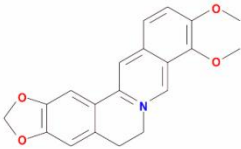
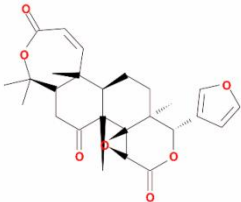
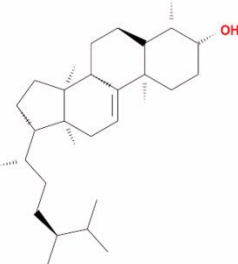
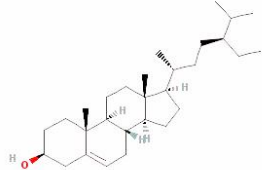
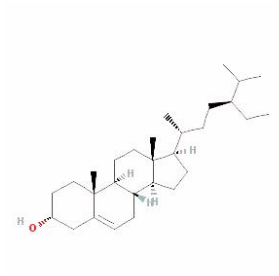
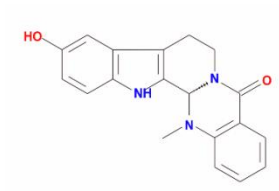
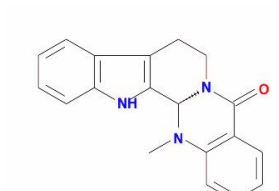
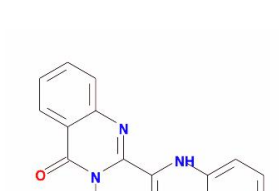
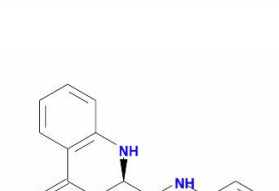


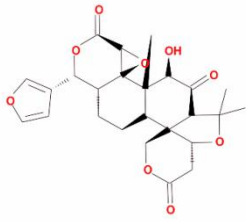
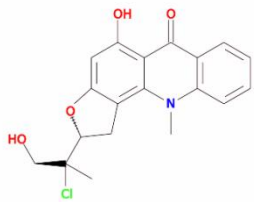
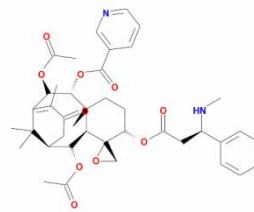
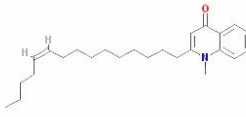
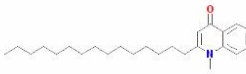
Supplementary Material

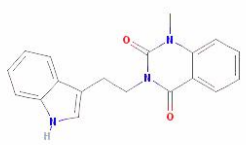
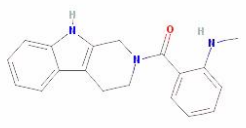
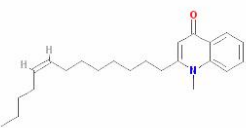
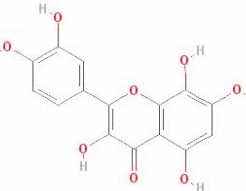
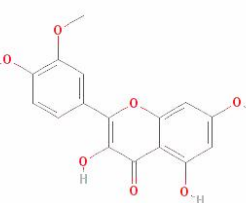
1 Supplementary Tables

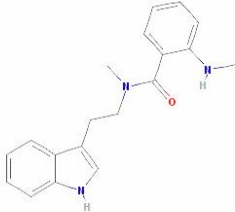
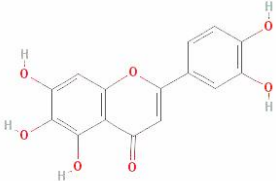
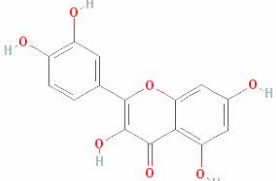
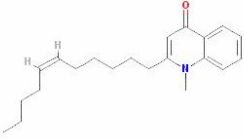
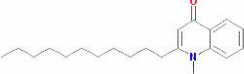
Table S1. Information on 77 active compounds of Wuzhuyu Decoction

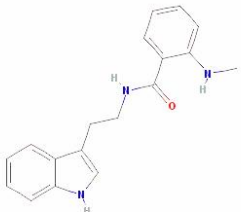
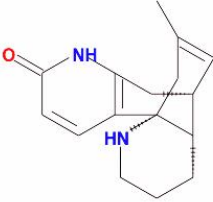

