

SUPPLEMENTARY DATA

Table S1. Angiogenic profile of the 100 TCM compounds selected for this study.

Table S2. Ten most important target prediction features and ten differentially expressed genes (DEGs) were used in the decision tree model.

Figure S1. The angiogenesis phenotype of the 51 Known Angiogenesis Modulators in this study has been shown via a decision tree derived from the Top 10 PIDGIN prediction targets (TP).

Figure S2. The angiogenesis phenotype of the 51 Known Angiogenesis Modulators in this study has been shown via a decision tree derived from the Top 10 DEGs.

Table S1. Angiogenic profile of the 100 TCM compounds selected for this study.

	Name of compound	Effect on angiogenesis	ref		Name of compound	Effect on angiogenesis	ref
1	Glycyrrhizic acid	Inhibit	[1]	52	Anhydroicaritin	Unknown	
2	Ginkgolide B	Inhibit	[2]	53	Aconitine	Unknown	
3	Andrographolide	Inhibit	[3]	54	Stachydrine hydrochloride	Unknown	
4	Emodin	Inhibit	[4]	55	Ephedrine hydrochloride	Unknown	
5	Ginsenoside Rb1	Inhibit	[5]	56	Lobetyolin	Unknown	
6	Saikosaponin d	Inhibit	[6]	57	Saikosaponin A	Unknown	
7	Chlorogenic acid	Inhibit	[7]	58	Gastrodin	Unknown	
8	Artemisinin	Inhibit	[8]	59	Acteoside	Unknown	
9	Deoxycholic acid	Inhibit	[9]	60	Imperatorin	Unknown	
10	Ursodeoxycholic acid	Inhibit	[10]	61	Hyodeoxycholic acid	Unknown	
11	Ginsenoside Rb2	Inhibit	[11]	62	Cholic acid	Unknown	
12	Ginsenoside Re	Inhibit	[12]	63	Isoborneol	Unknown	
13	Ginsenoside Rd	Inhibit	[13]	64	Benzyl benzoate	Unknown	
14	Nitidine chloride	Inhibit	[14]	65	Ginsenoside Rb3	Unknown	
15	Alantolactone	Inhibit	[15]	66	Ginsenoside Rc	Unknown	
16	Bufalin	Inhibit	[16]	67	Protocatechuic aldehyde	Unknown	
17	Arenobufagin	Inhibit	[17]	68	Britanin	Unknown	
18	Cinobufagin	Inhibit	[18]	69	Japonicone A	Unknown	
19	Oxymatrine	Inhibit	[19]	70	Bacopaside I	Unknown	
20	Matrine	Inhibit	[20]	71	1 β -hydroxyalantolactone	Unknown	
21	Osthole	Inhibit	[21]	72	Salvianic acid A sodium	Unknown	
22	Silybin	Inhibit	[22]	73	Isoalantolactone	Unknown	
23	Oleanic acid	Inhibit	[23]	74	Resibufogenin	Unknown	
24	Scutellarin	Inhibit	[24]	75	Telocinobufagin	Unknown	
25	Strychnine	Inhibit	[25]	76	Bufotaline	Unknown	
26	Magnolol	Inhibit	[26]	77	Cinobufotalin	Unknown	
27	6-gingerol	Inhibit	[27]	78	Daidzin	Unknown	
28	Oridonin	Inhibit	[28]	79	Schisantherin A	Unknown	
29	Dioscin	Inhibit	[29]	80	Schizandrin	Unknown	
30	Narciclasine	Inhibit	[30]	81	Phillyrin	Unknown	
31	Borneol	Inhibit	[31]	82	β -ecdysterone	Unknown	
32	Chelerythrine	Inhibit	[32]	83	Honokiol	Unknown	
33	Paeoniflorin	Inhibit/promote	[33][34]	84	Geniposide	Unknown	
34	Ferulic acid	Inhibit/promote	[35][36]	85	Gallic acid	Unknown	

35	Resveratrol	Inhibit/promote	[37][38]	86	Liquiritin	Unknown	
36	Salidroside	Inhibit/promote	[39][40]	87	L-scopolamine	Unknown	
37	Hydroxysafflor yellow A	Inhibit/promote	[41][42]	88	Gentiopicroside	Unknown	
38	Hesperidin	Inhibit/promote	[43][44]	89	Benzoylhypaconitine	Unknown	
39	Berberine	Promote	[45][46]	90	Benzoylaconitine	Unknown	
40	Puerarin	Promote	[47]	91	Tetrahydropalmatine	Unknown	
41	Bilobalide	Promote	[48]	92	Hypaconitine	Unknown	
42	Tanshinone IIA	Promote	[49]	93	Macrozamin	Unknown	
43	Ginsenoside Rg1	Promote	[50]	94	Sennoside A	Unknown	
44	Astragaloside IV	Promote	[51]	95	(+) 2-(1-hydroxyl-4-oxocyclohexyl) ethyl caffeate	Unknown	
45	Salvianolic acid B	Promote	[52]	96	Bruceine D	Unknown	
46	Chenodeoxycholic acid	Promote	[53]	97	Santonin	Unknown	
47	Cinnamic acid	Promote	[54]	98	Ainsliadimer A	Unknown	
48	Cinnamaldehyde	Promote	[55]	99	Hyperoside	Unknown	
49	Muscone	Promote	[56]	100	Sanguinarine	Unknown	
50	Curculigoside	Promote	[57]				
51	Notoginsenoside R1	Promote	[58]				

Table S2. Ten most important target prediction features and ten differentially expressed genes (DEGs) were used in the decision tree model.

