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Name of Journal: World Journal of Hepatology

Manuscript NO: 58386

Manuscript Type: MINIREVIEWS

Molecular heterogeneity in intrahepatic cholangiocarcinoma

Ahn KS *et al.* Molecular feature of ⁹intrahepatic cholangiocarcinoma

Keun Soo Ahn, Koo Jeong Kang

Abstract

¹⁴Intrahepatic cholangiocarcinoma (iCCA) is a heterogeneous primary liver cancer, and currently there exist only a few options of targeted therapy. Histopathologically, iCCA is sub-classified according to morphology (⁸mass forming type, periductal infiltrating type, and ¹¹intraductal growing type) and histology (small duct type and large duct type). According to different histopathological types, clinical features such as risk factors and prognosis varies. Recent developments in genomic profiling have revealed

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Intrahepatic cholangiocarcinoma (iCCA) is a molecularly heterogeneous hepatobiliary neoplasm with poor prognosis and limited therapeutic options. The incidence of this neoplasm is growing globally.

Author: Agrin Moeini, Agrin Moeini, Daniela Sia, Daniela Sia, Nabeel Bardeesy, Vincenzo Mazzaferro, Josep M. ...

Cited by: 112

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Molecular profiling of intrahepatic and extrahepatic ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4591249

Cholangiocarcinoma is a heterogeneous malignant process, which is further classified into intrahepatic cholangiocarcinoma (ICC) and extrahepatic cholangiocarcinoma (ECC). The poor prognosis of the disease is partly due to the lack of understanding of the disease mechanism.

Cited by: 20 Author: Juan Putra, Francine B. de Abreu, Jason D. ...

Publish Year: 2015

Intrahepatic cholangiocarcinoma: Molecular markers for ...

https://www.sciencedirect.com/science/article/pii/S0960740416302079

Jun 01, 2017 · Cholangiocarcinoma (CCA) is a diverse group of rare but often highly fatal malignancies arising from the biliary tract epithelium. CCA encompasses three distinct anatomic categories, namely intrahepatic (iCCA), perihilar (pCCA) and distal (dCCA) cholangiocarcinoma, all of which demonstrate different clinical, morphologic and epidemiologic features.

Cited by: 21 Author: Amir A. Rahnama-Azar, Allison Weisbrod, ...

Publish Year: 2017

Cholangiocarcinoma Heterogeneity Revealed by Multigene ...

https://pubmed.ncbi.nlm.nih.gov/26717940

Cholangiocarcinoma Heterogeneity Revealed by Multigene Mutational Profiling: Clinical and Prognostic Relevance in Surgically Resected Patients. Mutational gene profiling identified different gene mutations in EH-PCC, IH-PCC, and ICC.

Cited by: 39 Author: Andrea Ruzzenente, Matteo Fassan, Simon...

Publish Year: 2016

Molecular Pathogenesis of Cholangiocarcinoma | BMC Cancer ...

https://bmccancer.biomedcentral.com/articles/10.1186/s12885-019-5391-0

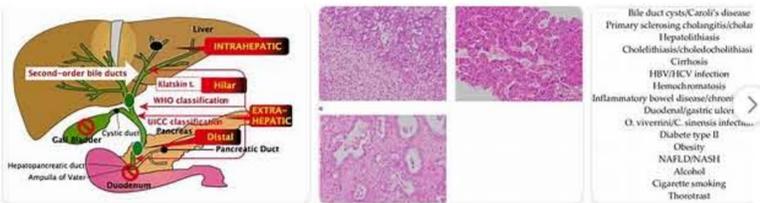
Feb 28, 2019 · The molecular pathogenesis of cholangiocarcinoma: The majority of risk factors for cholangiocarcinoma cause chronic inflammation and/or cholestasis. Inflammatory mediators such as IL-6 and TNFα activate a number of pathways such as JAK-STAT, p38 MAPK and Akt resulting in increased cell growth, survival and proliferation.

