

Figure S1 Correlation analysis between the four prognostic genes and myeloid cell markers.

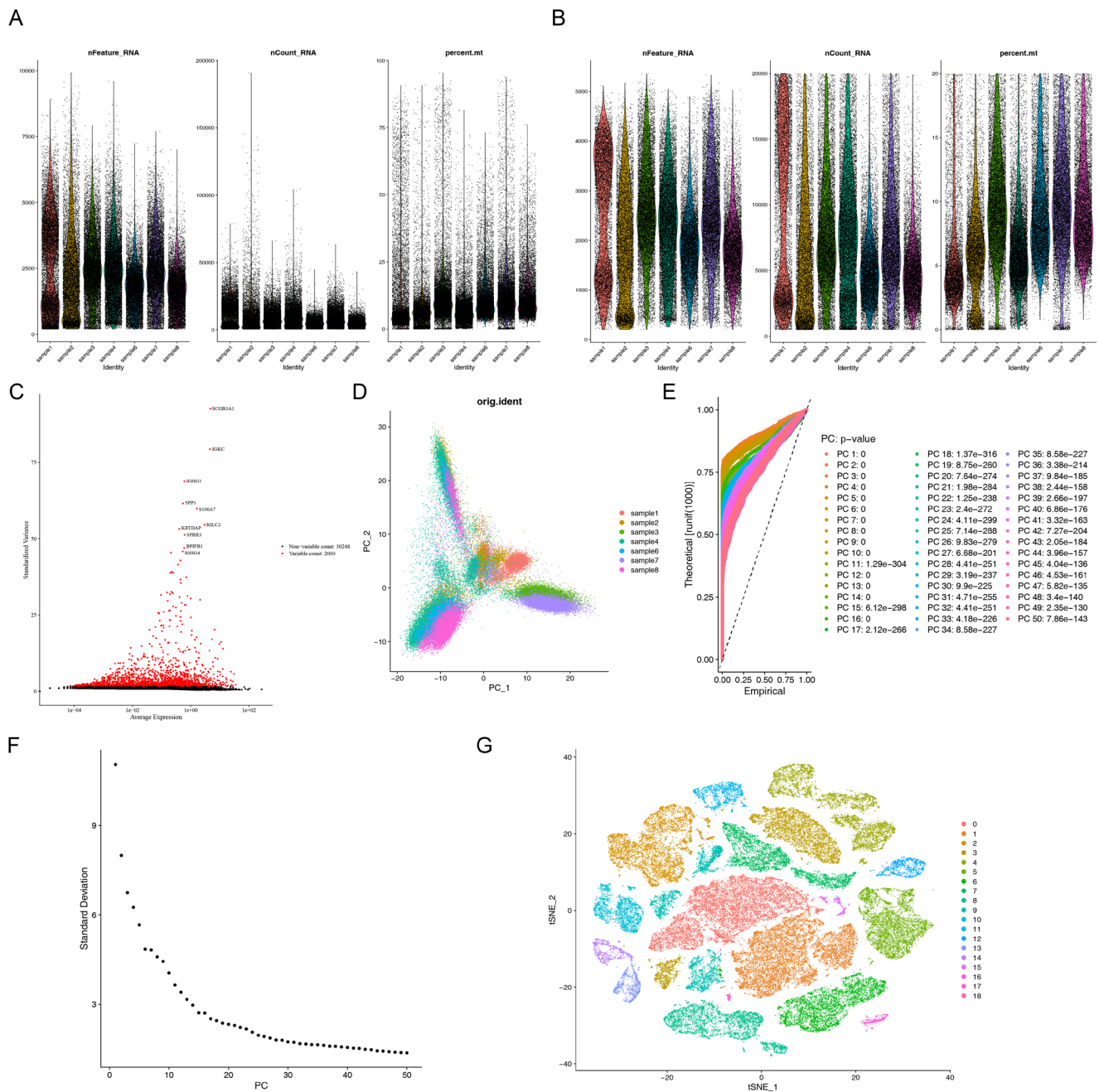


Figure S2 Quality control, feature selection, and clustering of the scRNA-seq dataset. (A) Distributions of quality control metrics, including the number of detected genes (nFeature_RNA), total counts (nCount_RNA), and mitochondrial gene percentage (percent.mt), across individual samples before filtering. (B) The same quality control metrics after filtering, showing improved data quality across samples. (C) Identification of the top 2,000 highly variable genes (HVGs), with highly variable features highlighted in red. (D) Principal component analysis (PCA) plot colored by sample origin, demonstrating batch distribution across cells. (E) Determination of statistically significant principal components based on JackStraw analysis. (F) Elbow plot indicating the number of principal components used for downstream analysis. (G) t-SNE visualization of all cells, revealing 19 distinct clusters identified by unsupervised clustering.

Table S1 Prognostic gene-specific primers

Primer	GenBank
TNF	Forward: GACAAGCCTGTAGCCCATGT
	Reverse: GGAGGTTGACCTTGGTCTGG
FASN	Forward: CCTGGCTGCCTACTACATCG
	Reverse: CACATTTCAAAGGCCACGCA
TFRC	Forward: GGCTACTTGGGCTATTGTAAAGG
	Reverse: CAGTTTCTCCGACAACCTTCTCT
PTPN6	Forward: ATCACCTATCCCCAGCCAT
	Reverse: GCAAGTACAGGCAGTTGGTG
Internal reference-GAPDH	Forward: ATGGGCAGCCGTTAGGAAAG
	Reverse: AGGAAAAGCATCACCCGGAG

