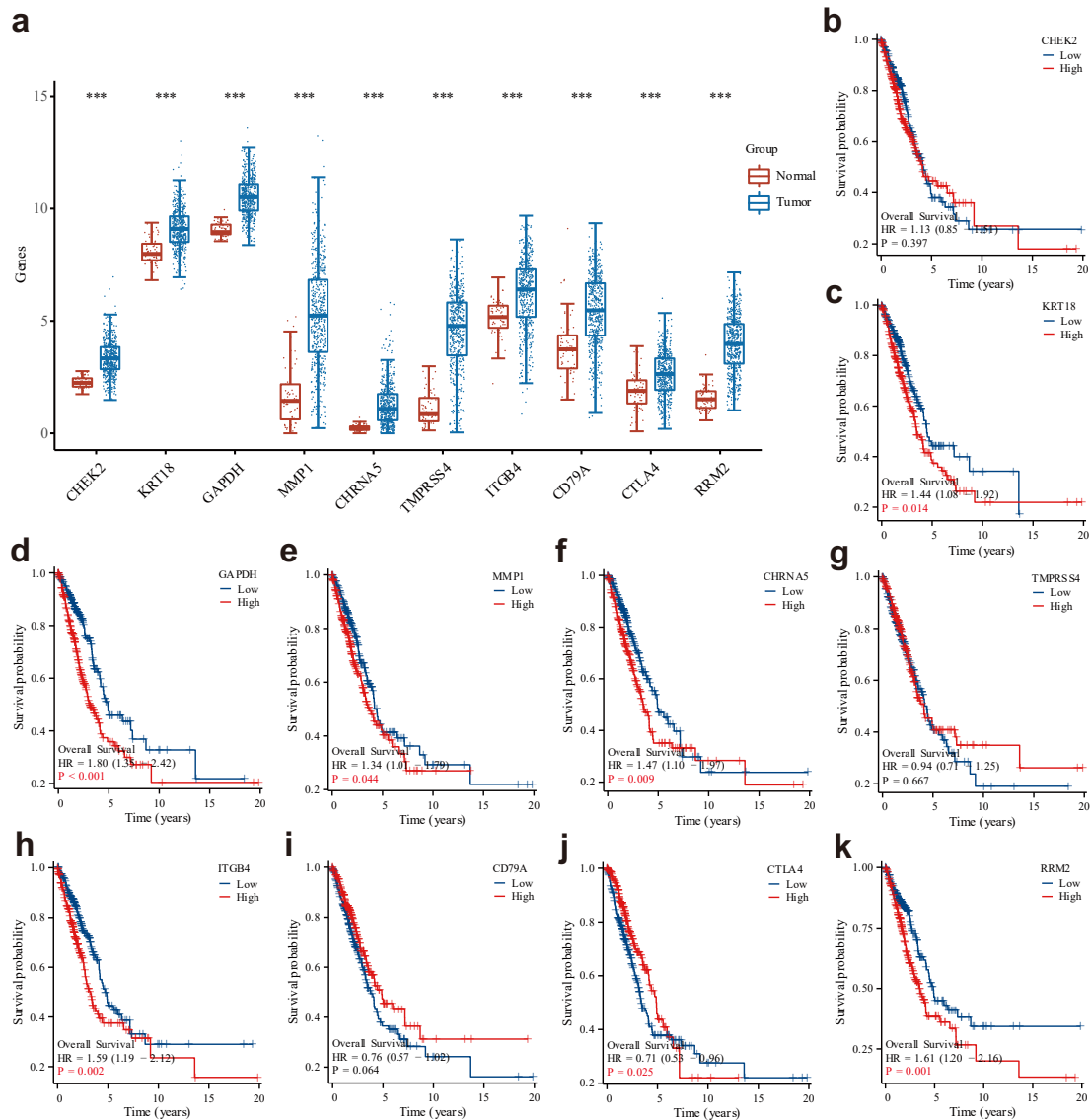
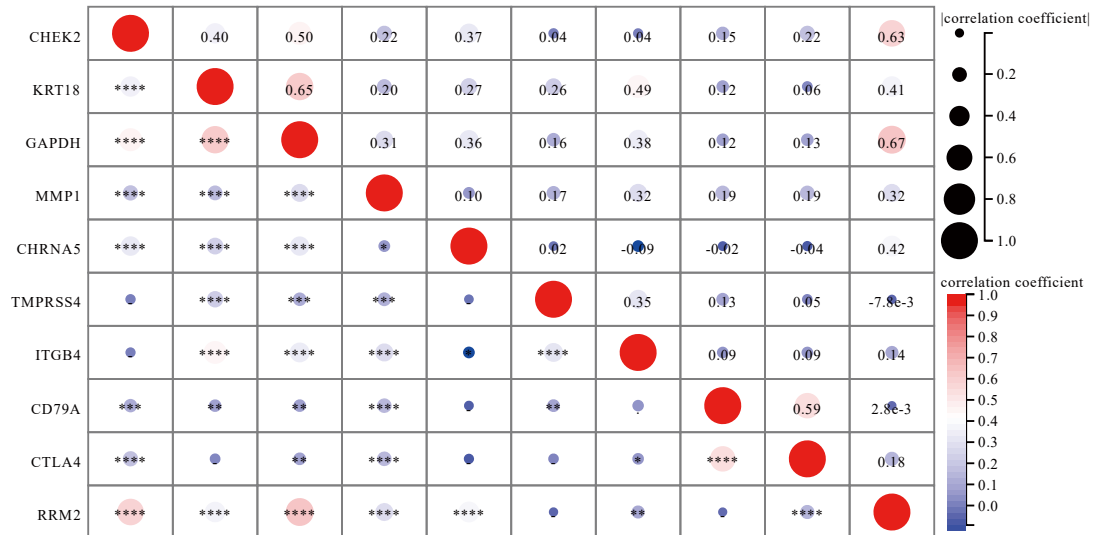


Supplementary Figures

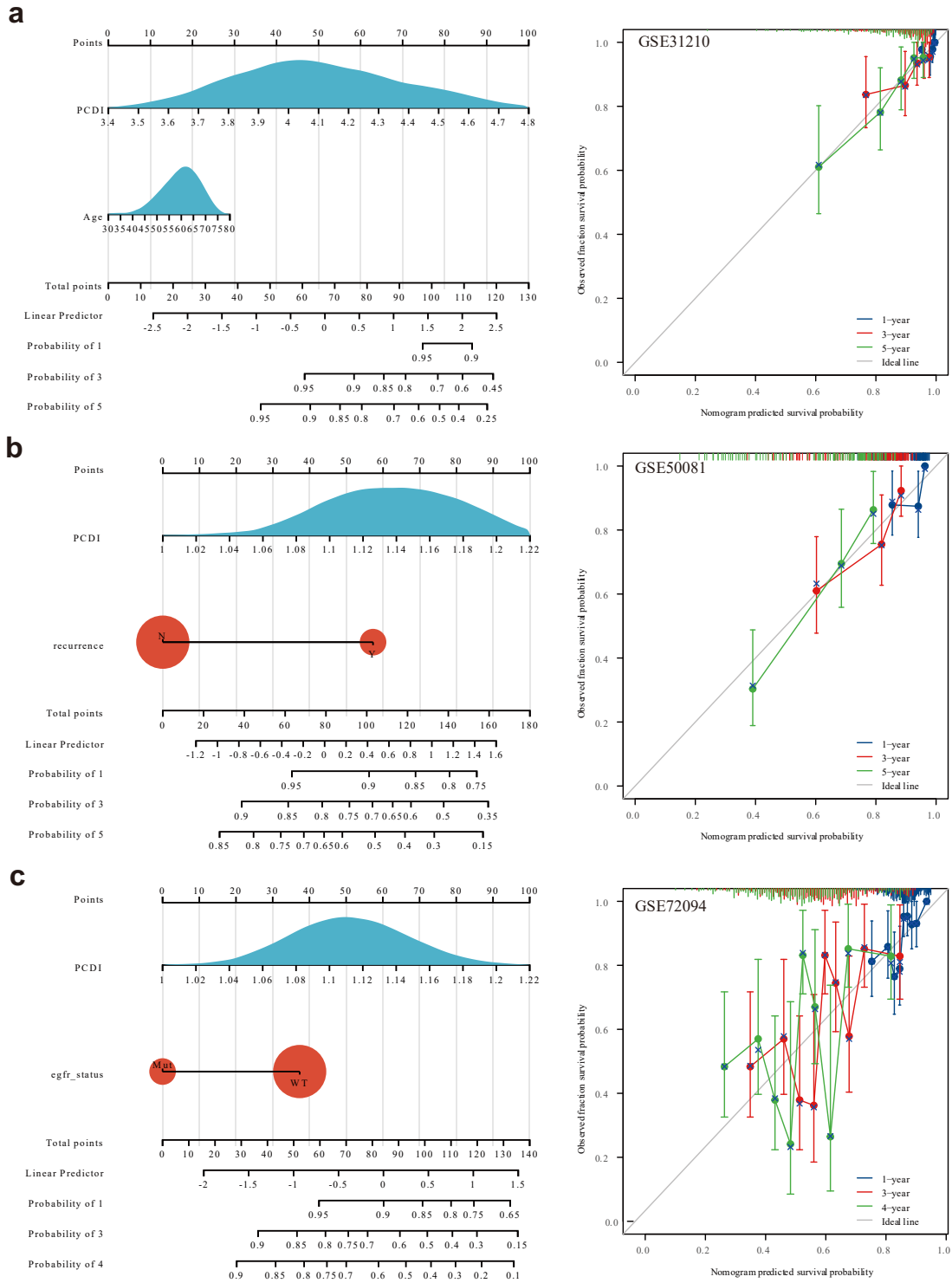


Supplementary Figure 1: Differential Expression and Survival Analysis of PCDS

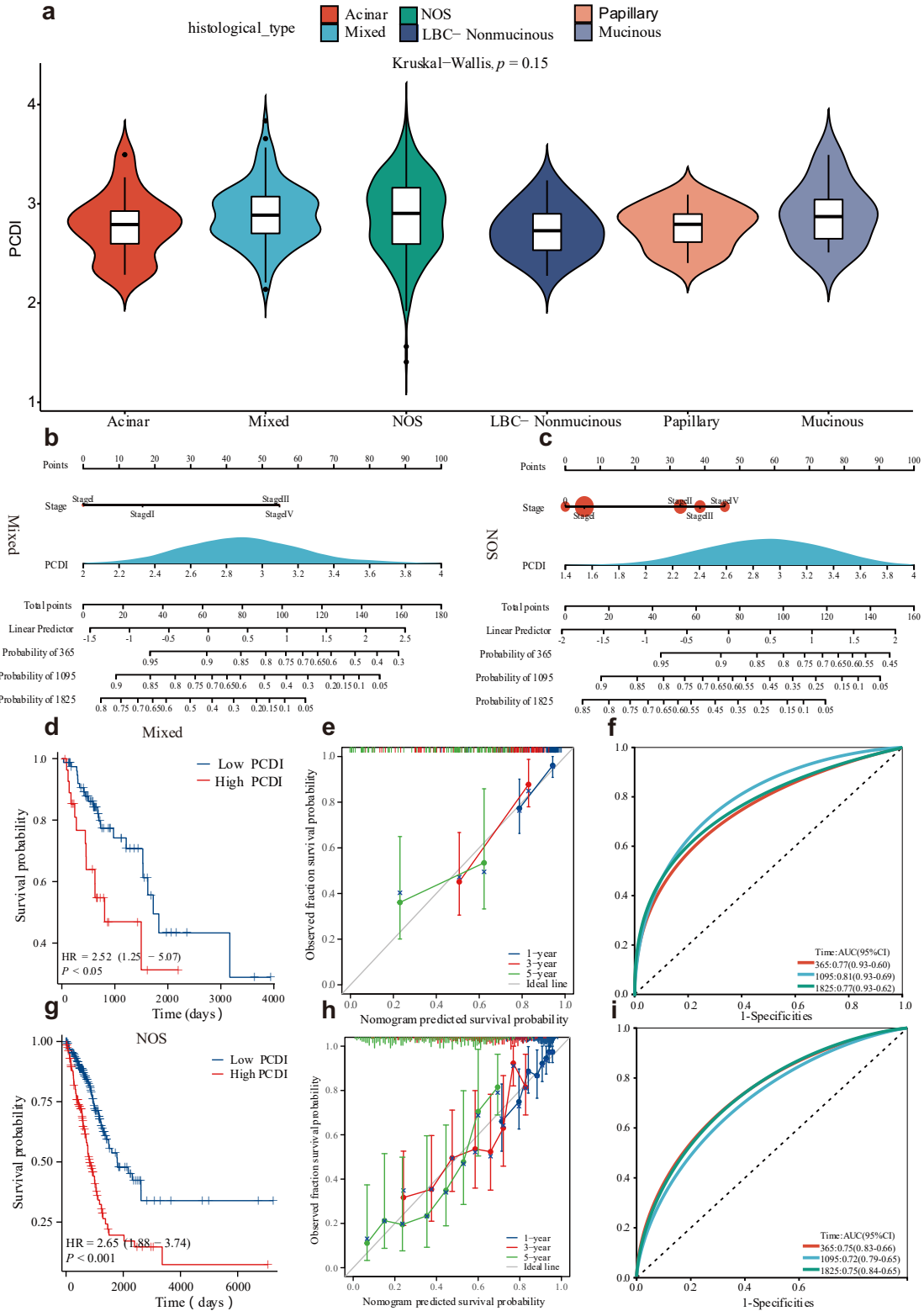
in LUAD. (a) Wilcoxon test of PCDS expression between LUAD tissues (blue) and normal samples (red) in TCGA-LUAD cohort. $***P < 0.001$. (b-k) Kaplan-Meier analysis of PCDS in TCGA-LUAD cohort (blue: low-expression group; red: high-expression group).



Supplementary Figure 2. The Correlation of Model Genes. Pearson's correlation coefficients (r) for all model genes are shown in the plot. $*P < 0.05$, $**P < 0.01$, $***P < 0.0001$.

