

Table 3 Data of PPI network diagrams

SUID	AverageShortestPathLength	BetweennessunDir	BetweennessCentrality	ClosenessunDir	ClosenessCentrality	ClusteringCoefficient	Degree	Eccentricity	IsSingleNode	name	NeighborhoodConnectivity	NumberOfDirectedEdges	Radiality	selected	SelfLoops	sharedname	Stress	TopologicalCoefficient
1339	1.29577465	760.9026417	0.16525281	0.010989011	0.77173913	0.2745098	52	3	FALSE	AKT1	16.30769	52	0.926056	FALSE	0	AKT1	3746	0.23634337
317	1.36619718	494.3151843	0.11017016	0.010416667	0.73195876	0.29255319	48	3	FALSE	TNF	16.79167	48	0.908451	TRUE	0	TNF	2986	0.24693627
156	1.36619718	562.9239868	0.1133428	0.010526316	0.73195876	0.31111111	46	3	FALSE	ALB	17.30435	46	0.908451	TRUE	0	ALB	2876	0.24720497
1340	1.57746479	181.4066811	0.03633336	0.009090909	0.63392857	0.43850267	34	3	FALSE	MTOR	20.67647	34	0.855634	TRUE	0	MTOR	1256	0.30860404
201	1.54929577	242.4543849	0.0488083	0.009259259	0.64545455	0.45643939	33	3	FALSE	CASP3	21.15152	33	0.862676	TRUE	0	CASP3	1486	0.3021645
207	1.54929577	323.7087806	0.06552915	0.009259259	0.64545455	0.39204545	33	3	FALSE	ESR1	19.48485	33	0.862676	TRUE	0	ESR1	2022	0.27835498
294	1.57746479	222.0935031	0.05050021	0.009009009	0.63392857	0.44354839	32	3	FALSE	PTGS2	21.03125	32	0.855634	TRUE	0	PTGS2	1470	0.30480072
114	1.61971831	289.9359121	0.05484417	0.008849558	0.6173913	0.3891129	32	3	FALSE	PPARG	19.15625	32	0.84507	TRUE	0	PPARG	1460	0.29423077
249	1.5915493	128.0954635	0.02566081	0.009009009	0.62831858	0.47983871	32	3	FALSE	IGF1	21.71875	32	0.852113	TRUE	0	IGF1	996	0.31939338
316	1.66197183	133.0430237	0.02662217	0.00862069	0.60169492	0.45287356	30	3	FALSE	IL2	20.73333	30	0.834507	FALSE	0	IL2	784	0.31897436
200	1.71830986	181.5185052	0.036856	0.008333333	0.58196721	0.55434783	24	3	FALSE	MAPK1	23.875	24	0.820423	FALSE	0	MAPK1	996	0.36111111
147	1.71830986	37.61487435	0.00751319	0.008333333	0.58196721	0.60869565	24	3	FALSE	MAPK14	25.04167	24	0.820423	FALSE	0	MAPK14	358	0.37375622
1333	1.76056338	97.51647886	0.01962102	0.008130081	0.568	0.49802372	23	3	FALSE	PIK3CA	20.52174	23	0.809859	FALSE	0	PIK3CA	608	0.31571906
1334	1.76056338	49.22526945	0.00990448	0.008130081	0.568	0.59047619	21	3	FALSE	AR	24.47619	21	0.809859	FALSE	0	AR	348	0.36531628
327	1.77464789	19.49603743	0.00387088	0.008064516	0.56349206	0.70526316	20	3	FALSE	HGF	27.1	20	0.806338	FALSE	0	HGF	196	0.40447761
1338	1.76056338	67.32312782	0.01360294	0.008130081	0.568	0.56725146	19	3	FALSE	ACE	24.31579	19	0.809859	FALSE	0	ACE	632	0.35240275
1337	1.8028169	11.18433285	0.00222291	0.007936508	0.5546875	0.74269006	19	3	FALSE	MMP2	27.31579	19	0.799296	FALSE	0	MMP2	120	0.4138756
256	1.74647887	92.66820711	0.01869893	0.008196721	0.57258065	0.50877193	19	3	FALSE	SOD2	24.15789	19	0.81338	FALSE	0	SOD2	740	0.34511278
374	1.84507042	13.7133266	0.00273269	0.007751938	0.54198473	0.70588235	18	3	FALSE	CCL5	25	18	0.788732	FALSE	0	CCL5	114	0.390625
247	1.85915493	23.25570774	0.00467922	0.007692308	0.53787879	0.65441176	17	3	FALSE	KIT	26.17647	17	0.785211	FALSE	0	KIT	276	0.40900735
1327	1.85915493	7.965066306	0.00160263	0.007692308	0.53787879	0.75	16	3	FALSE	PARP1	27	16	0.785211	FALSE	0	PARP1	80	0.41538462
