

STable 4. Top SNPs associated with survival of pancreatic cancer by previous GWAS

SNP	Chromosome	Gene	Risk allele	HR (95% CI)	P value	Reference No. ^a	P value for	
							MDA GWAS analysis ^b	Imputation quality score ^c
rs763780	6	IL17F	G	3.3 (2.1–5.1)	2.61E-08	9	0.37	0.978
rs7771466	6	IL17F	A	3.1 (2.0–4.9)	0.000000166	9	0.33	0.982
rs2900174	12	PRB2	G	3.3 (2.0–5.5)	0.00000103	9	0.99	0.928
rs11062040	12	DCP1B	A	1.4 (1.2–1.7)	0.00000757	9	0.063	0.97
rs11644322	16	WVVOX	A	1.6 (1.3–2.0)	0.0000131	9	0.58	0.947
rs10736526	11	UBASH3B	A	1.6 (1.3–1.9)	0.000015	9	0.072	0.88
rs179619	16	NA	G	1.5 (1.3–1.9)	0.0000207	9	0.47	0.984
rs306104	5	CAMK4	A	1.5 (1.2–1.8)	0.0000231	9	0.51	0.95
rs3744311	17	NA	G	1.5 (1.2–1.7)	0.0000253	9	0.44	0.815
rs10489997	2	BAZ2B	A	1.5 (1.2–1.7)	0.000026	9	0.7	0.961
rs1910236	3	NA	A	1.4 (1.2–1.7)	0.0000271	9	0.86	1
rs7149097	14	NA	A	1.6 (1.3–1.9)	0.0000384	9	0.53	1
rs10883617	10	BTRC	G	1.5 (1.2–1.8)	0.0000394	9	0.36	0.96
rs490332	5	NA	A	1.5 (1.2–1.7)	0.0000432	9	0.82	1
rs2550731	16	WVVOX	A	1.4 (1.2–1.7)	0.0000444	9	0.6	0.924
rs12361312	11	NA	A	1.5 (1.2–1.8)	0.0000462	9	NA	NA
rs4785367	16	NA	G	1.4 (1.2–1.7)	0.0000506	9	0.54	0.851
rs814951	1	NA	A	1.4 (1.2–1.7)	0.0000538	9	0.37	0.992
rs7712169	5	NA	A	2.9 (1.7–5.0)	0.0000564	9	0.53	0.991
rs1808458	2	NA	A	2.4 (1.6–3.8)	0.0000616	9	0.16	0.955
rs12362504	11	SBF2	C	1.40 (1.23-1.58)	0.000000163	7	0.59	0.994
rs981621	18	C18orf1	G	1.39 (1.23-1.57)	0.000000165	7	0.87	0.933
rs7237577	18	C18orf1	G	1.39 (1.23-1.57)	0.000000165	7	0.87	0.932
rs11080646	18	C18orf1	C	1.39 (1.23-1.57)	0.000000166	7	0.7	0.93
rs7231366	18	C18orf1	C	1.39 (1.23-1.57)	0.000000181	7	0.91	0.942
rs9300100	11	SBF2	G	1.39 (1.23-1.58)	0.000000199	7	0.59	0.996
rs17681406	18	C18orf1	T	1.39 (1.23-1.57)	0.000000208	7	0.74	0.932
rs10084046	18	C18orf1	G	1.38 (1.22-1.57)	0.000000212	7	0.87	0.942
rs9948620	18	C18orf1	T	1.38 (1.22-1.57)	0.000000241	7	0.68	0.933
rs4910067	11	SBF2	T	1.41 (1.24-1.60)	0.000000274	7	0.98	0.971
rs1107340	18	C18orf1	C	1.39 (1.23-1.58)	0.000000323	7	0.94	0.938
rs16861827	1	IGSF21	T	1.70 (1.39-2.09)	0.000000375	7	0.013	0.981
rs9954359	18	C18orf1	G	1.39 (1.23-1.58)	0.000000409	7	0.71	0.983