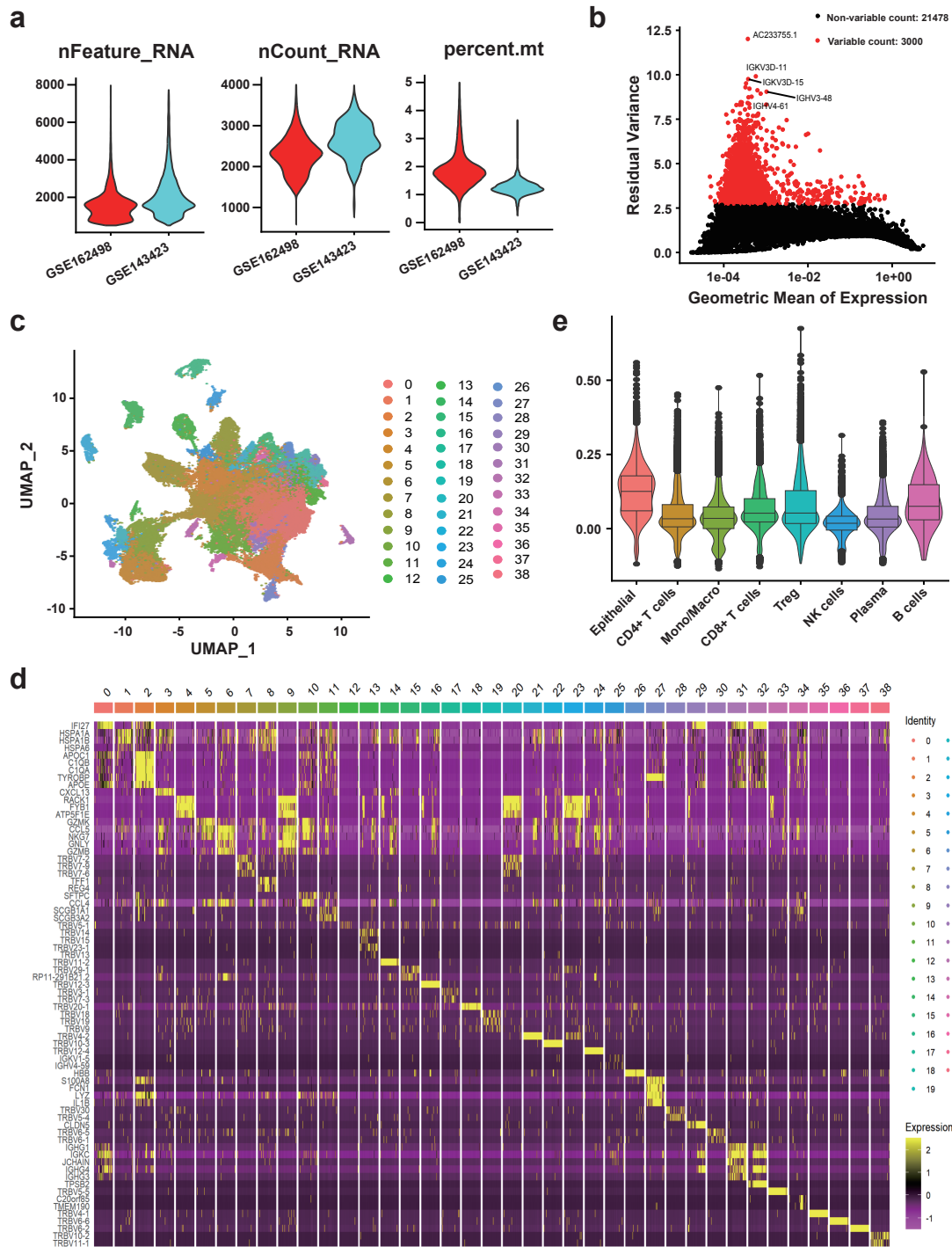


Supplementary Figure 3: Clinical Significance of the PCDI in the Validation Cohort. Construction and validation of the prognostic nomogram model in (a) GSE31210, (b) GSE50081, and (c) GSE72094 cohorts.



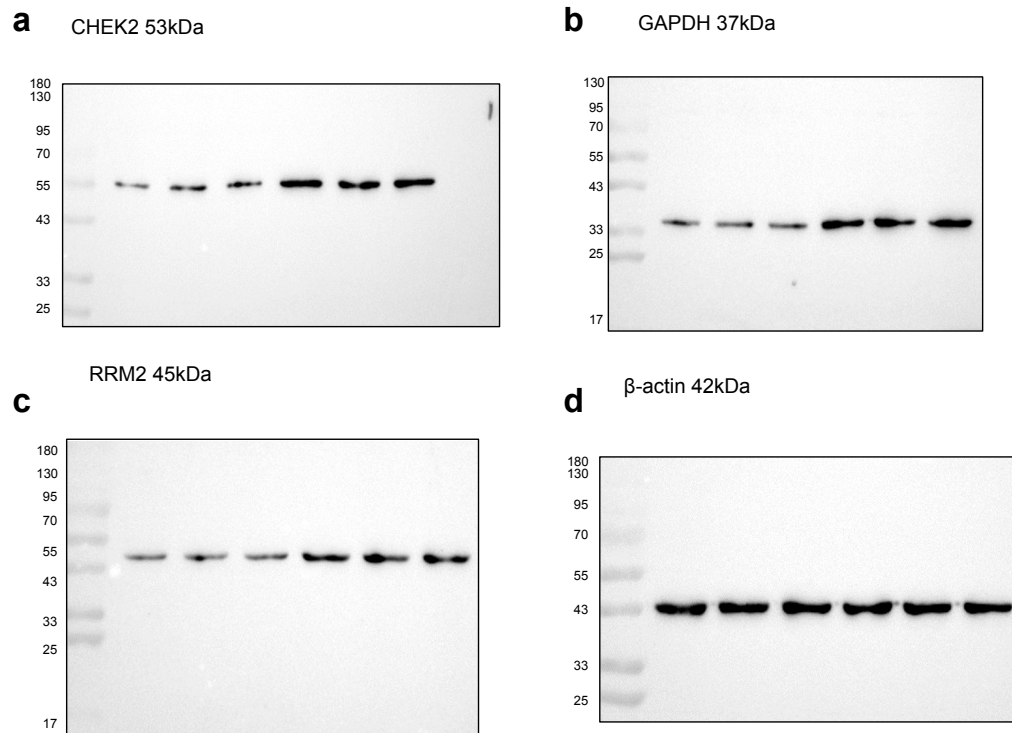
Supplementary Figure 4: Analysis of LUAD subtype. (a) violin plot of PCDI among 6 main LUAD subtypes. (b-c) Construction of nomogram model in Mixed and NOS subtype. (d) Kaplan-Meier analysis of the prognosis of LUAD Mixed patients. (e)

Calibration plots of the probability of 1-, 3-, and 5-year overall survival in the Mixed subtype. (f) Receiver operator characteristic (ROC) analysis of the nomogram in Mixed subtype. (g)Kaplan–Meier analysis of the prognosis of LUAD NOS patients. (h) Calibration plots of the probability of 1-, 3-, and 5-year overall survival in the NOS subtype. (i) Receiver operator characteristic (ROC) analysis of the nomogram in the NOS subtype.



Supplementary Figure 5: Quality control of single-cell RNA sequencing (scRNA) data from two LUAD single-cell datasets. (a) The gene counts per cell (nFeature_RNA), number of unique molecular identifiers (UMIs) per cell (nCount_RNA), and percentage of mitochondrial genes per cell (percent.mt) of the scRNA-seq data. **(b)** The variance plot showed 21478 genes in all cells, red dots represent the top 3000 highly variable

genes. (c) UMAP plots for the 38 clusters' identification of single cells in LUAD datasets. (d) The Heatmap depicting expressions of the top 5 marker genes among 28 detected cell clusters. (e) Violin-box plot shows the level of CDIScore in eight cell types.



Supplementary Figure 6: Uncropped scans of the most important blots. (a) Uncropped scans of CHEK2. (b) Uncropped scans of GAPDH. (c) Uncropped scans of RRM2. (d) Uncropped scans of β -actin.

Supplementary Table 1 the primer sequence of each medel gene

Gene	Gene ID	primer sequence
CHEK2	11200	TCTCGGGAGTCGGATGTTGAG CCTGAGTGGACACTGTCTCTAA
KRT18	3875	TCGCAAATACTGTGGACAATGC GCAGTCGTGTGATATTGGTGT
MMP1	4312	GGGGCTTTGATGTACCCTAGC TGTCACACGCTTTTGGGGTTT
CHRNA5	1138	AAAGATGGGTTCGTCCTGTGG CAAACAAAACGATGTCTGGTGTC
TMPRSS4	56649	ATGCGGAACTCAAGTGGGC CTGTTTGTCTACTGGATGCT
ITGB4	3691	GCTTCACACCTATTTCCCTGTC GACCCAGTCCTCGTCTTCTG
CD79a	973	CAAGAACCGAATCATCACAGCC TCTGCCATCGTTTCCTGAACA
CTLA4	1493	GCCCTGCACTCTCCTGTTTTT GGTTGCCGCACAGACTTCA
RRM2	6241	GTGGAGCGATTTAGCCAAGAA CACAAGGCATCGTTTCAATGG
GAPDH	2597	CTGGGCTACACTGAGCACC AAGTGGTCGTTGAGGGCAATG
ACTB	60	CATGTACGTTGCTATCCAGGC CTCCTTAATGTCACGCACGAT

CUL4A	GSK3A	HSPA8	LMO7
CUL5	GSK3B	HYAL1	CCT6A
CX3CL1	HAX1	IDS	APBA1
CX3CR1	HDAC6	IDUA	WFDC1
CXCL12	HERC1	IGF2R	CER1
CYLD	HGF	IL13	UBR4
CYP1B1	HIF1A	IL13RA2	DPP7
DAB2IP	HMGGB1	IL4	PTGES3L-AARSD1
DAP	HMOX1	IL4R	OR1G1
DAP3	HSP90AA1	KIF1B	PRKACA
DAPK1	HSPA8	KIT	FBXW5
DAPK2	HSPB1	KXD1	PHGDH
DAPK3	HSPB8	LAMP1	DDIT4
DAPL1	HTR2B	LAMP2	KLHL11
DAXX	HTRA2	LAMP3	HNRNP1A1
DBH	HTT	LAMTOR1	SGCD
DCC	HUWE1	LAPTM4A	LRBA
DDIAS	IFI16	LAPTM4B	AP3B1
DDIT3	IFNG	LAPTM5	FAM86B1
DDIT4	IKBK	LAT	KCTD19
DDX3X	IL10	LAT2	EXOC7
DDX47	IL10RA	LGALS9	IFNA7
DDX5	IL4	LGMN	MSH6
DEDD	IRGM	LIPA	SIRT7
DEDD2	ITPR1	LRRK2	MGAT2
DELE1	KAT5	LYN	FAM126A
DEPTOR	KAT8	M6PR	XPOT
DIABLO	KDM4A	MAN2B1	HIST1H3A
DIDO1	KDR	MANBA	CASP14
DNAJA1	KEAP1	MAP1LC3A	C16orf96
DNAJC10	KIF25	MAP6	TNFAlP2
DNM1L	KLHL22	MCOLN1	LIPH
DPF2	KLHL3	MFSD8	LTB
DYRK2	LACRT	MILR1	ALDH3A2
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E2F2	LAMP2	MT3	SIAE
EDA2R	LAMP3	MYH9	SEMA3D
EIF2AK3	LAMTOR1	NAGA	RNPS1
ELL3	LAMTOR2	NAGLU	NEK11
ENO1	LAMTOR3	NAGPA	SLC1A6
EP300	LAMTOR4	NAPSA	NPC1
EPHA2	LAMTOR5	NCOA4	PROL1
EPO	LARP1	NDEL1	SDE2
ERBB3	LEP	NEDD4	IL1RAP
ERCC6	LEPR	NEU1	CENPH
ERN1	LGALS8	NPC1	ZNF296
ERN2	LRRK2	NPC2	CCDC149
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ERP29	LZTS1	PDPK1	GDPD3
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EYA2	MAP1LC3B	PIK3CD	FBXW11
EYA3	MAP1LC3C	PIK3CG	TMEM101
EYA4	MAP3K7	PIP4K2A	SUPT16H
FADD	MAPK15	PIP4K2B	LAMTOR1
FAF1	MAPK3	PIP4P1	CYLC1
FAIM	MAPK8	PLA2G15	ARL3
FAIM2	MAPT	PLA2G3	FBXW12
FAM162A	MCL1	PLEKHM1	CCDC108
FAS	MEFV	PLEKHM2	ITPA
FASLG	MET	PPT1	TOMM6
FASTK	MFN2	PPT2	SLC17A3
FBH1	MFSD8	PSAP	H3F3B
FBXW7	MID2	PSAPL1	HACL1
FEM1B	MIR199A1	PTGDR	ATP7B
FGA	MIRLET7B	PTGDS	PKIB
FGB	MLST8	RAB34	KLHL10
FGF10	MT3	RAB3A	SS18
FGFR1	MTCL1	RAB7A	ZNF812
FGFR3	MTDH	RAC2	DIS3L2
FGG	MTM1	RUBCNL	TRPT1
FHIT	MTMR3	S100A13	PGRMC2
FIGNL1	MTMR4	SCAR82	CDYL
FIS1	MTMR8	SGSH	OR8B12
FNIP2	MTMR9	SLC11A1	ENGASE
FXN	MTOR	SLC11A2	RANBP3
FYN	NCOA4	SLC17A5	SLC39A5
FZD9	NEDD4	SMPD1	NOL8
G0S2	NLRP6	SNAP23	ADAM22
GABARAP	NOD1	SNAPIN	SLC52A2
GATA1	NOD2	SNX16	ZNF280D
GATA4	NPC1	SNX4	HIST1H3E
GCLM	NPRL2	SORL1	PRKCSH
GDNF	NRBP2	SORT1	PFDN2
GFRAL	NUPR1	SPAG9	SLC7A6OS
GGCT	OPTN	SPHK2	POMZP3
GHITM	ORMDL3	SQSTM1	PRMT3
GNAI2	OSBPL7	STXBP1	DHODH
GNAI3	PAFAH1B2	STXB2	CEP85L
GPER1	PARK7	SUMF1	C12orf68
GPX1	PHB2	SYK	NSMF
GRINA	PHF23	SYTL4	TIMM17B
GSDME	PIK3C2A	TCIRG1	DDX52
GSK3A	PIK3C3	TFEB	BAI3
GSK3B	PIK3CA	TMEM106B	KLHL28
GSKIP	PIK3CB	TPP1	BACH2
GSTP1	PIK3R2	UNC13D	PRKAG2
GZMB	PIM2	VAMP7	RPS11
HDAC1	PINK1	VAMP8	MAP1LC3B
HERPUD1	PIP4K2A	VPS33A	SLC8A3
HGF	PIP4K2B	VPS33B	SLFN14
HIC1	PIP4K2C	VPS4A	SECISBP2L
HIF1A	PJVK	WASH3P	NECAB2
HINT1	PLEKHF1	ZFYVE16	ATP6AP1
HIP1	PLK2		FOSB
HIP1R	PLK3		LACC1
HIPK1	POLDIP2		LMOD1
HIPK2	PRKAA1		ZNF221
HMGGB1	PRKAA2		SLC35E3
HMOX1	PRKAB1		ZNF543
HNRNP1K	PRKAB2		CBY3
HRAS	PRKACA		CHRNA5
HRK	PRKAG1		M6PR
HSPA1A	PRKAG2		FANCG
HSPA1B	PRKAG3		TRIB1
HSPB1	PRKD1		ABCC12
HTRA2	PRKN		SPCS2
HTT	PSAP		TMEM177
HYAL2	PTPN22		ACTR1A
HYOU1	PYCARD		ANKHD1-EIF4EBP3

