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Manuscript Type: ORIGINAL ARTICLE

Basic Study

**LncRNA MEG3 acts a biomarker and regulates cell functions by targeting
ADAR1 in colorectal cancer**

Wang W *et al.* MEG3 as a biomarker in colorectal cancer

Wei Wang, Ying Xie, Fei Chen, Xu Liu, Li-Li Zhong, Hai-Qiang Wang,
Qing-Chang Li

Match Overview

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Involvement of long non-coding RNA in colorectal cancer ...

www.ncbi.nlm.nih.gov › Journal List › Oncol Lett

The **H19-lncRNA** is a paternally imprinted (maternally expressed) **oncofetal gene** that is abundantly expressed in a number of types of **cancer**. H19-derived miR-675 promotes human **CRC cell** growth and malignant transformation by **targeting** the **tumor** suppressor retinoblastoma protein (RB) (7).

Cited by: 15

Author: Le-Chi Ye, De-Xiang Zhu, Jun-Jun Qiu, Ji...

Publish Year: 2015

Long Non-Coding RNAs As Potential Novel Prognostic ...

www.ncbi.nlm.nih.gov › Journal List › Front Genet › v.7; 2016

LncRNAs in **cancer** and their potential as prognostic **biomarkers**. For instance, a recent study based on 7256 **RNA-seq** libraries from tumors, normal tissues and **cell** lines, identified a total of 196 non-coding transcripts **associated** with **CRC**, but the vast majority of them (163) were previously unknown (Iyer et ...

Cited by: 21

Author: Ester Saus, Anna Brunet-Vega, Susana Ir...

Publish Year: 2016

[PDF] MicroRNAs in cancer: biomarkers, functions and ... - ...

[https://www.cell.com/trends/molecular-medicine/pdf/S1471-4914\(14...](https://www.cell.com/trends/molecular-medicine/pdf/S1471-4914(14...)

Binding site variation in the 3'UTR of the target mRNA is a common feature of cancer cells [16]. Single nucleotide polymorphisms (SNPs) and mutations have been identified, as well as deletions of 3'UTRs during mRNA splicing in cancer cells, rendering mRNAs insensitive to microRNA regulation [17].

Long Non-Coding RNAs: Novel Emergent Biomarkers for ...

pubs.sciepub.com/jcrt/1/2/2 ▾

LncRNAs Acting as Biomarkers in Cancer. In addition, the **maternally expressed gene (MEG3)** **lncRNA** was found to **act** as a tumour suppressor in several tumour conditions such as meningioma and glioma due to its **down-regulated** expression in severe forms of such tumour conditions [29, 30].

Published in: The Journal of **Cancer** Research · 2013

Authors: Duncan Ayers

Affiliation: University of Manchester

About: microRNA · **Biomarker** · **Cancer**

[PDF] Cancer Cell Perspective

[https://www.cell.com/cancer-cell/pdf/S1535-6108\(16\)30092-7.pdf](https://www.cell.com/cancer-cell/pdf/S1535-6108(16)30092-7.pdf)

provide an **lncRNA biomarker** to guide the selection of platinum-containing regimens in patients with

per. Table 1. **Cancer-Associated lncRNAs** lncRNAs Associated with Common **Cancer**

Generations **lncRNA** **Cancer** Type Genomic Alteration References PVT1 **colorectal** 8q24



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Long noncoding RNAs: a potential novel class of cancer ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4407501>

Maternally expressed gene 3 (MEG3) is another prominent **tumor suppressor lncRNA** that acts by increasing p53 activity on specific transcription targets (Zhou et al., 2007). Besides, **MEG3** is able to inhibit cell proliferation in the absence of p53 suggesting that this **lncRNA may act** also via p53-independent pathway (Zhou et al., 2007).

Cited by: 140

Author: Aliaksandr A. Yarmishyn, Igor V. Kurochkin

Publish Year: 2015

Involvement of long non-coding RNA in colorectal cancer ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4315074>

The **H19-lncRNA** is a paternally imprinted (maternally expressed) oncofetal gene that is abundantly expressed in a number of types of cancer. H19-derived **miR-675** promotes human CRC cell growth and malignant transformation by **targeting** the **tumor suppressor retinoblastoma protein (RB)** (7).

Cited by: 15

Author: Le-Chi Ye, De-Xiang Zhu, Jun-Jun Qiu, Jia...

Publish Year: 2015

Long Non-Coding RNAs: Novel Emergent Biomarkers for ...

<pubs.sciepub.com/jcrt/1/2/2> ▾

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Published in: The Journal of Cancer Research · 2013

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provide an **lncRNA biomarker** to guide the selection of platinum-containing regimens in patients with ovarian cancer. Table 1. Cancer-Associated lncRNAs lncRNAs Associated with Common Cancer Genomic Alterations **lncRNA Cancer Type Genomic Alteration References** PVT1 colorectal 8q24 amplification Tseng et al., 2014



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Long non-coding RNA DLX6-AS1 aggravates hepatocellular ...

<https://www.sciencedirect.com/science/article/pii/S0753332217351545>

Another **lncRNA CCAT1** and **CCAT2** was significantly associated with a poor RFS and a poor OS, serving as important **prognostic biomarkers** in colorectal cancer . In our study, we found that **DLX6-AS1** was correlated with the 5-year survival rate of HCC patients, thus, **lncRNA DLX6-AS1** could **act** as a diagnostic marker for HCC early detection.

Cited by: 10 **Author:** Lei Zhang, Xiaowei He, Ting Jin, Li Gang,...

Publish Year: 2017

Pathological bases and clinical impact of long noncoding ...

<https://link.springer.com/article/10.1186/s12943-018-0852-7> ▾

Jul 23, 2018 · In the aspect of mechanism, **MEG3** normally **acts** as a tumour suppressor, as it likewise impairs **cell** proliferation and promotes apoptosis by activating p53 . p53 plays a **tumor suppression role** in most human cancers . Additionally, Luo et al. confirmed that **MEG3** inhibited intrinsic **cell survival** pathway by reducing the protein expression of Bcl-2(**B-cell lymphoma-like 2**) and cyclin D1, enhancing **Bax** ...

Cited by: 9 **Author:** Tao Xu, Chang-ming Lin, Shu-qi Cheng, J...

Publish Year: 2018

Metastasis-associated long non-coding RNA drives gastric ...

https://www.researchgate.net/publication/266577941_Metastasis-associated_long_non...

Metastasis-associated-lung-adenocarcinoma-transcript-1 (MALAT-1) is a **lncRNA** that is overexpressed in **multiple cancer cell lines** and tumors, and MALAT-1 expression in early stage non-small **cell** ...

IJMS | Free Full-Text | The Nefarious Nexus of Noncoding ...

<https://www.mdpi.com/1422-0067/19/7/2072/html> ▾

In another study, the promoter region of **maternally expressed gene 3 (MEG3)** **lncRNA** was methylated

<https://www.sciencedirect.com/science/article/pii/S0753332217351545> has **ceRNA functions**. It sequesters the **onco-miR-9** so that it does