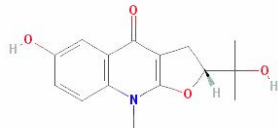
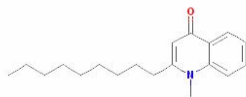
Molecule ID	Molecule Name	2D structure	OB (%)	DL	Source
MOL001454	berberine		36.86	0.78	Wuzhuyu (Evodiae Fructus), Dazao (Jujubae Fructus)
MOL013352	Obacunone		43.29	0.77	Wuzhuyu (Evodiae Fructus)
MOL003994	24-methyl-31-norlanost-9(11)-enol		38.00	0.75	Wuzhuyu (Evodiae Fructus)
MOL000358	beta-sitosterol		36.91	0.75	Wuzhuyu (Evodiae Fructus), Dazao (Jujubae Fructus), Renshen (Panax Ginseng C. A. Mey.), Shengjiang (Zingiber)

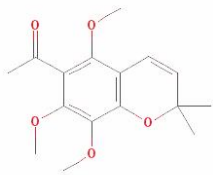
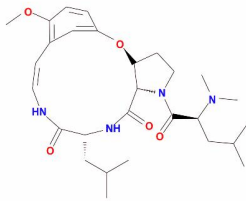
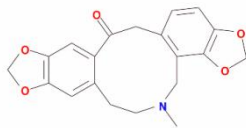
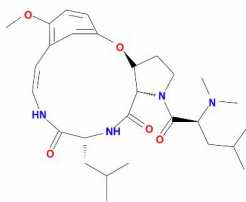
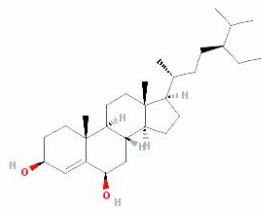
					Officinale Roscoe)
MOL000359	sitosterol		36.91	0.75	Wuzhuyu (Evodiae Fructus)
MOL003963	Hydroxyevodia- mine		72.11	0.71	Wuzhuyu (Evodiae Fructus)
MOL003958	Evodiamine		86.02	0.64	Wuzhuyu (Evodiae Fructus)
MOL002662	rutaecarpine		40.30	0.60	Wuzhuyu (Evodiae Fructus)
MOL003956	Dihydrorutaear- -pine		42.27	0.60	Wuzhuyu (Evodiae Fructus)

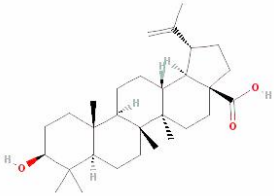
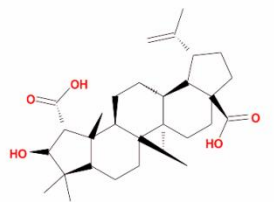
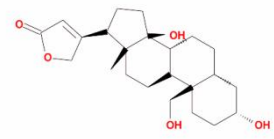
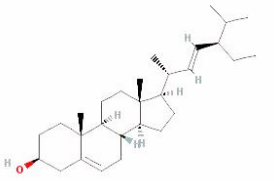
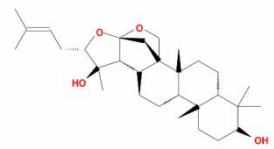
MOL003942	Rutaevine		66.05	0.58	Wuzhuyu (Evodiae Fructus)
MOL004021	Gravacridoneshli i-rine		63.73	0.54	Wuzhuyu (Evodiae Fructus)
MOL004002	5alpha-O-(3'- Methylamino-3'- phenylpropionyl)nicotaxine		30.86	0.49	Wuzhuyu (Evodiae Fructus)
MOL003947	1-methyl-2-[(Z)- pentadec-10- enyl]-4- quinolone		48.45	0.46	Wuzhuyu (Evodiae Fructus)
MOL003957	1-methyl-2- pentadecyl-4- quinolone		44.52	0.46	Wuzhuyu (Evodiae Fructus)

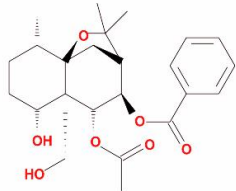
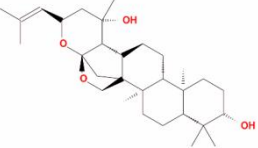
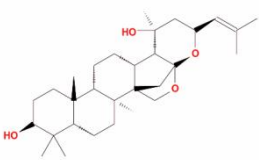
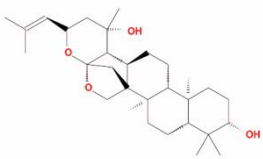
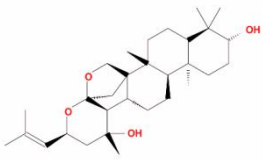
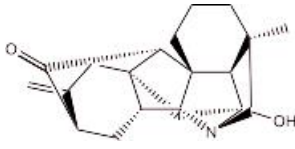
MOL004019	GoshuyuamideII		69.11	0.43	Wuzhuyu (Evodiae Fructus)
MOL004018	Goshuyuamide I		83.19	0.39	Wuzhuyu (Evodiae Fructus)
MOL003974	Evocarpine		48.66	0.36	Wuzhuyu (Evodiae Fructus)
MOL004020	gossypetin		35.00	0.31	Wuzhuyu (Evodiae Fructus)
MOL000354	isorhamnetin		49.60	0.31	Wuzhuyu (Evodiae Fructus)

