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Name of Journal: *World Journal of Gastroenterology***Manuscript NO:** 60177**Manuscript Type:** ORIGINAL ARTICLE**Basic Study**

miR-34a demethylation up-regulates membrane palmitoylated proteins expression and promotes liver cancer cell apoptosis

Fu-Yong Li, Ting-Yong Fan, Hao Zhang, Fu-Yong Li

Abstract**BACKGROUND**

Liver cancer is a common cancer and the main cause of cancer-related deaths in the world. Liver cancer is the sixth most common cancer in the world. Although miR-34a and membrane palmitoylated proteins (MPP2) have been reported to involve in various cell processes, their precise roles in liver cancer are still under investigation.

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miR-34a, miR-424 and miR-513 inhibit MMSET expression to ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5955424>

May 01, 2018 · Our results demonstrated that the **expression** of **miR-34a**/miR-424/miR-513 is frequently lost in human EC tissues, and ectopic **miR-34a**/miR-424/miR-513 **expression** reduced EC **cell** sphere...

Cited by: 13

Author: Peixin Dong, Ying Xiong, Junming Yue, Sha...

Publish Year: 2018

miR-34a inhibits cell proliferation in prostate cancer by ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4665267>

Aug 26, 2015 · The **ectopic expression** of **miR-34a** induces arrest of the cell cycle in G1 phase, apoptosis and senescence in tumors. Moreover, a number of target **mRNAs** of **miR-34a** have been determined...

Cited by: 22

Author: Kun Duan, Yong-Chao Ge, Xue-Pei Zhang, ...

Publish Year: 2015

Mir-34: A New Weapon Against Cancer? - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S2162253116303341>

Jan 01, 2014 · The **microRNA (miRNA)-34a** is a key **regulator** of tumor suppression. It controls the **expression** of a plethora of **target proteins** involved in cell cycle, differentiation and apoptosis, and...

Cited by: 415

Author: Gabriella Misso, Maria Teresa Di Martino, G...

Publish Year: 2014

Macrophage miR-34a Is a Key Regulator ... - Home: Cell Press

<https://www.cell.com/molecular-therapy-family/...> ▾

Atherosclerosis is the leading cause of death in Western countries. Zhang and colleagues show that microRNA-34a (**miR-34a**) plays a key role in regulating macrophage cholesterol efflux, inflammation, an...

Cited by: 4

Author: Yanyong Xu, Yang Xu, Yingdong Zhu, Huihu...

Publish Year: 2020

[PDF] Detection of miR-34a Promoter Methylation in Combination ...

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3,6-Dihydroxyflavone regulates microRNA-34a through DNA ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5584326>

These data suggests that 3,6-DHF **up-regulates miR-34a** by increasing **TET1 expression** and thus demethylation of miR-34a promoter.

Cited by: 7

Author: Xiaoli Peng, Hui Chang, Junli Chen, Qian...

Publish Year: 2017

miR-34a Regulates Expression of the Stathmin-1 ...

<https://mcr.aacrjournals.org/content/16/7/1125> ▾

Jul 01, 2018 · Furthermore, **miR-34a** downregulated STMN1 by directly binding to its 3'-UTR.

