

Sex-specific miRNA differences in liquid biopsies from subjects with solid tumors and healthy controls

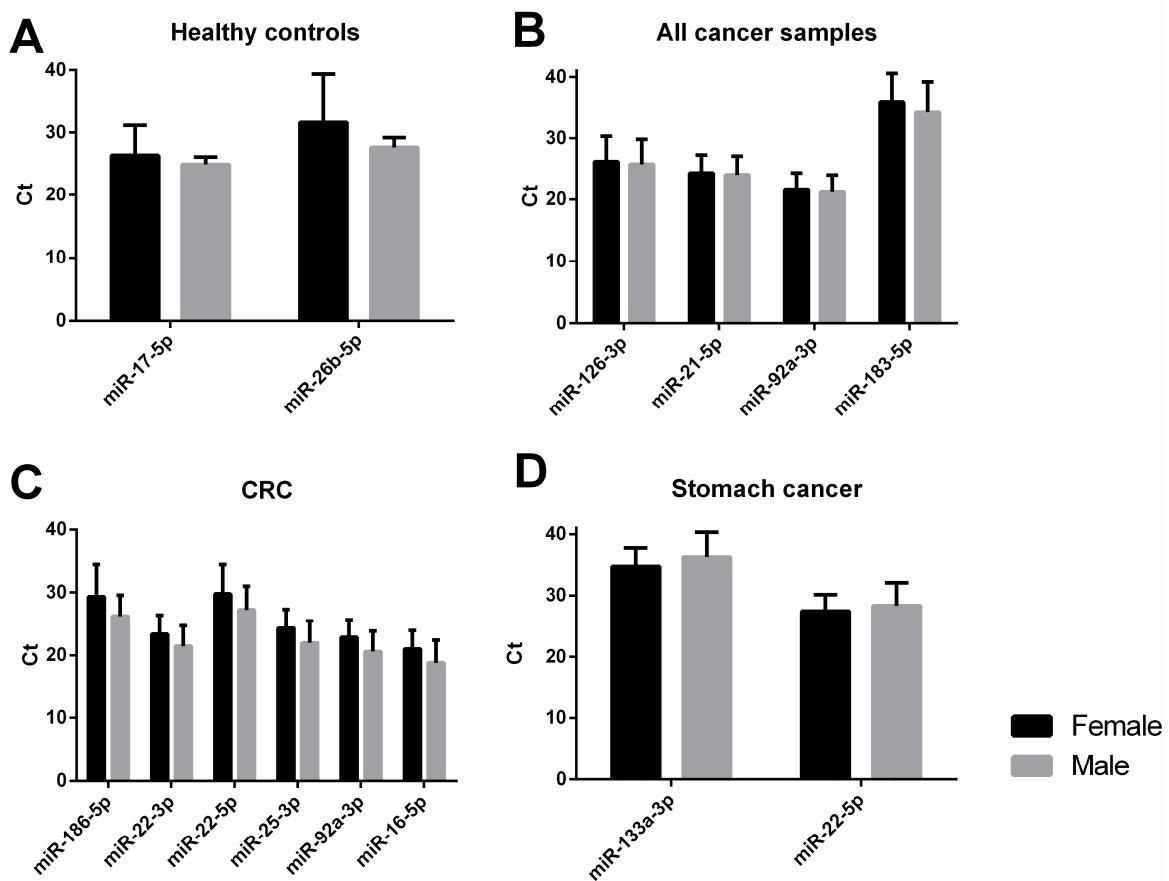
Elena Tomeva, Ulrike D. B. Krammer, Olivier J. Switzeny, Alexander G. Haslberger and Berit Hippe

Supplementary file 2: Table S1. Genes and regions analyzed for methylation status.

Gene	NCBI Reference Sequence	Region	Sequence
<i>ALKBH3</i>	NC_000011.10	43880721-43880820	ctacccggac tgaggactgc gcaccggaag tagtggcgcc gctgcgtaac gtcgagagga agtgcctgat gccgcggcct gtgattggaa gttgctggag
<i>APC</i>	NC_000005.10	112737681-112737780	ctagggctag gcaggctgtg cggttggcg gggccctgtg ccccactgca gagtgcgggt cgggaagcgg agagagaagc agctgttaa tccgctggat
<i>GATA5</i>	NC_000020.11	62475990-62476090	aagactggaa gcccgggccc ctgaggctcc gcagccccct ccgcggccccc ccggccggcc cccgccgcgc cgccccttcc ctccccgcgc cggccccc ttc
<i>GSTP1</i>	NC_000011.10	67583636-67583735	ctccggggac tccagggcgc ccctctgccc ccgacgcccgg gggtgcagcg gccgcccggg ctggggccgg cggagatccg cgggaccctc cagaagagcg
<i>MDR1</i>	NC_000007.14	87600483-87600384	ggcagatgtt ggggtctggc agcgcgttct ggactttgcc cgccgcggcgt gcgattctcc ctccgggttc cagtcgcgc ggacgatgct tcctcccacc
<i>MGMT</i>	NC_000010.11	129467232-129467305	cgcgcctaga acgcttgcc tccgcacgcc cgcaggctt cgcggcgcgc accgttgcgc acttggtagt tgtc
<i>MLH1</i>	NC_000003.12	36992887-36993005	tattcgtgct cagcctcgta gtggcgcctg acgtgcgtt cgcgggttagc tacgtgagg cggcacaga ccaggcacag ggccccatcg ccctccggag gctccaccac caaataacg
<i>RASSF1A</i>	NC_000003.12	50340772 - 50340673	gcccgtgtggg gttcacgcgc gtgcggccgc cgatgcgc cgcgttggca cgctccagcc ggggtgcggcc ctcccagcg cgcccagcgg gtgccagctc
<i>SEPTIN9</i>	NC_000017.11	77373482-77373543	ctgcccacca gccatcatgt cggacccgc ggtcaacgc cagctggatg ggtatcatttgc gg
<i>SFN</i>	NC_000001.11	26863259-26863372	ccgaacgcta tgaggacatg gcagccttca taaaaggcgc cgtggagaag ggcgaggagc tctctcgca agagcggaaac ctgctctcag tagcctataa gaacgtggtg ggcg
<i>SHOX2</i>	NC_000003.12	158103869-158103755	cgaccctaaa cgcttaaccc acagagatca acaggtcaa gcggaatatt cgcgatcctc ggttctatt ggttgtcaa agcctttca tgcaaccagc agctcgatg tttaa
<i>VIM</i>	NC_000010.11	17229166-17229265	gcttctcgct aggtccctat tggctggcgc gctccgcggc tgggatggca gtgggagggg acccttttc ctaacggggt tataaaaaca gcccctcg