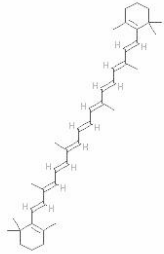
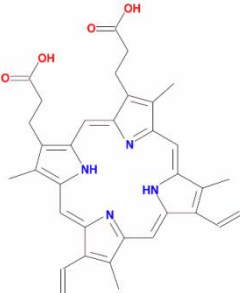
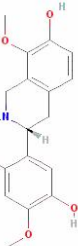
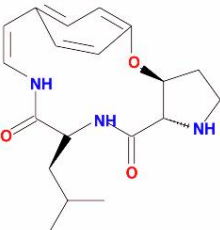
MOL004014	Evodiamide		73.77	0.28	Wuzhuyu (Evodiae Fructus)
MOL004004	6-OH-Luteolin		46.93	0.28	Wuzhuyu (Evodiae Fructus)
MOL000098	quercetin		46.43	0.28	Wuzhuyu (Evodiae Fructus), Dazao (Jujubae Fructus)
MOL003950	1-methyl-2-[(Z)-undec-6-enyl]-4-quinolone		48.48	0.27	Wuzhuyu (Evodiae Fructus)
MOL003964	1-methyl-2-undecyl-4-quinolone		47.59	0.27	Wuzhuyu (Evodiae Fructus)

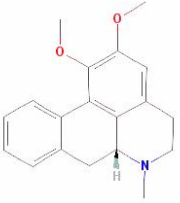
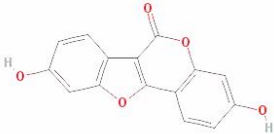
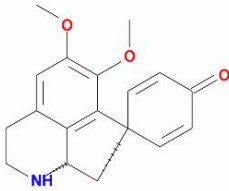
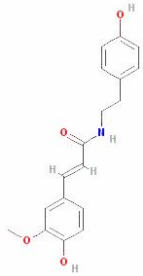
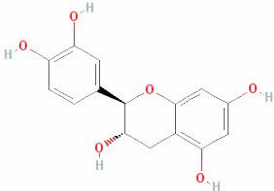
MOL004025	N-(2-Methylaminoben-zoyl)tryptamine		56.96	0.26	Wuzhuyu (Evodiae Fructus)
MOL004017	Fordimine		55.11	0.26	Wuzhuyu (Evodiae Fructus)
MOL003975	icosa-11,14,17-trienoic acid methyl ester		44.81	0.23	Wuzhuyu (Evodiae Fructus)
MOL003943	Rutalinidine		40.89	0.22	Wuzhuyu (Evodiae Fructus)
MOL003972	1-methyl-2-nonyl-4-quinolone		48.42	0.20	Wuzhuyu (Evodiae Fructus)

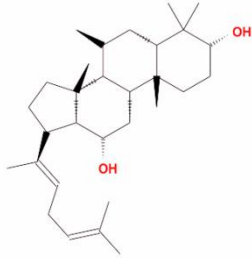
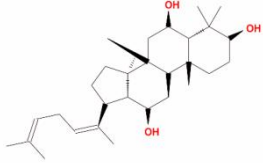
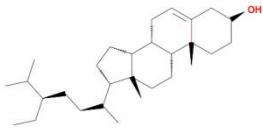
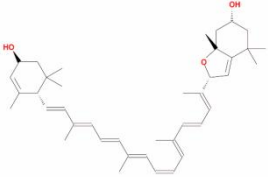
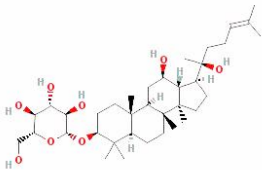
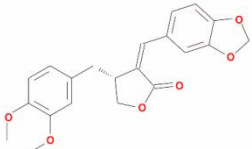
MOL003960	1-(5,7,8-trimethoxy-2,2-dimethylchromen-6-yl)ethanone		30.39	0.18	Wuzhuyu (Evodiae Fructus)
MOL012981	Daechuine S7		44.82	0.83	Dazao (Jujubae Fructus)
MOL000787	Fumarine		59.26	0.83	Dazao (Jujubae Fructus), Renshen (Panax Ginseng C. A. Mey.)
MOL012980	Daechuine S6		46.48	0.79	Dazao (Jujubae Fructus)
MOL013357	(3S,6R,8S,9S,10R,13R,14S,17R)-17-[(1R,4R)-4-ethyl-1,5-dimethylhexyl]-10,13-dimethyl-2,3,6,7,8,9,11,12,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthrene-3,6-diol		34.37	0.78	Dazao (Jujubae Fructus)

