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*Observational Study*

Blood exosomal micro ribonucleic acid **1** profiling reveals the complexity of hepatocellular carcinoma and identifies potential biomarkers for differential diagnosis

Lang-Qing Sheng, Jia-Rong Li, Hao Qin, Ling Liu, Da-Dong Zhang, Qi Zhang, Meng-Li Huang, Xiao-Li Li, Xiao-Ya Xu, Yang-Nian Wei, Zi-Shuo Chen, Hui Luo, Ji-Yang Zhang, Cheng-Hui Zhou, Hao Chen, Ze-Guo Chen, Fu-Gen Li, Nian-Feng Li

**Abstract**

BACKGROUND

Hepatocellular carcinoma (HCC) is one of leading causes of cancer-related deaths

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## Exosomal microRNAs as potential biomarkers for cancer cell ...

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**Exosomal** microRNAs as **potential biomarkers** for cancer cell migration and prognosis in **hepatocellular carcinoma** patient-derived cell models Ling-Xiang Yu , 1, 2, \* Bo-Lun Zhang , 3, \* Yuan Yang , 4, \* Meng-Chao Wang , 4, \* Guang-Lin Lei , 2 Yuan Gao , 2 Hu Liu , 2 Chao-Hui Xiao , 2 Jia-Jia Xu , 5 Hao Qin , 5 Xiao-Ya Xu , 5 Zi-Shuo Chen , 5 Da ...

**Cited by:** 11

**Author:** Ling-Xiang Yu, Bo-Lun Zhang, Yuan Ya...

**Publish Year:** 2018

## Serum Exosomal MicroRNA, miR-10b-5p, as a Potential ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7019940>

Jan 20, 2020 · 1. Introduction. **Hepatocellular carcinoma** (HCC) is the fifth most common malignancy and third leading cause of cancer-related mortality worldwide []. Though HCC is known as intractable cancer with poor prognosis, patients diagnosed at a very early stage (tumor size  $\leq 2$  cm) have a five-year survival rate of more than 70% after effective therapeutic treatment [].

**Cited by:** 3

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**Publish Year:** 2020

## Hao QIN | PhD | The Chinese University of Hong Kong, Hong ...

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**Blood exosomal miRNA profiling reveals the complexity of hepatocellular carcinoma and identifies potential biomarkers as differential diagnosis ...** Identifying **blood exosomal miRNAs** as **biomarkers** ...

## Exosomal microRNAs as potential biomarkers for cancer cell ...

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Consequently, six differentially expressed **exosomal** miRNAs were identified as **potential biomarkers** for metastasis in HCC, and **miRNA**-targeted genes were enriched in the 'focal adhesion' pathway, supporting the role of **miRNA** regulation in cell migration and tumor metastasis.



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**Hepatocellular carcinoma** risk factors, pathogenesis, **diagnosis**, and treatment options. **Hepatocellular carcinoma** (HCC) is one of the most common malignancies worldwide, and is the third-leading cause of cancer-related death. 1 The incidence of HCC in various regions differs significantly. 2 Developing countries, including East and Southeast Asia and Central and West Africa, have the highest ...

**Cited by:** 2

**Author:** Limin Li, Wenli Diao, Ke Zen

**Publish Year:** 2014

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6942270>

Background. **Hepatocellular carcinoma** (HCC) is the third most common malignancy in the world, accounting for 85–90% of primary liver cancer [1–3]. The annual incidence of new cases with HCC is estimated to be about 841,000 []. **Hepatitis B virus** (HBV) infection is considered as the main risk factor for



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**Cited by:** 4 **Author:** Xin Li, Chuanyun Li, Liping Zhang, Min W...

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6780418>

Sep 19, 2019 · 1. Context. Hepatocarcinoma (HCC) is one of the most common forms of cancers, being the sixth most frequently diagnosed cancer and the fourth leading cause of cancer mortality in 2018 [].The alarming incidence of HCC is explained by genetic and epigenetic alterations [], as well as by the presence of risk factors: hepatitis C virus (HCV), hepatitis B virus (HBV) infection, alcohol consumption ...

**Cited by:** 1 **Author:** Angela Cozma, Adriana Fodor, Romana ...

**Publish Year:** 2019

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HCC **hepatocellular carcinoma**, miR/miRNA **micro ribonucleic acid**, HSP heat shock proteins, circRNA Circular RNAs, lncRNA Long noncoding **ribonucleic acid** Li et ...

### [Global exosome transcriptome profiling reveals biomarkers](#)