261235	0.054832737	1.043368828	0.980825636	0.054832737
DNA	MGMT	rs11016884	1.033371068	0.803195543	1.091887131	0.613002067	0.912502919	0.761251094	0.613002067
DNA	MGMT	rs11016887	0.936227126	0.690431682	0.87883762	0.504068238	1.288027284	0.594989178	0.504068238
DNA	RAD52	rs11064607	0.936375521	0.60450544	0.919210884	0.652217247	0.915510446	0.700803854	0.60450544
GSH	ABCC1	rs11075295	0.902754232	0.548701368	0.90484099	0.603377706	0.758827133	0.639334815	0.548701368
GSH	ABCC2	rs11190291	1.282075841	0.105990102	1.339632948	0.102329085	1.329241521	0.536083449	0.102329085
GSH	GSTO1	rs11191975	0.783238653	0.258475317	0.812438204	0.353712172	8.31E-07	0.977601465	0.258475317
GSH	GSTO2	rs11191990	0.660883167	0.297370311	0.561697688	0.301293743	NA	NA	0.297370311
DNA	XPC	rs1124303	0.907293075	0.682563935	0.938436869	0.795872075	1.39E-06	0.980057453	0.682563935
GSH	GSTP1	rs1138272	0.755459126	0.220456882	0.78540613	0.30944594	7.04E-07	0.978447002	0.220456882
Inflammation	IL1B	rs1143627	1.013655592	0.918047338	0.982181185	0.918768566	1.107338481	0.707414501	0.707414501
Inflammation	IL1B	rs1143630	1.765570145	0.01442338	1.72220056	0.029701509	6.061252761	0.050358077	0.01442338
Inflammation	IL1B	rs1143633	1.108336649	0.428879118	1.07821446	0.676580128	1.305178921	0.310424861	0.310424861
Inflammation	IL1B	rs1143634	0.852339267	0.28682088	0.851714855	0.362412787	0.699527318	0.413575715	0.28682088
GSH	GSTO1	rs1147611	1.129146477	0.339239992	1.212937587	0.27375359	1.089355159	0.74518728	0.27375359
GSH	GSTO1	rs11509438	1.15595474	0.682865257	1.15595474	0.682865257	NA	NA	0.682865257
DNA	MGMT	rs11511217	1.037904152	0.791542648	1.098801246	0.591102814	0.85980917	0.676751547	0.591102814
GSH	ABCC4	rs11568643	1.009692231	0.966514103	1.051956195	0.831736708	2.26E-06	0.975776187	0.831736708
GSH	ABCC4	rs11568658	0.740699451	0.429930675	0.770787155	0.514393167	1.29E-06	0.982651169	0.429930675
GSH	ABCC4	rs11568663	0.926791204	0.694188704	0.854721729	0.46323219	1.969489262	0.294600338	0.294600338
DNA	MGMT	rs11592158	0.928591979	0.623036821	0.921382992	0.649187075	0.878429661	0.757518265	0.623036821
GSH	ABCC2	rs11597282	0.993150476	0.9843731	0.993150476	0.9843731	NA	NA	0.9843731
DNA	ERCC1	rs11615	1.214618964	0.127804826	1.141762046	0.467463599	1.598722113	0.048500282	0.048500282
GSH	GSTM5	rs117807	1.010905936	0.942828988	0.924737023	0.666192479	1.008460096	0.225690536	0.225690536
DNA	MGMT	rs11813066	0.815131595	0.268789059	0.768581652	0.202121006	1.04329178	0.943864093	0.202121006
DNA	MGMT	rs11813383	1.105434407	0.582929534	1.172563215	0.408419074	0.575635438	0.486086665	0.408419074
DNA	PARP	rs11842915	1.529287469	0.006425592	1.564938184	0.015224778	2.310540769	0.053398966	0.006425592
GSH	ABCC1	rs11864374	0.106800965	0.634394314	1.055748292	0.758165376	1.215554115	0.566352419	0.566352419
GSH	ABCC4	rs1189428	0.999372594	0.995987385	0.913068631	0.627519277	1.129193847	0.576323879	0.576323879
GSH	ABCC4	rs1189446	1.392030536	0.037447286	1.425416264	0.051369785	1.781857195	0.237951167	0.037447286
GSH	ABCC4	rs1189457	1.020650561	0.873093135	1.077878796	0.691385825	0.954082951	0.840564385	0.691385825
GSH	ABCC4	rs1189465	0.908159442	0.439891102	1.064032474	0.739586648	0.648136839	0.072831944	0.072831944
GSH	ABCC4	rs1189470	1.075499558	0.636053979	1.009157762	0.960507692	1.652660912	0.217933714	0.217933714
