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Basic Study

MicroRNA-596 acts as a tumor suppressor in gastric cancer and is upregulated by promotor demethylation

Zhang Z *et al.* Role of miR-596 in GC

Zhen Zhang, Dong-Qiu Dai

Abstract

BACKGROUND

In the present study, we have investigated a suppressive role of microRNA-596 (miR-596) in gastric cancer (GC). Moreover, the downregulation of miR-596 in GC cell lines was associated with an increase of miR-596 promoter methylation. We also established that miR-596 controls the expression of peroxiredoxin 1 (PRDX1), which has never been reported before, suggesting that this interaction could play an important role in GC progression.

AIM

To study the potential role and possible regulatory mechanism of miR-596

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2018年2月3日 - Compared to aberrant DNA **methylation**, little is known about miR-192, miR-615-5p, and miR-1247, suggesting **tumor suppressor** roles ... In **gastric cancer** (GC) cell lines and in about 70% of primary GCs compartment, **miRNAs act** on gene **promoters**, both activating and Cancer 2011, 11, 588–596.

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2017年3月27日 - Keywords: epigenetic modulation, **gastric cancer**, DNA methylation, histone ... promoter region may determine whether or not it **acts as a tumor suppressor**; ... study identified that global **demethylation** of tumor cell genomes occurred in GC, ... **miRNA** regulates gene expression primarily by interfering with the ...

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2018年7月13日 - in cancer development, such as proliferation, migration and X-interacting protein) and let-7g **miRNA** form a positive ... YTHDC2 **upregulates** in colon cancer and has an type **gastric adenocarcinoma** and lung adenocarcinoma is ... **demethylase**, **acts as a tumor suppressor** in leukemia (Esteller and.

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MicroRNA-133a functions as a tumor suppressor in gastric cancer. ... while transgelin-2 (TAGLN2)

was **upregulated** (P<0.05) in primary **gastric cancer** tissues, ...

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https://www.researchgate.net/.../236604135_MicroRNA-219-2-3p_Functions... - 翻译此页

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MicroRNA-21 stimulates gastric cancer growth and invasion ... - JBUON

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