rs2276392	18	C18orf1	A	1.39 (1.23-1.58)	0.000000409	7	0.73	0.983
rs8094197	18	C18orf1	A	1.39 (1.22-1.58)	0.00000041	7	0.71	0.986
rs7122293	11	SBF2	G	1.40 (1.23-1.60)	0.000000436	7	0.85	0.956
rs7227361	18	C18orf1	T	1.40 (1.23-1.59)	0.000000459	7	0.93	0.976
rs6662005	1	ERO1LB	A	1.71 (1.39-2.12)	0.000000542	7	0.42	1
rs9946524	18	C18orf1	C	1.39 (1.22-1.58)	0.00000055	7	0.59	0.946
rs897035	18	C18orf1	G	1.40 (1.23-1.59)	0.000000558	7	0.58	0.973
rs17275283	11	NA	C	1.37 (1.21-1.55)	0.000000573	7	0.81	0.995
rs9957621	18	C18orf1	T	1.39 (1.22-1.58)	0.000000782	7	0.38	0.973
rs361052	3	NA	A	1.44 (1.25-1.67)	0.000000784	7	0.91	1
rs10983614	9	ASTN2	C	0.73 (0.64-0.82)	0.000000887	7	0.75	0.988
rs1944788	11	NA	C	1.37 (1.21-1.55)	0.000000927	7	0.8	0.991
rs10835188	11	LIN7C	G	0.71 (0.62-0.82)	0.000000992	7	0.3	0.714
rs7330800	13	NA	C	1.38 (1.21-1.58)	0.00000106	7	0.46	0.988
rs2218400	13	NA	A	1.38 (1.21-1.57)	0.00000114	7	0.43	0.998
rs12456874	18	C18orf1	G	1.39 (1.22-1.59)	0.00000123	7	0.21	1
rs12620038	2	NA	G	0.72 (0.63-0.82)	0.00000125	7	0.83	0.95
rs10840316	11	SBF2	C	1.36 (1.20-1.54)	0.00000139	7	0.51	0.994
rs10736390	1	ACOT11	G	0.75 (0.66-0.84)	0.00000152	7	0.93	1
rs2017503	11	SBF2	A	1.37 (1.20-1.55)	0.00000155	7	0.88	0.972
rs1414153	9	NA	C	1.41 (1.23-1.62)	0.00000157	7	0.095	1
rs1944782	11	NA	G	1.36 (1.20-1.54)	0.00000176	7	0.86	0.979
rs10818020	9	ASTN2	T	0.74 (0.66-0.84)	0.00000217	7	0.91	0.989
rs1416941	9	ASTN2	C	0.74 (0.66-0.84)	0.00000218	7	0.84	0.988
rs11790950	9	ASTN2	G	0.74 (0.66-0.84)	0.0000022	7	0.88	0.986

rs10983619	9	ASTN2	C	0.74 (0.66-0.84)	0.00000222	7	0.31	1
rs7853844	9	NA	A	1.44 (1.24-1.67)	0.00000225	7	0.077	0.99
rs7106914	11	SBF2	C	(0.66-0.84)	0.00000233	7	0.52	0.972
rs10500715	11	SBF2	G	(0.66-0.84)	0.00000233	7	0.53	0.972
rs17077369	13	NA	G	1.63 (1.33-2.00)	0.00000251	7	0.97	0.922
rs7202041	16	NA	A	1.57 (1.30-1.89)	0.00000255	7	0.87	0.918
rs12786130	11	LGR4	C	0.72 (0.63-0.83)	0.00000259	7	0.63	0.964
rs4922787	11	LGR4	G	0.72 (0.63-0.83)	0.00000261	7	0.76	0.966
rs770996	3	NA	T	1.31 (1.17-1.47)	0.00000264	7	0.91	0.911
rs2989505	9	NA	T	1.43 (1.23-1.66)	0.00000268	7	0.042	0.988
rs10767646	11	BDNFOS	T	0.71 (0.62-0.82)	0.0000027	7	0.17	0.993
