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Basic Study

Integrative analysis of layers of data in hepatocellular carcinoma reveals pathway dependencies

Mamatha Bhat, Elisa Pasini, Chiara Pastrello, Sara Rahmati, Marc Angeli, Max Kotlyar, Anand Ghanekar, Igor Jurisica

Abstract

BACKGROUND

The broader use of high-throughput technologies has led to improved molecular characterization of hepatocellular carcinoma (HCC).

Match Overview

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Pathway-Based Integrative Analysis of Metabolome and ...

Author: Boram Kim, Eun Ju Cho, Jung-Hwan Y... Publish Year: 2020

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Interdisciplinary Program in Bioinformatics, Seoul National University, Seoul 08826, Korea; ...

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Pathway-Based Integrative Analysis of Metabolome ... 翻译此页

Author: Boram Kim, Eun Ju Cho, Jung-Hwan Y... Publish Year: 2020

Aberrations of the human microbiome are associated with diverse liver diseases, including **hepatocellular carcinoma** (HCC). Even if we can associate specific microbes with particular diseases, it is difficult to know mechanistically how the microbe contributes to the pathophysiology. Here, we sought to reveal the functional potential of the HCC-associated microbiome with the human metabolome ...

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Identification of cancer subtypes plays an important role in revealing useful insights into disease pathogenesis and advancing personalized therapy. The recent development of high-throughput sequencing technologies has enabled the rapid collection of multi-platform genomic **data** (e.g., gene expression, miRNA expression, and DNA methylation) for the same set of tumor samples.

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In this paper, we propose multi-omic **integrative analysis** (MOTA), a network-based method that uses

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cancers Article **Pathway-Based Integrative Analysis** of Metabolome and Microbiome **Data** from **Hepatocellular Carcinoma** and Liver Cirrhosis Patients Boram Kim 1, Eun Ju Cho 2, Jung-Hwan Yoon 2,...

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cancer mortality rate and has limited therapeutic op-tions. We analyzed 363 **hepatocellular carcinoma** (HCC) cases by whole-exome sequencing and DNA copy number analyses, and we analyzed 196 HCC...

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