

Supplementary Information

Table S1. List of miRNA gene polymorphisms associated with cancer.

miRNA Name	rs Number	Cancer type	Effect	Ethnicity	Study type	No. of cases/controls	Reference
hsa-mir-27a	rs11671784	Bladder cancer	Better response to chemotherapy	Chinese	Expression study (Chemo-sensitivity)	89/n.p.	Deng <i>et al.</i> , 2015 [1]
		Gastric cancer	Decreased risk	Han Chinese	Case-control study, meta-analysis	278/278	Song <i>et al.</i> , 2014 [2]
hsa-mir-146a	rs2910164	Colorectal cancer	Increased risk	Han Chinese	Case-control study	254/238	Cao <i>et al.</i> , 2014 [3]
		Breast cancer	Increased risk	Chinese	Case-control study	450/450	He <i>et al.</i> , 2015 [4]
		Breast cancer	Increased risk	Caucasian	Meta-analysis, 8 studies	4314/4485	Dai <i>et al.</i> , 2015 [5]
		Breast cancer	Decreased risk	North Indian	Case-control study	121 BC, 115 BBD/164	Bansal <i>et al.</i> , 2014 [6]
		Breast cancer	Increased risk	Chinese	Case-control study	321/290	Qi <i>et al.</i> , 2015 [7]
		Colorectal cancer	Increased risk	Greek	Case-control study	157/299	Dikaiakos <i>et al.</i> , 2015 [8]
		Esophageal cancer	Increased risk	Asian	Meta-analysis, 14 studies	6053/6527	Xie <i>et al.</i> , 2015 [9]
		Follicular thyroid carcinoma	Increased risk	European	Expression study	39 FTC, 20 FTA/n.p.	Roncati <i>et al.</i> , 2014 [10]
		Gastric cancer	Increased risk	Asian	Meta-analysis, 14 studies	6053/6527	Xie <i>et al.</i> , 2015 [9]
		Gastric cancer	Decreased risk	Asian, Caucasian	Meta-analysis, 9 studies	4468/6844	Ni <i>et al.</i> , 2015 [11]
		Gastric cancer	Decreased risk in subgroups	Asian, Caucasian	Meta-analysis, 13 studies	9044/11762	Xu <i>et al.</i> , 2015 [12]
		Gastric cancer	Increased risk	Asian	Meta-analysis, 8 studies	4308/6370	Fu <i>et al.</i> , 2014 [13]
		Gastric cancer	Increased risk	Caucasian	Meta-analysis, 7 studies	4112/5811	Xie <i>et al.</i> , 2014 [14]
		Gastric cancer	Increased risk	Chinese	Meta-analysis, 9 studies	3885/5396	Xu <i>et al.</i> , 2014 [15]
		Hepatocellular carcinoma	Increased risk	Asian	Meta-analysis, 12 studies	4171/4901	Peng <i>et al.</i> , 2014 [16]
hsa-mir-149	rs71428439	Clear cell renal cell carcinoma	Increased risk	Han Chinese	Case-control study	1000/1000	Wang <i>et al.</i> , 2014 [17]
		Breast cancer	Decreased risk	Chinese	Case-control study	450/450	He <i>et al.</i> , 2015 [4]
		Colorectal cancer	Increased risk	Asian	Meta-analysis, 4 studies	1396/1574	Du <i>et al.</i> , 2014 [18]
		Gastric cancer	Decreased risk	Asian, Caucasian	Meta-analysis, 13 studies	9044/11762	Xu <i>et al.</i> , 2015 [12]
		Hepatocellular carcinoma	Increased risk	Eastern Chinese	Association study	993/992	Wang <i>et al.</i> , 2014 [19]
		Papillary thyroid cancer	Increased risk	Han Chinese	Case-control study	838/1006	Wei <i>et al.</i> , 2014 [20]
		T-cell lymphoma	Increased survival	Han Chinese	Case-control study	220/n.p.	Li <i>et al.</i> , 2014 [21]