rs12800780	11	SBF2	T	1.36 (1.20-1.54)	0.00000274	7	0.79	0.95
rs10764826	10	NA	A	2.19 (1.58-3.04)	0.00000291	7	0.48	1
rs10818022	9	ASTN2	A	0.75 (0.66-0.84)	0.00000304	7	0.89	0.988
rs823918	9	NA	G	1.44 (1.23-1.68)	0.00000329	7	0.76	0.97
rs10829514	10	NA	T	2.18 (1.57-3.03)	0.00000331	7	0.42	0.985
rs11016537	10	NA	A	2.18 (1.57-3.03)	0.0000035	7	NA	NA
rs1352757	13	NA	G	1.35 (1.19-1.53)	0.00000353	7	0.63	1
rs7076689	10	NA	A	2.54 (1.71-3.77)	0.00000362	7	0.17	0.955
rs9874556	3	NA	A	1.31 (1.17-1.47)	0.00000364	7	0.65	0.907
rs2152155	10	NA	C	2.18 (1.57-3.04)	0.00000371	7	0.5	0.994
rs10835190	11	LIN7C	C	0.72 (0.63-0.83)	0.00000372	7	0.26	0.997
rs12209785	6	RUNX2	G	1.37 (1.20-1.56)	0.00000373	7	0.29	1
rs6484306	11	LIN7C	T	0.71 (0.61-0.82)	0.00000377	7	0.38	0.962
rs1924687	10	NA	A	2.18 (1.57-3.04)	0.00000386	7	0.4	0.99
rs1038659	11	BDNFOS	T	0.72 (0.63-0.83)	0.00000387	7	0.26	0.997
rs1391315	1	SMAP1L	G	1.82 (1.41-2.35)	0.00000407	7	0.84	0.83
rs1567532	2	CTNNA2	T	1.38 (1.20-1.58)	0.00000409	7	0.75	1
rs16827281	1	SMAP1L	G	1.84 (1.42-2.38)	0.00000427	7	0.97	0.821
rs16827276	1	SMAP1L	T	1.81 (1.41-2.34)	0.00000442	7	0.97	0.822
rs10741177	10	NA	C	2.17 (1.56-3.03)	0.00000443	7	0.4	0.987
rs10734079	10	NA	T	2.63 (1.74-3.98)	0.00000446	7	0.5	0.968
rs10829515	10	NA	C	2.21 (1.57-3.09)	0.00000451	7	NA	NA
rs4757645	11	GTF2H1	C	1.42 (1.22-1.65)	0.00000453	7	0.61	0.89
rs12790913	11	LGR4	A	0.73 (0.64-0.84)	0.00000463	7	0.73	0.983
rs6484308	11	LIN7C	T	0.73 (0.63-0.83)	0.00000472	7	0.26	0.993
rs12101726	15	LOC400455	C	1.83 (1.41-2.36)	0.0000048	7	0.39	1
rs1408537	10	NA	C	2.17 (1.55-3.02)	0.00000507	7	0.36	0.988
rs1630858	9	NA	C	1.49 (1.26-1.77)	0.00000516	7	0.8	0.973
rs4382459	8	DEPDC2	T	1.56 (1.29-1.89)	0.00000522	7	0.18	0.871
rs12577586	11	BDNFOS	C	0.72 (0.63-0.83)	0.00000528	7	0.16	0.999
rs1408536	10	NA	A	2.16 (1.55-3.01)	0.00000581	7	0.36	0.985
rs9539806	13	NA	G	1.32 (1.17-1.50)	0.00000586	7	0.32	1
rs2031966	6	RUNX2	G	1.35 (1.18-1.53)	0.00000624	7	0.019	0.995
rs6905181	6	RUNX2	A	1.35 (1.18-1.53)	0.00000627	7	0.019	0.995
rs4438954	6	RUNX2	G	1.35 (1.18-1.53)	0.00000628	7	0.019	0.995
rs13207392	6	RUNX2	T	1.35 (1.18-1.53)	0.00000628	7	0.019	0.994