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IFI27	RAB3GAP1	APEX2
IFI27L1	RAB3GAP2	TOMM22
IFI27L2	RAB7A	ZNF446
IFI6	RAB8A	ANTXR1
IFNB1	RALB	B4GALT3
IFNG	RASIP1	DCAF13
IGF1	RB1CC1	JUN
IKBKE	RETREG1	TXNDC9
IL12A	RETREG3	PEX16
IL19	RHEB	UBAC2
IL1A	RIPK2	HCN1
IL1B	RMC1	ASB10
IL2	RNF152	ST6GALNAC3
IL20RA	RNF41	FAM124A
IL33	RNF5	ZMAT1
IL4	ROCK1	ERVV-2
IL6R	RPTOR	OBP2A
IL7	RRAGA	VBP1
INCA1	RRAGB	TTL2
ING2	RRAGC	CENPL
ING5	RRAGD	CCDC70
INHBA	RUBCN	TNMD
INHBB	RUFY4	EBP
INS	SCFD1	LYPD3
ITGA6	SCOC	GA3
ITGAM	SEC22B	ASB9
ITGAV	SESN1	NOP16
ITM2C	SESN2	OR10AD1
ITPR1	SESN3	ANTXR2
ITPRIP	SH3BP4	HNRNPR
IVNS1ABP	SH3GLB1	AFAP1
JAK2	SIRT1	EIF6
JMY	SIRT2	TAS2R41
JUN	SLC38A9	MYPN
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KRT18	SNCA	GEMIN2
KRT8	SNRNP70	GRN
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LGALS12	SNX5	LRRC7
LGALS3	SNX6	GDPD1
LRRK2	SOGA1	CYB5B
LTBR	SOGA3	URB2
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MSH6	TRIM14	CCDC61
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SELENOS
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SFPQ
SFRP1
SFRP2
SGMS1
SGPL1
SGPP1
SH3RF1
SHH
SHISA5
SIAH1
SIAH2
SIRT1
SIVA1
SKIL
SLC25A5
SLC35F6
SLC9A3R1
SMAD3
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LYPD4
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UBAC1
FABP12
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TMED4
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KRCC1
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CLDN18
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CDK6
AFF1
ITGB8
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MCPH1
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DDN
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TSACC
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PNN
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SERPINB1
FAM161A
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IGSF9

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SYVN1
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THBS1
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TNFRSF25
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TRIAP1
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ZNF205
ZNF385A
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KLF3
PRELID1
VPS18
SQLE
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KATNB1
C8orf37
MPZ
CYP2R1
C7orf55
PEX14
BCL2L2
C7orf50
RRP12
ZNF160
TRHR
NCAPH
ZC3H7B
WDR70
RSPH3
HSPB7
METTL13
C21orf33
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SMAD4
KRT78
AKT2
MXD3
ADAM15
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RNF26
CTBP1
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PLEKHA5
TNPO3
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HLCS
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SYT5
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SYNE2
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SARM1
ATP6V1A
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ZEB1
SAV1
NKTR
TMPRSS11D
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PIGW
OCA2
SFI1
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ZNF565
PEX6
GPC1
DHRS13
ART1
GRHPR
SDR42E1
DNMT1
LTA
EXOC1
RPS12
TAL2
CST9L
TAPT1
KLF1
GRAMD1A
HLA-B
NAV1
C16orf92
AFTPH
FAM83E
CLIP2
Cxorf57
FUBP1
UBE2E1
AK5
ZNF653
TNRC6B
RAB37
OR52N1
SEC14L6
ZNF23
SULF1
C7orf41
STK17A
TARM1
RAB2A
CHST4
MAT2A
SLC35G2
UCMA
AFF2
TAX1BP3
COG2

PIK3CD
NME2
HIST1H2AB
TAGLN
MIP
SCRN1
ATAD3A
DDX1
C15orf53
KRTAP10-4
MMD2
MTHFS
ARSD
DCLRE1C
HSP90A81
ITGAE
PWP2
HIST1H2AD
LRP5
USP18
RETNLB
CNTRL
HOXD9
CNTNAP1
COPE
PSD3
ZNF10
OSGIN2
EBLN1
TMEM44
DOK4
TRAF1
CENPO
SESN1
TAF9
RBBP7
ZNF419
DHX15
GML
CD97
RFWD3
RER1
TNFSF10
CORO2B
ICOSLG
MAP3K1
RGS6
ZNF407
CIRBP
SMYD2
FOLR3
C17orf85
STPG2
TSSC4
FZD1
MTMR4
AGBL3
GTF3C3
TTLL11
UBXN2A
TGFB2
CLIC5
ACSM5
OSCAR
TMEM57
MKI67IP
KIAA0087
CCDC30
ECI1
TM9SF4
INF2
CDRT1
HM13
RAP1B
GSTA5
KATNAL2
MAS1L
CACNA1C
CDT1
HDGFL1
GDAP2
SYCP1
STK3
BPI
GPR15
C7orf57
FAM217A
CDC42BPA
APOL4
TBC1D14
TTF2
LEPROTL1
HS3ST3A1
EDF1
WDR20
TMEM41A
FAM120B
IQCK
CENPI
PAK1IP1
CWC22
AEN
LSM7
GSK3B
ADAMTSL3
STK32C
POLE2
ESPNL
LILRA2
IFT88
KBTBD4
PLEKHO1
MBOAT1
MSANTD2
VCP
BFAR
NFIC
GAR1
ENDOV

CCDC144NL
UBE3C
PRPF3
OR9Q2
IFI35
ELF2
CCDC42B
CCDC176
ZBTB44
GRPEL1
PDC
ANKLE2
IGF2R
NRARP
ATP1A3
CSNK2B
NSF
PSMB6
MS4A13
PARD3
SND1
DND1
WB5P5
OR6C74
KAL1
MTPN
ADAM17
SFN
POFUT1
MPND
MAGED1
NKRFL
ATP5L
KCNMB2
CERS3
CTLA4
ZFP62
ZNF155
GTF2H1
SBF2
NT5M
CCNE1
FRG1
AQP6
ZBED4
GRB2
SERPINA3
ADM
AMZ2
CD200R1
C8B
IQGAP2
OR2M5
TTC4
TMEM102
INPP4A
RPS3A
RRM2
LPCAT3
WIBG
ANGPTL6
HIGD2B
PRKD1
FAM186B
PROSC
EMILIN3
TMEM219
MRPS36
TCEA3
KCNJ6
SNN

Supplementary Table 3 the information of 52 PCD genes in LUAD

gene_name	log2FoldChange	lfcSE	stat	pvalue	padj
BIK	2.00106575	0.16494956	12.1313796	7.2026E-34	1.8063E-32
BRCA1	1.47609135	0.1298307	11.3693554	5.9425E-30	1.1945E-28
CHEK2	1.47900828	0.11448219	12.9191119	3.5117E-38	1.1144E-36
E2F1	1.45776262	0.14270982	10.2148726	1.701E-24	2.4179E-23
E2F2	2.33705661	0.14668775	15.9321871	3.7887E-57	3.1126E-55
ENO1	1.18092634	0.0969699	12.1782778	4.0576E-34	1.0333E-32
GGCT	1.70031974	0.10841757	15.683065	1.9749E-55	1.5002E-53
ITM2C	1.19768671	0.11930083	10.0392153	1.0249E-23	1.3857E-22
KRT18	1.1940012	0.13106233	9.11017848	8.2247E-20	8.3628E-19
KRT8	1.27035247	0.13196229	9.62663268	6.1719E-22	7.3722E-21
MELK	3.61234179	0.17091169	21.1357206	3.734E-99	2.2388E-96
MLLT11	2.11705228	0.23467274	9.02129602	1.8588E-19	1.8361E-18
MMP9	1.99249621	0.20775452	9.59062751	8.7551E-22	1.0344E-20
PDK1	1.70997329	0.11719393	14.5909714	3.206E-48	1.7387E-46
PMAIP1	1.64251139	0.17565899	9.35056828	8.7178E-21	9.5872E-20
PPIF	1.07564269	0.09290903	11.5773752	5.3664E-31	1.1462E-29
RNF186	5.02292709	0.41123819	12.2141553	2.612E-34	6.7214E-33
TNFRSF25	1.93587869	0.15253312	12.6915301	6.5886E-37	1.9749E-35
GSDMB	1.72832504	0.14655752	11.7928102	4.2512E-32	9.6566E-31
AIM2	2.81494372	0.23369958	12.0451382	2.0573E-33	5.0425E-32
CP	3.48864787	0.2213479	15.7609259	5.778E-56	4.4813E-54
FANCD2	1.54039002	0.09936755	15.501943	3.3656E-54	2.416E-52
NQO1	3.03745694	0.21520204	14.1144432	3.0945E-45	1.4315E-43
PROM2	2.60571419	0.15844105	16.4459542	8.9661E-61	8.2867E-59
SLC7A11	3.06709536	0.23907255	12.8291405	1.1261E-37	3.5057E-36
EEF1A2	6.35492205	0.32779182	19.3870672	9.9236E-84	2.5301E-81
GAPDH	1.66196889	0.12132864	13.6980759	1.0425E-42	4.2006E-41
TRAF5	1.3295247	0.11439563	11.6221629	3.1798E-31	6.8712E-30
JAK3	1.10929702	0.11317958	9.80121167	1.1124E-22	1.406E-21
CDKN2A	3.56299729	0.25871076	13.7721264	3.7501E-43	1.5592E-41
MMP1	4.92906306	0.28866086	17.0756197	2.2542E-65	2.5446E-63
BLK	1.24472433	0.22844929	5.44858051	5.0773E-08	1.8939E-07
CXCL13	2.64081676	0.24769246	10.6616761	1.538E-26	2.4757E-25
CHRNA5	3.63368293	0.23142646	15.7012424	1.4831E-55	1.1324E-53
TMEM177	1.57023601	0.08119442	19.3392115	2.5129E-83	6.0917E-81
DCAF13	1.33993053	0.09251592	14.4832426	1.5463E-47	8.0703E-46
TMPRSS4	4.82128759	0.21660475	22.2584577	9.341E-110	1.219E-106
TNC	1.55322054	0.21252172	7.30852613	2.7009E-13	1.6737E-12
HS6ST2	3.68510737	0.19440693	18.9556377	3.9672E-80	8.341E-78
IGSF9	3.23840393	0.16456882	19.6781138	3.3214E-86	9.823E-84
GIN51	3.03731533	0.14949818	20.3167375	9.1456E-92	3.8276E-89
ITGB4	1.67562812	0.1840665	9.10338454	8.756E-20	8.8827E-19
CD79A	2.01179515	0.21099868	9.53463385	1.5042E-21	1.7423E-20
CGREF1	4.2381889	0.24986005	16.9622513	1.5624E-64	1.7114E-62
FAM155B	3.20183609	0.23512578	13.6175458	3.1498E-42	1.2366E-40
SULF1	2.5454902	0.18184263	13.9983141	1.5961E-44	7.0738E-43

CENPO	1.10082225	0.10011498	10.9955796	4.0133E-28	7.1704E-27
CDT1	2.75137083	0.15787966	17.4270126	5.1465E-68	6.5987E-66
POLE2	2.34753114	0.13736272	17.0900159	1.7613E-65	2.0035E-63
CTLA4	1.03014025	0.15961947	6.45372537	1.0913E-10	5.3574E-10
CCNE1	3.28161507	0.1847596	17.76154	1.4033E-70	2.0411E-68
RRM2	3.19820731	0.1608815	19.8792735	6.1518E-88	2.0067E-85

Supplementary Table 4 the C-index of each model

TCGA	TCGA	GSE31210	GSE50081	GSE72094
Lasso	0.66576869	0.54465146	0.62315975	0.61824201
RSF+Lasso	0.66576869	0.54465146	0.62315975	0.61824201
RSF+Enet[alp	0.665707	0.54127851	0.62546693	0.61923523
Enet[alpha= 0	0.66593321	0.54336653	0.62294001	0.61916901
RSF+Enet[alp	0.66593321	0.54336653	0.62294001	0.61916901
Enet[alpha= 0	0.66568644	0.54433023	0.62294001	0.61837444
RSF+Enet[alp	0.66568644	0.54433023	0.62294001	0.61837444
CoxBoost+En	0.67496093	0.55187922	0.61590859	0.60857474
Enet[alpha= 0	0.6662828	0.53822679	0.62656559	0.61940076
RSF+Enet[alp	0.6662828	0.53822679	0.62656559	0.61940076
CoxBoost+En	0.67498149	0.55155798	0.61579873	0.6079457
CoxBoost+Ri	0.67962902	0.54850626	0.6145902	0.60741599
CoxBoost	0.66617998	0.54481208	0.62272028	0.61595762
Enet[alpha= 0	0.66387678	0.54240283	0.62294001	0.62029465
CoxBoost+La	0.67919717	0.55316415	0.61019556	0.60632346
Lasso+StepC	0.66626224	0.55701895	0.6197539	0.60562821
CoxBoost+St	0.66626224	0.55701895	0.6197539	0.60562821
RSF+Enet[alp	0.66679691	0.53356891	0.62997144	0.61691773
CoxBoost+St	0.67014889	0.54914873	0.61228302	0.60533024
Enet[alpha= 0	0.66095665	0.53292644	0.61711712	0.62393643
GBM	0.77985934	0.58801799	0.53911228	0.52178447
Lasso+StepC	0.66346549	0.56103437	0.61535926	0.58814766
StepCox[both	0.66764004	0.54449085	0.61338167	0.59731833
StepCox[both	0.66788681	0.54465146	0.61283235	0.59711968
StepCox[both	0.65853007	0.54449085	0.61557899	0.60350935
StepCox[back	0.65853007	0.54449085	0.61557899	0.60350935
StepCox[back	0.6677223	0.54465146	0.61228302	0.59665618
StepCox[back	0.66794851	0.54465146	0.61107449	0.59629201
StepCox[both	0.66745496	0.54449085	0.61107449	0.5962589
StepCox[back	0.66745496	0.54449085	0.61107449	0.5962589
StepCox[back	0.66745496	0.54416961	0.61107449	0.59642443
StepCox[both	0.66776343	0.54465146	0.60986596	0.59635822
StepCox[both	0.66722876	0.54449085	0.61041529	0.59596093
StepCox[both	0.66731101	0.54449085	0.61019556	0.59592783
StepCox[both	0.66835979	0.54465146	0.60964623	0.59513326
StepCox[both	0.66755779	0.54449085	0.60964623	0.59592783
StepCox[back	0.66745496	0.54449085	0.60964623	0.59602715
StepCox[back	0.66735214	0.54416961	0.60997583	0.59602715
StepCox[back	0.66735214	0.54449085	0.6094265	0.59546433
StepCox[back	0.6682981	0.54481208	0.60964623	0.59377587
StepCox[back	0.66724932	0.54433023	0.60953637	0.59536501
StepCox[both	0.66739327	0.54433023	0.60931663	0.59539811
StepCox[back	0.66739327	0.54433023	0.60931663	0.59539811
StepCox[back	0.66729045	0.54433023	0.60920677	0.59539811
StepCox[both	0.66731101	0.54433023	0.60898704	0.59553054
StepCox[back	0.66747553	0.54416961	0.60898704	0.59543122