Table S1. *Cont.*

miRNA Name	rs Number	Cancer type	Effect	Ethnicity	Study type	No. of cases/controls	Reference
hsa-mir-196a-2	rs11614913	Breast cancer	Decreased risk	Caucasian	Meta-analysis, 10 studies	4618/5590	Dai <i>et al.</i> , 2015 [5]
		Breast cancer	Increased risk	North Indian	Case-control study	121 BC, 115 BBD/164	Bansal <i>et al.</i> , 2014 [6]
		Breast cancer	Increased risk	Chinese	Case-control study	321/290	Qi <i>et al.</i> , 2015 [7]
		Chronic lymphocytic leukemia	Increased risk	West European (Spanish)	Association study	132/391	Martin-Guerrero <i>et al.</i> , 2015 [22]
		Colorectal cancer	Increased risk	Asian, Caucasian	Meta-analysis, 15 studies	5648/6607	Xie <i>et al.</i> , 2015 [9]
		Colorectal cancer	Increased risk	Asian	Meta-analysis, 9 studies	2209/2803	Wu <i>et al.</i> , 2015 [23]
		Colorectal cancer	Increased risk	Asian	Meta-analysis, 6 studies	1754/2430	Xu <i>et al.</i> , 2015 [24]
		Esophageal squamous cell carcinoma	Decreased risk	Han Chinese	Case-control study	381/426	Qu <i>et al.</i> , 2014 [25]
		Gastric cancer	Decreased risk (CC genotype)	Asian, Caucasian	Meta-analysis, 9 studies	3992/5418	Ni <i>et al.</i> , 2015 [11]
		Gastric cancer	Increased risk	Asian, Caucasian	Meta-analysis, 13 studies	9044/11762	Xu <i>et al.</i> , 2015 [12]
		Gastric cancer	Overall survival risk	Asian	Meta-analysis, 14 studies	8057/n.p.	Xia <i>et al.</i> , 2014 [26]
		Hepatocellular carcinoma	Increased risk	Asian	Case-control study	314/407	Qi <i>et al.</i> , 2014 [27]
		Lung cancer	Increased risk	East Asian	Meta-analysis, 7 studies	3705/4099	Fan and Wu, 2014 [28]
		Non-Hodgkin lymphoma	Increased risk	Han Chinese	Case-control study	318/320	Li <i>et al.</i> , 2014 [29]
		Non-small cell lung carcinoma	Overall survival risk	Asian	Meta-analysis, 14 studies	8057/n.p.	Xia <i>et al.</i> , 2014 [26]
hsa-mir-202	rs12355840	Breast cancer	Protective against mortality	European, Asian, African	Whole-genome sequencing	69/n.p.	Rawlings-Goss <i>et al.</i> , 2014 [30]
		Follicular lymphoma	Increased risk	Caucasian, African American, Other	Case-control study	455/527	Hoffman <i>et al.</i> , 2013 [31]

Table S1. *Cont.*

miRNA Name	rs Number	Cancer type	Effect	Ethnicity	Study type	No. of cases/controls	Reference
hsa-mir-423	rs6505162	Bladder cancer	Increased risk	Caucasian	Association study	3527/5119	Hu <i>et al.</i> , 2014 [32]
		Breast cancer	Increased risk	Chinese	Genetic analysis, preliminary function study	114/114	Zhao <i>et al.</i> , 2015 [33]
		Breast cancer	Increased risk	Jewish Israeli	Preliminary study	140 BC, 63 OC/160 (BRCA1), 58 BC, 19 OC/48 (BRCA2)	Kontorovich <i>et al.</i> , 2010 [34]
		Colorectal cancer	Unfavorable overall and recurrence-free survival	Han Chinese	Association Study (Survival analysis)	408/n.p.	Xing <i>et al.</i> , 2012 [35]
		Esophageal cancer	Decreased risk	Caucasian	Case-control study	346/346	Ye <i>et al.</i> , 2008 [36]
		Esophageal squamous cell carcinoma	Increased risk	Chinese	Case-control study	629/686	Yin <i>et al.</i> , 2013 [37]
		Esophageal squamous cell carcinoma	Increased risk	Black, mixed ancestry (South Africa)	Case-control study	565/1000	Wang <i>et al.</i> , 2013 [38]
		Ovarian cancer	Increased risk	Jewish Israeli	Preliminary study	140 BC, 63 OC/160 (BRCA1), 58 BC, 19 OC/48 (BRCA2)	Kontorovich <i>et al.</i> , 2010 [34]
hsa-mir-499a	rs3746444	B-cell acute lymphoblastic leukemia	Increased risk	European Caucasian	Association study	213/387	Gutierrez-Camino <i>et al.</i> , 2014 [39]
		Breast cancer	Increased risk	Chinese	Case-control study	450/450	He <i>et al.</i> , 2015 [4]
		Breast cancer	Increased risk	Caucasian	Meta-analysis, 5 studies	2924/3563	Dai <i>et al.</i> , 2015 [5]
		Esophageal cancer	Increased risk	Asian (Iranian and Chinese)	Meta-analysis, 31 studies	12799/14507	Chen <i>et al.</i> , 2014 [40]
		Hepatocellular carcinoma	Increased risk	Asian	Case-control study	314/407	Qi <i>et al.</i> , 2014 [27]
		Hepatocellular carcinoma	Increased risk	East Chinese	Case-control study	984/991	Ma <i>et al.</i> , 2014 [41]
		Oral squamous cell carcinoma	Decreased risk	Chinese	2 case-control studies	155 OSCC, 169 OL, 80 OSF/204; 512 OSCC/668	Hou <i>et al.</i> , 2015 [42]
hsa-mir-603	rs11014002	Colorectal cancer	Increased risk	Chinese (Xiaoshan County)	Case-control study	102/204	Wang <i>et al.</i> , 2014 [43]

