

Table S5 Common entities observed between different constructed cancer networks. Zinc finger E-box binding homeobox 2 (ZEB2), DEAD (Asp-Glu-Ala-Asp) box helicase 5 (DDX5) and leukemia inhibitory factor receptor alpha (LIFR) and also mir-21, mir-30a, mir-141 and mir-200c were shared between both constructed networks of common altered mRNAs and miRNAs (from 11 cancers: breast, colorectal, endometrial, gastric, liver, lung, ovarian, pancreatic, prostate and testicular cancers as well as glioblastoma).

Common entities between network of total genes and network of total microRNAs			Common entities between network of genes on predicted cancer risk loci and network of total microRNAs			Common entities between network of genes on predicted cancer risk loci and network of microRNAs on predicted cancer risk loci		Common entities between network of genes and network of microRNAs on predicted cancer risk loci	
ADRB2	E2F1	MIRN29B1	ADRB2	ELA2	MIRN30A	ADRB2		ADRB2	
APOL6	EGF	MIRN29C	APOL6	EPO	MIRN9-1	ATXN1		ATXN1	
apoptosis	ELA2	MIRN30A	apoptosis	FADD	MYC	cell differentiation		cell differentiation	
BCL2L1	EPO	MIRN9-1	BCL2L1	FAS	Neoplasms	cell growth		cell growth	
BID	FADD	MYC	BID	FASLG	NF-kB	cell proliferation		cell proliferation	
CASP1	FAS	Neoplasms	CASP1	FBN1	OPA1	CRKL		CRKL	
CASP3	FASLG	NF-kB	CASP3	FN1	PYCARD	FN1		DDX5	
CASP6	FN1	NGF	CASP6	GZMB	RIPK2	MIRN141		FN1	
CASP7	GZMB	OPA1	CASP7	HOXA5	TGFB1	MIRN200C		MAPK14	
CASP8	HOXA5	PYCARD	CASP8	IL18	TNF	MIRN21		MIRN141	
CASP9	IL18	RB1	CASP9	LIFR	TNFRSF10B	MIRN30A		MIRN200C	
CCR5	LIFR	RIPK2	CCR5	MIRN141	TNFRSF1A	Neoplasms		MIRN21	
cell cycle	MAPK14	SERPINB1	CDKN1A (P21)	MIRN148A	TNFSF10	NF-kB		MIRN30A	
cell differentiation	MIRN141	SMAD3	cell cycle	MIRN182	TP53	TGFB1		Neoplasms	
cell growth	MIRN148A	TGFB1	cell differentiation	Mir200b	TRPS1	TNF		NF-kB	
cell proliferation	MIRN182	TNF	cell growth	MIRN200C	VEGFA	TRPS1		RB1	
CFLAR	MIRN200B	TNFRSF10B	cell proliferation	MIRN21	YES1	VEGFA		SMAD3	
COL1A1	MIRN200C	TNFRSF1A	CFLAR	MIRN24-1		ZEB2		TGFB1	
CTSD	MIRN21	TNFSF10	CTSD	MIRN27B				TNF	
CTSL1	MIRN24-1	TP53	CTSL1	Mir29a				TRPS1	
DDX5	MIRN27B	TRPS1	DNASE2	MIRN29B1				VEGFA	
DNASE2	Mir29a	VEGFA	EGF	MIRN29C				ZEB2	