Cited by: 12 Author: Peter L. Labib, George Goodchild, Stephen ...

Publish Year: 2019

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Emerging molecular therapeutic targets for cholangiocarcinoma

https://www.sciencedirect.com/science/article/pii/S0168827817301976

Sep 01, 2017 · Cholangiocarcinoma (CCA) is a heterogeneous hepatobiliary malignancy with a dismal prognosis.

Cited by: 80 Author: Sumera Rizvi, Gregory James Gores

Publish Year: 2017

Intrahepatic Cholangiocarcinoma: Genomic Heterogeneity ...

https://ascopubs.org/doi/10.1200/PO.18.00414

PURPOSE Intrahepatic cholangiocarcinoma (IHCCA), a global health problem, is increasing in incidence and has differing etiologies worldwide. Next-generation sequencing (NGS) is rapidly being incorporated into the clinical management of biliary cancers. IHCCA is enriched with actionable mutations, and there are several promising targeted therapies under development. NGS data from Asia, where ...

[PDF] Common Molecular Subtypes Among Asian Hepatocellular ...

https://www.cell.com/cancer-cell/pdf/S1535-6108(17)30205-2.pdf

Intrahepatic cholangiocarcinoma (ICC) and hepatocellular carcinoma (HCC) are clinically disparate primary liver cancers with etiological and biological heterogeneity. We identified common molecular subtypes linked to similar prognosis among 199 Thai ICC and HCC patients through systems integration of genomics, transcriptomics, and metabolomics.

Comprehensive molecular profiling of intrahepatic ...

https://translational-medicine.biomedcentral.com/...

Jul 06, 2020 · The genomic alterations of intrahepatic cholangiocarcinoma (ICC) in the Chinese population have not been fully revealed. Molecular profiling may provide a reference for clinical management, especially targeted therapy.

Molecular perturbations in cholangiocarcinoma: Is it time ...

https://onlinelibrary.wiley.com/doi/full/10.1111/liv.14085

CCA is highly heterogeneous not only in initiation and location but in progression as well, making it difficult to categorize CCA into distinct molecular subtypes. It is apparent that our current approaches to CCA are lacking as evidenced by the continued poor survival rates and limited treatment options.

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Molecular heterogeneity in intrahepatic cholangiocarcinoma



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Intrahepatic cholangiocarcinoma remains a **highly heterogeneous malignancy** that has eluded effective patient stratification to date. The extent to which such heterogeneity can be influenced by individual driver mutations remains to be evaluated.

Author: Chirag Nepal, Colm J. O'Rourke, Douglas V.N.P. Oliveira, Andrzej Taranta, Steven Shema, Prson Gautam...

Cited by: 27

Publish Year: 2018

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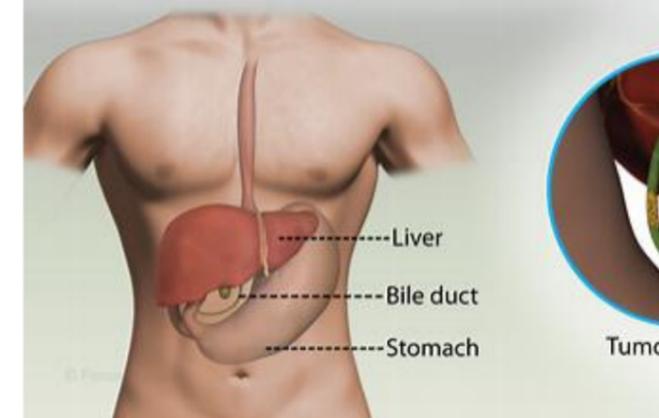
www.ncbi.nlm.nih.gov/pubmed/29278425

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Bile Duct Cancer

Medical Condition

Cancer that affects the bile duct



A cancer that begins in the bile duct, which carries bile and digestive fluids from the liver.