Table S1. *Cont.*

miRNA Name	rs Number	Cancer type	Effect	Ethnicity	Study type	No. of cases/controls	Reference
hsa-mir-605	rs2043556	Bladder cancer	Increased risk	Caucasian	Association study	3527/5119	Hu <i>et al.</i> , 2014 [32]
		Breast cancer	Decreased risk	Asian	Meta-analysis, 12 studies	7170/8783	Chen <i>et al.</i> , 2014 [44]
		Prostate cancer	Increased risk	320 Asian, 526 Caucasian	Association study	846/n.p.	Huang <i>et al.</i> , 2014 [45]
hsa-mir-608	rs4919510	Breast cancer	Increased risk	Chinese	2 case-control studies	1138/1434, 294/500	Huang <i>et al.</i> , 2012 [46]
		Colorectal cancer	Favorable overall and recurrence-free survival	Han Chinese	Association study (Survival analysis)	408/n.p.	Xing <i>et al.</i> , 2012 [35]
		Colorectal cancer	Decreased risk of recurrence	Caucasian (Czech Republic)	Association study (Survival analysis)	1083/n.p.	Pardini <i>et al.</i> , 2015 [47]
		Colorectal cancer	Increased risk of recurrence and death	Caucasian, African American, Other	Association study	1097/n.p.	Lin <i>et al.</i> , 2012 [48]
		Colorectal cancer	Increased/ decreased death risk	Caucasian/African-Americans	Case-control study	245/446	Ryan <i>et al.</i> , 2012 [49]
		Nasopharyngeal carcinoma	Increased risk	Chinese	Case-control study	906/1072	Qiu <i>et al.</i> , 2015 [50]
hsa-mir-612	rs12803915	Papillary thyroid cancer	Increased risk	Han Chinese	Association study	828 PTC, 488 BN/1038	Wei <i>et al.</i> , 2014 [51]
		B-cell acute lymphoblastic leukemia	Increased risk	European Caucasian	Association study	213/387	Gutierrez-Camino <i>et al.</i> , 2014 [39]
		Follicular lymphoma	Increased risk	Caucasian, African-American, other	Case-control study	455/527	Fu <i>et al.</i> , 2014 [52]
hsa-mir-646	rs6513497	Hepatocellular carcinoma	Decreased risk	Chinese	Case-control study	997/993	Wang <i>et al.</i> , 2014 [53]
hsa-mir-933	rs79402775	Papillary thyroid cancer	Increased risk	Han Chinese	Association study	828 PTC, 488 BN/1038	Wei <i>et al.</i> , 2014 [51]
hsa-mir-1206	rs2114358	Chronic lymphocytic leukemia	Decreased risk	West European (Spanish)	Association study	132/391	Martin-Guerrero <i>et al.</i> , 2015 [22]
hsa-mir-1307	rs7911488	Colorectal cancer	Increased risk	Chinese (Jiangsu province)	Case-control study	1026/1026	Tang <i>et al.</i> , 2015 [54]
hsa-mir-3144	rs67106263	Papillary thyroid cancer	Increased risk	Han Chinese	Association study	828 PTC, 488 BN/1038	Wei <i>et al.</i> , 2014 [51]
hsa-mir-5197	rs2042253	Non-small cell lung cancer	Decreased risk	Caucasian	Association study	452 early-, 526 late-stage cases/0	Zhao <i>et al.</i> , 2014 [55]

BC—Breast cancer, BBD—Benign breast disease, FTC—Follicular thyroid cancer, FTA—Follicular thyroid adenoma, OL—Oral leukoplakia, OSF—Oral submucous fibrosis, PTC—Papillary thyroid cancer, OC—Ovarian cancer, BN—Benign thyroid tumor, n.p.—data not provided.

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