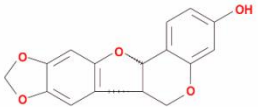
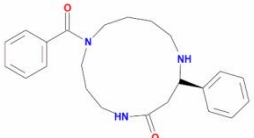
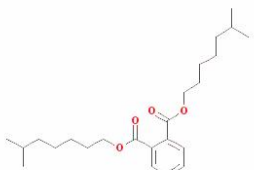
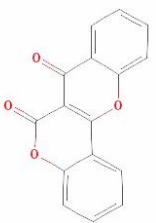
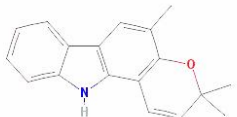
MOL000211	Mairin		55.38	0.78	Dazao (Jujubae Fructus)
MOL008034	21302-79-4		73.52	0.77	Dazao (Jujubae Fructus)
MOL004350	Ruvoside_qt		36.12	0.76	Dazao (Jujubae Fructus)
MOL000449	Stigmasterol		43.83	0.76	Dazao (Jujubae Fructus), Renshen (Panax Ginseng C. A. Mey.), Shengjiang (Zingiber Officinale Roscoe)
MOL012986	Jujubasaponin V_qt		36.99	0.63	Dazao (Jujubae Fructus)

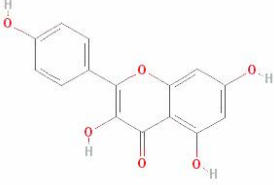
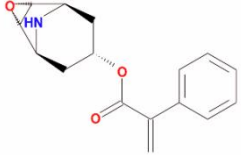
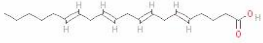
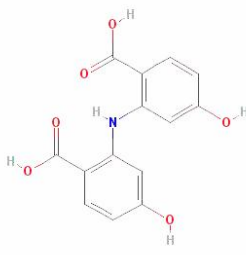
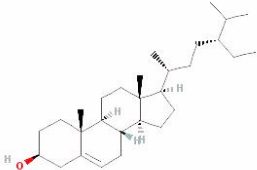
MOL005360	malkangunin		57.71	0.63	Dazao (Jujubae Fructus), Renshen (Panax Ginseng C. A. Mey.)
MOL003410	Ziziphin_qt		66.95	0.62	Dazao (Jujubae Fructus)
MOL012946	zizyphus saponin I_qt		32.69	0.62	Dazao (Jujubae Fructus)
MOL012961	jujuboside A_qt		36.67	0.62	Dazao (Jujubae Fructus)
MOL012989	Jujuboside C_qt		40.26	0.62	Dazao (Jujubae Fructus)
MOL012940	Spiradine A		113.52	0.61	Dazao (Jujubae Fructus)

MOL002773	beta-carotene		37.18	0.58	Dazao (Jujubae Fructus)
MOL000783	Protoporphyrin		30.86	0.56	Dazao (Jujubae Fructus)
MOL000627	Stepholidine		33.11	0.54	Dazao (Jujubae Fructus)
MOL012992	Mauritine D		89.13	0.45	Dazao (Jujubae Fructus)

MOL007213	Nuciferin		34.43	0.40	Dazao (Jujubae Fructus)
MOL012976	coumestrol		32.49	0.34	Dazao (Jujubae Fructus)
MOL012921	stepharine		31.55	0.33	Dazao (Jujubae Fructus)
MOL008647	Moupinamide		86.71	0.26	Dazao (Jujubae Fructus)
MOL000492	(+)-catechin		54.83	0.24	Dazao (Jujubae Fructus)

MOL005401	ginsenoside Rg5_qt		39.56	0.79	Renshen (Panax Ginseng C. A. Mey.)
MOL005348	Ginsenoside- Rh4_qt		31.11	0.78	Renshen (Panax Ginseng C. A. Mey.)
MOL005399	alexandrin_qt		36.91	0.75	Renshen (Panax Ginseng C. A. Mey.)
MOL004492	Chrysanthemaxa n-thin		38.72	0.58	Renshen (Panax Ginseng C. A. Mey.)
MOL005344	ginsenoside rh2		36.32	0.56	Renshen (Panax Ginseng C. A. Mey.)
MOL005384	suchilactone		57.52	0.56	Renshen (Panax Ginseng C. A. Mey.)

