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Promising xenograft animal model recapitulating the features of human pancreatic cancer

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Abstract

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[Pancreatic cancer: Animal model and molecular biology](#)

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It was evaluated the anti-tumor activity of type I IFNs in 9 different **human pancreatic** adenocarcinoma cell lines. There was a wide variation in responsiveness to IFNs amongst the panel of **human pancreatic cancer** cell lines. IFN-beta is a significantly more potent growth inhibitor in **human pancreatic cancer** cell lines than IFN-alpha.

[Animal models of pancreatic cancer and their application ...](#)

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Pancreatic cancer GEMMs for **preclinical testing** of new treatments: immunotherapies. As described in this review, **pancreatic cancer** has numerous **mouse models** that **recapitulate** the initiation, progression, pathology, and molecular aberrations seen in **human PDAC**.

Cited by: 3

Author: Judith Weidenhofer, Emily K Colvin, Daniell...

Publish Year: 2016

[Animal models for modeling pancreatic cancer and novel ...](#)

<https://www.tandfonline.com/doi/abs/10.1080/17460441.2019.1566319>

Available **genetically engineered mouse models (GEMM)** of **pancreatic cancer** faithfully **recapitulate** most **key phenotypic features of human pancreatic cancer**. **Advanced GEMMs** are developed to **model** specific genetic conditions and to better understand the clinical relevance of **low-frequency driver mutations**.

Author: Savita Bisht, Georg Feldmann

Publish Year: 2019

[Models for pancreatic cancer: Giant steps forward, miles ...](#)

<https://www.sciencedirect.com/science/article/pii/S1740675705000149>



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[PDF] Relevance of Animal Models of Pancreatic Cancer and ...

[https://www.gastrojournal.org/article/S0016-5085\(13\)00190-X/pdf](https://www.gastrojournal.org/article/S0016-5085(13)00190-X/pdf)

animal models recapitulate the human disease with pre-cision. This **realization** has engendered a vigorous search for **better models**, especially genetically engineered **mod-els**. The key to progress lies in a sound understanding of the strengths, weaknesses, and applicability of the **models** in the investigator's repertoire. **Animal Models** in Pancreatic Cancer

Challenges and advances in mouse modeling for human ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3871863>

For example, a **subcutaneous pancreatic xenograft mouse model** has recently been used to validate the in vitro synergistic effects of combining a **first-line agent** for **pancreatic cancer**, gemcitabine, with a **monoclonal antibody TRA-8** to **human death receptor 5** expressed on **human pancreatic cancer cells**.

Cited by: 18

Author: Wanglong Qiu, Gloria H. Su

Publish Year: 2013

Molecular Imaging of Pancreatic Cancer in an Animal Model ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3651919>

Orthotopic **Human Pancreatic Cancer Xenograft Model**. The **pancreatic tumor model** was established by injecting 5×10^6 of MIA PaCa-2 cells into the **pancreas** of the 6- to 8-week-old female nude mice (Taconic, Hudson, NY) using a surgical procedure approved by the Institute of **Animal** Use Committee of Emory University. Orthotopically xenografted ...

Cited by: 175

Author: Lily Yang, Hui Mao, Zehong Cao, Y. Andr...

Publish Year: 2009

A new aggressive xenograft model of human colon cancer ...

<https://peerj.com/articles/9045> ▼

Jun 03, 2020 · Background Colorectal **cancer** is the second leading cause of **cancer** death. Almost half of the patients present recurrence within 5 years after the treatment of the primary tumor, the majority, with metastasis. On the other hand, in the search for new **animal models** that simulate metastatic **cancer**, it has been suggested that fibroblasts immersed in the peritumoral stroma (**cancer-associated** ...

Author: Ester Fernando-Macias, Maria Teresa...

Publish Year: 2020