rs11693318	2	CTNNA2	A	1.37 (1.19-1.57)	0.00000628	7	0.73	1
rs6458446	6	RUNX2	A	1.35 (1.18-1.53)	0.00000633	7	0.019	0.995
rs823920	9	NA	G	1.43 (1.22-1.67)	0.00000662	7	0.62	0.972
rs11756145	6	RUNX2	T	1.36 (1.19-1.55)	0.00000686	7	0.26	0.997
rs12195878	6	RUNX2	T	1.36 (1.19-1.55)	0.00000689	7	0.28	0.993
rs7755257	6	RUNX2	G	1.35 (1.18-1.53)	0.0000069	7	0.022	0.992
rs10817611	9	DFNB31	C	1.44 (1.23-1.68)	0.00000696	7	0.65	0.979
rs9593831	13	NA	T	1.55 (1.28-1.87)	0.00000713	7	0.59	0.816
rs6484311	11	LIN7C	G	0.73 (0.63-0.83)	0.00000718	7	0.26	0.996
rs11639759	16	NA	T	1.56 (1.28-1.89)	0.00000729	7	0.82	0.897
rs1335411	9	ASTN2	C	0.76 (0.67-0.86)	0.00000746	7	0.5	0.986
rs1165805	9	NA	A	1.43 (1.22-1.67)	0.00000754	7	0.73	0.975
rs1000589	13	NA	T	1.31 (1.17-1.48)	0.00000762	7	0.4	0.999
rs7866774	9	ASTN2	T	0.76 (0.67-0.86)	0.00000767	7	0.43	0.992
rs9517906	13	CLYBL	T	0.75 (0.66-0.85)	0.00000769	7	0.37	0.695
rs9783347	11	GTF2H1	A	1.38 (1.20-1.59)	0.00000778	7	0.56	0.992
rs6458444	6	RUNX2	A	1.35 (1.19-1.55)	0.00000824	7	0.022	0.991
rs11663785	18	C18orf1	C	1.37 (1.19-1.57)	0.00000833	7	0.099	0.957

rs1479821	15	LOC400455	C	1.69 (1.34-2.12)	0.00000844	7	0.31	0.976
rs16827275	1	SMAP1L	T	1.69 (1.34-2.13)	0.00000854	7	0.24	0.833
rs17124276	14	KCNK10	T	1.36 (1.19-1.56)	0.00000858	7	0.7	0.981
rs10835187	11	LGR4	C	0.77 (0.68-0.86)	0.00000892	7	0.033	0.953
rs1225	18	C18orf1	A	1.32 (1.17-1.49)	0.00000903	7	0.98	0.944
rs4536164	11	LGR4	A	0.75 (0.66-0.85)	0.00000911	7	0.31	0.953
rs7850624	9	ASTN2	T	0.76 (0.68-0.86)	0.00000911	7	0.17	0.997
rs11791873	9	ASTN2	G	0.75 (0.67-0.85)	0.00000917	7	0.97	0.968
rs4797764	18	C18orf1	G	1.32 (1.17-1.49)	0.00000919	7	0.98	0.942
rs6458445	6	RUNX2	T	1.34 (1.18-1.53)	0.0000092	7	0.022	0.992
rs10485422	6	RUNX2	A	1.35 (1.18-1.55)	0.00000922	7	0.28	0.993
rs10835201	11	BDNFOS	G	0.73 (0.63-0.84)	0.00000934	7	0.18	1
rs4596	11	GTF2H1	G	1.34 (1.18-1.53)	0.00000938	7	0.32	0.99
rs4150579	11	HPS5	A	1.34 (1.18-1.53)	0.00000942	7	0.64	1
rs4150564	11	HPS5	G	1.34 (1.18-1.53)	0.00000943	7	0.56	0.998
rs4150575	11	HPS5	C	1.34 (1.18-1.53)	0.00000943	7	0.59	0.999
rs4150622	11	GTF2H1	A	1.34 (1.18-1.53)	0.0000095	7	0.56	0.999
rs10788473	10	GRID1	T	1.33 (1.17-1.51)	0.00000955	7	0.83	0.987
