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Basic Study

Circular RNA PIP5K1A promotes colon cancer development through inhibiting miR-1273a

Zhang Q *et al.* circPIP5K1A's oncogenic role in colon cancer

Qu Zhang, Chi Zhang, Jian-Xin Ma, Hui Ren, Yu Sun, Jiao-Zhen Xu



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Jul 31, 2018 · **Circular RNA** (circRNA) is a new type of endogenous non-coding RNAs (ncRNAs). circRNA regulates gene expression in many biological processes, and it also participates in the initiation and **development** of various diseases, including tumors, which are the focus of present research. With the **development** of high-throughput sequencing technique, an increasing number of circRNAs ...

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Circular RNA (circRNA) was then verified to exist in several eukaryotic cells through the use of electron **microscopy** in 1979 [2]. In 1986, circRNAs were observed for the first time in humans, following **infection** with the hepatitis delta virus [3].

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Author: Ling Qian, Shulin Yu, Zheng Chen, Zhiqia...

Publish Year: 2018

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Our present data verified that miR-320a expression was significantly decreased, while SND1 and β -catenin expression s were observably increased with the grade elevation in 120 hu

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A pan-cancer atlas of cancer hallmark-associated candidate ...

<https://febs.onlinelibrary.wiley.com/doi/10.1002/1878-0261.12381>

Sep 14, 2018 · LncRNA NORAD, amplified in 13% of samples in **colorectal cancer**, was mutually exclusive with SMAD2 (Fig. 3I). SMAD2 is a member of mitotic checkpoints, and contributes to **chromosomal instability** in nasopharyngeal **carcinoma** (Wang et al., 2000). The inactivation of NORAD was sufficient to produce a **chromosomal instability phenotype** (Lee et al., 2016).



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The emerging role of circRNAs and their clinical ...

<https://www.sciencedirect.com/science/article/pii/S0304419X18300696>

He, C. Duan, L. Zhang, et al. Circular RNA MYLK as a competing endogenous RNA promotes bladder cancer progression through modulating VEGFA/VEGFR2 signaling pathway *Cancer Lett.* 403 (2017), pp...

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<https://link.springer.com/article/10.1186/s13045-018-0643-z> ▾

Zhong Z, Huang M, Lv M, He Y, Duan C, Zhang L, et al. Circular RNA MYLK as a competing endogenous RNA promotes bladder cancer progression through modulating VEGFA/VEGFR2 signaling pathway. *Cancer Lett.* 2017;403:305–17.

Cited by: 15

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Publish Year: 2018

(PDF) Microarray profile of circular RNAs identifies hsa ...

https://www.researchgate.net/publication/323151435_Microarray_profile_of_circular_RNAs...

Microarray profile of circular RNAs identifies hsa_circ_0014130 as a new circular RNA biomarker in non-small cell lung cancer Article (PDF Available) in *Scientific Reports* 8(1) · December 2018 ...

KRAS KRAS proto-oncogene, GTPase [(human)]

<https://www.ncbi.nlm.nih.gov/gene/3845>

May 21, 2019 · Kras regulates circular RNA in colon cancer cells. these results suggest that aspirin inhibited human uterine leiomyoma cell growth by regulating KRasp110alpha interaction. Aspirin which targeting on interaction between K-Ras and p110alpha may serve as a new therapeutic drug for uterine leiomyoma treatment.

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MiR-320a inhibit s the proliferation and invasion of NSCLC cells in vitro by targeting VDAC1 Gene expression meta-analysis identified VDAC1 as a predictor of poor outcome in early stage NSCLC, and knockdown of VDAC1 expression has been shown to inhibit cancer cell proliferation and tumor growth [26, 27], which prompted us to hypothesize that miR-320a may affect NSCLC cell viability through



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1. Introduction. The concept of 'circular RNA' was first proposed in 1976 by Sanger et al., who found that viroids of certain higher plants are single-stranded, covalently closed, circular RNA molecules []. Circular RNA (circRNA) was then verified to exist in several eukaryotic cells through the use of electron microscopy in 1979 []. In 1986, circRNAs were observed for the first time in ...

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Abstract. Circular RNA (circRNA) is a new type of endogenous non-coding RNAs (ncRNAs). circRNA regulates gene expression in many biological processes, and it also participates in the initiation and development of various diseases, including tumors, which are the focus of present research.

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Circular RNA (circRNA) is a new type of endogenous non-coding RNAs (ncRNAs). circRNA regulates gene expression in many biological processes, and it also participates in the initiation and ...

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In our study, we firstly show that miR-320a promotes 5-FU resistance through raising EMT transformation in pancreatic cancer cells, exhibiting as down-regulation of epithelial cells markers (β -cadherin and E-cadherin) and up-regulation of mesenchymal cells markers (Fibronectin, N-cadherin, Vimentin, ZEB1 and Snail2).

[A pan-cancer atlas of cancer hallmark-associated candidate ...](#)

<https://febs.onlinelibrary.wiley.com/doi/full/10.1002/1878-0261.12381>

On 14/11/2019, The authors submitted a manuscript to the journal, which is currently under review.