MOL003648	Inermin		65.83	0.54	Renshen (Panax Ginseng C. A. Mey.)
MOL005314	Celabenzine		101.88	0.49	Renshen (Panax Ginseng C. A. Mey.)
MOL002879	Diop		43.59	0.39	Renshen (Panax Ginseng C. A. Mey.)
MOL005321	Frutinone A		65.90	0.34	Renshen (Panax Ginseng C. A. Mey.)
MOL005356	Girinimbin		61.22	0.31	Renshen (Panax Ginseng C. A. Mey.)

MOL000422	kaempferol		41.88	0.24	Renshen (Panax Ginseng C. A. Mey.)
MOL005308	Aposiopolamine		66.65	0.22	Renshen (Panax Ginseng C. A. Mey.)
MOL005320	arachidonate		45.57	0.20	Renshen (Panax Ginseng C. A. Mey.)
MOL005318	Dianthramine		40.45	0.20	Renshen (Panax Ginseng C. A. Mey.)
MOL001771	poriferast-5-en-3beta-ol		36.91	0.75	Shengjiang (Zingiber Officinale Roscoe)

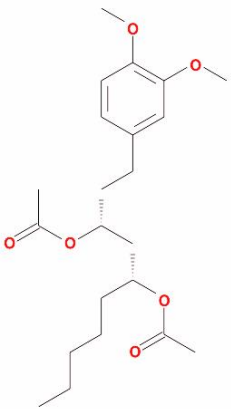
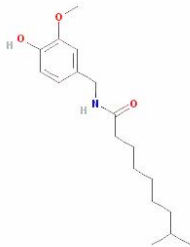
MOL006129	6-methylgingediacetate2		48.73	0.32	Shengjiang (Zingiber Officinale Roscoe)
MOL008698	Dihydrocapsaicin		47.07	0.19	Sheng Jiang (Zingiber Officinale Roscoe)

Table S2. Basic information of 179 key targets of Wuzhuyu Decoction against HCC.

Uniprot ID	Gene Symbol	Protein names
P01375	TNF	Tumor necrosis factor
P11387	TOP1	DNA topoisomerase 1
O95433	AHSA1	Activator of 90 kDa heat shock protein ATPase homolog 1
P24385	CCND1	G1/S-specific cyclin-D1
P29965	CD40LG	CD40 ligand
P01584	IL1B	Interleukin-1 beta

Q13950	RUNX2	Runt-related transcription factor 2
P35968	KDR	Vascular endothelial growth factor receptor 2
P31645	SLC6A4	Sodium-dependent serotonin transporter
P11217	PYGM	Glycogen phosphorylase, muscle form
Q04206	RELA	Transcription factor p65
P48443	RXRG	Retinoic acid receptor RXR-gamma
P08254	MMP3	Stromelysin-1
Q08499	PDE4D	cAMP-specific 3',5'-cyclic phosphodiesterase 4D
P37231	PPARG	Peroxisome proliferator-activated receptor gamma
Q08209	PPP3CA	Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform
P03973	SLPI	Antileukoproteinase
Q07869	PPARA	Peroxisome proliferator-activated receptor alpha
Q15788	NCOA1	Nuclear receptor coactivator 1
P35228	NOS2	Nitric oxide synthase, inducible
P45985	MAP2K4	Dual specificity mitogen-activated protein kinase kinase 4
P23219	PTGS1	Prostaglandin G/H synthase 1
Q06455	RUNX1T1	Protein CBFA2T1
P35354	PTGS2	Prostaglandin G/H synthase 2
P06401	PGR	Progesterone receptor
Q15113	PCOLCE	Procollagen C-endopeptidase enhancer 1

P28482	MAPK1	Mitogen-activated protein kinase 1
P35372	OPRM1	Mu-type opioid receptor
Q03181	PPARD	Peroxisome proliferator-activated receptor delta
P13726	F3	Tissue factor
Q16665	HIF1A	Hypoxia-inducible factor 1-alpha
O15111	CHUK	Inhibitor of nuclear factor kappa-B kinase subunit alpha
Q08334	IL10RB	Interleukin-10 receptor subunit beta
P10145	CXCL8	Interleukin-8
P18031	PTPN1	Tyrosine-protein phosphatase non-receptor type 1
O43242	PSMD3	26S proteasome non-ATPase regulatory subunit 3
Q16236	NFE2L2	Nuclear factor erythroid 2-related factor 2
P04049	RAF1	RAF proto-oncogene serine/threonine-protein kinase
Q9NS23	RASSF1	Ras association domain-containing protein 1
P19320	VCAM1	Vascular cell adhesion protein 1
P00441	SOD1	Superoxide dismutase [Cu-Zn]
P01579	IFNG	Interferon gamma
P00750	PLAT	Tissue-type plasminogen activator
P14598	NCF1	Neutrophil cytosol factor 1
P14780	MMP9	Matrix metalloproteinase-9
P06400	RB1	Retinoblastoma-associated protein