rs4150616	11	GTF2H1	A	1.34 (1.18-1.53)	0.00000957	7	0.64	0.999
rs13431245	2	NA	C	1.41 (1.21-1.63)	0.00000962	7	0.74	0.995
rs4150612	11	GTF2H1	G	1.34 (1.18-1.53)	0.00000969	7	0.71	0.999
rs4150615	11	GTF2H1	C	1.34 (1.18-1.53)	0.00000972	7	0.64	0.999
rs4150610	11	GTF2H1	A	1.34 (1.18-1.53)	0.00000973	7	0.56	0.999
rs6479073	9	NA	G	1.43 (1.22-1.67)	0.00000979	7	0.51	0.977
rs4150561	11	HPS5	T	1.34 (1.18-1.53)	0.00000979	7	0.56	0.997
rs4150562	11	HPS5	A	1.34 (1.18-1.53)	0.00000979	7	0.64	0.998
rs4150550	11	HPS5	C	1.34 (1.18-1.53)	0.00000988	7	0.71	0.997
rs4150673	11	GTF2H1	T	1.35 (1.18-1.55)	0.00001	7	0.56	0.994
rs1482426	12	NA	G	1.95 (1.42-2.67)	0.0000036	8	0.57	0.984
rs4285214	5	ZNF608	G	1.65 (1.35-2.02)	0.00000079	8	0.47	0.946
rs7849571	9	NA	G	1.63 (1.28-2.07)	0.0000072	8	0.17	0.955
rs1115E-40	18	NA	T	2.57 (1.61-4.E-)	0.0000076	8	NA	NA
rs3747572	16	GLIS2	C	1.83 (1.39-2.40)	0.0000013	8	0.31	1
rsE-189511	2	NA	A	2.11 (1.51-2.95)	0.0000012	8	NA	NA
rs1344963	12	NA	T	2.59 (1.69-3.97)	0.0000014	8	0.57	1
rs4903736	14	NA	A	1.59 (1.27-1.98)	0.0000045	8	0.27	0.982
rs1E-24097	11	PLEKHA7	T	1.54 (1.25-1.90)	0.0000042	8	NA	NA
rs4903741	14	NA	C	1.57 (1.25-1.96)	0.0000087	8	0.4	0.978
rs12835268	X	NA	C	1.5 (1.24-1.82)	0.0000034	8	NA	NA
rs16867625	8	NA	T	2.33 (1.55-3.51)	0.000005	8	0.7	1
rs7016046	8	NA	A	1.83 (1.38-2.43)	0.0000031	8	0.55	1
rs2056096	18	NA	T	1.55 (1.25-1.93)	0.0000073	8	0.33	0.815
rs8034546	15	NA	T	1.62 (1.29-2.04)	0.000004	8	0.25	1
rs1867348	6	IGF2R	T	2.02 (1.43-2.85)	0.0000063	8	0.57	0.991
rs956518	4	NA	G	0.62 (0.50-0.79)	0.0000057	8	0.56	1
rsE-167E-3	2	NA	C	1.53 (1.25-1.88)	0.000005	8	NA	NA
rs38402	7	GGCT	G	4.75 (2.19-E-.31)	0.0000082	8	0.21	0.685
rs3795244	17	ZNF207	T	2.46 (1.69-3.58)	0.0000003	8	0.69	0.819
rs1944395	18	NA	C	1.5 (1.23-1.84)	0.0000083	8	0.59	1
rs1388193	13	NA	T	1.77 (1.34-2.34)	0.0000065	8	0.83	0.984

aRefer to reference number in the main text.

bObtained from Cox regression model adjusted for age, sex, tumor stage, resection, chemotherapy, and five principal components accounting for population structure.

cQuality control for imputation. SNPs with quality scores of >0.3 were used in our analysis.

NA: not applicable