80	1.92957746	16.17442999	0.00325441	0.007407407	0.51824818	0.63333333	16	3	FALSE	PIK3R1	22.375	16	0.767606	FALSE	0	PIK3R1	156	0.37291667
152	1.83098592	218.0048273	0.04464823	0.0078125	0.54615385	0.4	15	3	FALSE	GSTP1	19.33333	15	0.792254	FALSE	0	GSTP1	1146	0.28756219
348	1.84507042	5.834197871	0.00113482	0.007751938	0.54198473	0.82857143	15	3	FALSE	CDK2	30.2	15	0.788732	FALSE	0	CDK2	66	0.45074627
264	1.88732394	10.45002959	0.00207244	0.007575758	0.52985075	0.73626374	14	3	FALSE	REN	27.64286	14	0.778169	FALSE	0	REN	84	0.42527473
159	1.90140845	4.652468014	9.31E-04	0.007518797	0.52592593	0.82417582	14	3	FALSE	CASP1	28.71429	14	0.774648	FALSE	0	CASP1	50	0.44866071
1324	1.95774648	26.45241068	0.00523781	0.00729927	0.51079137	0.56043956	14	4	FALSE	SYK	23	14	0.760563	FALSE	0	SYK	200	0.37704918
381	1.91549296	6.401652879	0.00126506	0.007462687	0.52205882	0.75641026	13	3	FALSE	DPP4	28.07692	13	0.771127	FALSE	0	DPP4	52	0.43870192
1335	1.88732394	24.89156454	0.00492479	0.007575758	0.52985075	0.62820513	13	3	FALSE	AHR	28.38462	13	0.778169	FALSE	0	AHR	214	0.43006993
108	1.90140845	5.469499572	0.00109603	0.007518797	0.52592593	0.79487179	13	3	FALSE	NOS2	28.76923	13	0.774648	FALSE	0	NOS2	70	0.44260355
131	1.85915493	24.81905593	0.00512443	0.007692308	0.53787879	0.63636364	12	3	FALSE	ABCB1	28.41667	12	0.785211	FALSE	0	ABCB1	390	0.41183575
1341	2.11267606	169.0068562	0.03441921	0.006802721	0.47333333	0.33333333	12	3	FALSE	COMT	12.66667	12	0.721831	FALSE	0	COMT	1410	0.24836601
150	1.90140845	41.04858921	0.0084966	0.007518797	0.52592593	0.53030303	12	3	FALSE	F2	24	12	0.774648	FALSE	0	F2	280	0.36363636
1330	2.05633803	5.305462639	0.0010675	0.006944444	0.48630137	0.78787879	12	4	FALSE	PIK3CB	22.58333	12	0.735915	FALSE	0	PIK3CB	46	0.39619883
1328	2.01408451	4.802713874	9.66E-04	0.007092199	0.4965035	0.77272727	12	4	FALSE	PIK3CG	25.5	12	0.746479	FALSE	0	PIK3CG	64	0.425
229	1.91549296	14.66635314	0.00295098	0.007462687	0.52205882	0.72727273	12	3	FALSE	HSPA1A	27.16667	12	0.771127	FALSE	0	HSPA1A	130	0.41794872
178	1.92957746	0.818997669	1.65E-04	0.007407407	0.51824818	0.94545455	11	3	FALSE	MMP1	32	11	0.767606	FALSE	0	MMP1	12	0.49230769
242	1.90140845	97.26425192	0.02033345	0.007518797	0.52592593	0.47272727	11	3	FALSE	ACHE	25	11	0.774648	FALSE	0	ACHE	910	0.37313433
222	1.91549296	26.28378283	0.00542522	0.007462687	0.52205882	0.52727273	11	3	FALSE	TYR	25.09091	11	0.771127	FALSE	0	TYR	224	0.38016529
238	1.95774648	4.085818415	8.07E-04	0.00729927	0.51079137	0.78181818	11	3	FALSE	PTPN1	28.81818	11	0.760563	FALSE	0	PTPN1	50	0.45743146
320	1.98591549	16.74094735	0.00346226	0.007194245	0.5035461	0.6	10	3	FALSE	GSTM1	21.1	10	0.753521	FALSE	0	GSTM1	160	0.34032258
1336	2.02816901	61.10897696	0.0125349	0.007042254	0.49305556	0.44444444	10	3	FALSE	BCHE	20.2	10	0.742958	FALSE	0	BCHE	546	0.34237288
1329	1.98591549	0.348484848	7.01E-05	0.007194245	0.5035461	0.95555556	10	4	FALSE	ARG1	31.7	10	0.753521	FALSE	0	ARG1	4	0.5031746
1325	2.12676056	2.073917838	4.17E-04	0.006711409	0.47019868	0.84444444	10	4	FALSE	PIK3CD	21.7	10	0.71831	FALSE	0	PIK3CD	16	0.40185185
125	2.02816901	11.42855541	0.00219023	0.007042254	0.49305556	0.55555556	9	3	FALSE	PON1	22.55556	9	0.742958	FALSE	0	PON1	80	0.37592593