P01106	MYC	Myc proto-oncogene protein
P15559	NQO1	NAD(P)H dehydrogenase [quinone] 1
P10451	SPP1	Osteopontin
P01344	IGF2	Insulin-like growth factor II
P27169	PON1	Serum paraoxonase/arylesterase 1
Q14994	NR1I3	Nuclear receptor subfamily 1 group I member 3
P29474	NOS3	Nitric oxide synthase, endothelial
P09874	PARP1	Poly [ADP-ribose] polymerase 1
P78380	OLR1	Oxidized low-density lipoprotein receptor 1
P11137	MAP2	Microtubule-associated protein 2
P20936	RASA1	Ras GTPase-activating protein 1
P00734	F2	Prothrombin
Q9UBP6	METTL1	tRNA (guanine-N(7)-)-methyltransferase
P11388	TOP2A	DNA topoisomerase 2-alpha
P07204	THBD	Thrombomodulin
P05121	SERPINE1	Plasminogen activator inhibitor 1
P23975	SLC6A2	Sodium-dependent noradrenaline transporter
Q14432	PDE3A	cGMP-inhibited 3',5'-cyclic phosphodiesterase A
P19793	RXRA	Retinoic acid receptor RXR-alpha
Q01959	SLC6A3	Sodium-dependent dopamine transporter

P05164	MPO	Myeloperoxidase
P42224	STAT1	Signal transducer and activator of transcription 1-alpha/beta
P41143	OPRD1	Delta-type opioid receptor
P55786	NPEPPS	Puromycin-sensitive aminopeptidase
P00749	PLAU	Urokinase-type plasminogen activator
P07477	PRSS1	Trypsin-1
P00918	CA2	Carbonic anhydrase 2
O14493	CLDN4	Claudin-4
P27338	MAOB	Amine oxidase [flavin-containing] B
Q9NRD8	DUOX2	Dual oxidase 2
P14784	IL2RB	Interleukin-2 receptor subunit beta
P16444	DPEP1	Beta-lactamase
Q14209	E2F2	Transcription factor E2F2
P52789	HK2	Hexokinase-2
P00742	F10	Coagulation factor X
P04792	HSPB1	Heat shock protein beta-1
Q92731	ESR2	Estrogen receptor beta
P03372	ESR1	Estrogen receptor
P06213	INSR	Insulin receptor
P07550	ADRB2	Beta-2 adrenergic receptor

Q07812	BAX	Apoptosis regulator BAX
P55211	CASP9	Caspase-9
P29466	CASP1	Caspase-1
Q9UNQ0	ABCG2	ATP-binding cassette sub-family G member 2
P22303	ACHE	Acetylcholinesterase
P11926	ODC1	Ornithine decarboxylase
P00533	EGFR	Epidermal growth factor receptor
P06493	CDK1	Cell division control protein 2 homolog
P19419	ELK1	ETS domain-containing protein Elk-1
P55210	CASP7	Caspase-7
P07339	CTSD	Cathepsin D
P14672	SLC2A4	Solute carrier family 2, facilitated glucose transporter member 4
P05231	IL6	Interleukin-6
P15121	AKR1B1	Aldose reductase
P02778	CXCL10	C-X-C motif chemokine 10
P09488	GSTM1	Glutathione S-transferase Mu 1
P31749	AKT1	RAC-alpha serine/threonine-protein kinase
P14635	CCNB1	G2/mitotic-specific cyclin-B1
P20248	CCNA2	Cyclin-A2
P08684	CYP3A4	Cytochrome P450 3A4