StepCox[bot	0.66747553	0.54416961	0.60898704	0.59539811
StepCox[bot	0.66745496	0.54416961	0.60887717	0.59546433
RSF+StepCc	0.66706424	0.54433023	0.60799824	0.5953319
RSF+StepCc	0.66706424	0.54433023	0.60799824	0.5953319
StepCox[bot	0.66706424	0.54433023	0.60799824	0.5953319
StepCox[bac	0.66706424	0.54433023	0.60799824	0.5953319
RSF+GBM	0.79587892	0.59139094	0.50043946	0.5223804
RSF+Enet[al	0.66087439	0.46980405	0.61810591	0.62403576
CoxBoost+C	0.79044995	0.49365564	0.53883762	0.51014733
StepCox[bot	0.77535576	0.49365564	0.53845309	0.51082602
StepCox[bac	0.77031751	0.49365564	0.53845309	0.51046184
Lasso+GBM	0.7963519	0.49365564	0.51054713	0.50554544
SuperPC	0.57304434	0.48715066	0.57547792	0.62264526
RSF+SuperF	0.61071811	0.48168969	0.57734564	0.54259229
survivalSVM	0.53539113	0.49469965	0.54372665	0.60440324
RSF+surviva	0.53539113	0.49469965	0.54372665	0.60440324
StepCox[bac	0.53495928	0.48939929	0.55603164	0.58652541
CoxBoost+s	0.54217735	0.48747189	0.51087673	0.62214865
Lasso+survi	0.54217735	0.48747189	0.51087673	0.62214865
StepCox[bot	0.52033808	0.48988114	0.54207866	0.58854494
StepCox[bac	0.52033808	0.48988114	0.54207866	0.58854494
CoxBoost+S	0.57964547	0.48297462	0.53900242	0.49084589
Lasso+Supe	0.57964547	0.48297462	0.53900242	0.49084589
StepCox[bot	0.54700995	0.47767427	0.52208306	0.52418474

Supplementary Table 5 GSVA results of each cohort

GSVA enrichment HALLMARK functions between high and low-PCDscoregroup in TCGA-LUAD

Tag	logFC	AveExpr	t	P.Value	adj.P.Val	B
G2M_CHECKPOINT	0.42998304	-0.0113618	12.6597597	4.34E-32	2.17E-30	61.9658964
GLYCOLYSIS	0.24251821	-0.0075697	12.3299912	1.03E-30	2.57E-29	58.8253401
MITOTIC_SPINDLE	0.30093883	-0.0047231	12.0151667	2.03E-29	3.38E-28	55.8687043
E2F_TARGETS	0.4334935	-0.0149688	11.7240958	3.07E-28	3.84E-27	53.1729615
MTORC1_SIGNALING	0.30668872	-0.0095757	11.3986298	6.15E-27	6.15E-26	50.2036044
MYC_TARGETS_V1	0.35919288	-0.0116238	9.9626753	1.84E-21	1.53E-20	37.7234268
MYC_TARGETS_V2	0.35153665	-0.0169624	9.73714142	1.21E-20	8.61E-20	35.8631201
UNFOLDED_PROTEIN_RESPONSE	0.22773726	-0.0064129	7.94971935	1.23E-14	7.72E-14	22.2122447
BILE_ACID_METABOLISM	-0.1239946	-0.0011298	-7.7473424	5.20E-14	2.89E-13	20.7985643
PI3K_AKT_MTOR_SIGNALING	0.15120251	-0.0073391	7.59457627	1.51E-13	7.55E-13	19.7504499
HYPOXIA	0.14897921	-0.0033061	7.4873665	3.16E-13	1.44E-12	19.0247976
DNA_REPAIR	0.1951959	-0.0067379	6.92268604	1.35E-11	5.64E-11	15.3408238
KRAS_SIGNALING_DN	-0.1260078	0.01010012	-6.4612133	2.45E-10	9.43E-10	12.5080213
PROTEIN_SECRETION	0.18100196	-0.0087568	6.24340183	9.10E-10	3.25E-09	11.2283771
ANDROGEN_RESPONSE	0.11459792	-0.0059022	5.39597773	1.05E-07	3.50E-07	6.61338642
UV_RESPONSE_UP	0.08345384	-0.0055775	5.12888863	4.16E-07	1.30E-06	5.28243715
REACTIVE_OXYGEN_SPECIES_PATHWAY	0.14434185	-0.0117754	5.00779339	7.63E-07	2.24E-06	4.69903531
CHOLESTEROL_HOMEOSTASIS	0.10623138	-0.0105162	4.83578366	1.76E-06	4.90E-06	3.89207295
ESTROGEN_RESPONSE_LATE	0.06875318	-0.007343	4.81700295	1.93E-06	5.08E-06	3.80551937
MYOGENESIS	-0.0948045	0.01335622	-4.6605996	4.04E-06	9.81E-06	3.09667202
APOPTOSIS	0.09373766	0.00393648	4.65633405	4.12E-06	9.81E-06	3.07764014
TGF_BETA_SIGNALING	0.11946048	0.00495005	4.35734017	1.60E-05	3.63E-05	1.78363209
OXIDATIVE_PHOSPHORYLATION	0.13485073	-0.0193127	3.65428447	0.00028493	0.00061941	-0.9425714
APICAL_JUNCTION	0.07593965	0.00695298	3.6378114	0.00030328	0.00063183	-1.0010349
PANCREAS_BETA_CELLS	-0.0939544	0.00324361	-3.5080215	0.00049183	0.00098366	-1.4528837
SPERMATOGENESIS	0.05428515	-0.0057223	3.00166792	0.00281817	0.00541955	-3.0653778
ADIPOGENESIS	0.06602383	-0.0057969	2.88314184	0.00410549	0.00760276	-3.4079259
TNFA_SIGNALING_VIA_NFKB	0.08016855	0.00163177	2.81181799	0.00511819	0.00913962	-3.607622
ESTROGEN_RESPONSE_EARLY	0.04424839	-0.0009256	2.75661871	0.00605192	0.01043243	-3.7588438
P53_PATHWAY	0.04974804	0.00139366	2.74540434	0.00625946	0.01043243	-3.7892108
ALLOGRAFT_REJECTION	-0.0848171	0.0087736	-2.5106537	0.01236269	0.01993982	-4.3972388
COAGULATION	-0.0506896	0.00809967	-2.3386001	0.01974601	0.03085314	-4.8092199
EPITHELIAL_MESENCHYMAL_TRANSITION	0.07868264	0.00266501	2.18576903	0.02929182	0.04438154	-5.1511681
APICAL_SURFACE	0.04443095	0.0070855	2.13203239	0.03348694	0.0492455	-5.2660148
KRAS_SIGNALING_UP	-0.0370139	0.01123759	-1.5994111	0.11035575	0.15458011	-6.251914
ANGIOGENESIS	0.04742117	0.01004451	1.59518433	0.11129768	0.15458011	-6.2586256
HEDGEHOG_SIGNALING	-0.0398238	0.01279106	-1.5514624	0.12141842	0.16407895	-6.327018
INTERFERON_ALPHA_RESPONSE	0.05717493	0.00368903	1.53022236	0.1265889	0.16656434	-6.3595635
NOTCH_SIGNALING	0.03039098	0.00995452	1.36722344	0.17216455	0.22072379	-6.5945156
IL6_JAK_STAT3_SIGNALING	-0.0388118	0.01547518	-1.3143251	0.18933447	0.23666809	-6.6651264
FATTY_ACID_METABOLISM	0.02847593	-0.0150587	1.26919339	0.20495772	0.24994844	-6.7231825
INFLAMMATORY_RESPONSE	-0.0299335	0.01428739	-1.0410861	0.29833461	0.35516025	-6.9857468
IL2_STAT5_SIGNALING	-0.0179283	0.00960439	-0.8588946	0.39080684	0.45442655	-7.1583645
UV_RESPONSE_DN	0.01510063	0.00811982	0.61950097	0.53586625	0.60893892	-7.3349738
XENOBIOTIC_METABOLISM	-0.0046306	-0.0050399	-0.2714782	0.7861344	0.87348267	-7.4898098
WNT_BETA_CATENIN_SIGNALING	-0.0053808	0.01080693	-0.244905	0.80662968	0.87677139	-7.4966639
HEME_METABOLISM	0.00319401	-0.0026309	0.19988756	0.84164912	0.8953714	-7.5066659
INTERFERON_GAMMA_RESPONSE	0.00392394	0.00991427	0.1146049	0.90880393	0.94272364	-7.520064
COMPLEMENT	0.00225769	0.00858394	0.09560892	0.92386917	0.94272364	-7.5220589
PEROXISOME	0.00036487	-0.0055697	0.02029711	0.98381439	0.98381439	-7.5264196

GSVA enrichment HALLMARK functions between high and low-PCDscoregroup in GSE50081

Tag	logFC	AveExpr	t	P.Value	adj.P.Val	B
MYC_TARGETS_V2	0.40454067	-0.0218388	10.1125869	1.82E-19	9.08E-18	33.5068961
E2F_TARGETS	0.4542404	-0.0324492	9.93925806	5.69E-19	1.42E-17	32.3768029
G2M_CHECKPOINT	0.39131737	-0.0223526	9.27730921	4.23E-17	7.05E-16	28.1196815
DNA_REPAIR	0.22437481	-0.0034042	7.33850811	6.33E-12	7.91E-11	16.3789228
GLYCOLYSIS	0.18534653	0.00473505	7.1953282	1.45E-11	1.45E-10	15.5671874
MTORC1_SIGNALING	0.26476318	-0.0001034	6.96182188	5.47E-11	4.55E-10	14.2629756
SPERMATOGENESIS	0.13705404	-0.0060736	6.84779986	1.04E-10	7.41E-10	13.6352906
MYC_TARGETS_V1	0.30548907	-0.0126652	6.73285571	1.97E-10	1.23E-09	13.008826
HYPOXIA	0.16560044	0.0061039	6.09035592	6.23E-09	3.46E-08	9.63090015
MITOTIC_SPINDLE	0.15126204	-0.0060318	5.2671278	3.77E-07	1.89E-06	5.6434051
UV_RESPONSE_UP	0.12084831	0.00347828	5.12768226	7.27E-07	3.30E-06	5.00969055
WNT_BETA_CATENIN_SIGNALING	0.12861425	-0.0004052	4.95076589	1.64E-06	6.83E-06	4.22421595
UNFOLDED_PROTEIN_RESPONSE	0.14989728	0.00489822	4.7716914	3.66E-06	1.41E-05	3.45081795
COAGULATION	-0.1177664	0.01808585	-4.0717475	6.87E-05	0.00024544	0.64814748
PI3K_AKT_MTOR_SIGNALING	0.09626966	0.00689624	3.74365221	0.00024101	0.00080338	-0.5379462

OXIDATIVE_PHOSPHORYLATION	0.15983546	0.00257858	3.70825231	0.00027465	0.00085827	-0.6608261
PANCREAS_BETA_CELLS	-0.0908402	0.00379563	-3.671425	0.00031431	0.00092445	-0.7875907
BILE_ACID_METABOLISM	-0.0851669	0.00110505	-3.5439368	0.00049747	0.00138185	-1.217932
HEME_METABOLISM	-0.0671888	0.0066789	-3.3548526	0.00096076	0.00252832	-1.8316055
CHOLESTEROL_HOMEOSTASIS	0.09404753	0.00375391	3.06572281	0.00249165	0.00622912	-2.7119347
KRAS_SIGNALING_UP	-0.0942171	0.01565082	-3.0135074	0.00293898	0.00699756	-2.863299
MYOGENESIS	-0.0770796	0.00837093	-2.7257852	0.00702189	0.01595885	-3.6546981
ALLOGRAFT_REJECTION	-0.1121135	0.00681413	-2.5527552	0.01148268	0.02475192	-4.0953148
APICAL_SURFACE	0.06964485	0.01044256	2.54043549	0.01188092	0.02475192	-4.1256613
REACTIVE_OXYGEN_SPECIES_PATHWAY	0.08625064	0.01095226	2.31909102	0.02146628	0.04293257	-4.6474128
UV_RESPONSE_DN	-0.0760233	0.01577033	-2.13201	0.03430572	0.06597254	-5.0533439
ESTROGEN_RESPONSE_LATE	0.04586458	0.00316417	2.04852074	0.04190057	0.07759365	-5.2240135
COMPLEMENT	-0.0688953	0.01452027	-1.8888201	0.06045753	0.10795988	-5.5322725
INTERFERON_GAMMA_RESPONSE	-0.0769053	0.0093865	-1.6105409	0.10895957	0.18786133	-6.011679
P53_PATHWAY	0.04184566	0.00392074	1.48662591	0.13879081	0.23131802	-6.2012956
ADIPOGENESIS	0.04480044	0.00963237	1.43334193	0.1534231	0.24745662	-7.0235263
FATTY_ACID_METABOLISM	0.0432274	0.01027545	1.30118142	0.19479071	0.30436048	-6.4573306
IL6_JAK_STAT3_SIGNALING	-0.0465006	0.01290892	-1.1488071	0.25209681	0.38196486	-6.6426508
APICAL_JUNCTION	0.03059531	0.00864547	1.11210333	0.26751554	0.38253949	-6.6838955
INFLAMMATORY_RESPONSE	-0.0434631	0.01356554	-1.1114923	0.26777764	0.38253949	-6.684571
INTERFERON_ALPHA_RESPONSE	-0.0520514	0.00513076	-1.0077681	0.31486268	0.43730928	-6.7939138
IL2_STAT5_SIGNALING	-0.0289072	0.01251047	-0.9355302	0.35071669	0.47394148	-6.8638088
TNFA_SIGNALING_VIA_NFKB	0.03045472	0.00770569	0.744868	0.45728278	0.60168787	-7.0235261
TGF_BETA_SIGNALING	-0.0269244	0.01479187	-0.6749166	0.50055896	0.64174226	-7.0730917
EPITHELIAL_MESENCHYMAL_TRANSITION	0.03122729	0.01094246	0.6319758	0.52817138	0.66021423	-7.1011105
PROTEIN_SECRETION	-0.0262293	0.01990055	-0.5966939	0.55143049	0.66146549	-7.1227598
XENOBIOTIC_METABOLISM	-0.0137783	0.01061572	-0.5854544	0.55894519	0.66146549	-7.1293963
APOPTOSIS	0.01588059	0.00974914	0.57073699	0.56886032	0.66146549	-7.1378963
KRAS_SIGNALING_DN	0.012086	0.00258651	0.48211778	0.63028377	0.71623155	-7.1845173
PEROXISOME	-0.009759	0.00261412	-0.3654055	0.71521999	0.79468888	-7.2339684
HEDGEHOG_SIGNALING	-0.0103351	0.00843458	-0.320666	0.7488201	0.79768747	-7.2493188
ANGIOGENESIS	0.01404232	0.01350775	0.31933666	0.74982623	0.79768747	-7.2497443
ESTROGEN_RESPONSE_EARLY	0.00200161	0.00758029	0.08052791	0.93590317	0.97489913	-7.2975159
ANDROGEN_RESPONSE	0.00133096	0.01443675	0.03999766	0.96813749	0.98743965	-7.2999604
NOTCH_SIGNALING	-0.0004665	0.00279287	-0.0157637	0.98743965	0.98743965	-7.3006366