Table S2 KEGG enrichment analysis of differentially expressed genes

ID	Description	GeneRatio	BgRatio	pvalue	P adjust	Q value	geneID	Count
hsa04630	JAK-STAT signaling pathway	10/50	168/8847	2.48863614632854e-08	4.60397687070779e-06	3.27452124516913e-06	STAT5B/PTPN6/IL23A/STAT1/IFNG/IL31RA/CSF2/THPO/IL12B/EPO	10
hsa05321	Inflammatory bowel disease	7/50	65/8847	6.46516815143944e-08	4.84342630223159e-06	3.44482667299544e-06	IL23A/STAT1/IFNG/TNF/GATA3/IL12B/TLR4	7
hsa04380	Osteoclast differentiation	9/50	142/8847	7.8542048144296e-08	4.84342630223159e-06	3.44482667299544e-06	MITF/TREM2/TGFB2/GAB2/STAT1/IFNG/TNF/TNFSF11/LILRB4	9
hsa04060	Cytokine-cytokine receptor interaction	11/50	298/8847	6.09256426607434e-07	2.81781097305938e-05	2.00413298226129e-05	IL23A/TGFB2/IFNG/IL31RA/TNF/CSF2/THPO/TNFSF11/CCL3/IL12B/EPO	11
hsa05323	Rheumatoid arthritis	7/50	94/8847	8.3973027860997e-07	3.10700203085689e-05	2.20981652265782e-05	IL23A/IFNG/TNF/CSF2/TNFSF11/CCL3/TLR4	7
hsa05202	Transcriptional misregulation in cancer	9/50	193/8847	1.07435285259583e-06	3.31258796217048e-05	2.356036957447e-05	ZBTB16/MEF2C/MITF/RUNX1/MMP9/TGFB2/CSF2/FLI1/CEBPA	9
hsa05143	African trypanosomiasis	5/50	37/8847	1.78696421232841e-06	4.72269113258222e-05	3.35895528633159e-05	F2RL1/IFNG/TNF/PRKCA/IL12B	5
hsa04659	Th17 cell differentiation	7/50	108/8847	2.15453183257871e-06	4.98235486283827e-05	3.54363788253077e-05	STAT5B/RUNX1/IL23A/TGFB2/STAT1/IFNG/GATA3	7
hsa05161	Hepatitis B	8/50	163/8847	3.10933228209441e-06	6.3914052465274e-05	4.54580742996259e-05	STAT5B/MMP9/TGFB2/STAT1/TNF/IRF7/PRKCA/TLR4	8
hsa05140	Leishmaniasis	6/50	77/8847	4.18315470823028e-06	7.73883621022602e-05	5.50415093188195e-05	PTPN6/STAT1/IFNG/TNF/IL12B/TLR4	6
hsa05142	Chagas disease	6/50	103/8847	2.25724144327197e-05	0.000347991389171095	0.000247504544218418	TGFB2/IFNG/TNF/CCL3/IL12B/TLR4	6
hsa05146	Amoebiasis	6/50	103/8847	2.25724144327197e-05	0.000347991389171095	0.000247504544218418	IFNG/TNF/CSF2/PRKCA/IL12B/TLR4	6
hsa04350	TGF-beta signaling pathway	6/50	108/8847	2.95695021615153e-05	0.000411736661309252	0.000292842575611132	CDKN2B/TGFB2/IFNG/TFRC/TNF/FBN1	6
hsa04620	Toll-like receptor signaling pathway	6/50	109/8847	3.11584500450245e-05	0.000411736661309252	0.000292842575611132	STAT1/TNF/IRF7/CCL3/IL12B/TLR4	6
