

S6: Correlation matrix of overlapping modules for five tissues in both normal and cancer condition.

S6a1: Moduland correlation matrix of overlapping modules (Brain normal)

	SRC	EGFR	HCK	CTNNB1	NOTCH1	CDK2	SMAD4	TAB1	PSMD13	PSMC2	RPL8	REPS2	SNX2	PDCD2	HIVEP3
SRC	1	0.81551	0.771969	0.411972	0.286581	0.097066	0.358518	0.070668	-0.14787	-0.13056	-0.21497	0.030151	-0.03786	-0.14206	0.027324
EGFR	0.81551	1	0.855353	0.344927	0.256527	-0.00527	0.176241	-0.06348	-0.1152	-0.0913	-0.18094	0.070816	0.137765	-0.13585	-0.02205
HCK	0.771969	0.855353	1	0.159478	0.108115	-0.12309	0.062948	0.027281	-0.152	-0.12573	-0.19247	0.134045	0.083888	-0.17777	-0.03811
CTNNB1	0.411972	0.344927	0.159478	1	0.878579	0.68139	0.811917	0.077618	0.044893	0.030559	-0.19769	-0.12711	-0.05068	-0.03624	0.074945
NOTCH1	0.286581	0.256527	0.108115	0.878579	1	0.737281	0.648147	0.1442	0.092855	0.074531	-0.19676	-0.06765	-0.01957	-0.04685	0.077654
CDK2	0.097066	-0.00527	-0.12309	0.68139	0.737281	1	0.570009	0.120423	0.355571	0.312805	-0.141	-0.12176	-0.13169	0.058829	0.067258
SMAD4	0.358518	0.176241	0.062948	0.811917	0.648147	0.570009	1	0.156638	0.013972	0.002266	-0.17577	-0.14591	-0.08554	0.050034	0.100079
TAB1	0.070668	-0.06348	0.027281	0.077618	0.1442	0.120423	0.156638	1	-0.01315	-0.01842	-0.06862	0.199295	0.094358	-0.09004	0.099716
PSMD13	-0.14787	-0.1152	-0.152	0.044893	0.092855	0.355571	0.013972	-0.01315	1	0.94616	-0.03098	0.068632	-0.00889	0.028943	0.015846
PSMC2	-0.13056	-0.0913	-0.12573	0.030559	0.074531	0.312805	0.002266	-0.01842	0.94616	1	-0.02496	0.085216	-2.65E-04	-0.00256	-0.00351
RPL8	-0.21497	-0.18094	-0.19247	-0.19769	-0.19676	-0.141	-0.17577	-0.06862	-0.03098	-0.02496	1	-0.05068	-0.04072	0.058931	-0.03168
REPS2	0.030151	0.070816	0.134045	-0.12711	-0.06765	-0.12176	-0.14591	0.199295	0.068632	0.085216	-0.05068	1	0.109168	-0.05076	-0.03515
SNX2	-0.03786	0.137765	0.083888	-0.05068	-0.01957	-0.13169	-0.08554	0.094358	-0.00889	-2.65E-04	-0.04072	0.109168	1	5.93E-04	-0.03456
PDCD2	-0.14206	-0.13585	-0.17777	-0.03624	-0.04685	0.058829	0.050034	-0.09004	0.028943	-0.00256	0.058931	-0.05076	5.93E-04	1	-0.03168
HIVEP3	0.027324	-0.02205	-0.03811	0.074945	0.077654	0.067258	0.100079	0.099716	0.015846	-0.00351	-0.03168	-0.03515	-0.03456	-0.03168	1

S6a2: Modulandcorrelation matrix of overlapping modules (Brain cancer)

	EGFR	CTNNB1	CDK2	FZR1	PIK3CB	RELA	TAB1	PSMC3	RPL8	PDCD2
EGFR	1	0.718382	0.135344	0.109295	0.520569	0.064355	0.043465	-0.2103	-0.19959	-0.1633
CTNNB1	0.718382	1	0.587936	0.547237	0.085706	0.089174	0.008284	-0.11439	-0.24018	-0.14966
CDK2	0.135344	0.587936	1	0.990883	-0.37573	0.154742	0.047529	0.27952	-0.18855	-0.02119
FZR1	0.109295	0.547237	0.990883	1	-0.37332	0.176986	0.072054	0.33202	-0.1894	-0.01892
PIK3CB	0.520569	0.085706	-0.37573	-0.37332	1	0.206969	0.310446	-0.19853	-0.08708	-0.18275
RELA	0.064355	0.089174	0.154742	0.176986	0.206969	1	0.863824	-0.02289	-0.11282	-0.04599
TAB1	0.043465	0.008284	0.047529	0.072054	0.310446	0.863824	1	0.014448	-0.06122	-0.12811
PSMC3	-0.2103	-0.11439	0.27952	0.33202	-0.19853	-0.02289	0.014448	1	-0.01054	0.127669
RPL8	-0.19959	-0.24018	-0.18855	-0.1894	-0.08708	-0.11282	-0.06122	-0.01054	1	0.065608
PDCD2	-0.1633	-0.14966	-0.02119	-0.01892	-0.18275	-0.04599	-0.12811	0.127669	0.065608	1

