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Name of Journal: *World Journal of Gastroenterology*
Manuscript NO: 52491

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Basic Study

MiR-301a transcriptionally activated by HIF-2 α promotes hypoxia-induced EMT by targeting TP63 in pancreatic cancer

Kun-Dong Zhang, Bin Hu, Gang Cen , Yu-Han Yang, Wei-Wei Chen, Zeng-Ya Guo, Xiao-Feng Wang, Qian Zhao, Zheng-Jun Qiu

Abstract

BACKGROUND

Pancreatic cancer is one of the deadliest cancers worldwide. Pancreatic cancer metastasis involves a complex set of events, including epithelial-mesenchymal transition (EMT), that increase tumor cell invasiveness. Recent evidence has shown that hypoxia is a major EMT regulator in pancreatic cancer cells and facilitates metastasis; however, the mechanisms remain elusive.

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MicroRNA—A Tumor Trojan Horse for Tumor-Associated ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6953083>

In another study, exosomal **miR-301a**-3p derived from hypoxic **pancreatic cancer** cells **activated** the PTEN/phosphoinositide-3-phosphate gamma pathway in macrophages, thereby triggered macrophage M2 polarization and increased the metastatic activity of PC . The exosomal transfer of miR to innate immune cells is not limited to **cancer** cells as miR donors.

Author: Shahzad Nawaz Syed, Ann-Christin F... **Publish Year:** 2019

Exosome-orchestrated hypoxic tumor ... - Molecular Cancer

<https://molecular-cancer.biomedcentral.com/articles/10.1186/s12943-019-0982-6> ▾

Mar 30, 2019 · In addition, lncRNA-UCA1-rich TDEs derived from bladder **cancer** cells could **promote** tumor growth and progression though affecting epithelial-mesenchymal **transition** of recipient bladder **cancer** cells . However, the molecular mechanism by which exosomal lncRNAs regulate hypoxic adaption remains largely uncovered.

Cited by: 15 **Author:** Wanrong Meng, Yaying Hao, Chuanshi H...

Publish Year: 2019

The p53 family and the hypoxia-inducible factors (HIFs ...





miR-301a transcriptionally activated by HIF-2 α promote:



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HIF-2 α promotes hypoxic cell ... - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3145406>

HIF-2 α promotes von Hippel-Lindau (VHL) deficient renal clear cell carcinoma (RCC) tumorigenesis, while HIF-1 α inhibits RCC growth. As HIF-1 α antagonizes c-Myc function, we hypothesized that **HIF-2 α** might enhance c-Myc activity. We demonstrate here that **HIF-2 α promotes** cell cycle progression in hypoxic RCCs and multiple other cell lines.

Cited by: 691 **Author:** John D. Gordan, Jessica A. Bertout, Che...

Publish Year: 2007

[PDF] HIF-2 α promotes epithelial-mesenchymal transition through ...

<https://jeccr.biomedcentral.com/track/pdf/10.1186/s13046-016-0298-y>

HIF-2 α promotes epithelial-mesenchymal **transition** through regulating Twist2 binding to the promoter of E-cadherin **in pancreatic cancer** Jian Yang1†, Xu Zhang1†, Yi Zhang1†, Dongming Zhu1, Lifeng Zhang1, YeLi1, Yanbo Zhu2, Dechun Li1 and Jian Zhou1* Abstract

Cited by: 23 **Author:** Jian Yang, Xu Zhang, Yi Zhang, Dongmin...

Publish Year: 2016

HIF-2 α promotes epithelial-mesenchymal transition through ...

<https://link.springer.com/article/10.1186/s13046-016-0298-y>

Feb 03, 2016 · Epithelial-mesenchymal **transition** (EMT) is a dedifferentiation process that mainly involves in mesenchymal marker upregulation, epithelial marker downregulation and cell polarity loss. Related hypoxia factors play a crucial role in EMT, however, it remains few evidence to clarify the role of **HIF-2 α** in EMT **in pancreatic cancer**.

Cited by: 23 **Author:** Jian Yang, Xu Zhang, Yi Zhang, Dongmin...

Publish Year: 2016

MiR-200a inhibits epithelial-mesenchymal transition of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3923443>

Background. **Pancreatic cancer** is one of the most aggressive cancers, and the aggressiveness of **pancreatic cancer** is in part due to its intrinsic and extrinsic drug resistance characteristics, which are also associated with the acquisition of epithelial-to-mesenchymal **transition** (EMT).

Cited by: 76 **Author:** Yuhua Lu, Yuhua Lu, Jingjing Lu, Xiaoho...

Publish Year: 2014