hsa05221	Acute myeloid leukemia	5/50	68/8847	3.74651978062192e-05	0.00046207077294337	0.000328642086019467	STAT5B/ZBTB16/RUNX1/CSF2/CEBPA	5
hsa05164	Influenza A	7/50	172/8847	4.58754993032407e-05	0.000530435460693721	0.000377265619270072	STAT1/IFNG/TNF/IRF7/PRKCA/IL12B/TLR4	7
hsa05205	Proteoglycans in cancer	7/50	204/8847	0.000134664086329336	0.00146546211593689	0.00104229168985554	PTPN6/FLNA/MMP9/TNF/PRKCA/IL12B/TLR4	7
hsa05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	5/50	90/8847	0.000143887418711885	0.00147884291453881	0.00105180861631495	PTPN6/STAT1/IFNG/TLR4/BATF2	5
hsa04658	Th1 and Th2 cell differentiation	5/50	92/8847	0.000159643997329558	0.00155442839505096	0.00110556784854265	STAT5B/STAT1/IFNG/GATA3/IL12B	5
hsa05144	Malaria	4/50	50/8847	0.000171694463816896	0.00158817379030629	0.00112956884090063	CD81/IFNG/TNF/TLR4	4
hsa05417	Lipid and atherosclerosis	7/50	216/8847	0.000191959827976994	0.00169107467503542	0.00120275581439219	MMP9/TNF/IRF7/PRKCA/CCL3/IL12B/TLR4	7
hsa04640	Hematopoietic cell lineage	5/50	99/8847	0.000225399092489756	0.00189540145957295	0.00134808069670907	TFRC/TNF/CSF2/THPO/EPO	5
hsa04933	AGE-RAGE signaling pathway in diabetic complications	5/50	101/8847	0.000247513130816736	0.00199086648700418	0.00141597900924906	STAT5B/TGFB2/STAT1/TNF/PRKCA	5
hsa05171	Coronavirus disease - COVID-19	7/50	238/8847	0.000347599488021206	0.00261147526206777	0.00185737927600837	ISG15/STAT1/TNF/CSF2/PRKCA/IL12B/TLR4	7
hsa04066	HIF-1 signaling pathway	5/50	109/8847	0.00035290206244159	0.00261147526206777	0.00185737927600837	IFNG/TFRC/PRKCA/TLR4/EPO	5
hsa05145	Toxoplasmosis	5/50	111/8847	0.000383880216630857	0.00273145538756571	0.00194271364691729	STAT1/IFNG/TNF/IL12B/TLR4	5
hsa05152	Tuberculosis	6/50	180/8847	0.000493199530031778	0.0033793301131807	0.00240350648163635	IL23A/STAT1/IFNG/TNF/IL12B/TLR4	6
hsa04664	Fc epsilon RI signaling pathway	4/50	69/8847	0.000595635684622999	0.00393545005911624	0.00279903987134868	GAB2/TNF/CSF2/PRKCA	4
hsa04622	RIG-I-like receptor signaling pathway	4/50	72/8847	0.000700067785621154	0.00446594966689357	0.00317635111443355	ISG15/TNF/IRF7/IL12B	4
hsa05220	Chronic myeloid leukemia	4/50	77/8847	0.000901986016385719	0.00547375102017233	0.00389313728319512	STAT5B/RUNX1/TGFB2/GAB2	4