GSH	GSTA3	rs11961374	1.241354537	0.659896963	1.241354537	0.659896963	NA	NA	0.659896963
GSH	GSTA1	rs11969435	0.900692885	0.40887775	0.95356423	0.798774686	0.756375639	0.239860975	0.239860975
DNA	MGMT	rs12219606	0.89244416	0.362025263	0.995464224	0.979849498	0.651846906	0.091454118	0.091454118
DNA	MGMT	rs12220782	0.81608587	0.138185052	0.845686255	0.335747872	0.557167852	0.084977144	0.084977144
DNA	MGMT	rs12243174	0.863920754	0.328449552	0.822964821	0.285886313	0.89453011	0.775470311	0.285886313
DNA	MGMT	rs12256667	0.958481034	0.848607856	0.872129506	0.484521326	1.854678421	1.98721625	0.848607856
GSH	GSTM4	rs12405275	0.946316232	0.860449499	0.948752917	0.867290618	NA	NA	0.860449499
DNA	MGMT	rs12413023	1.060691434	0.619957828	1.082219471	0.670685824	1.086190805	0.693052266	0.619957828
DNA	MSH3	rs12513549	1.35265597	0.116042752	1.196363434	0.401123038	8.684255971	0.002625007	0.002625007
DNA	MSH3	rs12522132	1.386559554	0.067194388	1.274491351	0.231612819	4.486743627	0.008542324	0.008542324
GSH	GCLC	rs12524494	0.61123453	0.112203498	0.56738764	0.093742566	0.718511307	0.776583643	0.093742566
GSH	GCLC	rs12524500	0.597856774	0.017861284	0.597856774	0.017861284	NA	NA	0.017861284
GSH	GCLC	rs12525474	1.182613592	0.353093603	1.153354369	0.484271177	1.916985298	0.281025996	0.281025996
GSH	GSTM5	rs12743015	1.432818013	0.332827403	1.432818013	0.332827403	NA	NA	0.332827403
DNA	MGMT	rs12763287	1.201203355	0.254159686	1.168304025	0.414583958	1.857417371	0.178116704	0.178116704
DNA	RRM1	rs12806698	1.038314432	0.790075897	0.984149571	0.926859834	1.334778587	0.392390414	0.392390414
DNA	RAD52	rs12827646	1.084605523	0.629849096	1.090166524	0.652924254	1.170446789	0.775315266	0.629849096
DNA	MGMT	rs12917	0.910756723	0.610651793	0.915355416	0.653004379	0.722258403	0.696452602	0.610651793
GSH	ABCC1	rs12924212	0.978820349	0.862067957	0.856036547	0.387407596	1.187060301	0.443003494	0.387407596
DNA	MSH2	rs12998837	0.87717476	0.485305597	0.885642493	0.552451674	0.615785949	0.546856494	0.485305597
DNA	ERCC2	rs13181	1.005866202	0.962875049	1.057613764	0.753717102	0.917898634	0.731683713	0.731683713
GSH	GSTM3	rs1332018	1.172792398	0.206703475	1.1164211	0.56161279	1.409439187	0.116496685	0.116496685
GSH	ABCC1	rs152022	1.060159491	0.686135526	1.135377144	0.485637837	0.86322617	0.701692752	0.485637837
GSH	ABCC1	rs152023	1.028149348	0.829695938	1.254960873	0.19635248	0.616505425	0.114515634	0.114515634
GSH	ABCC1	rs152028	1.152127641	0.283684558	1.262292848	0.184689992	1.039621993	0.895288203	0.283684558
GSH	ABCC3	rs1541392	1.13982861	0.460548874	1.088586494	0.670528366	2.043829148	0.203416806	0.203416806
GSH	ABCC4	rs1564351	0.935684095	0.762033464	0.930269498	0.753320899	0.981050949	0.987103943	0.753320899
GSH	GSTO2	rs156599	1.02702218	0.840295665	0.992619698	0.966173547	1.161120021	0.602928871	0.840295665
GSH	GSTO2	rs157077	1.012243436	0.920977291	1.171473198	0.39426328	0.820220999	0.390502575	0.390502575
GSH	GSTO2	rs157080	1.033920834	0.80038554	1.004387495	0.97998858	1.161120025	0.602928871	0.602928871
DNA	OGG1	rs159154	1.128339566	0.338348357	1.207894456				

GSH	GSS	rs2025096	1.431334709	0.014775936	1.484864276	0.026832471	1.879268358	0.10254927	0.014775936
DNA	MGMT	rs2026975	1.119843524	0.399419238	1.148650269	0.42525831	1.173569196	0.604918078	0.399419238
