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Basic Study

MiR-34a overexpression enhances the inhibitory effect of doxorubicin on HepG2 cells

Zheng SZ *et al.* MiR-34a enhances inhibitory effect of doxorubicin

Shun-Zhen Zheng, Ping Sun, Jian-Ping Wang, Yong Liu, Wei Gong, Jun Liu

Abstract

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The hepatoprotective action of **ursodeoxycholic acid** (UDCA) was previously suggested to be partially dependent on its antioxidative **effect**. **Doxorubicin** (DOX) and reactive oxygen species have also been implicated in the **overexpression** of **P-glycoprotein** (P-gp), which is encoded by the MDR1 gene and causes antitumor multidrug resistance.

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However, forced expression of HMGB1 counteracted **the inhibitory effect** of miR-505 **overexpression** on cell viability in MHCC97 and **HepG2 cells** in the presence of ADM (Fig. 1C). Therefore, these results demonstrated that miR-505 **overexpression** improved AMD-induced cytotoxicity by targeting HMGB1 in HCC cells.

Author: Lin Lu, Donghui Zhang, Yu Xu, Guang ... Publish Year: 2018

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www.ncbi.nlm.nih.gov › Journal List › PLoS One › v.8(4); 2013

There was no significant change of sub-G1 DNA content in **HepG2 cells**, which was indicative of no **effect** of apoptosis by **miR-34a**. In line with this, Cheng et al did not find that the **overexpression** of **miR-34a** altered apoptosis in **HepG2 cells** quantified by Annexin V staining. However, distinct results were observed in the current study.

Cited by: 112

Author: Yiwu Dang, Dianzhong Luo, Minhua Rong...

Publish Year: 2013

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Feb 11, 2011 - sFZD7 sensitizes **HCC cells** to the anti-proliferative **effect** of **doxorubicin** in vivo.

Whereas the PBS control tumors have less than 10% **apoptotic cells**, there were between 10-30% **apoptotic cells** in the sFZD7 or Doxil single treated tumors, and more than 50% **apoptotic cells** in the sFZD7 and Doxil combined treated tumors.

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Author: Wei Wei, Mei-Sze Chua, Susan Grepper,...

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作者: F Jin - 2017 - 被引用次数: 62 - 相关文章

2017年1月12日 - Overexpression of miR-26a/b enhanced the sensitivity of HCC cells to Dox ... to sensitize HCC cells to doxorubicin (Dox) and promotes apoptosis by inhibitory effect of miR-26a/b on ULK1 in HepG2/Dox cells (Figure 5c). 34. Zeitels LR, Acharya A, Shi G, Chivukula D, Chivukula RR, Anandam JL et al.

MiR-375 and Doxorubicin Co-delivered by Liposomes for ... - Cell Press

[https://www.cell.com/molecular-therapy-family/.../S2162-2531\(17\)30150-6](https://www.cell.com/molecular-therapy-family/.../S2162-2531(17)30150-6) - 翻译此页

作者: YP Fan - 2017 - 被引用次数: 17 - 相关文章

2017年4月15日 - Furthermore, miR-375 dramatically inhibited drug resistance of DOX by reducing