hsa04650	Natural killer cell mediated cytotoxicity	5/50	135/8847	0.000938120069254641	0.00547375102017233	0.00389313728319512	PTPN6/IFNG/TNF/CSF2/PRKCA	5
hsa05133	Pertussis	4/50	78/8847	0.000946810987273052	0.00547375102017233	0.00389313728319512	IL23A/TNF/IL12B/TLR4	4
hsa05162	Measles	5/50	139/8847	0.00106969720694402	0.00599678737226193	0.00426514037856467	STAT5B/STAT1/IRF7/IL12B/TLR4	5
hsa05418	Fluid shear stress and atherosclerosis	5/50	141/8847	0.00114041051350492	0.0062051748528944	0.00441335338043699	MEF2C/KLF2/MMP9/IFNG/TNF	5
hsa05330	Allograft rejection	3/50	38/8847	0.00124676241552301	0.0065900299106216	0.00468707675008649	IFNG/TNF/IL12B	3
hsa04940	Type I diabetes mellitus	3/50	43/8847	0.00178806767204636	0.00918868109246044	0.00653533505864896	IFNG/TNF/IL12B	3
hsa04217	Necroptosis	5/50	159/8847	0.00194293573823686	0.00934264678137191	0.0066448412385291	STAT5B/STAT1/IFNG/TNF/TLR4	5
hsa05160	Hepatitis C	5/50	159/8847	0.00194293573823686	0.00934264678137191	0.0066448412385291	CD81/STAT1/IFNG/TNF/IRF7	5
hsa04657	IL-17 signaling pathway	4/50	95/8847	0.00196953094310002	0.00934264678137191	0.0066448412385291	MMP9/IFNG/TNF/CSF2	4
hsa04625	C-type lectin receptor signaling pathway	4/50	105/8847	0.00283757429660999	0.0131237811218212	0.00933412597569077	IL23A/STAT1/TNF/IL12B	4
hsa05134	Legionellosis	3/50	56/8847	0.00381478830656944	0.0172130691881792	0.0122425812149212	TNF/IL12B/TLR4	3
hsa04928	Parathyroid hormone synthesis, secretion and action	4/50	115/8847	0.00393778284623685	0.017344995870329	0.012336412425554	MEF2C/GATA3/PRKCA/TNFSF11	4
hsa04660	T cell receptor signaling pathway	4/50	122/8847	0.00486052518528315	0.0209115618436601	0.0148730880822618	PTPN6/IFNG/TNF/CSF2	4
hsa04010	MAPK signaling pathway	6/50	300/8847	0.00654966849373842	0.0275383788941274	0.0195863292276867	MEF2C/FLNA/TGFB2/EFNA2/TNF/PRKCA	6
hsa04917	Prolactin signaling pathway	3/50	71/8847	0.00741321628333461	0.0304765558314867	0.0216760710039024	STAT5B/STAT1/TNFSF11	3
hsa05166	Human T-cell leukemia virus 1 infection	5/50	223/8847	0.00819791179425645	0.032969862650814	0.0234494044458136	STAT5B/CDKN2B/TGFB2/TNF/CSF2	5
hsa04936	Alcoholic liver disease	4/50	144/8847	0.00868277470815917	0.0341768791704137	0.0243078799220581	FASN/TNF/IL12B/TLR4	4

