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Hepatocellular Carcinoma Cellular And Molecular

Hepatocellular carcinoma (HCC) is one of the most common and lethal malignant tumors worldwide. HCC is a complex process that is associated with several etiological factors, which in turn result in aberrant activation of different cellular and molecular pathways and the disruption of balance between activation and inactivation of protooncogenes and tumor suppressor genes, respectively.

Hepatocellular Carcinoma: Molecular Mechanisms and ...

With advances in cancer biology and molecular and genetic profiling, a number of different mechanisms involved in the development and progression of HCC have been identified. Despite the advances in this area, the molecular pathogenesis of hepatocellular carcinoma is still not completely understood.

Molecular pathogenesis of hepatocellular carcinoma and

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Genomic profiling of hepatocellular carcinoma (HCC) tumors has elucidated recurrent molecular aberrations common or specific to disease etiology, patient race or geographic regions, allowing the classification of HCC tumors into subclasses sharing similar molecular and clinical characteristics.

Molecular classification of hepatocellular carcinoma ...

Development of hepatocellular carcinoma (HCC) is very complex and occurs through a multistep biological process of malignant transformation of normal hepatocytes in which various factors, including genetic and epigenetic alterations, regulation of oxidative stress, inflammation, and immunity are involved.

Molecular mechanism of hepatocellular carcinoma

Hepatocellular carcinoma (HCC) is the most common primary malignant tumor that accounts for ~80 % of all liver cancer cases worldwide. It is a multifactorial disease caused by a variety of risk factors and often develops in the background of underlying cirrhosis. A number of cellular phenomena, such as tumor

Cellular and molecular mechanisms of hepatocellular ...

The most common molecular anomalies in this malignancy are mutations in the TERT promoter, TP53, CTNNB1, AXIN1, ARID1A, CDKN2A and CCND1 genes. PTEN loss at the protein level is also frequent. Genomic portfolios stratify by risk factors as follows: (i) CTNNB1 with alcoholic cirrhosis; and (ii) TP53 with hepatitis B virus-induced cirrhosis.

The biology of Hepatocellular carcinoma ... - Molecular Cancer

From Cirrhosis to Hepatocellular Carcinoma: New Molecular Insights on Inflammation and Cellular Senescence Sequential progression from chronic liver disease to fibrosis and to cirrhosis culminates in neoplasia in hepatocellular carcinoma (HCC).

From Cirrhosis to Hepatocellular Carcinoma: New Molecular ...

Hepatocellular carcinoma (HCC) is a complex disorderly state involving multiple events and etiologies, typically viral hepatitis and metabolic syndrome. Intriguingly, the incidence of HCC in men is four times that in women.

From Cirrhosis to Hepatocellular Carcinoma: New Molecular ...

Hepatocellular carcinoma (HCC) is the third most frequent cause of cancer-related death. The immune-rich contexture of the HCC microenvironment makes this tumour an appealing target for...

Immune-based therapies for hepatocellular carcinoma | Oncogene

Hepatocellular carcinoma is known to be a common predominant cancer in adults, especially in eastern countries. Immune response and cancer-associated fibroblasts (CAFs) have significant influences on tumor development. However, the interaction between CAFs and immunotherapy is unclear in hepatocellular carcinoma.

Cellular and Molecular Biology

Hepatocellular carcinoma (HCC) is the most common type of primary liver cancer. Hepatocellular carcinoma occurs most

often in people with chronic liver diseases, such as cirrhosis caused by hepatitis B or hepatitis C infection.

Hepatocellular carcinoma - Overview - Mayo Clinic

Hepatocellular carcinoma (HCC), the main type of liver cancer, is one of the most common cancers and is a leading cause of cancer-related death worldwide [1]. Despite emerging improvements in the diagnosis and treatment of HCC, the prognosis is still poor [2].

Exosome-mediated secretion of LOXL4 ... - Molecular Cancer

Immune cells constitute an important element of tumor tissue, and the amount of immune cell infiltration considerably differs among tumor types and histological subtypes. 1, 2 The recent success of immune checkpoint inhibitors as potential treatments for hepatocellular carcinoma (HCC) 3 has raised interest in the evaluation of local and systemic antitumor immunity.

Landscape of immune microenvironment in hepatocellular ...

Hepatocellular carcinoma (HCC) is the sixth most common malignant tumour, which has posed a heavy health and financial burden worldwide. Due to limited symptoms at the early stage and the limitation in current biomarkers, HCC patients are usually diagnosed at the advanced stage with a pessimistic overall survival rate.

Diagnostic and prognostic value of circular RNAs in ...

Potential Molecular, Cellular and Microenvironmental Mechanism of Sorafenib Resistance in Hepatocellular Carcinoma - PubMed Sorafenib, an orally-available kinase inhibitor, is the only standard clinical treatment against advanced hepatocellular carcinoma.

Potential Molecular, Cellular and Microenvironmental ...

Hepatocellular carcinoma (HCC) is the primary form of liver cancer and is a leading cause of cancer-related mortality worldwide [1]. It is predominantly known to occur in patients suffering from underlying chronic liver disease and cirrhosis.

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Molecular links between non-alcoholic fatty liver disease

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Understanding of the cellular and molecular mechanisms involved in HCC and other forms of liver primary cancer has expanded rapidly in the past several years. 4 These advancements have been fueled by large-scale genomic, transcriptomic, proteomic, and metabolomics studies, which have shown new players and regulatory networks. 138 Transcriptomic profiling of primary human HCC tumors coupled with mechanistic studies in cells and animal models have unveiled novel disease targets that arise in ...

Alternative Splicing in Hepatocellular Carcinoma ...

Hepatocellular carcinoma (HCC) is one of the most lethal human malignancies. Chemotherapeutic agents, such as sorafenib and lenvatinib, can improve the outcomes of HCC patients. Nevertheless, chemoresistance has become a major hurdle in the effective treatment of HCC.

The Underlying Mechanisms of Noncoding RNAs in the ... - Cell

Molecular Mechanisms: Connections Between Nonalcoholic Fatty Liver Disease, Steatohepatitis and Hepatocellular Carcinoma Int J Mol Sci . 2020 Feb 23;21(4):1525. doi: 10.3390/ijms21041525.

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