S6b1: Modulandcorrelation matrix of overlapping modules (Cervix normal)

	TP53	GJA1	FYN	SNIP1	RAN	SNX2	TRAF5
TP53	1	0.367841	-0.15406	-0.27602	-0.23998	-0.19698	-0.28221
GJA1	0.367841	1	-0.05392	-0.19751	-0.1546	-0.1661	-0.23797
FYN	-0.15406	-0.05392	1	-0.15765	-0.13921	-0.06698	-0.09596
SNIP1	-0.27602	-0.19751	-0.15765	1	-0.12543	-0.06035	-0.08646
RAN	-0.23998	-0.1546	-0.13921	-0.12543	1	-0.05329	-0.07635
SNX2	-0.19698	-0.1661	-0.06698	-0.06035	-0.05329	1	-0.03674
TRAF5	-0.28221	-0.23797	-0.09596	-0.08646	-0.07635	-0.03674	1

S6b1: Modulandcorrelation matrix of overlapping modules (Cervix cancer)

	EGFR	BRCA1	CUL1	SMAD2	PSMD12	RPL8	TCF3	ID1
EGFR	1	0.340016	0.45199	0.466684	-0.24058	-0.24597	-0.16854	-0.13779
BRCA1	0.340016	1	0.636874	0.692204	0.301848	-0.23737	-0.00474	0.004942
CUL1	0.45199	0.636874	1	0.528705	0.126055	-0.22336	-0.15211	-0.13434
SMAD2	0.466684	0.692204	0.528705	1	-0.12204	-0.26546	0.017589	0.04469
PSMD12	-0.24058	0.301848	0.126055	-0.12204	1	-0.01669	0.176104	0.151475
RPL8	-0.24597	-0.23737	-0.22336	-0.26546	-0.01669	1	0.031608	-0.07472
TCF3	-0.16854	-0.00474	-0.15211	0.017589	0.176104	0.031608	1	0.955377
ID1	-0.13779	0.004942	-0.13434	0.04469	0.151475	-0.07472	0.955377	1

S6c1: Modulandcorrelation matrix of overlapping modules (Lung normal)

	SRC	NOTCH3	PSMC2	RPL8	KRT18	SNRPD2	SNX2
SRC	1	-0.20276	-0.01175	-0.22526	-0.1561	-0.16224	0.069652
NOTCH3	-0.20276	1	-0.08258	-0.12844	0.298747	-0.01471	0.09475
PSMC2	-0.01175	-0.08258	1	-0.00864	-0.03537	-0.06092	-0.06092
RPL8	-0.22526	-0.12844	-0.00864	1	-0.08161	-0.02934	-0.02934
KRT18	-0.1561	0.298747	-0.03537	-0.08161	1	-0.08346	0.054226
SNRPD2	-0.16224	-0.01471	-0.06092	-0.02934	-0.08346	1	-0.02304
SNX2	0.069652	0.09475	-0.06092	-0.02934	0.054226	-0.02304	1

S6c2: Modulandcorrelation matrix of overlapping modules (Lung cancer)

	EGFR	CDK2	CUL1	CASP8	TAB2	NOTCH2	PSMD12	PSMC2	RPL8	PDCD2	HIVEP3
EGFR	1	0.448062	0.459619	0.071062	0.034679	-0.05694	-0.26424	-0.2501	-0.23321	-0.15882	-0.0501
CDK2	0.448062	1	0.876529	-0.08217	-0.13024	0.188523	0.151853	0.163867	-0.21278	-0.04099	-0.10499
CUL1	0.459619	0.876529	1	-0.08824	-0.08463	0.254847	0.14224	0.16578	-0.21546	-0.09991	-0.13441
CASP8	0.071062	-0.08217	-0.08824	1	0.888226	0.308779	-0.11046	-0.11015	-0.10071	-0.12267	0.148193
TAB2	0.034679	-0.13024	-0.08463	0.888226	1	0.258914	-0.081	-0.08268	-0.05194	-0.09505	0.137315
NOTCH2	-0.05694	0.188523	0.254847	0.308779	0.258914	1	0.123106	0.118294	-0.17849	-0.01626	0.084777
PSMD12	-0.26424	0.151853	0.14224	-0.11046	-0.081	0.123106	1	0.951829	0.021444	0.177007	-0.05851
PSMC2	-0.2501	0.163867	0.16578	-0.11015	-0.08268	0.118294	0.951829	1	0.02883	0.156354	-0.054
RPL8	-0.23321	-0.21278	-0.21546	-0.10071	-0.05194	-0.17849	0.021444	0.02883	1	0.06895	-0.03846
PDCD2	-0.15882	-0.04099	-0.09991	-0.12267	-0.09505	-0.01626	0.177007	0.156354	0.06895	1	-0.0355
HIVEP3	-0.0501	-0.10499	-0.13441	0.148193	0.137315	0.084777	-0.05851	-0.054	-0.03846	-0.0355	1