GSVA enrichment HALLMARK functions between high and low-PCDscoregroup in GSE72094

Tag	logFC	AveExpr	t	P.Value	adj.P.Val	B
GLYCOLYSIS	0.21710328	-0.0059096	14.3845921	7.93E-39	3.97E-37	77.3308448
MYC_TARGETS_V2	0.35724782	-0.0181254	12.2438258	6.34E-30	1.58E-28	56.9627948
G2M_CHECKPOINT	0.30665288	-0.0173738	11.6562407	1.34E-27	2.24E-26	51.6454177
MYC_TARGETS_V1	0.2684288	-0.015591	11.5378618	3.89E-27	4.87E-26	50.590782
E2F_TARGETS	0.33545895	-0.0226865	11.4986279	5.53E-27	5.53E-26	50.2425272
MTORC1_SIGNALING	0.20777102	-0.006153	11.4602404	7.79E-27	6.49E-26	49.9024088
DNA_REPAIR	0.15891522	-0.0110652	9.89802454	5.12E-21	3.66E-20	36.6282953
MITOTIC_SPINDLE	0.13127992	-0.008993	8.60849483	1.27E-16	7.96E-16	26.624335
UNFOLDED_PROTEIN_RESPONSE	0.13411516	-0.0063133	7.0604341	6.38E-12	3.55E-11	15.9739545
OXIDATIVE_PHOSPHORYLATION	0.14000901	-0.0114242	6.25885245	9.10E-10	4.55E-09	11.1198978
SPERMATOGENESIS	0.08030376	-0.0049354	5.94343803	5.62E-09	2.56E-08	9.34380679
ESTROGEN_RESPONSE_LATE	0.06905733	-0.0022501	5.71522399	2.00E-08	8.35E-08	8.10766535
BILE_ACID_METABOLISM	-0.0829384	0.00096038	-5.5688042	4.43E-08	1.71E-07	7.33659054
ALLOGRAFT_REJECTION	-0.1437355	0.01401155	-4.8829511	1.46E-06	5.21E-06	3.9599172
HYPOXIA	0.0842771	0.00031816	4.67018078	3.99E-06	1.33E-05	2.99306521
KRAS_SIGNALING_DN	-0.0469789	0.0068902	-4.468917	9.98E-06	3.12E-05	2.11450914
HEDGEHOG_SIGNALING	-0.0913385	0.00529667	-4.429016	1.19E-05	3.50E-05	1.94453034
REACTIVE_OXYGEN_SPECIES_PATHWAY	0.09825984	-0.0043763	4.27935369	2.29E-05	6.37E-05	1.31943595
KRAS_SIGNALING_UP	-0.0830934	0.0163604	-4.2252653	2.89E-05	7.62E-05	1.09839178
IL6_JAK_STAT3_SIGNALING	-0.1053056	0.01622959	-3.8265279	0.00014847	0.00037117	-0.4505068
MYOGENESIS	-0.0695615	0.00553376	-3.5989193	0.00035527	0.00084589	-1.2702205
UV_RESPONSE_DN	-0.0675196	0.00571081	-3.572143	0.00039253	0.00089211	-1.3635402
HEME_METABOLISM	-0.0396568	0.00064675	-3.4399678	0.00063638	0.00138344	-1.8145324
CHOLESTEROL_HOMEOSTASIS	0.06201232	-0.0013304	3.31714997	0.00098365	0.00199013	-2.2191329
IL2_STAT5_SIGNALING	-0.0657022	0.01273005	-3.312192	0.00100082	0.00199013	-2.2351724
INFLAMMATORY_RESPONSE	-0.0857084	0.0151908	-3.3025889	0.00103487	0.00199013	-2.2661739
UV_RESPONSE_UP	0.04417687	0.00029316	3.26428057	0.00118169	0.00218832	-2.3889915
PROTEIN_SECRETION	0.05112901	-0.0031184	3.22326058	0.00136016	0.00242886	-2.5189877
PI3K_AKT_MTOR_SIGNALING	0.0404931	0.00291661	2.88598284	0.00409087	0.00705322	-3.528099
COMPLEMENT	-0.0589269	0.0134598	-2.6770296	0.00770107	0.01283512	-4.0993966
APICAL_SURFACE	-0.0451841	0.00774715	-2.4779077	0.01358394	0.02190958	-4.6050983
FATTY_ACID_METABOLISM	0.04144669	-0.0061453	2.29511976	0.02218869	0.03438816	-5.0358288
EPITHELIAL_MESENCHYMAL_TRANSITION	0.07455196	0.00378558	2.28642747	0.02269618	0.03438816	-5.0555098

ANGIOGENESIS	0.05691404	0.00874816	2.17375336	0.03024784	0.04448211	-5.3040179
TGF_BETA_SIGNALING	-0.0394669	0.00478329	-1.8165594	0.06995427	0.09993467	-6.0103428
COAGULATION	-0.0310036	0.01303114	-1.651746	0.09928865	0.1379009	-6.2942443
INTERFERON_GAMMA_RESPONSE	-0.0480124	0.01126827	-1.5313757	0.12638401	0.1707892	-6.4847434
PEROXISOME	-0.021117	-0.0018099	-1.4895197	0.13705582	0.1803366	-6.5476446
ESTROGEN_RESPONSE_EARLY	0.02020657	0.00047156	1.46365769	0.14399039	0.18460306	-6.5856476
APICAL_JUNCTION	0.02216599	0.00865736	1.15499329	0.24871026	0.31088783	-6.988233
ADIPOGENESIS	0.01307159	-0.0005836	0.83805422	0.40244817	0.49079045	-7.3033605
TNFA_SIGNALING_VIA_NFKB	-0.0214662	0.00237599	-0.7707944	0.44123602	0.52528098	-7.3547389
PANCREAS_BETA_CELLS	-0.0124738	0.00066424	-0.7340097	0.46332769	0.53875313	-7.3850316
P53_PATHWAY	-0.0109465	0.00169943	-0.7163995	0.47411881	0.53877138	-7.3977879
NOTCH_SIGNALING	-0.0083827	0.00302563	-0.4278185	0.66898935	0.7433215	-7.562764
ANDROGEN_RESPONSE	-0.0045704	0.00171808	-0.3083337	0.75797209	0.80754753	-7.6067311
WNT_BETA_CATENIN_SIGNALING	-0.0054064	0.00235797	-0.3068576	0.75909468	0.80754753	-7.607185
INTERFERON_ALPHA_RESPONSE	0.00928355	0.01103864	0.26370867	0.79212594	0.82513119	-7.6194928
XENOBIOTIC_METABOLISM	-0.0020464	0.0031522	-0.1386375	0.88979905	0.90795821	-7.644652
APOPTOSIS	0.00119311	0.00997577	0.06645864	0.9470424	0.9470424	-7.6520538

GSVA enrichment HALLMARK functions between high and low-PCDscoregroup in GSE31210

Tag	logFC	AveExpr	t	P.Value	adj.P.Val	B
GLYCOLYSIS	0.38301869	-0.0045916	17.8020909	1.88E-46	9.40E-45	94.8974394
MTORC1_SIGNALING	0.42344306	-0.0113756	17.6310654	7.27E-46	1.82E-44	93.5474998
UNFOLDED_PROTEIN_RESPONSE	0.34561066	-0.0073474	15.6996736	3.39E-39	5.65E-38	78.2334782
MYC_TARGETS_V1	0.42612733	-0.0212983	14.9228096	1.65E-36	2.06E-35	72.0662094
E2F_TARGETS	0.47213655	-0.0312316	14.5898449	2.32E-35	2.32E-34	69.4277178
G2M_CHECKPOINT	0.39655946	-0.0246535	13.2063169	1.30E-30	1.08E-29	58.5345272
MYC_TARGETS_V2	0.39270014	-0.0242504	12.9347971	1.09E-29	7.80E-29	56.4166747
DNA_REPAIR	0.31020966	-0.009591	12.8536326	2.06E-29	1.29E-28	55.7852668
PROTEIN_SECRETION	0.29239919	-0.0016918	12.0273194	1.25E-26	6.92E-26	49.4088469
OXIDATIVE_PHOSPHORYLATION	0.33493972	-0.0122518	10.4670109	1.60E-21	7.99E-21	37.7162661
PI3K_AKT_MTOR_SIGNALING	0.19667989	-0.0029553	9.75058898	2.90E-19	1.32E-18	32.5554611
REACTIVE_OXYGEN_SPECIES_PATHWAY	0.20242751	-0.0036705	8.42099907	2.86E-15	1.19E-14	23.4464963
ANDROGEN_RESPONSE	0.14535941	-0.0028583	7.97689748	5.28E-14	2.03E-13	20.5665689
UV_RESPONSE_UP	0.15540818	-0.0011948	7.66841791	3.79E-13	1.35E-12	18.62101
HYPOXIA	0.18402293	-0.0014396	7.64554161	4.38E-13	1.46E-12	18.47861
MITOTIC_SPINDLE	0.14216575	-0.0077348	7.59127946	6.17E-13	1.93E-12	18.1419017
MYOGENESIS	-0.1515978	0.00011706	-6.8971616	4.26E-11	1.25E-10	13.9725988
INTERFERON_ALPHA_RESPONSE	0.27746548	0.00092603	6.56941935	2.88E-10	7.99E-10	12.0983408
UV_RESPONSE_DN	-0.1280173	0.00528306	-5.672464	3.85E-08	1.01E-07	7.31075993
INTERFERON_GAMMA_RESPONSE	0.20768953	0.00866199	5.58260145	6.12E-08	1.53E-07	6.8604878
APOPTOSIS	0.1158059	0.00641402	5.41669029	1.42E-07	3.37E-07	6.04396056
ADIPOGENESIS	0.13161947	0.0019125	5.24065913	3.39E-07	7.69E-07	5.19900919
FATTY_ACID_METABOLISM	0.12832255	-0.0023642	5.22506571	3.65E-07	7.94E-07	5.1252379
ESTROGEN_RESPONSE_LATE	0.08322242	3.23E-05	4.80282386	2.69E-06	5.40E-06	3.19596218
SPERMATOGENESIS	0.07049199	-0.0017604	4.80195319	2.70E-06	5.40E-06	3.19212245
BILE_ACID_METABOLISM	-0.0802853	0.00543095	-4.5548726	8.17E-06	1.57E-05	2.12609756
IL6_JAK_STAT3_SIGNALING	0.13524161	0.0026333	4.37084088	1.81E-05	3.35E-05	1.36316316
COMPLEMENT	0.11520645	0.00507262	4.26182781	2.87E-05	5.12E-05	0.92397897
ALLOGRAFT_REJECTION	0.13121237	0.00329676	3.84941746	0.00015017	0.00025891	-0.64966
CHOLESTEROL_HOMEOSTASIS	0.09831607	-0.0040412	3.54883425	0.00046148	0.00076914	-1.7067581
INFLAMMATORY_RESPONSE	0.10111057	0.00590991	3.36890676	0.00087296	0.00137376	-2.3023258
NOTCH_SIGNALING	-0.0843372	0.00600555	-3.3668512	0.0008792	0.00137376	-2.3089667
XENOBIOTIC_METABOLISM	0.06042633	0.00276771	3.34769422	0.00093947	0.00142343	-2.3706785
EPITHELIAL_MESENCHYMAL_TRANSITION	0.1214046	0.00095902	3.19789579	0.00156152	0.00229636	-2.8420887
PEROXISOME	0.06462652	-0.00096	3.12804665	0.00196663	0.00280947	-3.0551028
KRAS_SIGNALING_DN	-0.0370435	0.00315107	-2.9773046	0.00319137	0.00443246	-3.4999392
WNT_BETA_CATENIN_SIGNALING	-0.0599334	0.00279638	-2.8038671	0.00544264	0.00735491	-3.9863665
IL2_STAT5_SIGNALING	0.049473	0.00298012	2.17498421	0.03056194	0.04021308	-5.5175639
P53_PATHWAY	0.0384629	-0.0009502	2.12658799	0.03442681	0.04413693	-5.6200318
PANCREAS_BETA_CELLS	0.04134868	-0.0019837	1.88773119	0.0602116	0.0752645	-6.0930626
TGF_BETA_SIGNALING	-0.0567822	-0.0003828	-1.8110654	0.07132201	0.08697806	-6.2332982
ANGIOGENESIS	0.05254435	0.00296081	1.57357599	0.11684075	0.13909613	-6.6316631
COAGULATION	0.02866824	0.00410528	1.45452451	0.14704597	0.17098368	-6.8107335
HEDGEHOG_SIGNALING	-0.0287901	0.00047397	-1.184954	0.23715247	0.26949144	-7.1649164
HEME_METABOLISM	0.01237505	0.00255379	0.86834661	0.38603123	0.42892359	-7.4893903
KRAS_SIGNALING_UP	0.01868133	0.00612333	0.81331536	0.41680542	0.45304936	-7.5356489
ESTROGEN_RESPONSE_EARLY	-0.0147261	0.00113379	-0.7953492	0.42715929	0.45442478	-7.550099
TNFA_SIGNALING_VIA_NFKB	0.0104004	-0.0028786	0.27954801	0.78005372	0.81255596	-7.8276235
APICAL_SURFACE	0.00447475	0.00846065	0.19531419	0.84530445	0.86255556	-7.8476691
APICAL_JUNCTION	0.00213137	0.00190307	0.10581898	0.91581021	0.91581021	-7.8611768