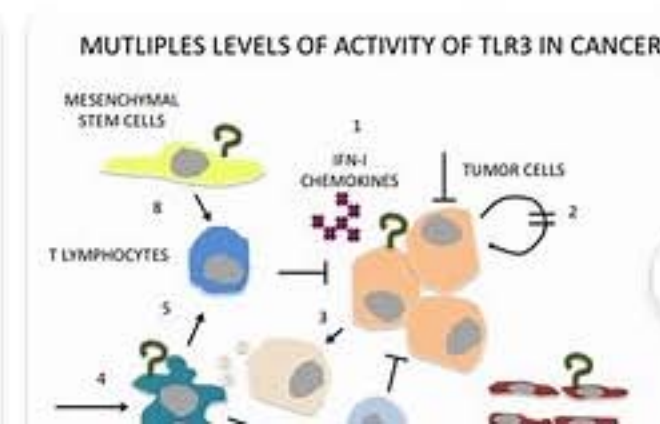
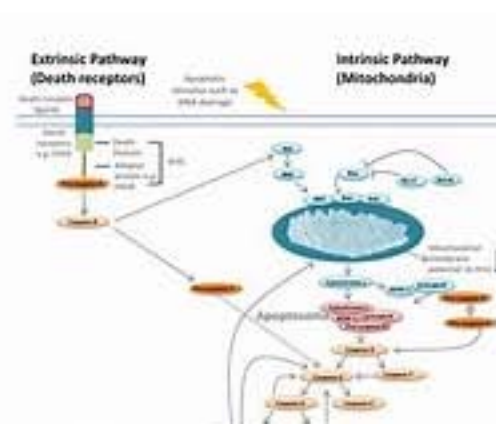
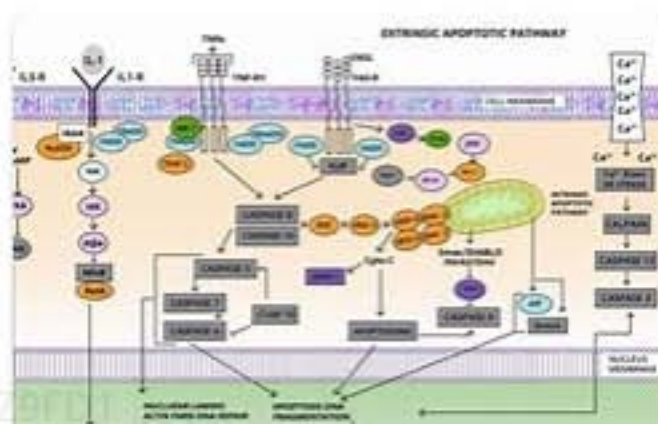
Overexpression of **miR-34a** in prostate **cancer** cells reduced proliferation and colony formation, suggesting that it is a tumor suppressor. The transcriptional corepressor C-terminal binding **protein 1** (CtBP1) negatively regulated **expression** of **miR-34a**.

Cited by: 15

Author: Balabhadrapatruni V.S.K. Chakravarthi, D...

Publish Year: 2017

Images of Mir-34a Demethylation Up-regulates Membrane P...

<bing.com/images>

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[A long non-coding RNA targets microRNA miR-34a to regulate ...](#)

<https://elifesciences.org/articles/14620> ▾

Apr 14, 2016 · A downstream target of p53, the microRNA miR-34a is a well-known tumor suppressor in various types of cancers (Chang et al., 2007; He et al., 2007). Among its many functions, miR-34a has been shown to limit self-renewal of **cancer** stem cells (Bu et al., 2013; Liu et al., 2011). miR-34a mimics such as MRX34 are among the first microRNA mimics to reach clinical trial for **cancer** therapy (Bader ...

Cited by: 74

Author: Lihua Wang, Pengcheng Bu, Pengcheng Bu,...

Publish Year: 2016

[3,6-Dihydroxyflavone regulates microRNA-34a through DNA ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5584326>

In our previous research, we observed that **3,6-DHF up-regulates** the **miR-34a** and **over-expressed miR-34a promoted** cytotoxicity and **apoptosis** in breast cancer cells induced by 3,6-DHF . In this paper, we explored how **DNA methylation** and **demethylation** influence the effect of **3,6-DHF** on miR-34a.

Cited by: 7

Author: Xiaoli Peng, Hui Chang, Junli Chen, Qianyo...

Publish Year: 2017

[Mir-34: A New Weapon Against Cancer? - ScienceDirect](#)

<https://www.sciencedirect.com/science/article/pii/S2162253116303341>

Jan 01, 2014 · The **microRNA (miRNA)-34a** is a key regulator of tumor suppression. It controls the expression of a plethora of target **proteins** involved in cell cycle, differentiation and apoptosis, and antagonizes processes that are necessary for basic **cancer cell** viability as well as cancer stemness, metastasis, and chemoresistance.

Cited by: 417

Author: Gabriella Misso, Maria Teresa Di Martino, G...

Publish Year: 2014

[Expression of miR-34 is lost in colon cancer which can be ...](#)

<https://jhoonline.biomedcentral.com/articles/10.1186/1756-8722-5-58> ▾