S6d1: Modulandcorrelation matrix of overlapping modules (Ovary normal)

	TP53	RPS13	TRAF2	EIF4E	PPP2CA
TP53	1	-0.53	-0.21637	-0.34648	-0.17289
RPS13	-0.53	1	0.038213	0.548597	0.240931
TRAF2	-0.21637	0.038213	1	-0.04054	-0.09103
EIF4E	-0.34648	0.548597	-0.04054	1	0.077918
PPP2CA	-0.17289	0.240931	-0.09103	0.077918	1

S6d2: Modulandcorrelation matrix of overlapping modules (Ovary cancer)

	CREBBP	CDK2	EGFR	CUL1	RIPK1	CASP8	TAB2	PSMC2	RPS13	KRT18	PDCD2
CREBBP	1	0.703751	0.30129	0.630255	-0.15957	-0.15347	-0.15055	-0.11198	-0.23705	-0.13292	-0.14008
CDK2	0.703751	1	-0.18085	0.930524	-0.01758	-0.04125	-0.05803	0.198837	-0.23301	-0.08775	-0.11695
EGFR	0.30129	-0.18085	1	-0.16463	0.174477	0.236446	0.109215	-0.20224	-0.1183	0.159795	-0.17966
CUL1	0.630255	0.930524	-0.16463	1	0.040908	0.016151	0.020113	0.163376	-0.22739	-0.0869	-0.1561
RIPK1	-0.15957	-0.01758	0.174477	0.040908	1	0.955352	0.747627	0.056345	-0.10186	0.42626	-0.10269
CASP8	-0.15347	-0.04125	0.236446	0.016151	0.955352	1	0.649366	0.024713	-0.07953	0.446797	-0.07798
TAB2	-0.15055	-0.05803	0.109215	0.020113	0.747627	0.649366	1	-0.01978	-0.03068	0.344474	-0.0762
PSMC2	-0.11198	0.198837	-0.20224	0.163376	0.056345	0.024713	-0.01978	1	-0.05021	0.023808	0.123074
RPS13	-0.23705	-0.23301	-0.1183	-0.22739	-0.10186	-0.07953	-0.03068	-0.05021	1	-0.08755	0.052721
KRT18	-0.13292	-0.08775	0.159795	-0.0869	0.42626	0.446797	0.344474	0.023808	-0.08755	1	-0.03731
PDCD2	-0.14008	-0.11695	-0.17966	-0.1561	-0.10269	-0.07798	-0.0762	0.123074	0.052721	-0.03731	1

S6e1: Modulandcorrelation matrix of overlapping modules (Prostate normal)

	CREBBP	CDK2	SKP1	PSMC2	RPL8	POLR1D
CREBBP	1	0.502089	0.485176	-0.25644	-0.26155	-0.14703
CDK2	0.502089	1	0.614242	0.19895	-0.23879	0.098528
SKP1	0.485176	0.614242	1	0.118679	-0.26245	0.053905
PSMC2	-0.25644	0.19895	0.118679	1	-0.00337	0.021386
RPL8	-0.26155	-0.23879	-0.26245	-0.00337	1	0.119763
POLR1D	-0.14703	0.098528	0.053905	0.021386	0.119763	1

S6d2: Modulandcorrelation matrix of overlapping modules (Prostate cancer)

	TP53	CDK2	CUL1	SRC	AKT1	PSMC2	NOTCH3	RPL8	STAP1
TP53	1	0.906802	0.872677	-0.14458	-0.1693	0.041151	0.145448	-0.24777	-0.06715
CDK2	0.906802	1	0.913168	-0.30417	-0.30787	0.252482	0.095964	-0.22799	-0.03604
CUL1	0.872677	0.913168	1	-0.22014	-0.22512	0.228615	0.165734	-0.25603	-0.03781
SRC	-0.14458	-0.30417	-0.22014	1	0.913571	-0.25158	0.061256	-0.15261	-0.04585
AKT1	-0.1693	-0.30787	-0.22512	0.913571	1	-0.25592	0.047348	-0.11545	-0.06953
PSMC2	0.041151	0.252482	0.228615	-0.25158	-0.25592	1	0.058867	-0.1116	0.176037
NOTCH3	0.145448	0.095964	0.165734	0.061256	0.047348	0.058867	1	-0.17156	-0.04373
RPL8	-0.24777	-0.22799	-0.25603	-0.15261	-0.11545	-0.1116	-0.17156	1	-0.03493
STAP1	-0.06715	-0.03604	-0.03781	-0.04585	-0.06953	0.176037	-0.04373	-0.03493	1

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Supplementary 6 of:

Banik, R., Rahman, M., Rahman, K., Islam, M., & Enayetul Babar, S. (2016). Comparison of molecular signatures in large-scale protein interaction networks in normal and cancer conditions of brain, cervix, lung, ovary and prostate. *Biomedical Research and Therapy*, 3(4), 605-615.