Table S3 Gene coef

Gene	Coef
TNF	0.365537288
PTPN6	-0.61186847
FASN	0.24533994
TFRC	0.266708202

Table S4 DEcells-DEcells_pvalue_restRes

	Activated B cell	Activated CD8 T cell	Activated dendritic cell	Central memory CD4 T cell	Effector memeoory CD8 T cell	Eosinophil	Immature B cell	Macrophage	MDSC	Natural killer T cell	Type 1 T helper cell
Activated B cell	0	0.00178945985274921	0.600362925711204	0.989189709913342	0.0167734751048167	0.427942690492759	6.25456021302788e-06	0.503066960517545	0.0518776080763114	0.62027999231038	0.172786506584626
Activated CD8 T cell	0.00178945985274921	0	0.08014269923153	0.668862170826185	0.000586019806107011	0.418610552726837	0.000336735226424178	0.199439119366812	0.00329226424858234	0.978739881921087	0.0133444877241827
Activated dendritic cell	0.600362925711204	0.08014269923153	0	0.439539768985179	0.0248441624341879	0.94626288540267	0.261716345390126	0.0130364804959864	0.0178162593251115	0.59476858239133	0.0341969214049465
Central memory CD4 T cell	0.989189709913342	0.668862170826185	0.439539768985179	0	0.697919953398466	0.541569913666901	0.728687504011136	0.114016394963896	0.236519264676913	9.5474186045433e-05	0.0370010457545527
Effector memeoory CD8 T cell	0.0167734751048167	0.000586019806107011	0.0248441624341879	0.697919953398466	0	0.476829798092254	0.00545166370598839	0.100654064321873	0.00861293940563055	0.877857532415423	0.00586094919452531
Eosinophil	0.427942690492759	0.418610552726837	0.94626288540267	0.541569913666901	0.476829798092254	0	0.280905846041446	0.705981357997351	0.246806133613732	0.297817312059165	0.453089588028431
Immature B cell	6.25456021302788e-06	0.000336735226424178	0.261716345390126	0.728687504011136	0.00545166370598839	0.280905846041446	0	0.204877151119172	0.00513118146012842	0.810140878839328	0.0503381673432462
Macrophage	0.503066960517545	0.199439119366812	0.0130364804959864	0.114016394963896	0.100654064321873	0.705981357997351	0.204877151119172	0	0.00207768789039524	0.210402699089904	0.00806166279658789
MDSC	0.0518776080763114	0.00329226424858234	0.0178162593251115	0.236519264676913	0.00861293940563055	0.246806133613732	0.00513118146012842	0.00207768789039524	0	0.457385226153353	0.00127451701387643
Natural killer T cell	0.62027999231038	0.978739881921087	0.59476858239133	9.5474186045433e-05	0.877857532415423	0.297817312059165	0.810140878839328	0.210402699089904	0.457385226153353	0	0.124213996425763
Type 1 T helper cell	0.172786506584626	0.0133444877241827	0.0341969214049465	0.0370010457545527	0.00586094919452531	0.453089588028431	0.0503381673432462	0.00806166279658789	0.00127451701387643	0.124213996425763	0

Table S5 DEcells-DEcells_correlation

	Activated B cell	Activated CD8 T cell	Activated dendritic cell	Central memory CD4 T cell	Effector memeoory CD8 T cell	Eosinophil	Immature B cell	Macrophage	MDSC	Natural killer T cell	Type 1 T helper cell
Activated B cell	1	0.81	0.61	0.65	0.78	0.39	0.89	0.67	0.8	0.55	0.77
Activated CD8 T cell	0.81	1	0.73	0.7	0.84	0.38	0.88	0.71	0.86	0.69	0.84
Activated dendritic cell	0.61	0.73	1	0.68	0.78	0.35	0.75	0.73	0.82	0.67	0.78
Central memory CD4 T cell	0.65	0.7	0.68	1	0.69	0.32	0.75	0.72	0.79	0.77	0.8
Effector memeoory CD8 T cell	0.78	0.84	0.78	0.69	1	0.38	0.87	0.74	0.84	0.64	0.85
Eosinophil	0.39	0.38	0.35	0.32	0.38	1	0.4	0.38	0.43	0.32	0.42
Immature B cell	0.89	0.88	0.75	0.75	0.87	0.4	1	0.78	0.91	0.69	0.86
Macrophage	0.67	0.71	0.73	0.72	0.74	0.38	0.78	1	0.87	0.7	0.82
MDSC	0.8	0.86	0.82	0.79	0.84	0.43	0.91	0.87	1	0.75	0.9
Natural killer T cell	0.55	0.69	0.67	0.77	0.64	0.32	0.69	0.7	0.75	1	0.79
Type 1 T helper cell	0.77	0.84	0.78	0.8	0.85	0.42	0.86	0.82	0.9	0.79	1