P17302	GJA1	Gap junction alpha-1 protein
P28161	GSTM2	Glutathione S-transferase Mu 2
P20813	CYP2B6	Cytochrome P450 2B6
P17538	CTRB1	Chymotrypsinogen B
P05771	PRKCB	Protein kinase C beta type
P17612	PRKACA	cAMP-dependent protein kinase catalytic subunit alpha
Q12809	KCNH2	Potassium voltage-gated channel subfamily H member 2
P04626	ERBB2	Receptor tyrosine-protein kinase erbB-2
P01100	FOS	Proto-oncogene c-Fos
P49841	GSK3B	Glycogen synthase kinase-3 beta
Q00613	HSF1	Heat shock factor protein 1
O14920	IKBKB	Inhibitor of nuclear factor kappa-B kinase subunit beta
P24941	CDK2	Cell division protein kinase 2
P56537	EIF6	Eukaryotic translation initiation factor 6
P16581	SELE	E-selectin
P04798	CYP1A1	Cytochrome P450 1A1
P10415	BCL2	Apoptosis regulator Bcl-2
Q14790	CASP8	Caspase-8
O15392	BIRC5	Baculoviral IAP repeat-containing protein 5
O14625	CXCL11	C-X-C motif chemokine 11

Q01094	E2F1	Transcription factor E2F1
P13500	CCL2	C-C motif chemokine 2
P18825	ADRA2C	Alpha-2C adrenergic receptor
Q03135	CAV1	Caveolin-1
P10275	AR	Androgen receptor
Q07817	BCL2L1	Bcl-2-like protein 1
P11511	CYP19A1	Cytochrome P450 19A1
P35222	CTNNB1	Catenin beta-1
Q16678	CYP1B1	Cytochrome P450 1B1
Q16543	CDC37	Hsp90 co-chaperone Cdc37
P08588	ADRB1	Beta-1 adrenergic receptor
P11021	HSPA5	78 kDa glucose-regulated protein
P56817	BACE1	Beta-secretase 1
P42330	AKR1C3	Aldo-keto reductase family 1 member C3
O14757	CHEK1	Serine/threonine-protein kinase Chk1
P36544	CHRNA7	Neuronal acetylcholine receptor subunit alpha-7
P42574	CASP3	Caspase-3
P38936	CDKN1A	Cyclin-dependent kinase inhibitor 1
P35368	ADRA1B	Alpha-1B adrenergic receptor
P02461	COL3A1	Collagen alpha-1(III) chain

Q13085	ACACA	Acetyl-CoA carboxylase 1
P35869	AHR	Aryl hydrocarbon receptor
O96017	CHEK2	Serine/threonine-protein kinase Chk2
P49895	DIO1	Type I iodothyronine deiodinase
P09917	ALOX5	Arachidonate 5-lipoxygenase
P21397	MAOA	Amine oxidase [flavin-containing] A
P09601	HMOX1	Heme oxygenase 1
P10914	IRF1	Interferon regulatory factor 1
Q15596	NCOA2	Nuclear receptor coactivator 2
P05112	IL4	Interleukin-4
Q16539	MAPK14	Mitogen-activated protein kinase 14
P17936	IGFBP3	Insulin-like growth factor-binding protein 3
Q92819	HAS2	Hyaluronan synthase 2
P45983	MAPK8	Mitogen-activated protein kinase 8
P09960	LTA4H	Leukotriene A-4 hydrolase
P19875	CXCL2	C-X-C motif chemokine 2
P21860	ERBB3	Receptor tyrosine-protein kinase erbB-3
P07900	HSP90AA1	Heat shock protein HSP 90-alpha
P08235	NR3C2	Mineralocorticoid receptor
P49327	FASN	Fatty acid synthase

P08253	MMP2	72 kDa type IV collagenase
P08709	F7	Coagulation factor VII
P04150	NR3C1	Glucocorticoid receptor
P01857	IGHG1	Ig gamma-1 chain C region
O75469	NR1H2	Nuclear receptor subfamily 1 group I member 2
P04637	TP53	Cellular tumor antigen p53
P01583	IL1A	Interleukin-1 alpha
P25963	NFKBIA	NF-kappa-B inhibitor alpha
P03956	MMP1	Interstitial collagenase
P05362	ICAM1	Intercellular adhesion molecule 1
P17252	PRKCA	Protein kinase C alpha type
P27487	DPP4	Dipeptidyl peptidase 4
P05412	JUN	Transcription factor AP-1

Table S3. The enriched 64 potential pathways related to HCC.

ID	Description	pvalue	p.adjust	Count
hsa05417	Lipid and atherosclerosis	2.12E-36	5.46E-34	47
hsa05418	Fluid shear stress and atherosclerosis	5.99E-28	7.73E-26	34
hsa05161	Hepatitis B	1.48E-25	1.27E-23	34

