

Association of *GEMIN4* gene polymorphism and the risk of cancer: a meta-analysis

Table.S1 Details of excluded article

First author	Title	Journal name	Year	Volume	Issue	Page	Data base	Excluded reason
Bruzgielewicz, Antoni	EVALUATION OF POLYMORPHISMS IN MICRORNA BIOSYNTHESIS GENES AND RISK OF LARYNGEAL CANCER IN THE POLISH POPULATION	POLISH JOURNAL OF PATHOLOGY	2016	67	3	283-290	Web of SCI	not <i>GEMIN4</i> gene polymorphism
Yilmaz, Senay Gorucu	SNP Variation in MicroRNA Biogenesis Pathway Genes as a New Innovation Strategy for Alzheimer Disease Diagnostics: A Study of 10 Candidate Genes in an Understudied Population From the Eastern Mediterranean	ALZHEIMER DISEASE & ASSOCIATED DISORDERS	2016	30	3	203-209	Web of SCI	Other disease study
Li, Rong	MiRNA-Related Genetic Variations Associated with Radiotherapy-Induced Toxicities in Patients with Locally Advanced Non-Small Cell Lung Cancer	PLOS ONE	2016	11	3	e0150467	Web of SCI	Other disease study
zhu, Wenbo	Genetic variants in the MicroRNA biosynthetic pathway Gemin3 and Gemin4 are associated with a risk of cancer: a meta-analysis	PEERJ	2016	4		e1724	Web of SCI	Review
Wan, Yang	Transcriptome analysis reveals a ribosome constituents disorder involved in the RPL5 downregulated zebrafish model of Diamond-Blackfan anemia	BMC MEDICAL GENOMICS	2016	9		13	Web of SCI	not case-control study
Colicino, Elena	Long-term exposure to black carbon, cognition and single nucleotide polymorphisms in microRNA processing genes in older men	ENVIRONMENT INTERNATIONAL	2016	88		86-93	Web of SCI	Other disease study
Melnik, Bodo C	Milk: an epigenetic amplifier of FTO-mediated transcription? Implications for Western diseases	JOURNAL OF TRANSLATIONAL MEDICINE	2015	13		385	Web of SCI	Review
Sung, Hyuna	Common genetic variants in epigenetic machinery genes and risk of upper gastrointestinal cancers	INTERNATIONAL JOURNAL OF EPIDEMIOLOGY	2015	44	4	1341-1352	Web of SCI	not <i>GEMIN4</i> gene polymorphism
Wu, Shuangshuang	Genetic variations in DROSHA and DICER and survival of advanced non-small cell lung cancer: a two-stage study in Chinese population	GENES & GENOMICS	2015	37	7	571-578	Web of SCI	not <i>GEMIN4</i> gene polymorphism
Gao, Yuhuan	Single nucleotide polymorphisms of microRNA processing genes and outcome of non-Hodgkin's lymphoma	ONCOTARGETS AND THERAPY	2015	8		1735-1741	Web of SCI	lack of healthy control
Shang, Mengqiao	Association between SNPs in miRNA-machinery genes and chronic hepatitis B in the Chinese Han population	INFECTION GENETICS AND EVOLUTION	2014	28		113-117	Web of SCI	Other disease study
Yang, Pei-Wen	Association of miRNA-related Genetic Polymorphisms and Prognosis in Patients with Esophageal Squamous Cell Carcinoma	ANNALS OF SURGICAL ONCOLOGY	2014	21	4	S601-S609	Web of SCI	lack of healthy control
De Ruyck, Kim	A let-7 microRNA polymorphism in the KRAS 3'-UTR is prognostic in oropharyngeal cancer	CANCER EPIDEMIOLOGY	2014	38	5	591-598	Web of SCI	not case-control study
Hogg, Daniel R	Human genetic variation and its effect on miRNA biogenesis, activity and function	BIOCHEMICAL SOCIETY TRANSACTIONS	2014	42	4	1184-1189	Web of SCI	Review
Melo, Sonia A.	Disruption of microRNA nuclear transport in human cancer	SEMINARS IN CANCER BIOLOGY	2014	27		46-51	Web of SCI	Review
Cao, Ji-Xiang	E2F1-regulated DROSHA promotes miR-630 biosynthesis in cisplatin-exposed cancer cells	BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS	2014	450	1	470-475	Web of SCI	not case-control study
Sperber, Henrik	MiRNA sensitivity to Drosha levels correlates with pre-miRNA secondary structure	RNA-A PUBLICATION OF THE RNA SOCIETY	2014	20	5	621-631	Web of SCI	not case-control study
Liu, Shuang	Single Nucleotide Polymorphisms of MicroRNA Processing Machinery Genes and Outcome of Hepatocellular Carcinoma	PLOS ONE	2014	9	3	e92791	Web of SCI	lack of healthy control
Weng, Yuxiong	Common genetic variants in the microRNA biogenesis pathway are associated with malignant peripheral nerve sheath tumor risk in a Chinese population	CANCER EPIDEMIOLOGY	2013	37	6	913-916	Web of SCI	Retracted article
Zhou, Yi	Evaluation of Six SNPs of MicroRNA Machinery Genes and Risk of Schizophrenia	JOURNAL OF MOLECULAR NEUROSCIENCE	2013	49	3	594-599	Web of SCI	Other disease study
Fan, Yanbo	Kruppel-Like Factor-11, a Transcription Factor Involved in Diabetes Mellitus, Suppresses Endothelial Cell Activation via the Nuclear Factor-kappa B Signaling Pathway	ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY	2012	32	12	2981	Web of SCI	not case-control study