Table S6 DEcells-DEcells_correlation

High_group_res	Low_group_res	Padj	P value	log ₂ FoldChange	Drugs	Sig
3.915	3.915	7.02E-26	6.50E-28	-0.000242449	A.770041	A.770041****
4.944	4.944	6.75E-25	1.25E-26	-0.000148719	BMS.708163	BMS.708163****
3.123	3.127	2.12E-24	5.88E-26	-0.003656315	AZ628	AZ628****
5.879	5.892	8.14E-22	3.01E-23	-0.013636796	BIRB.0796	BIRB.0796****
2.769	2.766	1.54E-19	7.11E-21	0.003851917	MK.2206	MK.2206****
4.056	4.055	5.70E-16	3.17E-17	0.000224509	CGP.082996	CGP.082996****
1.348	1.857	4.90E-15	3.17E-16	-0.54610829	MG.132	MG.132****
5.617	5.585	5.54E-15	4.10E-16	0.032559053	CCT007093	CCT007093****
2.505	2.662	1.25E-14	1.04E-15	-0.195587948	BI.D1870	BI.D1870****
4.866	4.607	4.92E-14	4.55E-15	0.293180134	Nutlin.3a	Nutlin.3a****
6.757	6.824	1.58E-13	1.61E-14	-0.073466398	NSC.87877	NSC.87877****
3.662	3.774	2.25E-13	2.50E-14	-0.111696079	FTI.277	FTI.277****
3.292	3.507	3.35E-13	4.03E-14	-0.2168952	Cisplatin	Cisplatin****
3.661	3.669	4.44E-13	5.76E-14	-0.009895988	CMK	CMK****
3.853	3.887	5.60E-12	7.78E-13	-0.034748392	Sorafenib	Sorafenib****
2.92	2.667	9.75E-12	1.44E-12	0.273421381	ABT.263	ABT.263****
4.049	4.205	4.69E-11	7.39E-12	-0.17279077	WH.4.023	WH.4.023****
3.601	3.758	4.85E-11	8.08E-12	-0.181804431	GSK269962A	GSK269962A****
5.872	5.878	9.91E-11	1.74E-11	-0.00636251	JNK.Inhibitor.VIII	JNK.Inhibitor.VIII****
5.663	5.667	2.61E-10	4.99E-11	-0.003792565	WZ.1.84	WZ.1.84****
10.56	10.42	2.61E-10	5.08E-11	0.170002823	Metformin	Metformin****
4.312	4.192	7.59E-10	1.55E-10	0.120997725	Nilotinib	Nilotinib****
6.085	6.215	1.05E-09	2.24E-10	-0.133268184	LFM.A13	LFM.A13****
3.481	3.526	1.36E-09	3.02E-10	-0.049798818	NU.7441	NU.7441****
2.202	2.383	2.26E-09	5.22E-10	-0.224032351	Dasatinib	Dasatinib****
4.205	4.057	2.82E-09	6.78E-10	0.149084757	Salubrinal	Salubrinal****
2.828	2.916	3.41E-09	8.52E-10	-0.083362472	Embelin	Embelin****
2.45	2.084	4.12E-09	1.07E-09	0.336826277	BIBW2992	BIBW2992****
4.809	4.845	5.85E-09	1.57E-09	-0.035633082	Roscovitrine	Roscovitrine****
0.2243	0.2428	6.64E-09	1.84E-09	-0.025467533	PD.0325901	PD.0325901****
2.334	2.445	1.14E-08	3.26E-09	-0.110427798	RDEA119	RDEA119****
2.206	2.096	1.62E-08	4.81E-09	0.121152344	Tipifarnib	Tipifarnib****
3.41	3.477	1.93E-08	5.89E-09	-0.065190273	AZD6482	AZD6482****
5.413	5.282	2.75E-08	8.64E-09	0.155148154	ABT.888	ABT.888****
2.16	1.928	5.04E-08	1.63E-08	0.309075912	Gefitinib	Gefitinib****
5.111	5.117	7.44E-08	2.48E-08	-0.005440874	KU.55933	KU.55933****
4.718	4.792	8.27E-08	2.83E-08	-0.073009084	Bexarotene	Bexarotene****
6.49	6.476	1.21E-07	4.27E-08	0.018524546	Cyclopamine	Cyclopamine****
1.584	1.616	6.59E-07	2.38E-07	-0.036551248	Etoposide	Etoposide****
4.896	4.914	6.98E-07	2.59E-07	-0.023148821	Parthenolide	Parthenolide****
2.065	2.267	1.35E-06	5.11E-07	-0.196489167	BX.795	BX.795****
4.799	4.849	1.96E-06	7.62E-07	-0.073140314	CHIR.99021	CHIR.99021****
4.119	4.068	3.88E-06	1.54E-06	0.05658106	PD.173074	PD.173074****
