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Multiple “Omics” data-based biomarker screening for hepatocellular carcinoma diagnosis

Liu XN *et al.* Multiple “Omics” biomarkers for HCC diagnosis

Xiao-Na Liu, Dan-Ni Cui, Yu-Fang Li, Yun-He Liu, Gang Liu, Lei Liu

Abstract

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Biomarkers for the early diagnosis of hepatocellular carcinoma

www.ncbi.nlm.nih.gov › ... › v.21(37); 2015 Oct 7

Oct 07, 2015 · Although the **prognosis** of patients with HCC is generally poor, the 5-year survival rate is > 70% if patients are **diagnosed** at an early stage. However, early **diagnosis** of HCC is complicated by the coexistence of inflammation and **cirrhosis**. Thus, novel **biomarkers** for the early **diagnosis** of HCC ...

Cited by: 86

Author: Nobuhiro Tsuchiya, Yu Sawada, Itaru End...

Publish Year: 2015

A Bayesian screening approach for hepatocellular carcinoma ...

onlinelibrary.wiley.com/doi/10.1111/biom.12717/abstract

A Bayesian **screening** approach for hepatocellular carcinoma using **multiple** longitudinal **biomarkers**.

Authors: Nabihah Tayob, Corresponding author. ... we incorporate a second blood-based **biomarker**, des ... Trial is a valuable source of **data** to study **biomarker screening** for HCC. We assume the trajectories of AFP and DCP follow a joint hierarchical ...

Author: Nabihah Tayob, Francesco Stingo, Ki...

Publish Year: 2018

A Bayesian screening approach for hepatocellular carcinoma ...

<https://www.pubfacts.com/detail/28482112/A-Bayesian-screening...> ▾

Mar 01, 2018 · A Bayesian **screening** approach for hepatocellular carcinoma using **multiple** longitudinal **biomarkers**. Authors: Nabihah Tayob ... we incorporate a second blood-based **biomarker**, des'y carboxy-prothrombin (DCP), that has shown potential as a **screening** marker for HCC. ... Trial is a valuable source of **data** to study **biomarker screening** for HCC. We ...

[PDF] Development of omics-based tests for clinical use: the ...

<https://www.fda.gov/downloads/MedicalDevices/NewsEvents/Workshops...>

challenge of achieving statistical robustness and clinical utility ... **omics/biomarker-based** tests Pre-diagnosis Pre-treatment ... treatment Diagnosis •Risk •**Screening** •Early detection

A Bayesian screening approach for hepatocellular carcinoma ...

<https://reference.medscape.com/medline/abstract/28482112> ▾

Serum α -Fetoprotein (AFP) is a widely used diagnostic biomarker, but it has limited sensitivity and is not elevated in all HCC cases so, we incorporate a second blood-based biomarker, des'y carboxy-prothrombin (DCP), that has shown potential as a screening marker for HCC. The data from the Hepatitis C Antiviral Long-term Treatment against Cirrhosis (HALT-C) Trial is a valuable source of data to study ...

Power of metabolomics in diagnosis and biomarker ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.26130>



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Biomarkers for the early diagnosis of hepatocellular carcinoma

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4588079>

Oct 07, 2015 - Core tip: **Hepatocellular carcinoma** (HCC) is the fifth most common **cancer** and the second leading cause of **cancer**-related death worldwide. The poor prognosis of HCC is due to the fact that diagnosis is often made at a late stage in disease development. Thus, the identification of **biomarkers** for diagnosis at an early stage may result in significant benefits.

Cited by: 101 Author: Nobuhiro Tsuchiya, Yu Sawada, Itaru End...

Publish Year: 2015

Current biomarkers for hepatocellular carcinoma ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4342597>

Feb 27, 2015 - Core tip: The aim of this review is to provide an overview on current invasive and non-invasive **biomarkers** in **hepatocellular carcinoma** (HCC) with respect to their use in surveillance, diagnosis and prediction of prognosis. We also give an outlook on the future development of HCC **biomarker** research with a focus on microRNA.

Cited by: 25 Author: Kerstin Schütte, Christian Schulz, Alexan...

Publish Year: 2014

A Bayesian screening approach for hepatocellular carcinoma ...

onlinelibrary.wiley.com/doi/10.1111/biom.12717/abstract

May 08, 2017 - Advanced **hepatocellular carcinoma** (HCC) has limited treatment options and poor survival, therefore early detection is critical to improving the survival of patients with HCC. Current guidelines for high-risk patients include ultrasound screenings every six months, but ultrasounds are operator dependent and not sensitive for early HCC.

Cited by: 1 Author: Nabihah Tayob, Francesco Stingo, Kimâ€¦

Publish Year: 2018

Recently introduced biomarkers for screening of ...

<https://link.springer.com/article/10.1007/s12072-012-9374-3> ▾

May 12, 2012 - Recently introduced **biomarkers** for screening of **hepatocellular carcinoma**: a systematic review and meta-analysis. Authors; ... Fransvea E, Trerotoli P, et al. Clinical validation of combined serological **biomarkers** for improved **hepatocellular carcinoma** diagnosis in 961 patients.

Cited by: 61 Author: Caroline D. M. Witjes, Susanna M. van A...

Publish Year: 2013



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Biomarkers for hepatocellular carcinoma: progression in ...

<https://biomarkerres.biomedcentral.com/articles/10.1186/2050-7771-1-10> ▾

Feb 05, 2013 · **Hepatocellular carcinoma** (HCC) is one of the most common malignant tumors in the world. Currently, surgical resection, liver transplantation, and local ablation are considered curative therapeutic practices for HCC. The diagnosis of HCC without pathologic confirmation is achieved by analyzing serum alpha-fetoprotein (AFP) levels combined with imaging techniques, including ...

Published in: **Biomarker research** · 2013

Authors: Kai Zhu · Zhi Dai · Jian Zhou

Affiliation: Fudan University

About: **Hepatocellular carcinoma** · Cancer research · Bioinformatics

Current biomarkers for hepatocellular carcinoma ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4342597>

Feb 27, 2015 · Core tip: The aim of this review is to provide an overview on current invasive and non-invasive **biomarkers** in **hepatocellular carcinoma** (HCC) with respect to their use in surveillance, diagnosis and prediction of prognosis. We also give an outlook on the future development of HCC **biomarker** research with a focus on microRNA.

Cited by: 25 Author: Kerstin Schütte, Christian Schulz, Alexan...

Publish Year: 2014

Epigenetics - Role as Biomarker in Cancer Diagnosis

<https://www.omicsonline.org/open-access/epigenetics--role-as-biomarker-in-cancer...> ▾

Dec 05, 2017 · **Biomarkers** should be thoroughly investigated for diagnosing the disease accurately, and to aid in the selective targeted therapies to improve the disease outcome. This review gives a brief description on various **biomarkers** for diagnosis, prognosis and therapeutic purposes, and how the epigenetic **biomarkers** act as **cancer biomarker** effectively.

Cited by: 3 Author: Manasa P

Publish Year: 2016 Author: Manasa P

Power of metabolomics in diagnosis and biomarker ...

[https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.26130@10.1002/\(ISSN\)1527...](https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.26130@10.1002/(ISSN)1527...)

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: 155 Author: Xijun Wang, Aihua Zhang, Hui Sun

Publish Year: 2013

Hepatocellular carcinoma

Medical Condition

Image for 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

Diagnosis 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 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