Supplementary Table 6 The correlation between the IC50 of various drugs and PCD1

	CHEK2	KRT18	GAPDH	MMP1	CHRNA5	TPMRSS4	ITGB4	CD79A	CTLA4	RRM2	PCD1
Camptothecin_1003	-0.0277197	0.21147061	0.03807721	-0.0599118	-0.0078515	0.07258063	0.16814124	-0.3263178	-0.4105553	-0.016624	0.24060552
Cisplatin_1005	-0.3014577	0.13877372	-0.1137259	-0.2116566	-0.1376721	0.12009934	0.23027804	-0.3820834	-0.4682946	-0.269967	0.12822277
Cytarabine_1006	-0.1228067	0.10009897	0.00613326	-0.0574995	-0.1727008	0.06298496	0.18530429	-0.2381881	-0.3043414	-0.0378578	0.17869708
Docetaxel_1007	-0.3708936	-0.1575163	-0.4047335	-0.2409157	-0.3019893	0.06475126	-0.0297939	-0.1296269	-0.0329519	-0.4133552	-0.2595271
Gefitinib_1010	-0.3289532	-0.1808259	-0.1973529	-0.0830007	-0.1552752	-0.0394872	-0.2689281	-0.0531831	-0.073148	-0.2159908	-0.1601608
Navitoclax_1011	-0.4257151	-0.1465191	-0.2062069	-0.0960176	-0.2226856	-0.1362883	-0.064148	-0.3846643	-0.5037999	-0.2535308	0.15576992
Vorinostat_1012	-0.2151488	0.12500688	0.10377596	0.0451534	-0.1010756	0.15473963	0.268215	-0.3295218	-0.3204994	-0.01565773	0.34237699
Nilotinib_1013	-0.3748422	0.04080437	-0.1341602	-0.0286712	-0.1904229	0.06870403	0.20066015	-0.3492303	-0.4195549	-0.1444665	0.27588086
Olaparib_1017	-0.0583499	0.3022778	0.19137643	-0.040632	-0.0195933	0.19119625	0.28809323	-0.3649252	-0.3294522	0.10340985	0.37059867
Axitinib_1021	-0.4124311	-0.2053416	-0.2635549	-0.1894873	-0.1171377	-0.2675695	-0.2133281	-0.4782055	-0.5474287	-0.175795	0.21224766
AZD7762_1022	-0.2952852	0.01522821	-0.2876414	-0.2574199	-0.0681878	-0.13087336	-0.0297172	-0.2677386	-0.4035883	-0.4114073	-0.1409257
SB216763_1025	0.1272441	0.21934127	0.18336618	-0.1434112	0.26705817	-0.0216762	-0.0612562	-0.5516313	-0.6056218	0.21956315	0.47420601
KU-5933_1030	0.04758155	0.16856047	-0.0114773	-0.3226634	0.16492299	-0.0319197	-0.0697398	-0.490972	-0.4588715	-0.0390492	0.18280736
Afatinib_1032	-0.3429652	-0.2830414	-0.2761091	-0.1255792	-0.04475	-0.2860722	-0.4493504	-0.0952129	-0.1055171	-0.1657597	-0.1252732
PLX-4720_1036	-0.3005547	-0.1020228	-0.2383449	-0.2781177	-0.0438952	-0.1454581	-0.2371357	-0.4401521	-0.4658228	-0.1282739	0.11424827
NU7441_1038	0.14341335	0.31061004	0.19084615	-0.1973803	0.2153408	0.11879603	0.08195872	-0.4413436	-0.3608888	0.15472449	0.33455333
Doramipimod_1042	0.16636933	0.34506768	0.43789079	0.11937237	0.24279945	-0.0061706	0.22607524	-0.4529194	-0.3373685	0.46690222	0.70087288
Nutlin-3a (-)_1047	0.25005362	0.27097474	0.30796818	-0.026692	0.10258895	0.09129576	0.08238341	-0.3084728	-0.1616701	0.42323303	0.42734069
PD173074_1049	-0.3736704	-0.0159348	-0.1080423	-0.1352999	-0.1620865	-0.0441806	0.00139367	-0.4470499	-0.4501916	-0.1184216	0.24544349
ZM447439_1050	-0.3771918	-0.1798519	-0.2466623	-0.2329426	-0.052997	-0.2551585	-0.2773652	-0.4695758	-0.5535211	-0.2223149	0.13588029
RO-3306_1052	-0.1610234	0.11774988	0.00537315	-0.1282227	-0.0139345	-0.0371138	-0.0062172	-0.3802036	-0.3955929	-0.0391429	0.28103798
MK-2206_1053	-0.3212011	-0.1600476	-0.1885728	-0.0894827	-0.1220665	-0.2191229	-0.1632907	-0.4647321	-0.3192614	0.02645143	0.29819633
Palbosiclib_1054	-0.1970075	-0.1642713	-0.1983832	-0.116156	-0.1318079	-0.178303	-0.1206853	-0.3537631	-0.3271859	0.04634263	0.22025061
Dactolisib_1057	-0.1698423	-0.1361408	-0.1741217	-0.1143722	-0.1247409	-0.0460390	-0.0853758	-0.3138296	-0.208913	0.03565055	0.18278772
AZD8055_1059	-0.2359608	-0.096765	-0.2274847	-0.194474	0.01189759	-0.1083273	-0.1155196	-0.5779018	-0.6053584	-0.0595145	0.3031285
Dasatinib_1079	-0.2144958	-0.1684553	-0.3462612	-0.3974917	0.07893424	-0.0665365	-0.3699857	-0.3327124	-0.4172416	-0.317197	-0.1978192
Paclitaxel_1080	-0.5865981	-0.2939354	-0.487601	-0.2211782	-0.3330026	-0.0334875	-0.11098	-0.2245567	-0.2420883	-0.4803678	-0.1858105
Rapamycin_1084	-0.5523774	-0.2878413	-0.4050557	-0.1509988	-0.284199	-0.0835913	-0.0835924	-0.3847978	-0.380851	-0.2764471	0.10321643
Sorafenib_1085	-0.3753892	-0.0563088	-0.1256252	0.02389747	-0.2689114	-0.016138	0.12623486	-0.3191844	-0.2624195	-0.1026959	0.24606538
BI-2536_1086	0.02687951	0.26796386	0.17383359	0.06518288	-0.085494	0.32565163	0.37086332	0.39948565	0.4562019	-0.1110485	-0.23196504
Irinotecan_1088	-0.0741568	0.19835609	0.06749791	-0.0517816	-0.0248552	0.03566093	0.17878663	-0.3692143	-0.3926381	0.03431427	0.31180042
Oxaliplatin_1089	-0.0873808	0.12536836	0.03973475	-0.0086275	-0.0766268	-0.0007775	0.1724065	-0.3503792	-0.3274636	0.06302105	0.30109968
BMS-536924_1091	-0.1208741	-0.2878781	-0.3180231	-0.2703974	-0.1617891	-0.12970759	-0.3748197	-0.2382168	-0.1241596	-0.12031754	-0.1310854
GSK1904529A_1093	-0.4388571	-0.0567293	-0.1291898	0.05637147	-0.2923928	0.07866465	0.1963655	-0.2172034	-0.1790327	-0.188665	0.14296416
PF-4708671_1129	-0.3190767	-0.2441043	-0.2427395	-0.1631264	-0.0424856	-0.3073561	-0.2901456	-0.532464	-0.5808514	-0.0871819	0.25308408
PRIMA-1MET_1131	0.07838335	0.32802524	0.28609589	-0.0009399	0.29930523	0.18262504	0.12340439	-0.3947586	-0.5109173	0.02137079	0.47778522
Erlotinib_1168	0.13718414	0.21749063	0.13188175	0.0617878	0.06969945	0.24349619	0.09172509	0.14297505	0.18009192	0.02450599	-0.0917484
Niraparib_1177	0.07140338	0.32214259	0.28671798	0.05338558	0.0721365	0.35085776	0.25082335	-0.3409469	-0.3504848	0.29158163	0.49022175
MK-1775_1179	-0.5717767	-0.3397528	-0.5238106	-0.234828	-0.3713942	-0.0722608	-0.201241	-0.2551298	-0.397283	-0.5801197	-0.2440999
Dinaciclib_1180	-0.3549613	-0.096433	-0.1888302	-0.2037468	-0.1163941	-0.028828	-0.098145	-0.4058694	-0.3709944	-0.1739125	0.10378723
Gemcitabine_1190	-0.0636418	0.14825993	-0.0367003	-0.1463507	-0.0080621	0.05956283	0.0740288	-0.3374989	-0.4628606	-0.1149328	0.13383893
GSK269962A_1192	-0.2580109	-0.1337514	-0.1202522	-0.1561709	-0.0216621	-0.2059719	-0.1649784	-0.5639795	-0.5149784	0.03029698	0.36765154
SB505124_1194	0.53059374	0.43695547	0.58167508	0.29573509	0.16547041	0.23191779	0.42373742	0.36483873	0.54218374	0.53380435	0.19816972
Tamoxifen_1199	-0.1206625	0.15932373	0.0234707	0.06235868	-0.1544163	0.17178167	0.30137564	-0.2178422	-0.0746031	0.01490149	0.21035645
Fulvestrant_1200	-0.3269822	0.13000195	0.02569402	-0.0210256	-0.1094127	0.10580132	0.21507545	-0.37972	-0.3970621	-0.076634	0.31118109
EPZ004777_1237	-0.106507	0.12711819	-0.0124196	-0.0914726	-0.0739911	0.06794677	0.10449374	-0.4966123	-0.5132459	-0.0950251	0.31315418
YK-4-279_1239	-0.4559584	-0.2339708	-0.4410561	-0.2604067	-0.2730775	-0.0587928	-0.172119	-0.3426605	-0.4075887	-0.4046008	-0.0959561
Daporinad_1248	-0.1413959	0.19708194	0.17328344	0.03326987	-0.0794574	0.05611569	0.23418284	-0.1388559	-0.0969175	-0.002097	0.20625789
BMS-345541_1249	-0.5177258	-0.4059038	-0.5011478	-0.1612714	-0.3674142	-0.1713522	-0.2968315	-0.2389862	-0.3388027	-0.3826901	-0.11717059
Talazoparib_1259	-0.1087286	0.14497762	0.06487503	-0.0472603	-0.1449804	0.06196493	0.20673609	-0.3380487	-0.3275079	0.06095955	0.33029617
XAV939_1268	-0.1918474	0.01674988	-0.107352	-0.2033078	-0.0322733	0.09787392	-0.0906039	-0.4001275	-0.481931	-0.1420299	0.10778211
Trametinib_1372	0.36935812	-0.0174672	0.01663268	-0.1961666	0.22031076	-0.0944165	-0.3832133	0.06686467	0.05819882	0.20708371	-0.1358696
Dabrafenib_1373	-0.2070888	-0.0474304	-0.153856	-0.1865404	-0.1729331	-0.0381284	0.01187443	-0.4211633	-0.3531226	-0.1194903	0.14867072
Temozolomide_1375	-0.2706478	0.06356931	-0.0908165	-0.1154833	-0.1231508	0.0786245	0.08610547	-0.4116314	-0.3173463	-0.1125924	0.13671923
AZD5438_1401	-0.2069344	0.01078886	-0.0976212	-0.2150812	-0.0894353	-0.0055218	0.02451142	-0.4162667	-0.3627673	-0.084347	0.17008525
IAP_5620_1428	-0.096152	0.26754001	0.11545755	0.03824162	0.0027803	0.31288597	0.40505164	-0.1210279	-0.1087557	-0.065398	0.13685253
AZD2014_1441	-0.015587	-0.0904356	-0.1044965	-0.2313582	0.0121927	-0.1014063	-0.301144	-0.2000355	0.13228026	0.15941876	0.15941876
AZD1208_1449	-0.1410731	0.23870015	0.15862625	0.028180018	-0.0946443	0.12544793	0.23961292	-0.3849627	-0.3757237	0.0545407	0.40379169
AZD1332_1463	-0.1601289	-0.0928128	-0.1372288	-0.288812	-0.0351774	-0.1200603	-0.2953631	-0.40291	-0.39671	-0.0250198	0.12859419
Ruxolitinib_1507	-0.2932896	0.03551429	-0.0963706	-0.1102966	-0.0670396	0.04770246	0.00856058	-0.3905573	-0.5987498	-0.1866739	0.20297018
Linsitinib_1510	-0.3985807	-0.2270882	-0.2022813	-0.0180784	-0.3106215	-0.084951	-0.0761454	-0.3158402	-0.2103956	-0.11044702	0.31110564
Epirubicin_1511	0.03152348	0.23767845	0.15137505	-0.0602686	0.08279156	0.16422856	0.14572271	-0.317931	-0.3158861	0.10388665	0.29470738
Cyclophosphamide_1	-0.2896536	0.1546426	0.02401092	-0.0495687	-0.0872785	0.12609269	0.22896384	-0.3999638	-0.3943467	-0.067247	0.30947982
Sapitinib_1549	-0.1180685	-0.2013092	-0.1267395	-0.0650085	0.07940717	-0.1940239	-0.4488041	0.02970899	0.10300694	-0.0259975	-0.1956667
Uproresitib_1553	-0.1927794	-0.0657224	-0.1065692	-0.0707687	0.01522752	-0.1726248	-0.2129491	-0.3425369	-0.216227	0.12174419	0.26917097
Lapatinib_1558	-0.5070329	-0.3511463	-0.40912	-0.127796	-0.3072722	-0.1272407	-0.2315658	-0.1495692	-0.1285243	-0.3347011	-0.1781544
EPZ5676_1563	-0.2434989	0.18184491	0.01304947	-0.047625	-0.0830963	0.14791324	0.17471008	-0.3785253	-0.4425576	-0.1154802	0.26073149
SCH72984_1564	0.27637337	-0.015508	-0.0308547	-0.1916494	0.11904367	-0.0468794	-0.2982433	0.11089062	0.09352661	0.0942668	-0.2193997
IWP-2_1576	-0.3923308	-0.0312623	-0.2008842	-0.1212206	-0.1980808	0.05738098	0.03040269	-0.4090452	-0.5249751	-0.2657211	0.12557762