4.412	4.309	1.15E-05	4.69E-06	0.102477958	VX.702	VX.702****
1.627	1.627	1.48E-05	6.22E-06	6.91E-05	AP.24534	AP.24534****
4.222	4.251	1.48E-05	6.29E-06	-0.028962041	AMG.706	AMG.706****
2.61	2.64	1.65E-05	7.19E-06	-0.031355569	Z.LLNle.CHO	Z.LLNle.CHO****
5.416	5.357	1.85E-05	8.21E-06	0.071442484	Lenalidomide	Lenalidomide****
2.127	2.17	3.60E-05	1.63E-05	-0.082881637	FH535	FH535****
2.623	2.641	3.70E-05	1.71E-05	-0.01830098	BMS.536924	BMS.536924****
8.225	8.04	4.12E-05	1.95E-05	0.237386718	AICAR	AICAR****
0.3877	0.316	4.23E-05	2.04E-05	0.080079459	AZD8055	AZD8055****
4.284	4.287	4.82E-05	2.37E-05	-0.002478403	GW.441756	GW.441756****
2.829	2.701	6.29E-05	3.15E-05	0.16303614	Bosutinib	Bosutinib****
3.384	3.24	6.61E-05	3.37E-05	0.139289057	Sunitinib	Sunitinib****
4.65	4.631	7.18E-05	3.72E-05	0.022282148	EHT.1864	EHT.1864****
5.016	4.947	7.81E-05	4.12E-05	0.067299144	Imatinib	Imatinib****
2.856	2.934	7.93E-05	4.26E-05	-0.080576726	JNJ.26854165	JNJ.26854165****
6.084	6.133	9.52E-05	5.20E-05	-0.070620392	KIN001.135	KIN001.135****
3.198	3.163	0.0001285	7.14E-05	0.043770215	AS601245	AS601245****
3.299	3.229	0.000130567	7.37E-05	0.069661981	XMD8.85	XMD8.85****
3.728	3.731	0.000131269	7.54E-05	-0.003512578	BMS.509744	BMS.509744****
3.206	3.154	0.000168062	9.96E-05	0.060057438	CCT018159	CCT018159****
4.896	4.986	0.000168062	9.96E-05	-0.099598059	PHA.665752	PHA.665752****
3.093	2.973	0.000185083	0.000113107	0.121739504	AZD6244	AZD6244****
0.6384	0.712	0.000185083	0.000113107	-0.077967866	Cytarabine	Cytarabine****
2.485	2.377	0.000227296	0.000141008	0.115207133	BAY.61.3606	BAY.61.3606****
5.665	5.584	0.000238393	0.000150099	0.084458425	SL.0101.1	SL.0101.1****
4.369	4.374	0.000329939	0.000210794	-0.004932279	PF.02341066	PF.02341066****
4.113	4.176	0.000462742	0.000299925	-0.068421029	AZD.0530	AZD.0530****
4.666	4.693	0.000493986	0.00032475	-0.024285067	RO.3306	RO.3306****
1.613	1.614	0.000553844	0.000369229	-0.000390389	Bleomycin	Bleomycin****
0.7426	0.8647	0.000568142	0.000384022	-0.106688686	MS.275	MS.275****
4.955	4.953	0.000624077	0.000427608	0.002064709	PF.4708671	PF.4708671****
4.86	4.971	0.000806797	0.000560276	-0.09171171	PLX4720	PLX4720****
2.757	2.712	0.001310093	0.000921917	0.046340611	PF.562271	PF.562271****
5.535	5.587	0.004579812	0.003265236	-0.039523988	SB.216763	SB.216763****
3.702	3.62	0.008108459	0.005856109	0.087819248	OSI.906	OSI.906****
3.507	3.544	0.008262165	0.00604362	-0.036911721	AKT.inhibitor.VIII	AKT.inhibitor.VIII****
4.493	4.524	0.014044768	0.010403532	-0.032096601	Bicalutamide	Bicalutamide****
0.5699	0.6518	0.014827439	0.011120579	-0.071899857	Midostaurin	Midostaurin****
1.569	1.568	0.036316996	0.027574016	0.000537066	S.Trityl.L.cysteine	S.Trityl.L.cysteine****
6.611	6.573	0.041421222	0.031832976	0.035747453	DMOG	DMOG****
1.719	1.741	0.042816009	0.033301341	-0.066738022	NVP.TAE684	NVP.TAE684****
2.363	2.316	0.048053479	0.037819868	0.0575609	PD.0332991	PD.0332991****

