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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 63433

Manuscript Type: REVIEW

Modulation of cell physiology under hypoxia in pancreatic cancer

Matias Estaras, Antonio Gonzalez

Abstract

In solid tumors, the development of vasculature is, to some extent, slower than the proliferation of the different types of cells that form the tissue, both cancer and stroma cells. As a consequence, the oxygen availability is compromised and the tissue evolves towards a condition of hypoxia. The presence of hypoxia is variable depending on



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<https://pubmed.ncbi.nlm.nih.gov/22869720>

Our results indicate that MUC1 acts as a modulator of the hypoxic response in pancreatic cancer cells by regulating the expression/stability and activity of hypoxia-inducible factor-1 α (HIF-1 α). MUC1...

Cited by: 156

Author: Nina V. Chaika, Teklab Gebregiworgis, Mi...

Publish Year: 2012

CD133 Modulate HIF-1 α Expression under Hypoxia in EMT ...

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Understanding the function of CD133 in cancer aggressiveness provides a novel therapeutic approach to eradicate pancreatic cancer stem cells. CD133 Modulate HIF-1 α Expression under Hypoxia in EMT...

Cited by: 19

Author: Koki Maeda, Qiang Ding, Qiang Ding, Ma...

Publish Year: 2016

Induction, modulation and potential targets of miR-210 in ...

<https://www.ncbi.nlm.nih.gov/pubmed/22672828>

However, little is known about its role in pancreatic cancer (PC). This study aimed to explore the induction and modulation of PC by miR-210 and its potential molecular targets. METHODS: PC cells...

Cited by: 25

Author: Wei-Yun Chen, Wen-Jing Liu, Yu-Pei Zha...

Publish Year: 2012

Synergistic interaction of novel lactate dehydrogenase ...

<https://pubmed.ncbi.nlm.nih.gov/24178759>

Abstract Background: Hypoxia is a driving force in pancreatic-ductal-adenocarcinoma (PDAC) growth, metastasis and chemoresistance. The muscle-isoform of lactate dehydrogenase (LDH-A) constitutes ...

Cited by: 106

Author: M Maftouh, A Avan, R Sciarrillo, Carlotta ...

Publish Year: 2014

Hypoxia enhances the interaction between pancreatic ...

<https://www.ncbi.nlm.nih.gov/pubmed/22795353>

Hypoxia enhances the interaction between pancreatic stellate cells and cancer cells via increased secretion of connective tissue growth factor. Eguchi D(1), Ikenaga N, Ohuchida K,...

Modulation of cell physiology under hypoxia in pancreatic cancer



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Pancreatic cancer (PC) remains one of the most extremely lethal malignancies worldwide due to late diagnosis and early metastasis, with a 1-year overall survival rate of approximately 20%. The hypoxic...

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Author: Zhen Tan, Jin Xu, Bo Zhang, Si Shi, Xianj...

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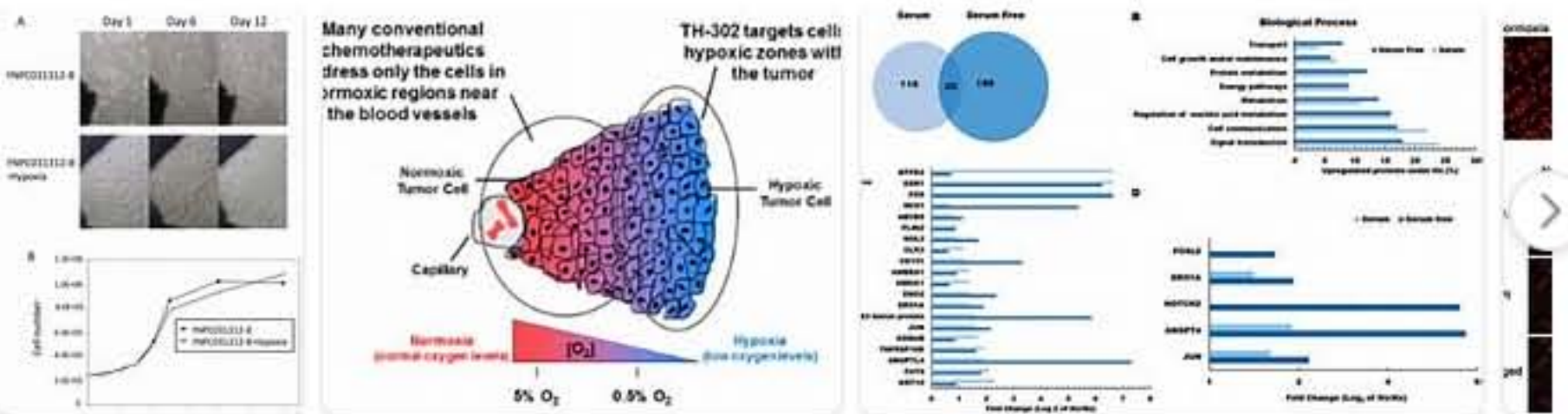
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Pancreatic cancer (PC) remains one of the most extremely lethal malignancies worldwide due to late diagnosis and early metastasis, with a 1-year overall survival rate of approximately 20%. The hypoxic...

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Hypoxia stimulates pancreatic stellate cells ... - Physiology

https://journals.physiology.org/doi/10.1152/ajpgi.90356.2008

Oct 01, 2008 · pancreatic cancer is characterized by excessive desmoplastic reaction and by a hypoxic microenvironment within the solid tumor mass, as proven by the needle measurement of intratumoral O ...

Cited by: 244 Author: Atsushi Masamune, Kazuhiro Kikuta, Takas...

Publish Year: 2008

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

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 depends on the location of tumor, age and general health. Treatment includes surgery, chemotherapy and radiation.

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

Treatments

Treatment depends on the location of tumor, age and general health. Treatment includes surgery, chemotherapy and radiation.

Medication

- Chemotherapy: Drugs, either taken orally or through injection, kills the cancer cells. In advanced stages, it only helps control growth of cancer cells.