TAF1_5496_1732	-0.1000162	0.15462521	0.22243482	0.16186572	-0.2268938	0.02773541	0.37645887	-0.1359319	0.03413446	0.13938343	0.35080849
JAK_8517_1739	0.01070863	0.16190048	0.06444485	-0.2159946	0.11931502	0.05865134	-0.1253858	-0.3219625	-0.3058083	0.0609285	0.14581813
AZD4547_1786	-0.2285584	0.05935227	-0.0526386	-0.0409755	-0.2954323	0.08800339	0.2425553	-0.2669188	-0.0874726	-0.0717677	0.1585501
Zoledronate_1802	-0.24447564	0.09769494	0.00958223	-0.0441162	-0.082386	0.068616259	0.09785971	-0.4100961	-0.4497548	-0.0158908	0.35045927
Oxaliplatin_1806	0.02195937	0.21149385	0.17682132	0.05388806	0.02710091	0.06738403	0.16628365	-0.3260506	-0.2703958	0.22988837	0.3809181
Carmustine_1807	-0.31457505	0.06763343	-0.0303745	-0.0008047	-0.190296	0.11550581	0.15596117	-0.2644103	-0.3533693	-0.1427949	0.19226225
Topotecan_1808	-0.0187625	0.2248393	0.08072274	-0.0307688	0.04259046	0.0832327	0.16440652	-0.3441662	-0.4799709	0.01348155	0.28545711
Toposide_1809	-0.1093864	0.15113512	-0.0407801	-0.0954119	-0.0262152	0.11031333	0.13049086	-0.4225848	-0.5524853	-0.1078454	0.23862044
Mitoxantrone_1810	0.23223636	0.42326677	0.27463525	0.03582853	0.15306198	0.23475719	0.26463574	-0.2656711	-0.3223069	0.21854716	0.3440166
Dactinomycin_1811	-0.113034	0.05491626	-0.0853975	-0.0735445	-0.048769	0.04735438	0.00262288	-0.2357633	-0.3155931	-0.0304751	0.1172423
Fludarabine_1813	-0.0648572	0.16869225	-0.0537378	-0.1123234	0.10977897	0.11114636	0.02811607	-0.3911301	-0.5715646	-0.0571196	0.20277515
Nelarabine_1814	-0.1881396	0.15238827	0.05413296	-0.0810922	-0.0319125	0.08007957	0.0667574	-0.3856965	-0.4897917	-0.066936	0.26549064
Fulvestrant_1816	-0.5091264	-0.1787651	-0.2318575	0.01691778	-0.3580782	-0.0140457	0.09779733	-0.274222	-0.3199798	-0.2770848	0.09674767
Docetaxel_1819	-0.3727593	-0.1992663	-0.3946443	-0.2619882	-0.252197	0.0493687	-0.1092043	-0.2655111	-0.2324171	-0.4035652	-0.2006044
Dihydrorotenone_182	-0.3295266	-0.1049405	-0.0274829	0.11981172	-0.358633	-0.0809313	0.23524192	-0.1130666	0.03589766	-0.0515694	0.17277058
Gallibiscoquinazole_1	-0.4895026	-0.1111952	-0.2307576	-0.0762523	-0.299572	-0.0345167	0.07909262	-0.3594092	-0.4242543	-0.3067887	0.13830101
Elephantin_1835	-0.0905699	0.19845092	0.19212407	0.0232257	0.15610568	0.14726844	0.11714022	-0.3480886	-0.3301177	0.14265423	0.37469661
Sinularin_1838	-0.26438	0.03805758	0.10311372	0.12872996	-0.105918	0.02535527	0.0838366	-0.1521811	-0.170156	0.04619639	0.27736149
Sabutoxax_1849	-0.2150834	0.17833773	0.05534815	0.04546928	-0.0457239	0.18744339	0.23055983	-0.3421915	-0.3488243	0.0167976	0.30898012
LY2109761_1852	-0.1303236	0.15987145	0.09205695	-0.029635	-0.0503716	0.0125987	0.07329922	-0.3601542	-0.3898774	0.03253172	0.32721192
OF-1_1853	-0.1038562	0.15619797	0.22245749	0.18633178	-0.2210082	0.06963265	0.43403566	-0.1099522	0.04209485	0.16471099	0.37536142
MN-64_1854	-0.3540218	-0.0007157	-0.1125968	-0.1142623	-0.02786537	0.04106496	-0.0537685	-0.2951629	-0.3871353	-0.1794585	0.13209998
KRAS (G12C) Inhibitor	-0.3921341	-0.0476327	-0.0746157	0.00891529	-0.229198	-0.0202181	0.14579133	-0.2741592	-0.2581254	-0.1024708	0.22505463
Venetoax_1909	-0.1463323	0.23272709	0.07811638	-0.0908839	-0.037257	0.12836886	0.26244857	-0.4477299	-0.4148352	-0.0144763	0.35444277
ABT737_1910	-0.1046448	0.27900187	0.1821029	-0.004434	0.01003696	0.15550475	0.25810578	-0.3335226	-0.3710959	-0.0015562	0.32002001
Dactinomycin_1911	-0.0047497	0.15798101	0.04957316	-0.0505247	0.00888228	-0.15063101	0.11284346	-0.1743181	-0.0669797	0.07702809	0.12986414
Afuresomybin_1912	-0.2954228	-0.0657279	-0.118413	-0.093794	-0.0093464	-0.2084502	0.1009493	-0.3578599	-0.192318	0.0509424	0.25189532
AGI-5198_1913	-0.1939331	0.21054485	0.02338724	-0.0443822	-0.0807156	0.16245009	0.28062164	-0.3870318	-0.3740703	-0.0637075	0.2924694
AZD5363_1916	-0.4131431	-0.2015161	-0.3068913	-0.2015806	-0.1452874	-0.219226	-0.2163318	-0.4034378	-0.3107998	-0.1253622	0.11793163
AZD6738_1917	-0.4835789	-0.2831137	-0.5067418	-0.3091126	-0.3247267	-0.0627217	-0.2029248	-0.2569479	-0.3983306	-0.5159192	-0.2349462
AZD8186_1918	-0.122481	-0.105849	-0.2009776	-0.2467904	0.09788827	-0.1983322	-0.3590327	-0.437167	-0.4002473	-0.0030543	0.14831213
Osimertinib_1919	-0.4461068	-0.3757618	-0.3538791	-0.1226982	-0.1914873	-0.2380922	-0.3955924	-0.1436178	-0.2023087	-0.2449139	-0.0989127
Ipatasertib_1924	-0.4772454	-0.2564592	-0.3328474	-0.1468562	-0.2130676	-0.289271	-0.210748	-0.3464276	-0.2669697	-0.1496433	0.320934959
GNE-317_1926	-0.1015389	-0.1450002	-0.1432881	-0.1581862	-0.059358	-0.145334	-0.1825915	-0.4326091	-0.2416558	0.12300103	0.23637668
GSK278215A_1927	-0.44424645	0.05003009	-0.1304864	-0.0679639	-0.2049693	0.14304293	0.25083626	-0.422361	-0.4541744	-0.2021869	0.24679261
I-BRD9_1928	-0.3972668	-0.0859848	-0.2346467	-0.1028387	-0.1894624	-0.0999901	-0.0321377	-0.440372	-0.4584602	-0.1560569	0.23525456
MIRA-1_1931	-0.4076419	0.03840341	-0.0542266	-0.036135	-0.1689547	0.08489503	0.1649025	-0.4348361	-0.487401	-0.1525971	0.28479529
NVP-ADW742_1932	-0.2449702	-0.1737265	-0.2259945	-0.1424614	-0.2340641	-0.1062967	-0.1659484	-0.3481325	-0.2019129	-0.0595204	0.32035227
P22077_1933	-0.5293775	-0.1171051	-0.2314114	0.02058112	-0.2919125	0.06611555	0.19059591	-0.2669502	-0.3213646	-0.2880112	0.15350506
Savolitinib_1936	-0.1225208	0.07672051	-0.1750437	-0.1504015	-0.1538578	0.1950356	0.12273771	-0.1403369	-0.2178893	-0.3001705	-0.1058341
UMI-77_1939	-0.3892387	0.00379134	-0.1343877	-0.1130936	-0.1632633	0.23730745	0.18137652	-0.160289	-0.1909129	-0.3899024	-0.1167299
WIKI4_1940	-0.4269364	-0.2746204	-0.3661981	-0.207301	-0.1746506	0.06062771	-0.2593204	-0.1851951	-0.35537	-0.4466158	-0.2337981
Sepantronium bromide	-0.2541227	-0.0917521	-0.1119212	0.04414079	-0.0607132	0.22704765	0.14674994	0.10902143	0.10208534	-0.2947576	-0.2037709
BIBR-1532_2043	-0.1369043	0.30123809	0.20618896	0.05154205	-0.0325469	0.22601567	0.33669148	-0.3080938	-0.2430575	0.09918364	0.37762927
Pyridostatin_2044	-0.3935225	0.0762573	-0.0840074	-0.0640067	-0.15797	0.07272089	0.13480458	-0.3203417	-0.2982233	-0.1368864	0.19646755
AMG-319_2045	-0.1926582	0.23173136	0.00144634	-0.1209715	0.09538418	0.03965166	0.11041949	-0.5104454	-0.623113	-0.0829403	0.32082896
VX-11e_2096	-0.065246	-0.2580529	-0.3163684	-0.3045153	-0.0993801	-0.1438072	-0.4000393	-0.1802242	-0.1840007	-0.0914727	-0.1313939
Uprosertinib_2106	-0.4323998	-0.1941407	-0.2765995	-0.1223893	-0.1564509	-0.208142	-0.1597125	-0.36963683	-0.2508607	-0.0717107	0.18428234
LJI308_2107	-0.2248029	0.179973	0.02730527	-0.1093194	-0.0108698	0.1732744	0.15445961	-0.4745482	-0.5051213	-0.0678281	0.33279747
AZ6102_2109	-0.1439468	-0.0463563	-0.0567297	-0.1687269	-0.0791151	-0.0706682	-0.1617213	-0.3958934	-0.2830359	0.07165393	0.22230006
GSK591_2110	-0.1047585	0.23308729	0.11584498	0.0453997	-0.057185	0.19422265	0.3639323	-0.3027011	-0.2828613	0.08409599	0.36482792
AZD6482_2169	0.1335602	0.31973069	0.2051529	-0.0350309	0.28809883	-0.047246	0.06377273	-0.4988251	-0.4606097	0.23838077	0.49887883
AT13148_2170	-0.4732921	-0.0847364	-0.2506972	-0.1472667	-0.2184197	0.04912345	0.1059927	-0.3369491	-0.2952198	-0.2115445	0.15234942
BMS-754807_2171	-0.0735246	0.0045091	0.00690945	-0.0992627	0.05972144	-0.1594055	-0.104712	-0.5460462	-0.5420622	0.15045193	0.44601174
JQ1_2172	-0.1416749	0.08475792	0.05159152	-0.0927692	0.07299339	-0.0790296	0.00376177	-0.5264319	-0.3052987	0.03267593	0.41362064

The significance between the IC50 of various drugs and PCDI

	CHEK2	KRT18	GAPDH	MMP1	CHRNA5	TPMR34	ITGB4	CD79A	CTLA4	RRM2	PCDI
Campothecin_1003	0.53023248	1.2838E-06	0.38838555	0.17461243	0.85892083	0.09991109	0.00012618	0.3483E-14	2.3251E-22	0.70664348	4.8209E-08
Cisplatin_1005	2.7933E-12	0.00159449	0.00982727	1.256E-06	0.0173851	0.00635752	1.2617E-07	2.4003E-19	1.9743E-29	4.7351E-10	0.0040071
Cytarabine_1006	0.00525899	0.02309885	0.88953205	0.19268493	0.8713E-06	0.15349332	2.3192E-05	4.4713E-08	1.69E-12	3.9215E123	5.6675E-05
Docetaxel_1007	3.0653E-18	0.00033277	0	0.30998E-08	2.5473E-12	0.14226465	0.49990631	0.00320827	0.11668918	1.1325E-22	3.5973E-09
Gefitinib_1010	1.8415E-14	3.6641E-05	6.696E-06	0.05980098	0.00040521	0.37117301	5.5485E-10	0.22826625	0.09728091	7.4893E-09	0.00031481
Navitoclax_1011	4.3591E-24	0.00085305	2.4957E-06	0.02935191	3.2991E-07	0.00193629	0.14602671	1.3152E-19	1.6873E-34	5.3741E-07	0.00046042
Vorinostat_1012	8.2876E-07	0.00449559	0.01852351	0.30643769	0.02178616	0.00042457	6.1838E-10	1.6507E-14	9.1161E-14	0.72297258	2.9807E-15
Nilotinib_1013	1.2619E-18	0.35541683	0.00229812	0.51620624	1.3567E-05	0.11942432	4.4453E-06	3.2276E-16	2.248E-23	0.00100987	3.2108E-10
Olaparib_1017	0.18614203	2.4227E-12	1.2726E-05	0.35745462	0.65732898	1.2496E-05	2.6686E-11	1.1459E-17	1.673E-14	0.01890815	8.6006E-18
Axitinib_1021	1.4371E-22	2.6172E-06	1.4424E-09	1.498E-05	0.0079123	6.8197E-10	1.0302E-10	8.7067E-31	1.3343E-41	0.0464E-05	5.5297E-07
AZD7762_1022	8.0384E-12	0.73027237	3.5416E-11	3.7067E-09	0.12223362	0.00292435	0.50101108	6.6472E-10	1.3523E-21	1.8694E-22	0.00154854
SB216763_1025	0.00382339	4.9849E-07	2.9202E-05	0.00110047	7.3679E-10	0.62358576	0.16512202	2.4256E-42	2.6898E-57	4.8512E-07	1.6474E-29
KU-55933_1030	0.2811302	0.0001213	0.79492098	0.6822E-14	0.00017034	0.46980485	0.11394031	1.3402E-32	3.4978E-28	0.37650698	3.7817E-05
Afatinib_1032	1.1623E-15	0.6755E-11	2.								