DNA	MGMT	rs2026976	1.055091047	0.681129828	1.023271549	0.895690473	1.196055411	0.50698821	0.50698821
GSH	GPX5	rs2064424	0.928900586	0.74467466	0.893435042	0.647821633	1.41854262	0.688940125	0.647821633
Inflammation	IL6	rs2066992	0.86478569	0.623261238	0.888121495	0.696058165	3.14E-06	0.977930619	0.623261238
Inflammation	IL6	rs2069835	0.854070571	0.563481716	0.896717914	0.701758987	1.24E-06	0.977456285	0.563481716
Inflammation	IL6	rs2069840	1.193192246	0.175075222	1.344184559	0.098814964	1.075242861	0.789344629	0.098814964
Inflammation	IL6	rs2069843	1.430428454	0.348503883	1.595023142	0.23871785	NA	NA	0.23871785
Inflammation	IL6	rs2069852	1.057446803	0.886487358	1.057446803	0.886487358	NA	NA	0.886487358
Inflammation	IL6	rs2069861	0.78016182	0.180002035	0.803264095	0.31080196	7.58E-07	0.371905054	0.180002035
DNA	MSH6	rs2072447	0.908677053	0.502480664	0.918130263	0.627376678	0.770857327	0.485248504	0.485248504
DNA	OGG1	rs2072668	0.9639467	0.808301697	0.974765463	0.886174192	0.857698117	0.729512581	0.729512581
GSH	ABCC1	rs2074085	1.061193005	0.768432068	0.983784396	0.942460899	2.395837134	0.18120483	0.18120483
GSH	GPX6	rs2078439	0.97574437	0.911599077	0.948077938	0.824425332	1.41854262	0.688940125	0.688940125
GSH	GCLC	rs2100375	0.70111005	0.104251149	0.737918745	0.083757527	0.328027273	0.01249994	0.01249994
GSH	ABCC1	rs212081	1.006441304	0.959806893	1.038045398	0.835707352	0.953856212	0.86040819	0.835707352
GSH	ABCC1	rs212082	1.149754572	0.378076443	1.140730363	0.47132185	1.456008911	0.42645785	0.378076443
GSH	ABCC1	rs212087	0.880436952	0.330151455	0.806753108	0.237500252	0.936754144	0.791881584	0.237500252
GSH	ABCC1	rs215100	0.927378526	0.561155942	1.021967217	0.900639759	0.650794033	0.152116212	0.152116212
GSH	ABCC1	rs215101	1.020838074	0.908670395	1.028429128	0.887683231	0.966767216	0.960408365	0.887683231
GSH	GSTO1	rs2164624	1.094854542	0.534089617	1.051078213	0.778279808	1.285349435	0.369109266	0.369109266
GSH	ABCA2	rs2181314	0.879675218	0.300176891	0.906152467	0.583474097	0.740338152	0.214033662	0.214033662
GSH	ABCC4	rs2182262	1.069820697	0.697805702	1.108770183	0.605610245	0.889087577	0.841538951	0.605610245
Inflammation	PTGS2	rs2206593	1.190727946	0.435565157	1.147162263	0.579412162	2.574963195	0.281017472	0.281017472
Inflammation	IL8	rs2227306	1.056290653	0.66228746	0.9168914	0.650226956	1.310334644	0.202404573	0.202404573
Inflammation	IL8	rs2227543	1.061091521	0.631667482	0.956067249	0.81188736	1.263113418	0.267296036	0.267296036
DNA	XPC	rs2228000	1.003413249	0.981431238	1.065564886	0.716402445	0.726017521	0.449164746	0.449164746
GSH	GSTM3	rs2234696	1.201024767	0.410184152	1.129215844	0.617263174	3.763348707	0.122010088	0.122010088
GSH	GSS	rs2236270	1.318992279	0.028511866	1.498801974	0.031629457	1.351764411	0.190439038	0.028511866
DNA	RAD50	rs2237060	1.036586681	0.769125464	0.900105273	0.558824539	1.324467285	0.201077353	0.201077353
GSH	ABCC1	rs2239330	0.91197565	0.524643885	0.853579461	0.365130813	1.103241305	0.782683655	0.365130813
DNA	LIG1	rs2241721	0.97688883	0.848621013	0.937411098	0.716122574	1.026439489	0.910767922	0.716122574
DNA	RAD50	rs2245176	0.93528525	0.851584025	0.95857175	0.806233012	0.769921321	0.510996191	0.510996191
GSH	GSR	rs2250192	1.01299921	0.929768533	1.046090527	0.798995195	0.876013751	0.42818543	0.742818543
