

## S5a1. Graph related parameters for normal condition of brain

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
SRC	9.213609	7702.281	0	1.001847	0
EGFR	9.792741	4559.888	0	1.001858	0
HCK	7.503611	2081.848	0	1.001858	0.000003
CTNNB1	3.95829	4703.975	0	1.001876	0
NOTCH1	8.995164	926.9855	0	1.00184	0
CDK2	5.949736	511.8734	0	1.002008	0.000002
SMAD4	8.53567	892.5785	0	1.002037	0.000003
TAB1	8.163297	167.5574	0	1.001884	0.000127
PSMD13	5.095257	219.3245	0	1.002303	0.000135
PSMC2	3.916307	210.4267	0	1.002099	0
RPL8	8.751236	38.13046	0	1.002784	0
REPS2	7.123124	48.4647	0	1.00418	0.000011
SNX2	2.005463	12.96123	0	1.002117	0
HIVEP3	3.339098	9.325582	0	1.001845	0.002157
PDCD2	2.000194	10.14259	0	1.00312	0.002334

## S5a2. Graph related parameters for cancer condition of brain

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
EGFR	3.395874	8767.653	0	1	0
CTNNB1	6.099741	9113.272	0	1	0
CDK2	7.877107	1092.544	0	1	0
FZR1	6.402906	471.4482	0	1	0
PIK3CB	5.219742	871.2522	0	1	0
RELA	7.387829	392.776	0	1	0
TAB1	3.328851	179.1229	0	1	0
PSMC3	3.48865	206.0788	0	1	0
RPL8	6.055543	30.50014	0	1	0
PDCD2	3.86089	9.685057	0	1	0

s17

Supplementary 5 of:

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S5b1. Graph related parameters for normal condition of cervix

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
TP53	3.961842	16.85088	1.5	1	0
GJA1	3.99042	10.28678	1.5	1	0
FYN	2	7.757983	0	1	0
SNIP1	2	2.724359	0	1	0
RAN	2	3.129593	0	1	0
SNX2	0	0	0	0	0
TRAF5	0	0	0	0	0

S5b2. Graph related parameters for cancer condition of cervix

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
EGFR	5.480268	2766.083	0	1	0
BRCA1	5.829197	1764.46	0	1	0
CUL1	5.191232	534.1521	0	1	0
SMAD2	3.021646	1970.709	0	1	0
PSMD12	2.640409	151.3586	0	1	0
RPL8	5.488821	29.44186	0	1	0
TCF3	3.918065	41.31501	0	1	0
ID1	2.229295	24.71864	0	1	0

## S5c1. Graph related parameters for normal condition of lung

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
SRC	4.471075	585.1563	0.5	1	0
NOTCH3	5.842419	428.461	0.5	1	0
PSMC2	1.140672	220.1234	0	1	0
RPL8	3.951087	33.30991	0	1	0
KRT18	2.00146	24.02122	0.5	1	0
SNRPD2	2.019462	22.70431	0	1	0
SNX2	2.023993	13.83404	0.5	1	0

## S5c2. Graph related parameters for cancer condition of lung

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
EGFR	7.487097	2522.383	0.111111	1.011947	0.047639
CDK2	7.835509	1771.804	0.111111	1.018233	0.031506
CUL1	4.887037	820.2649	0.111111	1.042593	0.031186
CASP8	4.453131	444.748	0.111111	1.010774	0.002401
TAB2	6.813515	115.9547	0.111111	1.008908	0.000376
NOTCH2	3.409625	446.7042	0.111111	1.008645	0.00079
PSMD12	5.751896	204.752	0.111111	1.997144	0.087536
PSMC2	4.27511	197.9663	0.111111	1.999757	0.081064
RPL8	6.22514	38.76805	0.111111	1.01673	0.000042
PDCD2	2.005019	10.66472	0	1.013874	0

s19

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HIVEP3	2.39945	9.681856	0	1.010744	0.000001
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## S5d1. Graph related parameters for normal condition of ovary

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
TP53	3.96555	19.70325	0.333333	1	0
RPS13	3.836219	13.90966	0.333333	1	0
TRAF2	1.823869	13.69814	0	1	0
EIF4E	3.655879	6.57863	0.333333	1	0
PPP2CA	1.000002	4.153216	0	1	0

## S5d2. Graph related parameters for cancer condition of ovary

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
CREBBP	6.302276	5563.747	0	1	0
CDK2	6.311371	1658.808	0	1	0
EGFR	5.809137	4287.889	0	1	0
CUL1	4.288012	1007.927	0	1	0
RIPK1	6.23728	503.9615	0	1	0
CASP8	6.369373	335.8123	0	1	0
TAB2	3.36671	55.74585	0	1	0
PSMC2	3.14855	191.1142	0	1	0
RPS13	4.936947	31.22556	0	1	0
KRT18	6.175185	16.90867	0	1	0

s20

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PDCD2	2.023538	12.02743	0	1	0
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## S5e1. Graph related parameters for normal condition of prostate

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
CREBBP	4.470964	931.0966	0	1	0
CDK2	4.461779	642.9947	0	1	0
SKP1	3.74366	523.2153	0	1	0
PSMC2	3.473958	119.132	0	1	0
RPL8	3.507023	43.38372	0	1	0
POLR1D	3.610169	35.61491	0	1	0

## S5e2. Graph related parameters for cancer condition of prostate

NodeID	Effective degree	ModuLand community centrality	Betweenness centrality	ModuLand overlap	ModuLandbridgeness
TP53	7.419523	3441.729	0.142857	1.7616	0.067719
CDK2	4.965051	2268.605	0.142857	1.493509	0.024192
CUL1	7.532199	910.9334	0.142857	1.721594	0.01889
SRC	3.814407	2627.942	0.142857	1.783845	0.102874
AKT1	5.309562	2307.529	0.142857	1.776332	0.050466
PSMC2	2.361267	186.0557	0.142857	1.733138	0.001033
NOTCH3	5.993011	203.538	0.142857	1.922776	0.001202
RPL8	2.898129	27.55976	0	1.998216	0.000176
STAP1	2.011198	6.332407	0	1.999988	0.000004