

ANNEXURE-4

Annexure 4: Seed identification from clusters of NNK

Cluster	Score	Nodes	Edges	Seeds	Connectors	Node IDs
1	29.862	30	433	19	11	PLK1, CASC5, BUB3, CDCA8, STAG1, BUB1B, CCNB2, CCNB1, BUB1, ESPL1, CENPF, KIF2C, CDCA5, MAD2L1, CDK1, PDS5B, WAPAL, APITD1, SKA2, RAD21, SMC1A, KNTC1, CDC20, CENPA, CENPE, SMC3, STAG2, MAD1L1, AURKB, INCENP
2	19.3	41	386	22	19	CDKN1A, FBXO31, CDC6, CDK2, RNF144B, KLHL42, CCNA1, DBF4, CDC7, MCM4, POLA2, PRIM2, CDC34, POLA1, SKP2, ORC3, MCM2, MCM5, ORC2, ORC6, MCM6, MCM3, ORC4, CHEK1, AURKA, PTTG1, CDC45, PRIM1, MCM10, CDT1, ORC1, HUWE1, ORC5, RBBP6, NEK2, MCM7, ANAPC16, ANAPC13, CDKN1B, RPA1, CCNA2
3	14.652	47	337	9	38	ERCC2, E2F1, FBXO5, CDC23, ANAPC5, FANCE, FANCC, FANCG, BLM, ANAPC4, ANAPC1, BRCA1, RB1, FANCF, FANCL, C17orf70, CCNE1, C19orf40, FANCD2, FANCI, ANAPC10, FANCM, FANCB, GTF2H5, CCND2, FZR1, CDC26, RMI1, TOP3A, FANCA, GTF2H4, ANAPC11, CDC27, ANAPC2, GTF2H2, ANAPC7, GTF2H1, STRA13, CDC16, CCNH, C1orf86, ERCC3, ATM, CCND3, BARD1, GTF2H3, CCND1
4	10.762	22	113	13	9	FAS, RIPK1, CASP8, IKBKG, BID, HDAC1, TNFRSF10B, TRADD, TP53, TFDP1, TRAF2, TNFSF10, FADD, FASLG, TNFRSF10A, CASP10, E2F2, TOPBP1, IKBKB, CDK4, CCNE2, CDK6
5	7	7	21	7	0	BBC3, BCL2A1, BCL2L11, BCL2, MCL1, PMAIP1, BCL2L1
6	5	5	10	2	3	IGFBP1, LGALS1, IGFBP4, QSOX1, IGFBP5
7	4.333	7	13	5	2	NCKAP1, WASF2, CYFIP2, PRKCA, PTK2, PRKCB, BCAR1
8	4	4	6	4	0	H1F0, HMGA2, ASF1A, HIRA
9	4	4	6	1	3	KIAA1429, WTAP, CBLL1, ZC3H13
10	3.333	4	5	3	1	EAF2, GTF2H2C, CDK7, MNAT1
11	3.333	4	5	4	0	OAS1, IFI27, OAS2, IFIT3

12	3.333	7	10	5	2	STAG3, CEP70, FKBP6, SMC1B, NEDD1, HSP90AA1, TPX2
13	3	3	3	3	0	MAP3K5, TRAF1, BIRC3
14	3	3	3	3	0	PSMC3IP, MND1, DMC1
15	3	3	3	3	0	OIP5, MIS18A, NPM1
16	3	3	3	3	0	TNFRSF11A, TNFRSF12A, TNFSF11
17	3	3	3	3	0	RHOB,RHOC, CDC25C
18	3	3	3	3	0	SDCBP, PYCARD, CPPED1
19	3	3	3	3	0	FGF2, FGFR3, FGF9

Pictorial representation of clusters generated by MCODE for NNK