DNA	RRM1	rs2268166	0.505648038	0.059659643	0.505683577	0.059905749	NA	NA	0.059659643
GSH	GCLC	rs2268327	1.286372561	0.565974701	1.318548643	0.538115465	NA	NA	0.538115465
DNA	OGG1	rs2269112	0.846788229	0.341585573	0.811233628	0.28159203	1.023786058	0.968208591	0.28159203
GSH	GSTZ1	rs2270422	1.052284423	0.688663968	1.016437611	0.928558949	1.164068179	0.521125287	0.521125287
GSH	GSS	rs2273684	1.348712621	0.014821326	1.505761593	0.042748243	1.48170074	0.049336344	0.014821326
GSH	ABCC4	rs2274403	1.278714109	0.049697748	1.31016643	0.18283174	1.462245849	0.060012322	0.049697748
GSH	ABCC4	rs2274405	0.930900978	0.60288543	0.949410059	0.773081012	0.814251669	0.510323401	0.510323401
GSH	GSTA4	rs2274760	1.07161463	0.718125356	1.208072814	0.377795883	0.238371098	0.175629817	0.175629817
DNA	PARP	rs2275660	0.87551173	0.376505342	0.866402162	0.42241264	0.778934472	0.558948049	0.376505342
GSH	ABCC3	rs2277624	0.811498185	0.175963715	0.795215766	0.207698021	0.693646098	0.410650606	0.175963715
DNA	PARP	rs2282410	1.064761096	0.626384565	1.191629625	0.334912783	0.302729511	0.690487748	0.334912783
DNA	RRM1	rs2284449	0.749560651	0.546278036	0.749560651	0.546278036	NA	NA	0.546278036
GSH	GSTZ1	rs2287396	1.167832393	0.322210466	1.101778711	0.593060836	2.054286689	0.10504772	0.10504772
GSH	GSTZ1	rs2287397	1.393208061	0.379285264	1.393208061	0.379285264	NA	NA	0.379285264
GSH	ABCC1	rs2299670	0.847388296	0.213856179	0.744910283	0.09323822	1.004663941	0.986452931	0.09323822
GSH	GCLM	rs2301022	0.990243319	0.939715364	0.938814554	0.717285531	1.117492471	0.681376055	0.681376055
DNA	MSH2	rs2303428	0.929880064	0.698448056	0.949868383	0.808239831	0.669278296	0.556705789	0.556705789
DNA	RRM1	rs232045	0.678907042	0.179764752	0.643611647	0.154050017	0.93422252	0.966474492	0.154050017
DNA	RRM1	rs232054	0.852669827	0.197354901	0.742640134	0.107670496	0.911947276	0.671703667	0.107670496
DNA	MSH6	rs2348244	1.012221978	0.943059154	1.030294286	0.87578061	0.870074669	0.816685331	0.816685331
DNA	ERCC2	rs238415	0.826454595	0.136585955	0.815773665	0.256662233	0.711869455	0.1848265	0.136585955
DNA	LIG1	rs2386253	0.992815123	0.952109285	0.926665241	0.697569652	1.059005035	0.771118294	0.697569652
GSH	GPX2	rs2412065	0.715662303	0.034713571	0.756557224	0.127474833	0.257383852	0.02831413	0.02831413
GSH	ABCC3	rs2412333	1.171262595	0.265907552	1.268891704	0.177743004	0.103672527	0.969740826	0.177743004
DNA	MSH3	rs245345	0.951921017	0.697095782	0.920407508	0.658581673	0.962826869	0.867266473	0.658581673
DNA	MSH3	rs245400	1.003781136	0.982048346	1.003105643	0.987163357	1.014512782	0.978419431	0.978419431
GSH	ABCC1	rs246217	1.226046388	0.267046252	1.237063713	0.290474494	1.494796348	0.573054055	0.267046252
GSH	ABCC1	rs246221	1.080018388	0.55304792	0.967474513	0.848982019	1.554017389	0.103933873	0.103933873
GSH	ABCC1	rs246230	1.164571902	0.38125314	1.208497381	0.334590836	1.037910489	0.951480997	0.334590836
DNA	XPC	rs2470353	1.071404576	0.573546691	1.09152431	0.601466977	1.083838406	0.69211724	0.573546691
GSH	ABCC4	rs2487566	0.989951212	0.933379801	0.964448193	0.850008129	1.012427474	0.952028195	0.850008129
DNA	MSH3	rs249633	0.934992835	0.643361408	0.872366769	0.441230105	1.167299794	0.668231138	0.441230105
DNA	XPC	rs2607734	0.939340086	0.618159315	0.951751224	0.784353594	0.867975907	0.558462502	0.558462502