He, Yong	Genetic Variations in MicroRNA Processing Genes Are Associated with Susceptibility in Depression	DNA AND CELL BIOLOGY	2012	31	9	1499-1506	Web of SCI	Other disease study
Sung, Hyuna	Common genetic polymorphisms of microRNA biogenesis pathway genes and breast cancer survival	BMC CANCER	2012	12		195	Web of SCI	lack of healthy control
Kim, Hwa-Ryeon	A p53-inducible microRNA-34a downregulates Ras signaling by targeting IMPDH	BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS	2012	418	4	682-688	Web of SCI	not case-control study
Permeth-Wey, Jennifer	MicroRNA Processing and Binding Site Polymorphisms Are Not Replicated in the Ovarian Cancer Association Consortium	BIOMARKERS & PREVENTION	2011	20	8	1793-1797	Web of SCI	not provide sufficient data
Melo, Sonia A.	A precursor microRNA in a cancer cell nucleus Get me out of here! RNA diagnostics: real-time RT-PCR strategies and promising novel target RNAs	CELL CYCLE	2011	10	6	922-925	Web of SCI	Review
Mayer, Guenter	Genetic variations in microRNA-related genes are associated with survival and recurrence in patients with renal cell carcinoma	WILEY INTERDISCIPLINARY REVIEWS-RNA	2011	2	1	32-41	Web of SCI	Review lack of healthy control
Lin, Jie	Two variants of the human hepatocellular carcinoma-associated HCAP1 gene and their effect on the growth of the human liver cancer cell line Hep3B	CARCINOGENESIS GENES CHROMOSOMES & CANCER	2004	39	1	48-58	Web of SCI	not case-control study
Di, YJ	HCC-associated protein HCAP1, a variant of GEMIN4, interacts with zinc-finger proteins	JOURNAL OF BIOCHEMISTRY INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH	2003	133	6	713-718	Web of SCI	Other disease study
Fang, Xue	Polymorphisms in GEMIN4 and AGO1 Genes Are Associated with the Risk of Lung Cancer: A Case-Control Study in Chinese Female Non-Smokers	OF ENVIRONMENTAL RESEARCH	2016	13	10	939	Pubmed	Duplication
Mullany, Lila E	Impact of polymorphisms in microRNA biogenesis genes on colon cancer risk and microRNA expression levels: a population-based, case-control study	BMC MEDICAL GENOMICS	2016	9		21	Pubmed	Duplication
zhu, Wenbo	Genetic variants in the MicroRNA biosynthetic pathway Gemin3 and Gemin4 are associated with a risk of cancer: a meta-analysis	PEERJ	2016	4		e1724	Pubmed	Duplication
Li, Rong	MiRNA-Related Genetic Variations Associated with Radiotherapy-Induced Toxicities in Patients with Locally Advanced Non-Small Cell Lung Cancer	PLOS ONE	2016	11	3	e0150467	Pubmed	Duplication
Gao, Yuhuan	Single nucleotide polymorphisms of microRNA processing genes and outcome of non-Hodgkin's lymphoma	ONCOTARGETS AND THERAPY	2015	8		1735-1741	Pubmed	Duplication
Zhao, Yufei	Single-nucleotide polymorphisms of microRNA processing machinery genes and risk of colorectal cancer	ONCOTARGETS AND THERAPY	2015	8		421-425	Pubmed	Duplication
Qu, Yanhong	MicroRNAs related polymorphisms and genetic susceptibility to esophageal squamous cell carcinoma	MOLECULAR GENETICS AND GENOMICS	2014	289	6	1123-1130	Pubmed	Duplication
Tian X	Association of microRNA-related genes (DROSHA, DICER1 and GEMIN4) polymorphisms with T-cell lymphoma prognosis	Zhonghua Xue Ye Xue Za Zhi	2014	35	5	408-413	Pubmed	lack of healthy control
Yang, Pei-Wen	Association of miRNA-related Genetic Polymorphisms and Prognosis in Patients with Esophageal Squamous Cell Carcinoma	ANNALS OF SURGICAL ONCOLOGY	2014	21	4	S601-S609	Pubmed	Duplication
Weng, Yuxiong	Common genetic variants in the microRNA biogenesis pathway are associated with malignant peripheral nerve sheath tumor risk in a Chinese population	CANCER EPIDEMIOLOGY	2013	37	6	913-916	Pubmed	Duplication
Liu, Shuang	Single Nucleotide Polymorphisms of MicroRNA Processing Machinery Genes and Outcome of Hepatocellular Carcinoma	PLOS ONE	2014	9	3	e92791	Pubmed	Duplication
Jiang, Yue	Evaluation of genetic variants in microRNA biosynthesis genes and risk of breast cancer in Chinese women	INTERNATIONAL JOURNAL OF CANCER	2013	133	9	2216-2224	Pubmed	Duplication
Li YC	Correlation between tag single nucleotide polymorphisms of microRNA regulatory genes and the genetic susceptibility of primary liver cancer	Zhonghua Yu Fang Yi Xue Za Zhi	2012	46	6	533-537	Pubmed	not provide sufficient data
He, Yong	Genetic Variations in MicroRNA Processing Genes Are Associated with Susceptibility in Depression	DNA AND CELL BIOLOGY	2012	31	9	1499-1506	Pubmed	Duplication
Sung, Hyuna	Common genetic polymorphisms of microRNA biogenesis pathway genes and breast cancer survival	BMC CANCER	2012	12		195	Pubmed	Duplication
Liu, Jiaming	with Risk of Prostate Cancer: A Case-control Study of the Chinese Han Population	DNA AND CELL BIOLOGY	2012	31	7	1296-1302	Pubmed	Duplication

