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Basic Study

Reduced microRNA 375 in colorectal cancer upregulates metadherin-mediated signaling

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MicroRNA 375 suppresses MTDH-mediated signaling in color

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In conclusion, **microRNA-375** might function as a tumor-repressive gene to inhibit cell proliferation, mainly through targeting both JAK2/STAT3 and MAP3K8/ERK **signaling** pathways in **colorectal cancer**. These findings suggest **miR-375** as a promising diagnostic marker and a therapeutic drug for **colorectal cancer**.

Oncotarget | microRNA-375 inhibits colorectal cancer cells ...

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microRNA-375 (**miR-375**) was previously observed to be downregulated in **human colorectal cancer**(**CRC**) plasma and tissues, but its functions are largely unknown. Here, we investigated the impact of **miR-375** on **CRC metastasis**.

Cited by: 21 **Author:** Lingling Xu, Tao Wen, Zhe Liu, Feng Xu, L...

Publish Year: 2016

MicroRNA-375 suppresses human colorectal cancer ...

www.oncotarget.com/index.php?journal=oncotarget&page=article&op=view&path[]=9811

Jun 28, 2016 · **MicroRNA-375 suppresses human colorectal cancer metastasis** by targeting Frizzled 8

Cited by: 21 **Author:** Lingling Xu, Tao Wen, Zhe Liu, Feng Xu, L...

Publish Year: 2016

MicroRNA-375 Suppresses Extracellular Matrix Degradation ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4628565

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miR-375-3p suppresses tumorigenesis and partially reverses ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6781994

Sep 30, 2019 · Although there is also emerging evidence suggesting the specific suppressive role of **miR-375 in colorectal cancer** and its crucial function in stratifying patients to preoperative chemoradiation [24, 25], to date, there are insufficient data implicating the underlying **mechanism of miR-375** in CRC drug resistance . In particular, data that would shed light on how **miR-375** modulates drug resistance ...

Significance of Dysregulated Metadherin and MicroRNA-375 ...

https://clincancerres.aacrjournals.org/content/17/24/7539

Dec 15, 2011 · Furthermore, treatment of both cell lines with the global demethylating agent 5-aza-2′-deoxycytidine (5-aza) significantly **reduced methylation** at all CpG sites , which was associated with the subsequent **reexpression of miR-375** , clearly indicating that one mechanism for **miR-375** suppression in HNC cells is hypermethylation of the promoter or coding regions of **miR-375**.

Cited by: 92 **Author:** Angela B.Y. Hui, Jeff P. Bruce, Nehad M. Al...

Publish Year: 2011

MIR375 microRNA 375 [(human)]

https://www.ncbi.nlm.nih.gov/gene/494324

Dec 18, 2016 · **miR-375** may be involved in the **carcinogenesis of colorectal cancers** and may be a potential biomarker for **colorectal cancers**. Data show that **MiR-375 expression** was significantly **reduced**, and conversely, **metadherin** (**MTDH**) was significantly **increased** in **nasopharyngeal carcinoma** (NPC) samples.

miR-375 inhibits the invasion and metastasis of colorectal ...

https://www.spandidos-publications.com/or/36/1/487

May 24, 2016 · Our previous study found that **microRNA-375** (**miR-375**) was downregulated in **colorectal cancer** (CRC), but little is known concerning the role of **miR-375** and the related **mechanism** in CRC development. The proliferation, invasion and **migration** effects were investigated by Cell Counting Kit-8

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Reduced microRNA 375 in colorectal cancer upregulates met

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MIR375 microRNA 375 [(human)]

https://www.ncbi.nlm.nih.gov/gene/494324

Dec 18, 2016 · MiR-**375** targets p53 in **cancer** cells to regulate the response to ionizing radiation and etoposide treatment. study found that paclitaxel may induce an acquired drug resistance in cervical **cancer**, that is, paclitaxel **upregulates** miR-**375** expression and overexpressed miR-**375** consequently produces chemo-resistance in cervical **cancer** in vitro and in vivo

Significance of Dysregulated Metadherin and MicroRNA-375 ...

https://clincancerres.aacrjournals.org/content/17/24/7539

Dec 15, 2011 · Purpose: Despite recent improvements in local control of head and neck cancers (HNC), distant metastasis remains a major cause of death. Hence, further understanding of HNC biology, and in particular, the genes/pathways driving metastasis is essential to improve outcome. Experimental Design: Quantitative reverse transcriptase PCR (qRT-PCR) was used to measure the expression of miR-**375** ...

Cited by: 92 **Author:** Angela B.Y. Hui, Jeff P. Bruce, Nehad M. Al...
Publish Year: 2011

microRNA-Mediated Tumor–Microbiota Metabolic Interactions ...

https://www.liebertpub.com/doi/10.1089/dna.2018.4579

Apr 03, 2019 · Introduction. In the United States, **colorectal cancer** (CRC) is the third most commonly diagnosed type of **cancer** and the second most frequent cause of **cancer**-related deaths (Siegel et al., 2018).In 2018, an estimated 140,250 people will be diagnosed with CRC, and 50,630 will die from it.

Cited by: 3 **Author:** YuanCe, SubramanianSubbaya
Publish Year: 2019

miR-375 inhibits the invasion and metastasis of colorectal ...

www.spandidos-publications.com/or/36/1/487

Accumulating evidence has shown that aberrantly expressed microRNAs (miRNAs) are associated with tumor development and progression. Our previous study found that **microRNA-375** (miR-**375**) was downregulated **in colorectal cancer** (CRC), but little is known concerning the role of miR-**375** and the related mechanism in CRC development.

Cited by: 19 **Author:** Fengyun Cui, Shuyang Wang, Iweng Lao, C...
Publish Year: 2016

Significance of Dysregulated Metadherin and MicroRNA-375 ...

https://www.researchgate.net/publication/51748895_Significance_of_Dysregulated...

Significance of Dysregulated Metadherin and **MicroRNA-375** in Head and Neck **Cancer** Article (PDF