DNA	RAD51	rs2619681	1.018407086	0.914507044	1.053118973	0.790338044	0.791381427	0.687411695	0.687411695
DNA	MSH3	rs26279	1.251164787	0.101744108	1.291434981	0.137173608	1.403754542	0.275027203	0.101744108
DNA	XPC	rs2733537	0.969846003	0.815953244	1.050973758	0.776384193	0.753954266	0.340784718	0.340784718
GSH	GPX2	rs2737844	0.8289018	0.166712724	0.865409613	0.406678966	0.554055972	0.092482011	0.092482011
Inflammation	PTGS2	rs2745557	1.004219534	0.978381954	0.923435106	0.669006696	1.561756391	0.275258715	0.275258715
GSH	ABCC2	rs2756105	1.014157636	0.910475436	0.878609371	0.480993053	1.264702522	0.286434146	0.286434146
GSH	ABCC2	rs2756109	0.785952221	0.057854358	0.689932243	0.043480805	0.797539183	0.326506276	0.043480805
GSH	ABCC4	rs2766482	0.992997563	0.956659592	1.010920892	0.951631673	0.950837472	0.845538551	0.845538551
GSH	ABCC2	rs2804397	0.889364501	0.682384664	0.860777525	0.623995784	1.407774164	0.796907169	0.623995784
DNA	XPA	rs2805835	1.147584078	0.47663607	1.129953055	0.561774272	1.742636378	0.462556707	0.462556707
Inflammation	IL1B	rs2853550	1.477990099	0.066128186	1.385240288	0.168279773	5.490886461	0.023423512	0.023423512
DNA	XRCC1	rs2854506	0.935664857	0.659687812	1.003227285	0.985741377	0.566488555	0.222607646	0.222607646
DNA	XRCC1	rs2854510	0.930159103	0.643311073	0.908204145	0.598689391	0.980208976	0.964815041	0.598689391
DNA	MSH3	rs289517	1.055903814	0.881921863	1.133892452	0.470186533	0.915896225	0.765054764	0.470186533
GSH	ABCC4	rs2892713	0.703655441	0.070406488	0.686223561	0.073371318	0.576239882	0.490980362	0.070406488
GSH	ABCC4	rs2892716	1.236870211	0.09041291	1.158087144	0.418991953	1.63734737	0.030797662	0.030797662
DNA	MSH3	rs2897298	1.400065229	0.059647964	1.290239403	0.209525285	4.478745668	0.008578938	0.008578938
GSH	GSR	rs2911670	0.823496157	0.492989506	0.777691066	0.395447717	3.573564048	0.393901622	0.393901622
GSH	GSR	rs2978662	0.968457715	0.84274681	0.88401992	0.50704312	1.743335095	0.23100493	0.23100493
GSH	GSR	rs2978663	1.037284851	0.773774935	1.062195506	0.735489483	1.02283237	0.928520226	0.735489483
Inflammation	IL10	rs30210							

GSH	GPX3	rs3792796	0.991718193	0.94822329	1.002292406	0.989806887	0.963878148	0.884341331	0.884341331
DNA	MGMT	rs3793910	1.181208226	0.360603312	1.21476316	0.322867321	0.98036402	0.980620653	0.322867321
Inflammation	IL1RN	rs380092	1.072317713	0.597560291	1.058596166	0.746043907	1.185882018	0.541203784	0.541203784
GSH	GPX3	rs3805435	1.527979328	0.031111617	1.608581676	0.032081929	1.883258926	0.369598346	0.031111617
GSH	GPX3	rs3828599	1.07760219	0.59344805	1.160865893	0.397538227	0.883166557	0.727858441	0.397538227
DNA	MGMT	rs3852507	1.024391239	0.847042608	0.993516632	0.974591035	1.070832997	0.732089242	0.732089242
DNA	MGMT	rs3858300	1.131694183	0.347062613	0.980562681	0.913358848	1.637851968	0.044057123	0.044057123
GSH	ABCC1	rs3887893	1.014096056	0.910150524	0.945050584	0.756023517	1.145268395	0.584046653	0.548046653
DNA	ERCC2	rs3916874	1.40316035	0.015151778	1.563729461	0.010781191	1.343603475	0.383013463	0.010781191
Inflammation	IL1RN	rs3937211	1.101031578	0.470042413	1.172690941	0.36248824	1.014760872	0.968079983	0.36248824
GSH	GSTA4	rs4057529	1.056678943	0.656413102	1.218337314	0.31365124	0.926244105	0.722279543	0.31365124
