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The **CD44** + **gastric cancer cells** showed the **stem cell** properties of self-renewal and the ability to form differentiated progeny and gave rise to **CD44** − **cells**. Also, the **CD44** + **gastric cancer cells** showed increased resistance for chemotherapy- or **radiation-induced cell death**.

Cited by: 177 **Author:** Yongmin Yan, Yongmin Yan, Xiangsheng ...
Publish Year: 2015

The hypoxic microenvironment: A determinant of cancer ...

https://onlinelibrary.wiley.com/doi/full/10.1002/bies.201670911

However, it seems that neither HIF-1α nor **HIF-2α** are involved in the hypoxia-induced expansion of **CD44**+/CD24− **breast cancer stem** pool in ER-negative **breast cancer**. It has been proposed that PHD3 leads to NF-κB **activation** in a HIF-independent manner 122 .

Cited by: 78 **Author:** Amancio Carnero, Matilde Lleonart
Publish Year: 2016

Concise Review: Emerging Role of CD44 in Cancer Stem Cells ...

https://stemcellsjournals.onlinelibrary.wiley.com/doi/full/10.5966/sctm.2015-0048

The internalization of HA by **cancer cells** through highly expressed **CD44 receptors** enhances specific delivery of drugs, including chemical drugs, siRNA, shRNA, and microRNA [92, **93**], to **cancer cells**, particularly CD44-positive and drug-resistant **CSCs**, **via conjugation** to HA or entrapment in **HA-modified nanoparticles** or micelles.

Cited by: 177 **Author:** Yongmin Yan, Yongmin Yan, Xiangsheng ...
Publish Year: 2015

Role of hypoxia-inducible factors in breast cancer metastasis

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4659402

Hypoxia-inducible factors & **breast cancer**. Similar to their normal **cell** counterparts, **cancer cells** respond to decreased oxygen availability by increasing the activity of the hypoxia-inducible factors (HIFs), HIF-1 and HIF-2 [].HIF-1 functions as a heterodimeric protein composed of an O 2-regulated HIF-1α subunit and a constitutively expressed HIF-1β subunit [].

Cited by: 133 **Author:** Daniele M Gilkes, Gregg L Semenza
Publish Year: 2013

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HIF-2α regulate CD44 to promote cancer stem cell activation in triple-negative breast cancer *via* PI3K/AKT/mTOR

Jie Bai, Wei-Bin Chen, Xiao-Yu Zhang, Xiao-Ning Kang, Li-Jun Jin, Hui Zhang, Zun-Yi Wang

Abstract

BACKGROUND

Breast cancer is a common malignant tumor that seriously threatens women's health. Breast cancer stem cell (CSC)-like cell population may be the main factor for breast cancer metastasis. Therefore, targeted therapy for CSCs has great potential significance. Hypoxia-inducible factor is a transcription factor widely expressed in tumors. Studies have shown that down-regulation of hypoxia signaling pathway inhibits tumor stem cell self-renewal and increases the sensitivity of stem cells to radiotherapy and chemotherapy mediated by hypoxia-inducible factor-2α (HIF-2α). However, the specific mechanism remains unclear and further research is necessary.

AIM

To investigate the effect of HIF-2α down-regulation on stem cell markers, microsphere formation and apoptosis in breast cancer cell line MDA-MB-231 under hypoxia and its possible mechanism.

METHODS

Immunohistochemistry was used to detect the expression of HIF-2α and CD44 in triple-negative breast cancer (TNBC) and non-TNBC tissues. Immunofluorescence double-labeling was applied to detect the Co-expression of HIF-2α and CD44 in MDA-MB-231 cells and MCF-7 cells. HIF-2α was silenced by RNA interference, and the expression of CD44 and transfection efficiency were detected by real-time fluorescent quantitative PCR. Further,

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Estrogen-dependent downregulation of hypoxia-inducible ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5058746

May 24, 2016 · **High HIF-2α expression** is a negative prognostic factor in **HER2 positive breast cancer**. To study the role of **HIF-2α in breast tumorigenesis**, two tissue microarrays containing **invasive breast cancer tumor** samples derived from 690 **breast cancer** patients with primary **breast cancer** were immunostained for **HIF-2α**.

Cited by: 8 **Author:** Jerry H. Fuady, Katrin Gutsche, Sara San...
Publish Year: 2016

Hypoxia-inducible factors in cancer stem cells and ...

https://www.cell.com/trends/pharmacological-sciences/fulltext/S0165-6147(15)00043-7

An important paradigm shift in **cancer** research has been the realization that **cancer** tissue is not a homogenous population of clonally expanded **cancer cells** [1–3]. It has been established in multiple **cancer** types that **cancer cells** are hierarchical: while a small subset of CSCs have a high capacity for self-renewal and are responsible for initiating **cancer**, the bulk of **cancer cells** lack self ...

Cited by: 71 **Author:** Gong Peng, Yang Liu, Yang Liu
Publish Year: 2015

HIF-1 regulates CD47 expression in breast cancer cells to ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4653179

Nov 10, 2015 · **Knockdown** of **HIF activity** or **CD47** expression increased the phagocytosis of **breast cancer cells** by bone marrow-derived macrophages. **CD47** expression was increased in mammosphere cultures, which are enriched for **cancer stem cells**, and **CD47 deficiency** led to **cancer stem cell depletion**.

Cited by: 100 **Author:** Huimin Zhang, Huimin Zhang, Haiquan Lu...
Publish Year: 2015

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Jul 01, 2015 · The internalization of HA by **cancer cells** through highly expressed **CD44 receptors** enhances specific delivery of drugs, including chemical drugs, siRNA, shRNA, and microRNA [92, 93], to