Permuth-Wey J	MicroRNA processing and binding site polymorphisms are not replicated in the Ovarian Cancer Association Consortium	Cancer Epidemiol Biomarkers Prev	2011	20	8	1793-1797	Pubmed	Duplication
Liang, Dong	Genetic Variants in MicroRNA Biosynthesis Pathways and Binding Sites Modify Ovarian Cancer Risk, Survival, and Treatment Response	CANCER RESEARCH	2010	70	23	9765-9776	Pubmed	Duplication
Lin, Jie	Genetic variations in microRNA-related genes are associated with survival and recurrence in patients with renal cell carcinoma	CARCINOGENESIS	2010	31	10	1805-1812	Pubmed	Duplication
Kim, Jong-Sik	Association of a Common AGO1 Variant With Lung Cancer Risk: A Two-Stage Case-Control Study	MOLECULAR CARCINOGENESIS	2010	49	10	913-921	Pubmed	Duplication
Ye, Yuanqing	Genetic Variations in MicroRNA-Related Genes Are Novel Susceptibility Loci for Esophageal Cancer Risk	CANCER PREVENTION RESEARCH	2008	1	6	460-469	Pubmed	Duplication
Horikawa, Ybhei	Single Nucleotide Polymorphisms of microRNA Machinery Genes Modify the Risk of Renal Cell Carcinoma	CLINICAL CANCER RESEARCH	2008	14	23	7956-7962	Pubmed	Duplication
Yang, Hushan	Evaluation of genetic variants in microRNA-related genes and risk of bladder cancer	CANCER RESEARCH	2008	68	7	2530-2537	Pubmed	Duplication
Wan, DF	Two variants of the human hepatocellular carcinoma-associated HCAP1 gene and their effect on the growth of the human liver cancer cell line Hep3B	GENES CHROMOSOMES & CANCER	2004	39	1	48-58	Pubmed	Duplication
Wang JR	Effects of two haplotypes of HCAP1 gene on cellular gene expression levels in a human hepatocarcinoma cell line Hep3B	Ai Zheng	2002	21	11	1173-1181	Pubmed	not case-control study

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TableS2.Main results of the meta-analysis of the pooled OR.

Variable	ORb (95% CI) P value				
	1 vs.2	11 vs.22	12 vs.22	(11 or 12) vs.22	11 vs.(12 or 22)
rs2740348 allele 1=G/allele 2=C	NA	NA	NA	NA	1.16(1.05-1.29)0.004
Caucasian	NA	NA	NA	NA	1.20(0.95-1.52)0.127
Asian	NA	NA	NA	NA	1.07(0.90-1.27)0.423
Mixed	NA	NA	NA	NA	1.23(1.05-1.43)0.009
rs7813 allele 1=T/allele 2=C	NA	NA	NA	NA	1.12(1.03-1.22)0.009
Caucasian	NA	NA	NA	NA	1.09(0.95-1.25)0.206
Asian	NA	NA	NA	NA	1.14(1.02-1.27)0.019
rs3744741 allele 1=C/allele 2=T	1.03(0.94-1.14)0.510	1.02(0.79-1.31)0.904	1.02(0.79-1.33)0.855	1.04(0.81-1.34)0.760	1.04(0.92-1.18)0.509
Asian	1.01(0.91-1.12)0.896	1.01(0.78-1.32)0.920	1.01(0.77-1.32)0.941	1.02(0.79-1.31)0.907	1.01(0.88-1.15)0.918

NA: Not available