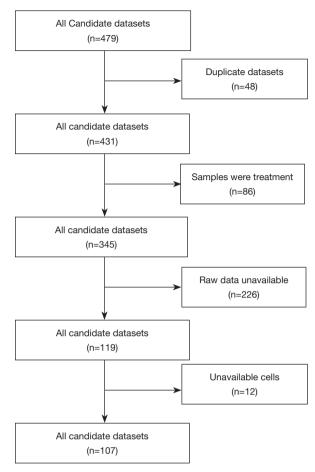
Table S1 Characteristics of selected human PAAD cell lines

DAAD aall line	acteristics of selected human PAAD cell lines	Cito		Forlight Impure reference
PAAD cell line	· · ·	Site	Gender	Earliest known reference
AsPC-1	AsPc-1; Aspc-1; ASPC-1; As-PC1; ASPC1; AsPC1; AsPc1; AsPc1	metastatic lesion	Female	PubMed =7182348 (1982
BxPC-3	BxPc-3; BXPC-3; BxPC3; BxPC3; BxPc3; Biopsy xenograft of Pancreatic Carcinoma line-3	primary lesion	Female	PubMed =3754176 (1986
PANC-1	Panc-1; PANC.1; Panc 1; PanC1; Panc1; PANC1; Panc-1-P	primary lesion	Male	PubMed =1140870 (1975
Capan-1	CaPan-1; CAPAN-1; Capan 1; CAPAN 1; Capan1; CAPAN1	metastatic lesion	Male	PubMed =327080 (1977)
Capan-2	CaPan-2; CAPAN-2; Capan 2; CAPAN 2; Capan2; CAPAN2	primary lesion	Male	PubMed =6935474 (198
CFPAC-1	CFPac-1; CF PAC-1; CF-PAC1; CF-Pac1; CF Pac1; CFPAC1; CFPac1; CFPAC	metastatic lesion	Male	PubMed =1692630 (1996
DAN-G	Dan-G; DanG; DANG	primary lesion	Female	PubMed =15126341 (20
Hs 766T	Hs 766.T; HS-766T; Hs-766T; HS 766T; HS-766-T; Hs-766-T; HS766T; Hs766T; 766T; 766T; Hs 766	metastatic lesion	Male	PubMed =176412 (1976)
HuP-T3	HUP-T3;Hu-P-T3; HuPT3; HuPT3	metastatic lesion	Male	PubMed =8454916 (199
HuP-T4	HUP-T4; Hu-P-T4;HuPT4; HUPT4	metastatic lesion	Male	PubMed =8454916 (199
<p-2< td=""><td>KP2</td><td>primary lesion</td><td>Female</td><td>PubMed =2172194 (199</td></p-2<>	KP2	primary lesion	Female	PubMed =2172194 (199
KP-3	KP3	metastatic lesion	Male	PubMed =2172194 (199
KP-4	KP 4; KP4	primary lesion	Male	PubMed =21559554 (19
MIA PaCa-2	MIA-PaCa-2; MIA-PACA-2; MIA-Pa-Ca-2; MIA Paca2; MIA PaCa2; MiaPaCa-2; MIAPACA-2; MiaPaca.2; MiaPaCa2; Miapaca2; MIAPaCa2; MIAPACA2; Mia PACA 2; MIAPaCa-2; PaCa2	primary lesion	Male	PubMed =1764370 (199
PK-45H	PK-45 H; PK45H	primary lesion	Unknown	PubMed =11115575 (20
PK-59	PK59	metastatic lesion	Female	PubMed =7622937 (199
PSN1	PSN-1	primary lesion	Male	PubMed =3009377 (198
SNU-213	SNU213; NCI-SNU-213	primary lesion	Male	PubMed =12037578 (20
SNU-324	SNU324; NCI-SNU-324	primary lesion	Male	PubMed =12037578 (20
SU.86.86	Su.86.86; SU 86.86; SU-86-86; Su-86-86; SU86.86; SU86-86; SU86_86; Su86_86; SU8686; SU.86	metastatic lesion	Female	PubMed =3264833 (198
SNU-410	SNU410; NCI-SNU-410	metastatic lesion	Male	PubMed =12037578 (20
SUIT-2	Suit-2; SUIT 2; SUIT2; Suit2	primary lesion	Male	PubMed =3102439 (198
SW1990	SW-1990; SW 1990	metastatic lesion	Male	PubMed =6871872 (198
3M-4	T3M4; Panc89; Panc-89; PANC-89; Panc 89	primary lesion	Male	PubMed =6821838 (198
'APC	1	primary lesion	Male	PubMed =9533774 (199
HPAC	Нрас	primary lesion	Female	PubMed =25939163 (19
Panc 02.13	Panc 2.13; Panc-02.13; PANC-02-13; Panc2.13; PANC0213; PL1; PL-1	primary lesion	Female	PubMed =9612602 (199
Panc 03.27	Panc 3.27; Panc-03.27; PANC-03-27; Panc_03_27; Panc-3_27; PANC3.27; Panc3.27; Panc3.27; Panc3.27; Panc3.27; Panc3.27; Panc3.27; Panc0327; Panc0327	primary lesion	Female	PubMed =9612602 (199
Panc 04.03	PANC-04-03; Panc_04_03; Panc04.03; Panc 4.03; PANC 4.03; Panc4.03; PANC0403; Panc0403; PANC403; Pa17C; Pa017C; PL5; PL-5; PL 5	primary lesion	Male	PubMed =9612602 (199
Panc 05.04	Panc-05.04; Panc_05_04; Panc05.04; Panc 5.04; Panc5.04; PANC0504; Panc0504; Pa18C	primary lesion	Female	PubMed =9612602 (199
Panc 08.13	Panc 8.13; Panc-08.13; PANC-08-13; Panc_08_13; Panc08.13; Panc8.13; Panc-8_13; Panc-813; PANC 813; Panc813; PANC813; PANC0813; PANC0813; Panc0813; Pa14C; PL9; PL-9	primary lesion	Male	PubMed =9612602 (199
Panc 10.05	Panc-10.05; Panc10.05; PANC-10-05; PANC 1005; PANC1005; Panc1005; Pa16C; PL12; PL-12	primary lesion	Male	PubMed =9612602 (199
PK-1	PK1	metastatic lesion	Male	PubMed =6205469 (198

Cell line information were obtained from Cellosaurus (https://web.expasy.org/cellosaurus/). PAAD, pancreatic adenocarcinoma .