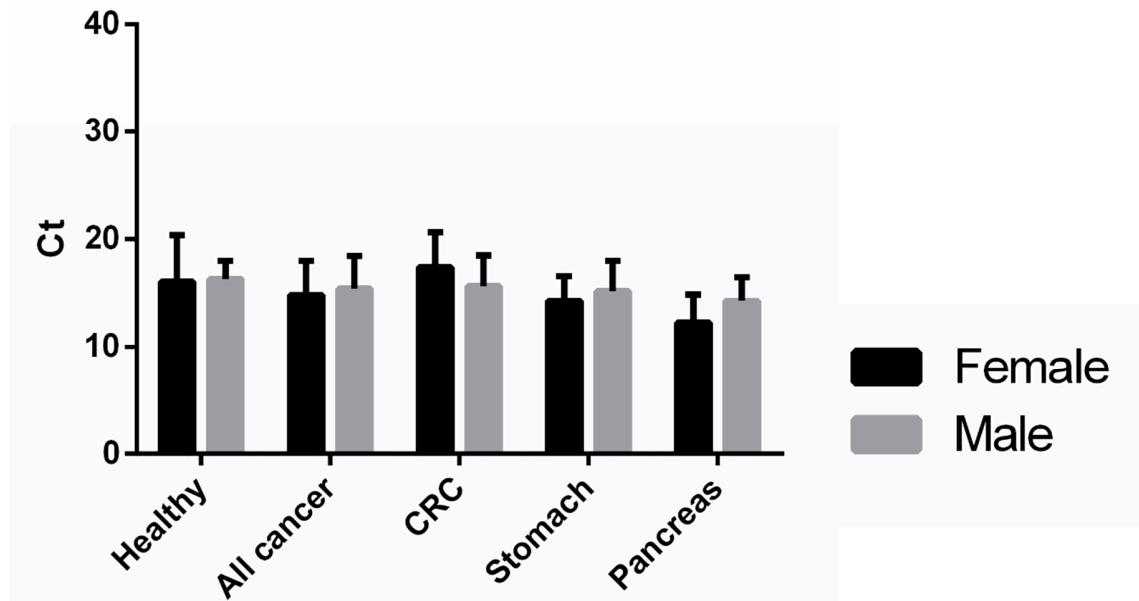
Supplementary file 2: Table S2. MiRNA targets.

cel-miR-39-3p	hsa-miR-141-3p	hsa-miR-17-5p	hsa-miR-210-3p	hsa-miR-22-5p	hsa-miR-31-5p
hsa-let-7a-5p	hsa-miR-142-5p	hsa-miR-182-5p	hsa-miR-21-5p	hsa-miR-23a-3p	hsa-miR-34a-5p
hsa-miR-101-3p	hsa-miR-143-3p	hsa-miR-183-5p	hsa-miR-218-5p	hsa-miR-25-3p	hsa-miR-375-3p
hsa-miR-106a-5p	hsa-miR-145-5p	hsa-miR-186-5p	hsa-miR-221-3p	hsa-miR-26a-5p	hsa-miR-451a
hsa-miR-1225-3p	hsa-miR-148a-3p	hsa-miR-195-5p	hsa-miR-222-3p	hsa-miR-26b-5p	hsa-miR-497-5p
hsa-miR-124-3p	hsa-miR-148b-3p	hsa-miR-203a-3p	hsa-miR-223-3p	hsa-miR-27a-3p	hsa-miR-92a-3p
hsa-miR-126-3p	hsa-miR-155-5p	hsa-miR-205-5p	hsa-miR-22-3p	hsa-miR-29c-3p	hsa-miR-9-5p
hsa-miR-133a-3p	hsa-miR-16-5p	hsa-miR-20a-5p	hsa-miR-224-5p	hsa-miR-30a-5p	hsa-miR-96-5p



Supplementary file 2: Figure S1. Abundance of miRNAs in plasma samples across the different study groups. Only the mean Ct values of differentially expressed miRNAs between female and male participants (after normalization and adjustments for covariates) are depicted in this figure. Bars represent the mean value with standard deviation (SD). **A** Healthy control group n female = 8, n male = 7 **B** All cancer samples, n female = 48, n male = 80 **C** Colorectal cancer group, n female = 14, n male = 14 **D** Stomach cancer, n female = 15, n male = 8

C. elegans miR-39-3p



Supplementary file 2: Figure S2. Abundance of *C. elegans* miR-39-3p spike-in control across the different study groups. 15 fmol of *C. elegans* miR-39-3p was added to each sample during RNA extraction. Bars represent the mean Ct value with SD.