GSH	GSTP1	rs4147581	1.012071089	0.921223824	0.980926258	0.922643349	1.052793406	0.795098849	0.795098849
GSH	ABCC1	rs4148350	0.855701247	0.547047001	0.852629001	0.567620529	0.683689913	0.746543836	0.547047001
GSH	ABCC2	rs4148398	1.017403981	0.895727292	0.933048585	0.695913043	1.2515746	0.389238997	0.389238997
GSH	ABCC3	rs4148412	1.118679863	0.381223615	1.090328799	0.628490044	1.298348523	0.293072258	0.293072258
GSH	ABCC4	rs4148424	1.172722056	0.268287187	1.125052654	0.502617295	1.699903109	0.141983521	0.141983521
GSH	ABCC4	rs4148434	1.152295561	0.262481942	1.233754716	0.237460019	1.146757088	0.589229276	0.237460019
GSH	ABCC4	rs4148446	1.142389485	0.271938068	1.194161329	0.341179206	1.200291415	0.395660024	0.271938068
GSH	ABCC4	rs4148482	0.873158714	0.314976236	0.78346136	0.161313146	1.046214743	0.878988786	0.161313146
GSH	ABCC4	rs4148512	0.96884583	0.837050654	0.943457553	0.746229854	1.095973039	0.835268563	0.746229854
GSH	ABCC4	rs4148527	0.911854519	0.574833089	0.870384232	0.452424512	1.279298771	0.659489826	0.452424512
GSH	ABCC4	rs4148535	1.099577387	0.520905645	1.04523794	0.809518484	1.59119238	0.23101172	0.23101172
DNA	LIG1	rs416844	0.993968762	0.960926481	0.974841458	0.892009904	1.015583541	0.943424571	0.892009904
Inflammation	IL1RN	rs4252041	0.798024721	0.45016228	0.854241101	0.621299062	6.42E-07	0.980591236	0.45016228
GSH	ABCC4	rs4283094	0.821840877	0.110553592	0.870251763	0.477686744	0.664390333	0.056166956	0.056166956
GSH	GPX5	rs4404481	0.960834284	0.814095536	0.976252542	0.901616115	0.792383093	0.684422949	0.684422949
GSH	GPX5	rs445870	0.901238293	0.450000754	0.847460323	0.342713564	0.989677652	0.973877472	0.342713564
DNA	MSH2	rs4608577	0.839167133	0.305802889	0.821788739	0.3054032	0.794861057	0.696532265	0.3054032
GSH	ABCC4	rs4636781	0.829386853	0.27645075	0.863200971	0.453051314	0.424729666	0.182393127	0.182393127
Inflammation	PTGS2	rs4648261	1.088044401	0.786846923	1.096228108	0.770251058	NA	NA	0.770251058
Inflammation	PTGS2	rs4648307	0.833662229	0.337302425	0.84208857	0.411468625	0.537754687	0.426069287	0.337302425
GSH	GCLC	rs4712035	1.304419116	0.103567398	1.375069659	0.084065966	1.183523793	0.76311739	0.084065966
GSH	GPX8	rs4713167	0.882830192	0.368373558	0.82154984	0.259724887	0.983690211	0.95868671	0.259724887
GSH	GSTA5	rs4713352	0.994981601	0.47888654	0.964823575	0.840182308	0.434755114	1.130049435	1.130049435
GSH	GSTA5	rs4715353	0.906295211	0.436349504	0.967439454	0.859019287	0.754737664	0.236084717	0.236084717
GSH	GSTA5	rs4715354	1.08390612	0.50921814	1.284016644	0.212659793	0.958786957	0.838168985	0.212659793
DNA	MGMT	rs4750761	1.117759143	0.391189705	1.08439706	0.640826965	1.361707107	0.264279948	0.264279948
DNA	MGMT	rs4750764	1.034532206	0.77769757	1.207716886	0.328232601	0.883548587	0.55792971	0.328232601
DNA	MGMT	rs4750765	1.060940479	0.644152286	1.102505643	0.579261477	1.0316426	0.907378106	0.579261477
DNA	MGMT	rs4750768	0.867769889	0.283206811	0.933938001	0.694427987	0.591118351	0.09502301	0.09502301
DNA	MGMT	rs4751107	1.098329929	0.488290402	1.014213394	0.935794152	1.543185657	0.143989696	0.143989696
GSH	ABCC4	rs4773844	0.890551527	0.468368318	0.83250117	0.315626858	1.24306225	0.641151194	0.315626858
GSH	ABCC4	rs4773856	1.079188097	0.577786157	1.09408603	0.606615288	1.124938743	0.717300159	0.577786157