Table S7 Agents associated with TNF, FASN, and PTPN6

Gene	Drug
FASN	PRETOMANID
FASN	ORLISTAT
FASN	SELENIUM
FASN	LIOTHYRONINE
FASN	EPIGALLOCATECHIN GALLATE
FASN	RISPERIDONE
FASN	HEXACHLOROPHENE
FASN	CLOZAPINE
FASN	PACLITAXEL
PTPN6	TOFACITINIB
PTPN6	SORAFENIB
TNF	GOLIMUMAB
TNF	MEROPENEM ANHYDROUS
TNF	PROCARBAZINE HYDROCHLORIDE
TNF	CROMOLYN SODIUM
TNF	ETHAMBUTOL HYDROCHLORIDE
TNF	TIMOLOL MALEATE
TNF	CERTOLIZUMAB PEGOL
TNF	LACTULOSE
TNF	MAGNESIUM SULFATE ANHYDROUS
TNF	FLUOCINOLONE ACETONIDE
TNF	MILTEFOSINE
TNF	VITAMIN B6
TNF	GLIMEPIRIDE
TNF	PYRAZINAMIDE
TNF	PRAZOSIN HYDROCHLORIDE
TNF	CEFOTAXIME SODIUM
TNF	RUTIN
TNF	ETANERCEPT-SZZS
TNF	STAVUDINE
TNF	LENALIDOMIDE
TNF	DIDANOSINE
TNF	INFLIXIMAB-DYYB
TNF	MYCOPHENOLATE MOFETIL
TNF	SPIRONOLACTONE
TNF	ADALIMUMAB-ADBIM
TNF	BUPIVACAINE
TNF	HYDROXYCHLOROQUINE
TNF	RIFAMPIN
TNF	PROPYLTHIOURACIL
TNF	ALTEPLASE
TNF	METHIMAZOLE
TNF	GENTAMICIN
TNF	FOLIC ACID
TNF	CARBAMAZEPINE
TNF	THALIDOMIDE
TNF	RABEPRAZOLE
TNF	AMPHOTERICIN B LIPOSOMAL
TNF	INSULIN, REGULAR, HUMAN
TNF	MIDAZOLAM HYDROCHLORIDE
TNF	MIDOSTAURIN
TNF	ATORVASTATIN CALCIUM TRIHYDRATE
TNF	OMEPRAZOLE
TNF	RISPERIDONE
TNF	MASOPROCOL
TNF	DIGOXIN
TNF	PENTOXIFYLLINE
TNF	CYCLOSPORINE
TNF	CARBOPLATIN
TNF	GEMCITABINE
TNF	SORAFENIB