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Biomarkers for hepatocellular carcinoma based on body fluids and feces

Biomarkers for HCC

Abstract

Novel non-/minimally-invasive and effective approaches are urgently needed to supplement and improve current strategies for diagnosis and management of hepatocellular carcinoma (HCC). Overwhelming evidence from published studies on HCC has documented that multiple molecular biomarkers detected in body fluids and feces can be utilized in early-diagnosis, predicting responses to specific therapies, evaluating prognosis before or after therapy, as well as serving as novel therapeutic targets. Detection and analysis of proteins, metabolites, circulating nucleic acids, circulating tumor cells and extracellular vesicles in body fluids (e.g. blood and urine)

Match Overview

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Biomarkers for Hepatocellular Carcinoma Based on Body Fluids and



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Update on Biomarkers of Hepatocellular Carcinoma ...

<https://www.sciencedirect.com/science/article/pii/S1542356513017898>

Feb 01, 2015 · This allows the discovery of novel hepatocellular carcinoma (HCC) biomarkers, including DNA-fusion genes, genetic mutations and epigenetic changes, messenger RNA, noncoding RNA including microRNAs (miRNAs), long noncoding RNAs and other species, proteins and posttranslational protein modifications (eg, phosphorylation), metabolites, and antibodies.

Liquid biopsies for hepatocellular carcinoma

<https://pubmed.ncbi.nlm.nih.gov/30056068>

Hepatocellular carcinoma (HCC) is the world's second leading cause of **cancer** death; 82.4% of patients die within 5 years. This grim prognosis is the consequence of a lack of effective early detection tools, limited treatment options, and the high frequency of HCC recurrence. Advances in the field of ...

Cited by: 15

Author: Ying-Hsiu Su, Amy K. Kim, Surbhi Jain

Publish Year: 2018

(PDF) Biomarkers in Hepatocellular Carcinoma: Current ...

<https://www.researchgate.net/publication/346678466...>

Biomarkers in **Hepatocellular Carcinoma**: Current Status and Future Perspectives ... and release certain tumor-associated molecules into **body fluid**, e.g., blood, urine or **stool**, ... Clinic Liver ...

Biomarkers for the Early Detection of Hepatocellular Carcinoma

<https://cebp.aacrjournals.org/content/29/12/2495> ▼

Dec 01, 2020 · Because of their inherent stability and their role in **tumor proliferation**, several studies have evaluated circulating miRNA as a **biomarker** for the diagnosis of **HCC**. Two specific miRNA, miRNA-21 and miRNA-199a, have been proposed as potential **biomarkers** for the early diagnosis of **HCC**.

Biomarkers for Hepatocellular Carcinoma (HCC): An Update

https://pubmed.ncbi.nlm.nih.gov/26530367

Biomarkers for Hepatocellular Carcinoma (HCC): An Update Adv Exp Med Biol. 2015;867 ... (MRI), as well as in vitro utilizing serum or plasma or other **body fluids** as specimens. In contrast to the imaging modalities, a prominent value of serum **biomarkers** is that they could be biologically relevant and disease-specific to pathophysiologic or ...

Cited by: 16 Author: Dave Li, Shinji Satomura
Publish Year: 2015

(PDF) Biomarkers in Hepatocellular Carcinoma: Current ...

https://www.researchgate.net/publication/346678466...

Several biomarkers in body fluid samples, e.g., plasma, serum, urine or stool, have been uncovered that could be objectively measured for HCC surveillance and diagnosis. Alpha-fetoprotein (AFP),...

PEOPLE ALSO ASK

- Which is the best biomarker for liver cancer?
- What is the best biomarker for HCC?
- How are tumor biomarkers used to diagnose and treat cancer?
- What is hepatocellular carcinoma HCC?

Feedback

Update on Biomarkers of Hepatocellular Carcinoma ...

https://www.sciencedirect.com/science/article/pii/S1542356513017898

Feb 01, 2015 · This allows the discovery of novel hepatocellular carcinoma (HCC) biomarkers, including **DNA-fusion genes**, **genetic mutations** and **epigenetic** changes, **messenger RNA**, **noncoding RNA** including microRNAs (miRNAs), long **noncoding** RNAs and other species, **proteins** and **posttranslational protein modifications** (eg, **phosphorylation**), **metabolites**, and antibodies.

Cited by: 120 Author: Roongruedee Chaiteerakij, Roongruedee C...
Publish Year: 2015

Liquid biopsies for hepatocellular carcinoma

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
- 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

The early stages of the disease do not present any symptoms but in the later stages the symptoms which are noted are as follows:

- Upper abdominal pain
- Weight loss
- Jaundice
- Fluid in the abdomen
- Liver failure

Treatments

Treatment option which is employed depends on the stage of the condition, size and location of the tumor.

Medication

- Chemotherapy: Therapy where the drugs are used to kill the cancer cells.
5-Fluorouracil · Capecitabine · Irinotecan · Oxaliplatin
- Target drug delivery: Drugs which are target oriented help in slowing down the progression of the disease.
Sorafenib