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Molecular Advances in Pancreatic Cancer: A Genomic, Proteomic a

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Molecular Diagnostics and Treatment of Pancreatic Cancer ...

<https://www.sciencedirect.com/book/9780124081031>

Genomic analysis of pancreatic cancer and other solid tumors has revealed that cancer is a proteomic network disease at the functional level. Protein pathway activation is measured by posttranslational modifications such as phosphorylation that control cellular signaling, and these events are not effectively measured by DNA or RNA analysis alone.

Biomarkers for pancreatic cancer: Recent achievements in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4188889>

Oct 07, 2014 · In this review, the most recent applications of the omics approaches (proteomics, genomics and metabolomics) for the identification of biomarkers for pancreatic cancer will be presented, with particular regard for the statistical methods adopted for their identification, focusing especially on exploratory biomarkers.

Cited by: 18

Author: Emilio Marengo, Elisa Robotti

Publish Year: 2014

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What is cancer proteomics?

What is the proteome of a cancer cell?

Pancreatic Cancer

Medical Condition

Cancer of pancreas, an organ which is behind the lower part of the stomach.

📊 Rare (Fewer than 200,000 cases per year in US)

🏥 Often requires lab test or imaging

👨‍⚕️ Treatment from medical professional advised

🕒 Can last several months or years

The exact cause of pancreatic cancer is unknown. Risk factors include diabetes, chronic pancreatitis and stomach ulcer. In the early stage, it is asymptomatic. Common symptoms at later stages are weight loss and abdominal pain. Treatment includes surgeries and other therapies.

Symptoms

Early stage of pancreatic cancer may be asymptomatic. Symptoms will show up only when the disease progresses and include:

- Digestive problems, including abnormal stools, nausea or vomiting
- Pain in the upper abdomen and back
- Loss of appetite
- Sudden weight loss
- Jaundice (yellowing of the skin and whites of the eyes)
- Very high sugar levels in diabetic patients

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PA-05-040: Molecular Approaches to Diet and Pancreatic ...

<https://grants.nih.gov/grants/guide/pa-files/PA-05-040.html>

Nutritional **genomic**, epigenomic, **proteomic**, and **metabolomic** approaches to examining energy metabolism and/or bioactive food component activity in relevant **pancreatic cancer** models; **Genetic** polymorphisms in energy metabolism that affect risk of pancreas **cancer** and interact with diet;

Recent advances in precision medicine for pancreatic ...

<https://onlinelibrary.wiley.com/doi/10.1002/ags3.12436>

Feb 03, 2021 · Recent **advances** in biotechnology enable us to execute comprehensive **genomic**, transcriptomic, **proteomic**, and **metabolomic** analyses rapidly and cheaply. Such comprehensive gene expression studies have recognized subtypes of PDAC with biological and ...

Identifying metabolomic risk factors for pancreatic cancer

<https://cdas.cancer.gov/approved-projects/689>

Oct 22, 2012 · We hypothesize that metabolites and **metabolomic** profiles will be associated with **pancreatic cancer** risk. We propose performing a nested case-control study using prediagnostic serum samples from 300 incident **pancreatic cancer** cases and 300 matched controls within the intervention arm of PLCO study.

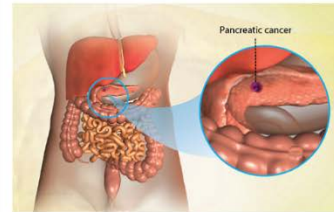
Proteomic and genomic profiling of pancreatic cancer ...

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Feb 15, 2019 · Pancreatic **cancer** remains the most fatal human tumor type. The aggressive tumor biology coupled with the lack of early detection strategies and effective treatment are major reasons for the poor survival rate. Collaborative research efforts have been devoted to understand **pancreatic cancer** at the **molecular** level. Large-scale **genomic** studies have generated important insights into the **genetic** ...

Pancreatic Cancer

Medical Condition




Cancer of pancreas, an organ which is behind the lower part of the stomach. This causes abdominal pain, jaundice, itchy skin, fatigue and weight loss.

-  Rare (Fewer than 200,000 cases per year in US)
-  Often requires lab test or imaging
-  Treatable by a medical professional
-  Can last several months or years

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Srujan Rajesh, Michael J Cox, Francois Runau

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Cited by: 23

Author: Daniel Ansari, William Torén, Qimin Zhou,...

Publish Year: 2019

Estimated Reading Time: 9 mins

Molecular Characterization of Advanced Colorectal Cancer ...

<https://www.frontiersin.org/articles/10.3389/fmolb.2021.687229> ▾

Jul 27, 2021 · The treatment effects of **invasive CRC** will depend on tumor location, stage, and underlying **molecular** changes including genetic and **metabolic** alterations. Comprehensive **molecular** characterization studies of **advanced CRC**, particularly combined **proteomic** and **metabolomic** ...

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Author: Hiromitsu Hayashi, Takaaki Higashi, T...

Publish Year: 2021

Characterizing the Metabolomic Effects of Pancreatic Cancer

<https://www.sciencedirect.com/science/article/pii/S09780124081031000145>