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*Case Control Study*

**Establishment of a pattern recognition metabolomics model for diagnosis of hepatocellular carcinoma**

Peng-Cheng Zhou, Lun-Quan Sun, Li Shao, Lun-Zhao Yi, Ning Li, Xue-Gong Fan

**Abstract**

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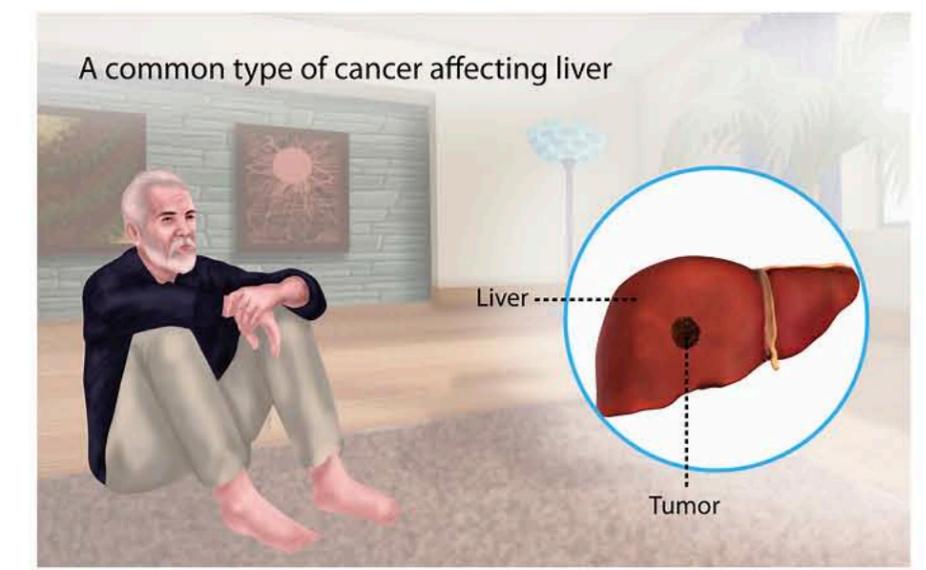
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## Hepatocellular Carcinoma

Medical Condition



The most common form of liver cancer often seen in people with chronic liver diseases like cirrhosis.

- Rare (Fewer than 200,000 cases per year in US)
- May be preventable by vaccine
- Often requires lab test or imaging
- Treatment from medical professional advised



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**Hepatocellular carcinoma** (HCC) is one of the leading causes of cancer-related death worldwide. 1 The high morbidity rate associated with this cancer is mainly linked to the late **diagnosis**, when therapy is no longer effective, and this is particularly true for high-risk patients, such as hepatitis B and C-infected individuals, and is not easily discovered in its initial stage.

**Cited by:** 175 **Author:** Xijun Wang, Aihua Zhang, Hui Sun

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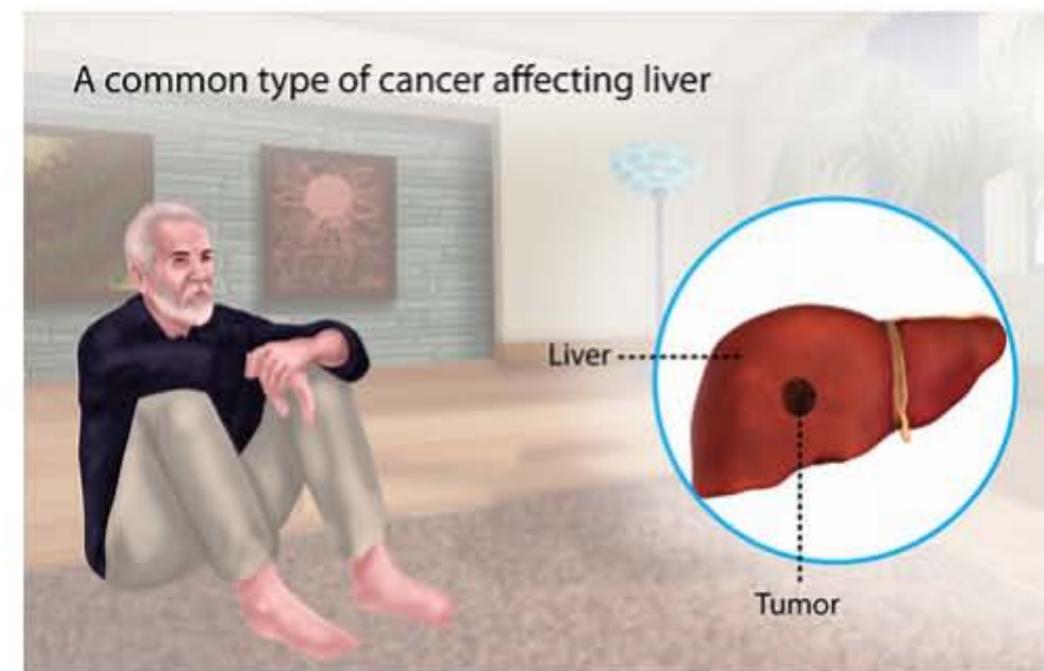
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Metabolomic applications in **hepatocellular carcinoma**: toward the exploration of therapeutics and **diagnosis** through small molecules. Jing Xie a, Aihua Zhang a and Xijun Wang \* ab a Sino-America Chinomedicine Technology Collaboration Center, National TCM Key Laboratory of Serum

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- Rare (Fewer than 200,000 cases per year in US)
- May be preventable by vaccine
- Often requires lab test or imaging
- Treatment from medical professional advised
- Can last several months or years

Caused mainly due to the chronic infection of the liver or DNA mutation of the liver cells. Characterized by unexplained weight loss, upper abdominal pain and yellowing of the skin. Treatment options include hepatectomy, target drug delivery and the use of radiation to kill the cancerous cells.

### Symptoms