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### *Retrospective Study*

Circulating miR-21-5p level has limited prognostic value in patients with hepatocellular carcinoma and is influenced by renal function

**1**  
Franck M *et al.* Circulating miR-21-5p in hepatocellular carcinoma

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### Abstract

#### BACKGROUND

Micro ribonucleic acids (miRNAs) have been suggested as biomarkers for malignant diseases including hepatocellular carcinoma (HCC). Specifically, hsa-miR-21-5p (miR-21) is among the most frequently deregulated miRNAs in cancer. Diagnostic and prognostic value of miR-21 has been demonstrated in HCC tissue mostly in Asian

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The results of the prognostic meta-analyses indicated that the circulating miR-21 expression level was a promising biomarker to predict survival in digestive system cancer patients. Patients with an increased level of miR-21 expression had a 1.94-fold higher risk of ...

Cited by: 10

Author: Chengqiang Yin, Xiaoying Zhou, Yini Dan...

Publish Year: 2015

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## A combined treatment of curcumin, piperine, and taurine ...

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Feb 12, 2019 - A combined treatment of curcumin, piperine, and taurine alters the circulating levels of IL-10 and miR-21 in hepatocellular carcinoma patients: a pilot study Hala M. Hatab , 1 Fatma F. Abdel Hamid , 1 Ahmed F. Soliman , 1 Tamer A. Al-Shafei , 2 Yahia M. Ismail , 3 and Mohamed E. El-Houseini 4

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4097394>

Karakatsanis A, Papaconstantinou I, Gazouli M, Lyberopoulou A, Polymeneas G, et al. (2013) Expression of microRNAs, miR-21, miR-31, miR-122, miR-145, miR-146a, miR-200c, miR-221, miR-222, and miR-223 in patients with hepatocellular carcinoma or intrahepatic cholangiocarcinoma and its prognostic significance. Mol Carcinog 52: 297–303

Cited by: 58

Author: Xin Zhou, Xiaping Wang, Zebo Huang, Ji...

Publish Year: 2014

## Circulating miRNA-21-5p as a diagnostic biomarker for ...

<https://www.nature.com/articles/s41598-017-01904-z>

May 10, 2017 · However, the summary AUC was found to be hardly **influenced** by clinical characteristics, with a range of 0.77 to 0.81 (Figs 6E and 7B), which suggests that **circulating hsa-miR-21-5p** ...

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Author: Kai Qu, Xing Zhang, Ting Lin, Tian Liu, Z...

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## Profiling of metastatic small intestine neuroendocrine ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5589584>

Aug 15, 2017 · We further found that high levels of **circulating miR-21-5p**, high levels of **circulating** miR-22-3p and low levels of **circulating** miR-150-5p were each independently associated with shorter overall survival. A combined analysis using all three markers was highly **prognostic** for ...

Cited by: 12

Author: Michaela Bowden, Chensheng W. Zhou, ...

Publish Year: 2017



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## [Profiling of metastatic small intestine neuroendocrine ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5589584>

Aug 15, 2017 · We further found that high levels of **circulating miR-21-5p**, high levels of **circulating miR-22-3p** and low levels of **circulating miR-150-5p** were each independently associated with shorter overall survival. A combined analysis using all three markers was highly **prognostic** for survival (HR 0.47, 95% CI 0.27-0.82).

**Cited by:** 12 **Author:** Michaela Bowden, Chensheng W. Zhou, ...

**Publish Year:** 2017

## [Circulating miR-130b- and miR-21-based diagnostic markers ...](#)

<https://europepmc.org/article/MED/31660696> ▾

Oct 29, 2019 · 1. INTRODUCTION. **Hepatocellular carcinoma** (HCC) is the fifth malignant tumor worldwide, with about 700,000 new **patients** worldwide each year (Jacques et al., 2010). It is believed that different genes and proteins have participated in the pathogenesis of HCC (Whittaker & Marais RZhu, 2010). In order to improve 5-year survival rates of the cases, early diagnosis followed by the ...

**Cited by:** 4 **Author:** Nannan Zhang, Zhenni Hu, Yong Qiang, ...

**Publish Year:** 2019

## [Circulating microRNAs as potential cancer biomarkers: the ...](#)

<https://clinicalepigeneticsjournal.biomedcentral.com/...> ▾

Apr 23, 2018 · **Circulating miR-21-5p** was reported to be upregulated in **patients** of NSCLC [17, 18, 19, 55, 56, 72], liver cancer, and gastric cancer [96, 97], but downregulated in **patients** suffered from breast cancer [32, 72]. The levels of miR-195 in peripheral blood were lower in **patients with hepatocellular carcinoma** and cervical cancer.

**Cited by:** 147 **Author:** Hao Wang, Ran Peng, Junjie Wang, Zelia...

**Publish Year:** 2018

## [Diagnostic and prognostic value of circulating miR-21 for ...](#)

<https://www.researchgate.net/publication/257204378...>

Furthermore, **miR-21-5p** in breast tumors was also associated with poor survival in breast cancer [19], and **circulating miR-21-5p** predicted poor survival in other cancers [20]. As **miR-21-5p** ...