GSH	ABCC4	rs4773867	1.052092984	0.766691141	1.125474007	0.547598831	0.609799104	0.448284499	0.448284499
GSH	ABCC1	rs4780589	1.065159093	0.625898598	1.055720395	0.754519172	1.16128763	0.57980355	0.57980355
GSH	ABCC1	rs4781701	0.938724289	0.690120952	0.843014567	0.352683317	1.725531342	0.215930244	0.215930244
GSH	ABCC3	rs4794173	1.1476488	0.320960825	1.145344906	0.436233459	1.338577946	0.371825458	0.320960825
DNA	MSH2	rs4952887	1.106305093	0.634988715	1.088453008	1.712961546	1.65465494	0.556544076	0.556544076
DNA	ERCC2	rs50871	1.067920678	0.593218754	1.086323733	0.670524266	1.097709591	0.653687805	0.593218754
DNA	ERCC2	rs50872	0.942599506	0.675140895	0.901328258	0.553968129	1.047893621	0.891936248	0.553968129
GSH	GCLC	rs510088	1.007610731	0.95591626	0.977830985	0.897389251	1.121096413	0.714699835	0.714699835
DNA	MGMT	rs511361	0.951936627	0.695693296	0.869278043	0.45554434	1.040836359	0.855763191	0.45554434
GSH	GSTA3	rs512795	0.611100785	0.071545836	0.623343806	0.094115106	1.62E-06	0.974262555	0.071545836
Inflammation	PTGS2	rs5275	0.886879203	0.359644308	0.838048665	0.314892929	0.905510596	0.714796509	0.314892929
Inflammation	PTGS2	rs5277	0.862188575	0.391962663	0.863026367	0.440071249	0.683010505	0.568819287	0.391962663
GSH	GCLC	rs542914	0.800830243	0.077004493	0.730718873	0.080116353	0.772426558	0.281587525	0.077004493
GSH	GSTA3	rs557135	0.897129446	0.382933019	0.913453876	0.60623234	0.770983883	0.326307608	0.326307608
GSH	GSTM4	rs560018	0.790059926	0.073874236	0.829738978	0.290326087	0.547280205	0.041286363	0.041286363
GSH	GSTO2	rs568526	1.118980972	0.382536666	1.189476383	0.323720167	1.086420827	0.761744312	0.323720167
DNA	MGMT	rs569235	1.015687396	0.899352524	0.894085679	0.567714496	1.173129807	0.425445993	0.425445993
GSH	GCLC	rs574389	0.753340769	0.025070099	0.728313703	0.090295142	0.632044166	0.048314208	0.025070099
GSH	GCLC	rs600033	0.738160262	0.016816189	0.716151774	0.074958386	0.605729252	0.032762785	0.016816189
GSH	GSS	rs6060127	0.766879239	0.045631788	0.776204683	0.146672195	0.531798656	0.046224843	0.045631788
GSH	GCLC	rs606548	0.51395342	0.052015542	0.526116947	0.078678814	8.37E-07	0.974601195	0.052015542
GSH	GSS	rs6088659	0.873679363	0.418243511	0.92990052	0.702193351	0.392663205	0.146688501	0.146688501
GSH	GSTA3	rs614765	0.534897726	0.1419794	0.53507513	0.142917751	NA	NA	0.1419794
DNA	MSH3	rs6151627	1.065717934	0.634289988	0.965118731	0.83858026	1.506274065	0.153781964	0.153781964
DNA	MSH3	rs6151628	0.814974819	0.359570373	0.871500177	0.562938985	7.98E-07	0.973226228	0.359570373
DNA	MSH3	rs6151735	1.233425151	0.33803086	1.202402104	0.431852881	2.847396069	0.28758695	0.28758695
GSH	GSTO1	rs628480	0.55918641	0.249172305	0.55918641	0.249172305	NA	NA	0.249172305
DNA	RAD52	rs6413436	0.927479711	0.550689464	0.890382497	0.518969991	0.934399084	0.777456479	0.518969991
GSH	GCLC	rs642429	0.871584635	0.417449196	0.876454307	0.511973293	0.674442787	0.447847814	0.417449196
GSH	ABCC4	rs6492763	0.903823992	0.435160014	1.038849225	0.830619526	0.588814662	0.063125355	0.063125355
GSH	ABCC4	rs6492768	1.135943225	0.379916106	1.254173295	0.194853051	0.789805085	0.572702496	0.194853051
GSH	GSTM4	rs650985	0.77300758	0.349980772	0.744281079	0.317019519	0.972750995	0.981262976	0.317019519
GSH	GSTA4	rs654144	1.660469272	0.011356464	1.691097867	0.014926866	2.799013864	0.233276685	0.011356464
