

Supplementary Table 3. Complement components-protein interaction network

Seeds in the sub-network gene symbol	Top ranking neighbors gene symbol	Random walk probability
AIH		
C1QC	TP53	0.00513
TFAP2A	MTNR1A	0.00435
APOA1	A2M	0.00419
FKBP2	COLEC10	0.0041
UBQLN2	CYB5D2	0.00406
FN1	ZNF224	0.00405
C1QA	TRMT10B	0.00403
C1QB	UBQLN1	0.00279
PTX3	BAG6	0.00239
	EED	0.00213
	RELA	0.00208
	VHL	0.00186
	COLGALT2	0.00178
	P3H4	0.00173
	PPP1CA	0.0017
	C1S	0.00167
	SGTA	0.00166
	MYOC	0.00166
	C1R	0.00165
	COL4A2	0.00165
PSC		
CFHR5	CD59	0.009366178
C8G	HNRNPL	0.009020816
HNF4A	CLK1	0.008605361
SH3GL1	LMNA	0.004989479
SERTAD3	CREB3	0.004933869
ONECUT1	KAT2B	0.003716348
EDEM2	S1PR2	0.003683133
C8A	TMEM2	0.003671316
UBQLN2	RNF4	0.003058001
SH3GL2	CREBBP	0.002713774
SEC24B	NR0B2	0.002358061
SLC4A1	FOXA1	0.002216461
C3	NR3C1	0.002194023
TMPRSS2	FOXA2	0.002143783
CREB3L1	CANX	0.002118468
	SERPINB13	0.002113891
	CLU	0.002077755
	RPA2	0.002055623
	APOA1	0.001867069

Supplementary Table 3. Continued

Seeds in the sub-network gene symbol	Top ranking neighbors gene symbol	Random walk probability
	KPNA2	0.001791935
	USHBP1	0.001765908
	NDN	0.001748963
	SPG11	0.001738691
	RPC11	0.001724942
	BRL1	0.001720769
	FBXO44	0.00171808
	YJR011C	0.001717959
	CDKN2A	0.001591041
	SYK	0.001590993
	ANK1	0.001579083
	HBA1	0.001566099
	SLC4A1AP	0.001542872
	EPB42	0.001541786
	CA2	0.001539025
	CA4	0.001538444
	NTRK1	0.001027814
	CFTR	0.001027814
	HNRNPA1	0.001027814
	MED23	0.001027814
	EGFR	0.001027814
MASLD		
C8G	CD59	0.0117
HNF4A	TMEM2	0.00468
SH3GL1	RNF4	0.00362
SERTAD3	CREBBP	0.00337
ONECUT1	NR0B2	0.00294
EDEM2	NR3C1	0.00273
C8A	FOXA1	0.00272
UBQLN2	KAT2B	0.0027
SH3GL2	FOXA2	0.00268
SEC24B	SERPINB13	0.00264
	RPA2	0.00251
	APOA1	0.00224
	KPNA2	0.00223
	USHBP1	0.00221
	NDN	0.00218
	SPG11	0.00217
	RPC11	0.00215
	BRL1	0.00215

Supplementary Table 3. Continued

Seeds in the sub-network gene symbol	Top ranking neighbors gene symbol	Random walk probability
	FBXO44	0.00215
	YJR011C	0.00215
ALC		
CFHR1	TP53	0.003460761
CFHR2	BAG6	0.002790319
APP	SMAD3	0.002707735
APOA1	MTNR1A	0.002619187
HNF4A	A2M	0.002528785
PRDX4	COLEC10	0.002463358
CFH	CYB5D2	0.002438952
LBP	ZNF224	0.002429252
C1QC	TRMT10B	0.002421967
TFAP2A	CRP	0.001947217
FKBP2	EED	0.001848671
UBQLN2	UBQLN1	0.001707612
FN1	GRB2	0.001581964
C1QA	EP300	0.001549182
C1QB	HSPB1	0.001514672
PTX3	ALB	0.001456759
	PSMA3	0.001418048
	TRA2A	0.00137808
	FTH1	0.001364247
	C4BPA	0.001356195
	TSC22D4	0.001350278
	CBFA2T2	0.001343433
	CD14	0.001339499
	SETD1A	0.001339093
	PYCRL	0.001329657
	BST1	0.001318276
	RELA	0.001315963
	CFHR3	0.001295153
	VDR	0.001259537
	UBC	0.001216289
	C3	0.001200014
	VHL	0.001154288
	NTRK1	0.001099833
	COLGALT2	0.001070666
	ZBTB16	0.001068015
	PPP1CA	0.00105498
	P3H4	0.001041177

