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HIF-2 $\alpha$  regulate CD44 to promote cancer stem cell activation in triple-negative bre

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

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4542874>

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-1 $\alpha$  nor HIF-2 $\alpha$  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- $\kappa$ B **activation** in a HIF-independent manner 122 .

Cited by: 78

Author: Amancio Camero, Matilde Leonart

Publish Year: 2016

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

<https://stemcells.journals.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<sub>2</sub>-regulated HIF-1 $\alpha$  subunit and a constitutively expressed HIF-1 $\beta$  subunit [].

Cited by: 133

Author: Daniele M Gilkes, Gregg L Semenza

Publish Year: 2013

# HIF-2 $\alpha$ 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-2 $\alpha$  (HIF-2 $\alpha$ ). However, the specific mechanism remains unclear and further research is necessary.

### AIM

To investigate the effect of HIF-2 $\alpha$  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-2 $\alpha$  and CD44 in triple-negative breast cancer (TNBC) and non-TNBC tissues. Immunofluorescence double-labeling was applied to detect the Co-expression of HIF-2 $\alpha$  and CD44 in MDA-MB-231 cells and MCF-7 cells. HIF-2 $\alpha$  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-2 $\alpha$  expression is a negative prognostic factor in HER2 positive breast cancer. To study the role of HIF-2 $\alpha$  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-2 $\alpha$ .

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](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

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

<https://stemcells.journals.onlinelibrary.wiley.com/doi/full/10.5966/sctm.2015-0048>

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