Gemcitabine_1190	0.14924186	0.00073803	0.4057808	0.00086501	0.85517803	0.17714123	0.09330767	3.4729E-15	1.0472E-28	0.00903946	0.00127588
GSK269962A_1192	2.8179E-09	0.00235321	0.00631782	0.00037466	0.62381127	2.4347E-07	0.00016947	1.4041E-44	3.1955E-36	0.49269129	1.6384E-17
SB505124_1194	9.7418E-39	2.0006E-25	0	7.4487E-12	0.00016192	1.9277E-06	7.4081E-17	1.1678E-17	1.0833E-40	2.8506E-39	7.9737E-06
Tamoxifen_1199	0.00611335	0.00028336	0.59501553	0.15763205	0.00043668	8.0273E-05	8.2333E-12	5.9855E-07	0.09078776	3.75841435	1.9878E-06
Fulvestrant_1200	2.6858E-14	0.00312065	0.56060065	0.63404565	0.01297709	0.01705649	8.3608E-07	4.1446E-19	6.779E-21	0.08231102	9.8499E-13
EPZ004777_1237	5.5199E-13	0.00385866	0.77850655	0.03797253	0.09347494	0.12356254	0.0176885	2.0029E-33	5.9666E-36	0.03107555	6.9599E-13
YK-4-279_1239	8.3547E-28	7.8096E-08	0	1.9852E-09	2.9339E-10	0.18281709	8.6425E-05	1.2362E-15	4.9458E-22	1.0497E-21	0.0315921
Daporinad_1248	0.00129464	6.6092E-26	7.9136E-05	0.45121711	0.07160164	0.20326459	7.5955E-08	0.0015842	0.0278607	0.98224989	3.1627E-06
BMS-345541_1249	1.1784E-36	7.5675E-22	0	0.00023783	6.6341E-18	9.3028E-05	6.183E-12	4.0186E-08	1.2492E-13	2.0847E-19	0.00863186
Talazoparib_1259	0.01355775	0.00096851	0.14146376	0.28439507	0.00096828	0.16027695	2.2298E-06	3.1139E-15	2.4293E-14	0.16718188	3.0501E-14
XAV939_1268	1.1656E-05	0.70452582	0.01483071	3.2994E-06	0.46489633	0.02634755	0.03984411	3.1935E-21	2.8328E-31	0.00113501	0.01569559
Trametinib_1372	4.3147E-18	0.69250344	0.70640438	7.3066E-06	4.4257E-07	0.03217484	1.8457E-19	0.12966863	0.8728613	2.1422E-06	0.0022825
Dabrafenib_1373	2.1409E-06	0.28266294	0.000465	2.0402E-05	7.99E-05	0.38787224	0.78806182	1.4696E-23	1.4349E-16	0.00663136	0.0008339
Temozolomide_1375	4.2664E-10	0.14970648	0.03940797	0.00871219	0.00513239	0.07463255	0.05082858	1.7649E-22	1.0237E-22	1.2655E-06	0.00222668
AZD5438_1401	2.1794E-06	0.80703694	0.02677465	8.355E-07	0.04248426	0.90051882	0.57890527	5.322E-23	1.8334E-17	0.05576117	0.00012853
IAP_5620_1428	0.0291249	6.8501E-10	0.00875792	0.38646361	0.94981172	3.6894E-13	9.3749E-22	0.00595951	0.01353431	0.13831447	0.00211879
AZD2014_1441	0.72417228	0.04021545	0.01772064	1.0974E-07	0.78252173	0.02135671	2.9503E-12	1.6648E-18	4.7664E-06	0.00263103	0.00033593
AZD1208_1449	0.00132852	4.1755E-08	0.00030653	0.6216019	0.03267702	0.00435518	3.6946E-08	1.2264E-19	1.0333E-19	1.2655E36	4.1392E-21
AZD1332_1463	0.00026363	0.03523158	0.00181488	2.3706E-11	0.41664994	0.00637475	7.9331E-12	1.6016E-21	7.3875E-21	0.63575388	0.00390163
Ruxolitinib_1507	1.1252E-11	0.42125668	0.02879272	0.01225931	0.12866602	0.27990813	0.84633102	3.2632E-20	2.0589E-51	2.0121E-05	4.5598E-06
Linsitinib_1510	0.9416E-21	1.8972E-07	3.8861E-06	0.68231937	5.5489E-13	0.0540241	0.08428954	2.1549E-13	1.4569E-06	0.01773942	0.00325198
Epirubicin_1511	0.47533808	4.7856E-08	0.00057486	0.17205476	0.06044981	0.0001816	0.00091101	1.4675E-13	2.1368E-13	0.01021874	1.6197E-11
Cyclophosphamide_1	2.0629E-11	0.00042817	0.58656545	0.26150112	0.04774495	0.00415704	1.4937E-07	3.3251E-21	1.3119E-20	0.12748481	1.3261E-12
Sapitinib_1549	0.00731226	4.1335E-06	0.0039891	0.14068329	0.07178163	9.2237E-06	6.8437E-06	0.50112892	0.01937989	0.55610024	1.0063E-05
Uprosertib_1553	1.0548E-05	0.136365	0.01557852	0.10869043	0.23028405	8.2315E-05	1.0777E-06	1.2674E-15	7.279E-07	0.00566791	8.8256E-10
Lapatinib_1558	5.4389E-35	2.1686E-16	0	0.00367222	1.0083E-12	0.00382434	1.0683E-07	0.00066118	0.00348104	1.0014E-15	5.9745E-05
EPZ5676_1563	2.1822E-08	3.3052E-05	0.76758723	0.28069023	0.05950645	0.00075972	6.7235E-05	5.4535E-19	4.1234E-26	0.00871399	3.0276E-09
SCH772984_1564	1.755E-10	0.72551487	0.48463161	1.1906E-05	0.00683888	0.28829851	4.859E-12	0.01179683	0.03384175	0.03245019	6.9026E-07
IWP-2_1576	2.1334E-20	0.47900517	4.5403E-06	0.00587974	5.9208E-06	0.19357055	0.49118236	3.4175E-22	8.1094E-38	9.0123E-10	0.004836
Flunolomide_1578	7.62E-07	0.30187936	0.96408567	0.73923457	0.33478535	0.46451165	0.04322469	5.1363E-18	3.6777E-19	0.90743093	6.6162E-12
Entinostat_1593	0.18347043	4.6756E-11	0.1149201	0.0326473	0.80187762	1.0238E-08	2.2488E-10	3.2752E-14	1.3219E-21	0.14274461	2.8053E-06
LGK974_1598	1.4006E-16	0.01573202	0.00135343	0.60984127	1.4543E-11	0.01351815	0.03691096	2.8902E-14	5.7727E-10	8.3924E-05	0.00046812
WZ4003_1614	0.007365228	0.35974899	0.08019108	3.0656E-07	0.02422346	0.67396753	0.01035435	6.1569E-39	1.8515E-33	0.10940662	4.3944E-10
CZC24832_1615	2.1536E-09	0.04997484	0.01393909	4.5106E-06	0.48696726	0.37946062	0.75042716	1.2217E-42	2.3808E-62	0.00117162	6.7399E-11
GSK2606414_1618	5.1217E-10	0.00076732	5.3748E-09	2.9203E-07	0.11064354	0.0022987	3.2815E-09	9.6553E-22	1.1211E-28	0.00195266	1.0025544
PF13_1620	3.7522E-11	0.00209424	0.28489875	0.00153788	0.94292363	0.00486145	0.02583315	6.7518E-30	3.2454E-46	0.00051461	9.9716E-10
PCI-34051_1621	0.3168764	5.1669E-11	0.90789E-09	0.36778891	0.10831493	3.5732E-06	1.3007E-07	1.1021E-29	1.2782E-27	0.00014519	1.1543E-31
Wnt-C59_1622	6.2314E-26	0.01179742	0.0005071	9.95071847	2.8509E-08	0.63669651	0.03285072	4.1636E-21	7.8236E-22	0.00074669	1.6364E-09
I-BET-762_1624	0.34331695	6.3335E-07	0.13256425	9.1743E-06	0.00683309	1.2E-07	0.25414029	1.3582E-16	2.9126E-17	0.96196536	0.00042639
RVX-208_1625	4.3919E-09	0.09057586	7.6696E-06	5.7312E-08	0.01644241	0.00356644	0.0859422	5.3153E-31	3.0423E-40	1.0391E-07	0.00353555
OTX015_1626	0.00537366	3.1047E-07	0.42797038	0.00016303	1.4424E-05	9.8852E-12	0.82590986	5.2023E-08	1.7213E-06	0.0229762	0.01368635
GSK343_1627	0.00116759	2.6255E-08	0.08316857	0.01809039	0.20709567	0.00049067	0.00295802	4.9239E-32	2.1956E-42	0.88729336	3.2889E-9
ML323_1629	7.786E-39	1.0063E-08	5.3753E-12	7.89097471	3.9453E-23	0.04149984	0.04322914	1.255E-10	3.6685E-08	5.826E-10	0.02252573
PRT062607_1631	0.0121264	0.95080008	0.112339	5.6423E-05	0.06421355	0.02526491	1.7819E-06	8.1174E-44	7.8825E-47	0.14355939	3.7547E-12
Ribociclib_1632	6.4945E-07	0.00265265	1.7348E-05	4.2549E-05	0.88344254	1.0009E-07	3.1744E-05	1.1012E-55	9.3799E-74	0.19539448	1.6071E-14
AGI-6780_1634	6.7527E-08	0.00012045	0.2013036	0.74886962	0.00148706	0.00545217	3.4027E-12	5.3107E-16	7.4291E-13	0.29920479	3.1971E-13
Picolinic-acid_1635	0.00293518	1.6964E-06	0.17418304	0.03929699	0.53716194	0.00912302	0.00012838	3.0342E-29	4.4715E-33	0.83808729	9.3985E-16
AZD5153_1706	0.13277871	2.5925E-05	0.02117918	0.15168017	0.01384743	2.8651E-08	0.26349483	1.9272E-19	1.7897E-09	0.00012367	1.6491E-09
CDK9_5576_1708	6.4949E-06	0.32060927	0.19775574	0.00011326	0.00240009	0.22460769	0.24807492	7.3556E-19	4.9375E-13	0.75348059	2.5927E-06
CDK9_5038_1709	2.6513E-08	0.51848114	0.98199425	0.00369557	0.09840624	0.46969997	0.29230931	1.2622E-22	1.1073E-31	0.6437991	3.0237E-08
ERK_2440_1713	2.4141E-15	0.01076075	0.2352385	3.4405E-07	0.2006614	0.57007628	2.676E-11	1.0226E-07	4.6739E-14	2.7969E-09	0.00045994
ERK_6604_1714	4.9352E-10	0.43985051	0.17058242	1.5146E-09	0.00807856	0.80119269	6.1095E-11	0.15008949	0.31283661	0.0852645	4.5402E-08
IRAK4_4710_1716	0.00398061	0.00041451	0.13363673	0.68113007	0.00883746	0.00351503	1.4735E-06	1.6407E-10	4.5472E-07	0.18812377	1.1327E-07
JAK1_8709_1718	0.36717885	0.00043539	2.6116E-05	0.43123824	0.65338115	0.01422825	0.00159314	1.1279E-16	1.5553E-09	5.5004E-11	3.1977E-24
AZD5991_1720	7.0093E-12	0.00086666	0.68247557	0.15105437	0.00408628	1.414E-05	3.094E-13	1.1668E-10	2.7647E-08	0.009720077	2.9168E-11
PAK_5339_1730	3.0161E-20	0.00628673	5.8121E-06	0.03853231	6.3575E-05	0.69283735	0.05887023	3.1477E-30	1.1171E-24	0.0052494	0.00013016
TAF1_5496_1732	0.02321311	0.00042882	3.6559E-07	0.00022536	1.9446E-07	0.52999876	8.7429E-19	0.00199047	0.4395359	0.00151958	5.5317E-16
JAK_8517_1739	0.80844392	0.00022465	0.14410343	7.4858E-07	0.00671213	0.18387411	0.00437473	6.9365E-14	1.306E-12	0.16739867	0.00105105
AZD4547_1786	1.5732E-07	0.17868004	0.23298631	0.35340065	7.8407E-12	0.0459191	2.4822E-08	7.5247E-10	0.0472502	0.10377785	0.00036234
Zoledronate_1802	1.8368E-08	0.02662519	0.8282037	0.31769319	0.06172452	0.12237196	0.02636949	2.6145E-22	5.19E-27	1.07920264	5.8943E-16
Oxaliplatin_1806	0.61905763	1.2803E-06	5.6119E-05	0.22215026	0.53945602	0.12670946	0.00015014	3.2072E-14	4.4344E-10	1.3266E-07	8.8522E-19
Carmustine_1807	2.7171E-13	0.1253072	0.49145667	0.98546562	1.3751E-05	0.00869902	0.00038161	1.0968E-09	1.3625E-16	0.0011568	5.3637E-05
Topotecan_1808	0.67098808	2.5204E-07	0.06719792	0.48597527	0.33473495	0.05098811	0.00017865	9.1123E-16	4.9398E-31	0.76020209	7.2262E-11
Teniposide_1809	0.01299894	0.00057902	0.35558293	0.0039387	0.5527971	0.00224603	0.00300909	1.0075E-23	1.1703E-42	0.01434128	6.2623E-08
Mitoxantrone_1810	9.7929E-08	8.4003E-24	2.7393E-10	0.41715692	0.00049094	7.0439E-08	1.0605E-09	9.0803E-10	6.503E-14	5.493E-07	2.1568E-05
Dactinomycin_1811	0.0102539	0.21344011	0.05279011	0.09547614	0.2692845	0.28343607	0.95265098	6.1694E-08	2.2545E-13	0.49015089	0.00855405
Fludarabine_1813	0.14161179	0.00001198	0.22336262	1.3063E-06	0.0167524	0.01160253	0.52436545	2.8455E-20	5.3173E-46	0.19561128	4.659E-06
Nelarabine_1814	1.7263E-05	0.00052022	0.21997327	0.06593973	0.40990451	0.05955788	0.130286				

Sepantronium bromic	4.9382E-09	0.0373864	0.01106374	0.31742316	0.16890738	1.907E-07	0.00083689	0.01330644	0.02049762	8.7881E-12	4.1734E-06
BIBR-1532_2043	0.00184583	2.9016E-12	2.5008E-06	0.2429644	0.46111779	2.1732E-07	4.0749E-15	8.7151E-13	2.3177E-08	0.02439071	1.8429E-18
Pyridostatin_2044	1.6011E-20	0.08383297	0.05677703	0.14691885	0.00031966	0.09925571	0.00217107	9.3878E-14	4.8756E-12	0.00184841	9.2397E-06
AMG-319_2045	1.0686E-05	1.0456E-07	0.97387122	0.00598302	0.03044222	0.03360316	0.01216232	1.6248E-35	1.0079E-56	0.05998792	1.7586E-13
VX-11e_2096	0.13912558	2.8008E-09	2.6077E-13	1.6393E-12	0.02410824	0.00106563	3.2637E-21	3.8931E-05	2.6525E-05	0.03797237	0.0031967
Uprosertib_2106	7.0727E-25	9.1079E-06	2.0248E-10	0.00541635	0.00036556	1.8952E-06	0.00027367	4.3049E-18	7.8501E-09	0.08018117	3.2636E-05
LJI308_2107	2.5319E-07	3.9927E-05	0.53627677	0.01305493	0.80561769	7.7305E-05	0.00043504	2.7877E-30	1.0638E-34	0.12422125	1.9003E-14
AZ6102_2109	0.0010536	0.29371754	0.19861473	0.00011941	0.07283613	0.10919464	0.00022834	9.0137E-21	6.0809E-11	0.10432811	4.8695E-07
GSK591_2110	0.01740124	8.7657E-08	0.00853337	0.3038041	0.19509893	1.096E-05	1.4232E-17	2.2507E-12	6.2545E-11	0.05649678	2.9992E-17
AZD6482_2169	0.00238774	1.0517E-13	2.8131E-06	0.42760976	2.6661E-11	0.28454098	0.14840498	9.4101E-34	2.4389E-28	4.3577E-08	6.0116E-33
AT13148_2170	4.144E-30	0.05463588	9.0452E-09	0.00080176	5.579E-07	0.26581515	0.01611528	3.8725E-15	8.1278E-12	1.2727E-06	0.00061493
BMS-754807_2171	0.09556608	0.91869341	0.87565887	0.02427675	0.17598853	0.00028129	0.01745142	2.3255E-41	1.1366E-40	0.00061363	6.5701E-26
JQ1_2172	0.001266	0.05457436	0.24242259	0.0353181	0.52617769	0.07314683	0.93213332	4.6992E-38	8.5352E-53	0.45934211	3.626E-22