hsa05207	Chemical carcinogenesis - receptor activation	1.35E-22	5.07E-21	35
hsa05215	Prostate cancer	1.38E-22	5.07E-21	26
hsa05167	Kaposi sarcoma-associated herpesvirus infection	8.14E-22	2.33E-20	33
hsa05163	Human cytomegalovirus infection	1.13E-20	2.92E-19	34
hsa05160	Hepatitis C	3.38E-20	7.94E-19	29
hsa05222	Small cell lung cancer	4.66E-18	1.00E-16	22
hsa01522	Endocrine resistance	2.02E-17	4.01E-16	22
hsa05219	Bladder cancer	3.04E-17	5.61E-16	16
hsa05169	Epstein-Barr virus infection	4.53E-17	7.56E-16	29
hsa05166	Human T-cell leukemia virus 1 infection	4.69E-17	7.56E-16	30
hsa05212	Pancreatic cancer	4.05E-16	6.15E-15	19
hsa05223	Non-small cell lung cancer	2.52E-15	3.42E-14	18
hsa05162	Measles	4.48E-15	5.78E-14	23
hsa04218	Cellular senescence	5.97E-15	7.12E-14	24
hsa04210	Apoptosis	3.01E-14	3.11E-13	22

hsa05225	Hepatocellular carcinoma	3.31E-14	3.28E-13	24
hsa05205	Proteoglycans in cancer	4.71E-14	4.50E-13	26
hsa05210	Colorectal cancer	7.25E-14	6.45E-13	18
hsa04010	MAPK signaling pathway	1.58E-13	1.32E-12	30
hsa04919	Thyroid hormone signaling pathway	3.17E-13	2.47E-12	20
hsa04115	p53 signaling pathway	8.85E-13	6.72E-12	16
hsa05224	Breast cancer	1.50E-12	1.11E-11	21
hsa05220	Chronic myeloid leukemia	1.72E-12	1.20E-11	16
hsa05213	Endometrial cancer	6.09E-12	3.83E-11	14
hsa01524	Platinum drug resistance	1.28E-11	7.70E-11	15
hsa04151	PI3K-Akt signaling pathway	1.97E-11	1.15E-10	30
hsa05132	Salmonella infection	3.02E-11	1.66E-10	25
hsa04012	ErbB signaling pathway	1.28E-10	6.36E-10	15
hsa05226	Gastric cancer	1.43E-10	6.94E-10	19
hsa05202	Transcriptional misregulation in cancer	2.69E-10	1.23E-09	21
hsa05216	Thyroid cancer	2.13E-09	8.74E-09	10
hsa05214	Glioma	2.92E-09	1.18E-08	13

hsa05221	Acute myeloid leukemia	8.24E-09	3.17E-08	12
hsa05165	Human papillomavirus infection	1.23E-08	4.61E-08	25
hsa04071	Sphingolipid signaling pathway	1.62E-08	5.87E-08	15
hsa05131	Shigellosis	1.22E-07	4.00E-07	20
hsa05218	Melanoma	1.95E-07	6.22E-07	11
hsa04110	Cell cycle	2.03E-07	6.38E-07	14
hsa05206	MicroRNAs in cancer	3.02E-07	9.28E-07	22
hsa05022	Pathways of neurodegeneration - multiple diseases	3.14E-07	9.54E-07	28
hsa05010	Alzheimer disease	4.19E-07	1.23E-06	24
hsa04510	Focal adhesion	6.63E-07	1.92E-06	17
hsa04722	Neurotrophin signaling pathway	8.26E-07	2.29E-06	13
hsa04014	Ras signaling pathway	1.09E-06	2.96E-06	18
hsa05203	Viral carcinogenesis	3.88E-06	1.00E-05	16
hsa04630	JAK-STAT signaling pathway	5.25E-06	1.34E-05	14
hsa05230	Central carbon metabolism in cancer	1.13E-05	2.76E-05	9
hsa04934	Cushing syndrome	7.51E-05	0.000171373	12

hsa04670	Leukocyte transendothelial migration	0.000107483	0.000243251	10
hsa04310	Wnt signaling pathway	0.000144933	0.000325153	12
hsa04137	Mitophagy - animal	0.000450845	0.000936763	7
hsa05012	Parkinson disease	0.001749824	0.003344108	13
hsa04211	Longevity regulating pathway	0.002239099	0.004216697	7
hsa04520	Adherens junction	0.003211599	0.005794354	6
hsa04916	Melanogenesis	0.004558126	0.007945922	7
hsa05217	Basal cell carcinoma	0.009149638	0.015428801	5
hsa04015	Rap1 signaling pathway	0.010924733	0.017952746	10
hsa05168	Herpes simplex virus 1 infection	0.013082867	0.021096123	18
hsa05014	Amyotrophic lateral sclerosis	0.017005567	0.026752661	14
hsa04550	Signaling pathways regulating pluripotency of stem cells	0.027284197	0.041419581	7
hsa04390	Hippo signaling pathway	0.042088527	0.062050514	7