	Name	Importance
DEGs	PHD finger protein 3	0.20041
	transducin beta like 1 X-linked	0.16206
	GC-rich sequence DNA-binding factor 2	0.12933
	protein tyrosine phosphatase non-receptor type 12	0.12281
	UDP glucuronosyltransferase family 2 member B15	0.11795
	glutamine-fructose-6-phosphate transaminase 2	0.11473
	Fos proto-oncogene, AP-1 transcription factor subunit	0.07762
	activating transcription factor 6 beta	0.07510
	zyxin	0.0
	zymogen granule protein 16	0.0
Target Prediction	Ribosomal protein S6 kinase alpha 5	0.14535
	Endoplasmic reticulum aminopeptidase 1	0.10378
	Bile salt export pump	0.10233
	CaM-kinase kinase beta	0.09279
	Carbonic anhydrase III	0.08336
	Testis-specific serine/threonine-protein kinase 1	0.07195
	Sodium/glucose cotransporter 2	0.06999
	Mitogen-activated protein kinase kinase kinase 5	0.06545
	Maltase-glucoamylase	0.06431
	Tubulin 8	0.05494

Figure S1. The angiogenesis phenotype of the 51 Known Angiogenesis Modulators in this study has been shown via a decision tree derived from the Top 10 PIDGIN prediction targets (TP).

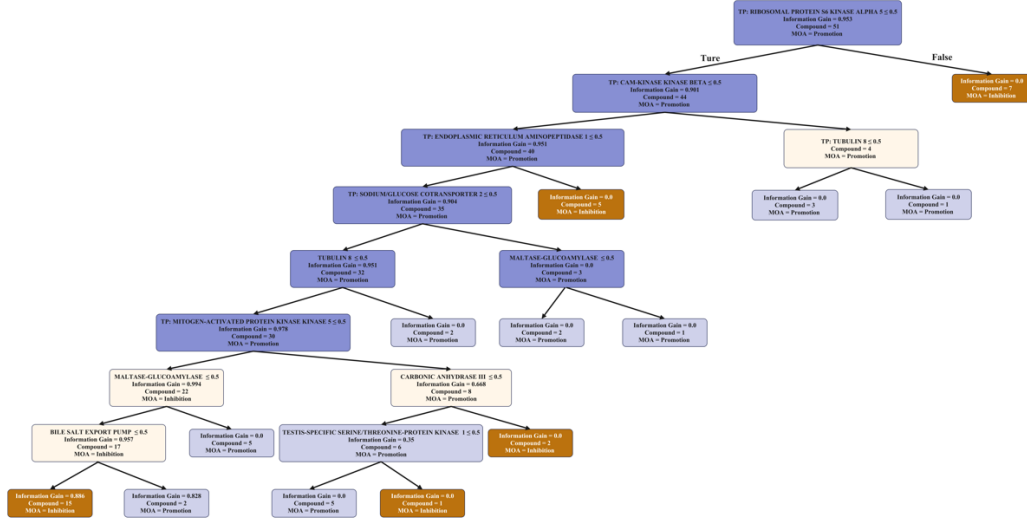
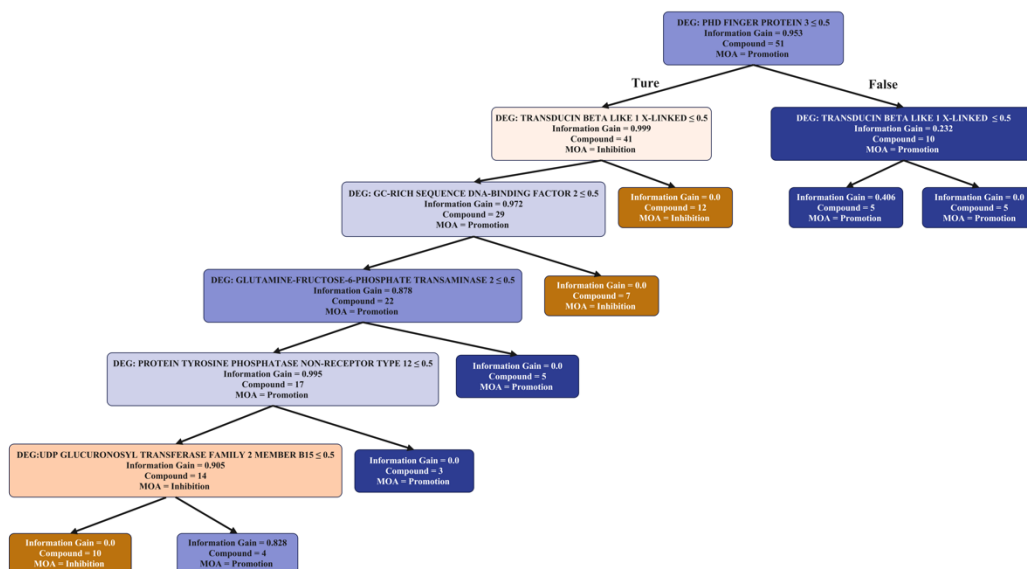


Figure S2. The angiogenesis phenotype of the 51 Known Angiogenesis Modulators in this study has been shown via a decision tree derived from the Top 10 DEGs.



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