Supplementary Table 3. Continued

Seeds in the sub-network gene symbol	Top ranking neighbors gene symbol	Random walk probability
	TRIM25	0.001039935
	PPP1CC	0.001021456
	SGTA	0.001011264
	COL4A2	0.000998856
	YTHDC1	0.000997597
	MYOC	0.000996137
	C1S	0.000994866
	MUT	0.000992692
	RAC1	0.000991364
	SELL	0.000991277
	C1R	0.000989906
	VPS16	0.00098715
	HIP1	0.000981678
	KLHL18	0.000977693
	ELAVL1	0.000971913
	GPM1	0.000969739
	GK	0.00096941
	HEM12	0.000969366
	NCL1	0.000969366
	METAP2	0.000966122
	HSPB2	0.00096467
	ATP12A	0.000959858
	DMWD	0.000959536
HCC		
C1S	PRDX4	0.005798884
CFHR2	LBP	0.005370473
C7	CREB3	0.00457833
C1QA	CD55	0.004193123
C1R	C4B	0.00415798
C2	SFPQ	0.003103718
FN1	NONO	0.003094674
HNF4A	PARK7	0.003075244
ONECUT1	MTA1	0.003048583
PITX3	EP300	0.00266173
HNF1A	CREBBP	0.00212735
CCDC6	RNF4	0.002104408
HDAC9	LMNA	0.002092883
PPP4R1	CPB2	0.001953115
VKORC1	BAG6	0.001934349
C5	KAT2B	0.001896716

Supplementary Table 3. Continued

Seeds in the sub-network gene symbol	Top ranking neighbors gene symbol	Random walk probability
CLU	NR3C1	0.001823952
NTRK1	CREB3L1	0.001783544
PLG	BIRC2	0.001783089
APP	PCK1	0.001773056
CFHR1	LRRC15	0.001766936
	C1RL	0.00172906
	NR0B2	0.001713019
	C8B	0.001641957
	C3	0.00163728
	FOXA1	0.001594239
	C6	0.001586741
	C5AR1	0.001560768
	FOXA2	0.00153823
	SERPINB13	0.001510608
	MCM2	0.001437209
	TRIM25	0.001384082
	ENO1	0.001290875
	APOA1	0.00127713
	XPO1	0.001168999
	PPP1CA	0.001085684
	SRPK2	0.001017093
	F2	0.001010831
	ALB	9.81E-04
	EGLN3	9.42E-04
	MASP1	9.18E-04
	PLAT	9.18E-04
	UBQLN1	9.00E-04
	NR4A1	8.85E-04
	CBWD3	8.74E-04
	SMAD3	8.63E-04
	PPP1CC	8.46E-04
	ELAVL1	8.32E-04
	MASP2	8.31E-04
	SGTA	8.24E-04
	ELANE	8.22E-04
	RAC1	8.21E-04
	SLC30A2	8.20E-04
	GRN	8.12E-04
	SELP	7.92E-04
	SELE	7.82E-04

Supplementary Table 3. Continued

Seeds in the sub-network gene symbol	Top ranking neighbors gene symbol	Random walk probability
	ARFGAP2	7.81E-04
	PIAS2	7.77E-04
	CRP	7.77E-04
	CISH	7.77E-04