176	1.98591549	1.13011988	2.27E-04	0.007194245	0.5035461	0.86111111	9	3	FALSE	VDR	31.77778	9	0.753521	FALSE	0	VDR	12	0.50440917
1326	1.98591549	0	0	0.007194245	0.5035461	1	8	3	FALSE	CASP7	34.625	8	0.753521	FALSE	0	CASP7	0	0.54101563
126	2.26760563	64.86230924	0.01320173	0.006329114	0.44099379	0.52380952	7	3	FALSE	MAOB	11.71429	7	0.683099	FALSE	0	MAOB	584	0.26031746
193	2.15492958	1.382897603	2.78E-04	0.006622517	0.46405229	0.85714286	7	4	FALSE	FKBP1A	24.85714	7	0.711268	FALSE	0	FKBP1A	10	0.45194805

157	2.04225352	0	0	0.006993007	0.48965517	1	7	4	FALSE	MIF	35.14286	7	0.739437	FALSE	0	MIF	0	0.56682028
321	2.01408451	7.020310245	0.001379	0.007092199	0.4965035	0.80952381	7	3	FALSE	G6PD	33.42857	7	0.746479	FALSE	0	G6PD	52	0.53061224
142	2.61971831	10.00153194	0.00210188	0.005464481	0.38172043	0.66666667	6	4	FALSE	MAOA	8.333333	6	0.59507	FALSE	0	MAOA	174	0.36231884
1331	2.14084507	1.313686314	2.50E-04	0.006666667	0.46710526	0.73333333	6	4	FALSE	BRAF	29.5	6	0.714789	FALSE	0	BRAF	14	0.51754386
309	2.09859155	0.576068376	1.16E-04	0.006802721	0.47651007	0.86666667	6	3	FALSE	SHBG	32.33333	6	0.725352	FALSE	0	SHBG	6	0.55747126
1332	2.02816901	0	0	0.007042254	0.49305556	1	5	3	FALSE	SLC1A2	42.4	5	0.742958	FALSE	0	SLC1A2	0	0.6625
129	2.09859155	16.704329	0.00329396	0.006802721	0.47651007	0.7	5	4	FALSE	ALOX15	33.2	5	0.725352	FALSE	0	ALOX15	106	0.5442623
246	2.94366197	8.041666667	0.00161804	0.004878049	0.33971292	0.6	5	4	FALSE	TPH1	6.6	5	0.514085	FALSE	0	TPH1	22	0.45714286
106	2.85915493	9.351248793	0.00188154	0.005025126	0.34975369	0.6	5	4	FALSE	PNMT	6.8	5	0.535211	FALSE	0	PNMT	22	0.38823529
3772	2.11267606		0.00349303		0.47333333	0.5	4	4	FALSE	PPARD	33.5	4	0.721831	FALSE	0	PPARD	128	0.55416667
110	2.18309859	0	0	0.006535948	0.45806452	1	4	3	FALSE	HSPA1B	29.5	4	0.704225	FALSE	0	HSPA1B	0	0.5462963
137	2.09859155	0.409207161	7.57E-05	0.006802721	0.47651007	0.83333333	4	3	FALSE	ESRRA	34	4	0.725352	FALSE	0	ESRRA	8	0.56666667
323	2.23943662	2.181818182	4.39E-04	0.006410256	0.44654088	0.66666667	4	3	FALSE	GSTM2	20.75	4	0.690141	FALSE	0	GSTM2	8	0.415
314	2.16901408	0	0	0.006578947	0.46103896	1	4	3	FALSE	XDH	36.25	4	0.707746	FALSE	0	XDH	0	0.65909091
385	2.22535211	40.98032717	0.00832167	0.006451613	0.44936709	0.5	4	3	FALSE	PAH	18.5	4	0.693662	FALSE	0	PAH	282	0.365
133	2.23943662	0	0	0.006369427	0.44654088	1	3	4	FALSE	PFKFB3	31	3	0.690141	FALSE	0	PFKFB3	0	0.58490566
190	2.4084507	23.55013901	0.00479595	0.005952381	0.41520468	0.33333333	3	4	FALSE	CBR1	17.66667	3	0.647887	FALSE	0	CBR1	244	0.44444444
202	2.25352113	0	0	0.006329114	0.44375	1	3	4	FALSE	PTPN22	30.66667	3	0.68662	FALSE	0	PTPN22	0	0.57861635
356	2.25352113	0	0	0.006329114	0.44375	1	2	4	FALSE	PMS2	37.5	2	0.68662	FALSE	0	PMS2	0	0.70754717
134	2.54929577	0	0	0.005586592	0.39226519	1	2	4	FALSE	ALOX12	18.5	2	0.612676	FALSE	0	ALOX12	0	0.578125
1322	2.57746479	0	1.01E-04	0.005494505	0.38797814	0	2	4	FALSE	NR1H2	18	2	0.605634	FALSE	0	NR1H2	2	0.5483871
257	2.81690141	0	0	0.005076142	0.355	0	1	4	FALSE	AHCY	15	1	0.545775	FALSE	0	AHCY	0	0
1323	2.70422535	0	0	0.005291005	0.36979167	0	1	4	FALSE	PDE10A	24	1	0.573944	FALSE	0	PDE10A	0	0