 $Figure \ S1 \ {\rm flow} \ {\rm diagram} \ {\rm of} \ {\rm the} \ {\rm procedure} \ {\rm for} \ {\rm the} \ {\rm dataset} \ {\rm search}.$

Table S2 Samples of PAAD cell lines/tissues in GEO platform

Table S2 Samples of PAAD cell lines/tissues in GEO platform						
PAAD cell lines/tissues	Numbers of samples					
AsPC-1	18					
BxPC-3	32					
Capan-1	4					
Capan-2	5					
CFPAC-1	9					
DAN-G	2					
HPAC	3					
Hs 766T	5					
HuP-T3	3					
HuP-T4	2					
KP-2	1					
KP-3	1					
KP-4	2					
MIA PaCa-2	25					
Panc 02.13	3					
Panc 03.27	8					
Panc 04.03	5					
Panc 05.04	6					
Panc 08.13	4					
Panc 10.05	4					
PANC-1	31					
PK-1	4					
PK-45H	2					
PK-59	4					
PSN1	2					
SNU-213	1					
SNU-324	1					
SNU-410	1					
SU.86.86	9					
SUIT-2	4					
SW1990	3					
T3M-4	1					
YAPC	1					
Normal pancreas	260					
Pancreatic adenocarcinoma	892					

PAAD, pancreatic adenocarcinoma; GEO, Gene Expression Omnibus.

infection; Inflammatory mediator regulation of TRP channels; Jak STAT; Leishmaniasis; Leukocyte transendothelial migration; MAPK; Melanogenesis;

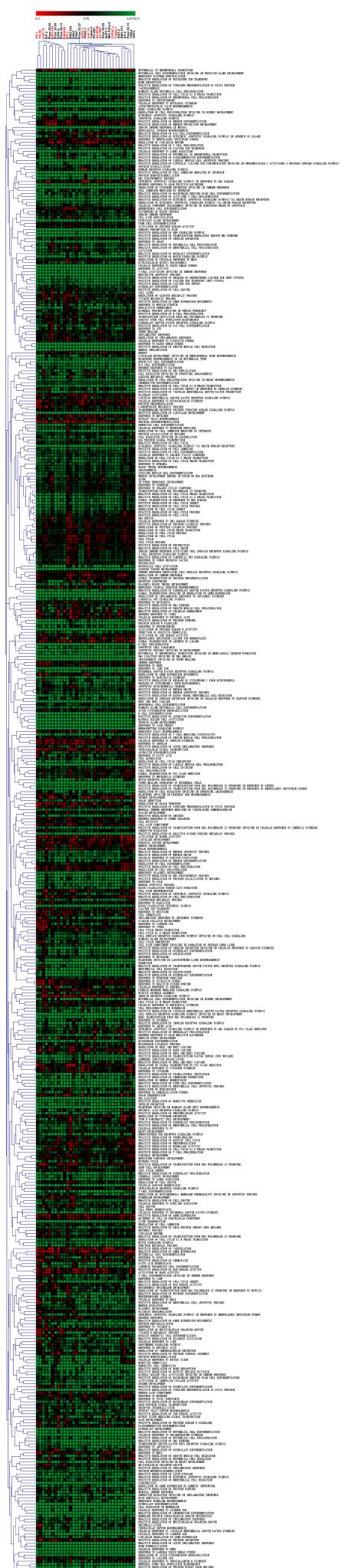
in cancer; Rap1; Ras; Regulation of actin cytoskeleton; Renal cell carcinoma; Small cell lung cancer; Sphingolipid; T cell receptor; Thyroid hormone synthesis; TNF; Toll like receptor; Toxoplasmosis; Transcriptional misregulation in cancer; Ubiquitin mediated proteolysis; Viral carcinogenesis; Wnt

Melanoma; Metabolism of xenobiotics by cytochrome P450; MicroRNAs in cancer; NF kappa B; Non-alcoholic fatty liver disease NAFLD; Notch; Nucleotide excision repair; Oocyte meiosis; Osteoclast differentiation; p53; Pancreatic cancer; PI3K Akt; Prolactin; Prostate cancer; Proteoglycans

repair; mTOR; Natural killer cell mediated cytotoxicity; Neurotrophin; NOD like receptor; Non homologous end joining; Non-small cell lung cancer; Ovarian steroidogenesis; Pathogenic Escherichia coli infection;

pluripotency of stem cells; Steroid hormone biosynthesis; TGF beta; Thyroid cancer; Thyroid hormone; Tuberculosis; Type I diabetes mellitus; Type II diabetes mellitus; VEGF; Viral myocarditis

Pertussis; Prion diseases; Progesterone mediated oocyte maturation; Regulation of lipolysis in adipocytes; Rheumatoid arthritis; RIG I like receptor; Salmonella infection; Shigellosis; Signaling pathways regulating



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black font of cell lines: primary lesion). PAAD, pancreatic adenocarcinoma.

Figure S2 Correlation coefficients of cancer-related functions between various PAAD cell lines (red font of cell lines: metastatic lesion,