GSH	GSTA2	rs6577	1.01289216	0.963536968	1.061679859	0.837254538	2.28E-06	0.978164843	0.837254538
GSH	GCLC	rs670548	0.865575556	0.26638687	0.761812643	0.1263107	0.991497913	0.972995256	0.1263107
Inflammation	PTGS2	rs689470	0.3024826999	0.007032565	0.3024826999	0.007032565	NA	NA	0.007032565
GSH	GSTA4	rs6904769	0.928606349	0.705196374	0.993385911	0.976045432	0.399251058	0.250005218	0.250005218
GSH	GSTA4	rs6904771	0.28429919	0.595854174	1.143748857	0.800537474	NA	NA	0.595854174
DNA	MGMT	rs7068301	1.084218799	0.508889862	1.223546695	0.26728157	0.957233558	0.851900862	0.26728157
DNA	MGMT	rs7073225	0.928374835	0.60603024	0.886880766	0.506172827	1.011537663	0.974413395	0.506172827
DNA	MGMT	rs7080419	1.020063188	0.867352314	0.924176559	0.666928506	1.179567612	0.427597176	0.427597176
DNA	MGMT	rs7087131	1.116576377	0.499922125	1.076114921	0.697652793	1.679959997	0.28471181	0.28471181
DNA	MGMT	rs7097039	0.933582171	0.69352146	0.885430659	0.552743992	1.186889078	0.734456094	0.552743992
DNA	MGMT	rs7099068	0.919928403	0.499096014	0.850651593	0.382794957	0.960986981	0.85557762	0.382794957
DNA	PARP	rs7140044	0.961862897						

DNA	MGMT	rs913119	1.064581741	0.618393954	1.073679636	0.714912701	1.100389004	0.654169582	0.618393954
GSH	GSTM5	rs929166	0.958195821	0.756444137	0.922813243	0.645192583	1.038840979	0.903983613	0.645192583
GSH	ABCC4	rs943288	0.756491517	0.140059246	0.726720687	0.12739331	0.760734494	0.684310304	0.12739331
GSH	GSTA3	rs9474339	0.606241883	0.375098981	0.606241883	0.375098981	NA	NA	0.375098981
DNA	PARP	rs9507355	1.071217205	0.573477459	1.283552621	0.203918402	0.912555634	0.666989281	0.203918402
DNA	PARP	rs9511308	1.052489267	0.722793007	1.083516347	0.647051333	0.976368013	0.950548966	0.647051333
GSH	ABCC4	rs9516530	0.949019997	0.703707152	0.918024258	0.623842794	1.003659478	0.990941649	0.623842794
GSH	ABCC4	rs9516546	0.784664328	0.081398999	0.69124249	0.035677427	0.919355742	0.790639045	0.035677427
GSH	ABCC4	rs9524821	0.990110479	0.937221328	1.038385149	0.838082325	0.903354002	0.674532263	0.674532263
GSH	ABCC4	rs9524822	1.212307239	0.21853236	1.223569916	0.275539207	1.498406398	0.36956218	0.21853236
GSH	ABCC4	rs9524858	0.866418092	0.269178182	0.80756809	0.222676397	0.887922304	0.656849506	0.222676397
GSH	ABCC4	rs9524885	1.582218632	0.100906552	1.646514016	0.085351309	1.14E-05	0.979375047	0.085351309
GSH	ABCC4	rs9561784	1.256103424	0.096007369	1.140284091	0.452637746	2.181956795	0.010573321	0.010573321
GSH	ABCC4	rs9561797	0.962731162	0.78099653	0.9008628	0.55009524	1.132061042	0.678912806	0.55009524
DNA	PARP	rs9578747	0.916095008	0.658705289	0.898476958	0.614884222	1.108079171	0.904291291	0.614884222
DNA	PARP	rs9581094	0.799461214	0.214189829	0.769296798	0.180134078	0.953704346	0.944241885	0.180134078
GSH	ABCC4	rs9590216	0.791071727	0.198003702	0.755289821	0.153283155	1.074166841	0.916582001	0.153283155
DNA	RAD52	rs9634161	0.846168842	0.32352811	0.855266655	0.41720546	0.603036295	0.380273236	0.32352811
GSH	ABCC4	rs9634642	0.749657426	0.021304894	0.739067448	0.098165058	0.595254877	0.030757065	0.021304894
GSH	GPX6	rs974334	0.894326104	0.505098068	0.908918466	0.619800722	0.659927002	0.463043536	0.463043536
DNA	MLH1	rs9852378	1.040083864	0.758282432	1.136344872	0.50493317	0.943307513	0.799538435	0.50493317