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BREAST CANCER STEM CELLS: THE ROLE OF SEX STEROID RECEPTORS



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Androgens, in the T47D human **breast cancer cell** line expressing the three sex steroid **receptors**, can also bind PR and upregulate **FASN** expression. However, **FASN induction** was only observed at high androgen concentrations and was inhibited by both RU486 and flutamide, suggesting an ...

Cited by: 8

Author: Henri Rochefort, Dany Chalbos

Publish Year: 2010

Prostate cancer stem cells: the role of androgen and ...

www.ncbi.nlm.nih.gov > ... > [Oncotarget](#) > v.7(1); 2016 Jan 5

Jan 05, 2016 · Accumulating evidence indicates that prostate **cancer stem cells** lack the androgen **receptor** and are, indeed, resistant to androgen deprivation therapy. ... Giraldi T, Migliaccio A, Castoria G, Auricchio F. Targeting rapid action of **sex-steroid receptors** in **breast** and prostate cancers. Front Biosci (Elite ... Lazennec G. Emerging roles ...

Cited by: 21

Author: Erika Di Zazzo, Giovanni Galasso, Pia Gi...

Publish Year: 2016

Inflammation and Sex Steroid Receptors: A Motif ... - cell.com

[https://www.cell.com/cell/fulltext/S0092-8674\(06\)00116-4](https://www.cell.com/cell/fulltext/S0092-8674(06)00116-4)

Although tamoxifen is an effective ER α antagonist in breast cancer cells, it can exert agonistic activity in cells of the uterus, thereby increasing the risk of endometrial cancer. It will therefore be interesting to determine if these opposing effects of tamoxifen in vivo can be linked to tissue-specific differences in the number and activation status of local macrophages.

Cited by: 7

Author: Jan J. Brosens, Eric W.-F. Lam, Malcolm...

Publish Year: 2006

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 46740

Manuscript Type: REVIEW

Breast cancer stem cells: The role of sex steroid receptors

Giovannelli P *et al.* Steroid receptors and breast cancer stem cells

8 Pia Giovannelli, Marzia Di Donato, Giovanni Galasso, Erika Di Zazzo, Nicola Medici, Antonio Bilancio, Antimo Migliaccio, Gabriella Castoria

Abstract

Breast cancer (BC) is the most common cancer among women and current available

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Sex steroid hormones play a major role as **tumor promoters** in both breast and prostate cancers to stimulate DNA replication. Androgens and progesterone are also involved in the development of the lipogenic phenotype of cancer cells via the **induction** of proteins and enzymes such as FASN required for their autonomous nutrition.

The Role of Sex Steroid Receptors on Lipogenesis in Breast ...

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Steroid Hormones, Steroid Receptors, and Breast Cancer ...

https://www.researchgate.net/publication/280999588_Steroid_Hormones_Steroid_Receptors...

Estrogen receptor α (ER α) and progesterone receptors (PRs) play a central role in regulating both postnatal development of the mammary gland and breast cancer by promoting proliferation of ...

The role of sex steroid receptors on lipogenesis in breast ...

https://www.academia.edu/28193724/The_role_of_sex_steroid_receptors_on_lipogenesis_in... ▾

However, cells cannot multiply in the absence of Androgens, in the T47D human breast cancer cell line fatty acids which are generally provided by the circulation in expressing the three sex steroid receptors, can also bind PR normal but not in most cancer cells.



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Sex steroid hormones play a major role as **tumor promoters** in both breast and prostate cancers to stimulate DNA replication. Androgens and progesterone are also involved in the development of the lipogenic phenotype of cancer cells via the induction of proteins and enzymes such as FASN required for their autonomous nutrition.

The Role of Sex Steroid Receptors on Lipogenesis in Breast ...

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Is this answer helpful?

(PDF) The role of steroid hormones in breast cancer stem cells

https://www.researchgate.net/publication/282043829_The_role_of_steroid_hormones_in...

Breast cancer stem cells (BCSCs) are potent tumor-initiating cells in breast cancer, the most common cancer among women. BCSCs have been suggested to play a key role in tumor

The Role of Sex Steroid Receptors on Lipogenesis in Breast ...

https://www.researchgate.net/publication/51494689_The_Role_of_Sex_Steroid_Receptors_on...

The Role of Sex Steroid Receptors on Lipogenesis in Breast and Prostate Carcinogenesis: A Viewpoint. ... MCF-7 breast cancer cells cultured in acidosis (pH 6.5), but not under hypoxia or in the ...

The role of sex steroid receptors on lipogenesis in breast ...

https://www.academia.edu/28193724/The_role_of_sex_steroid_receptors_on_lipogenesis_in... ▾

However, cells cannot multiply in the absence of Androgens, in the T47D human breast cancer cell line **fatty acids** which are generally provided by the circulation in expressing the three sex steroid receptors, can also bind PR normal but not in most cancer cells.

Steroid receptors in human breast cancer - cell.com

[https://www.cell.com/trends/endocrinology-metabolism/fulltext/S1043-2760\(04\)00152-3](https://www.cell.com/trends/endocrinology-metabolism/fulltext/S1043-2760(04)00152-3) ▾

Sep 01, 2004 · Other steroid receptors that might play a role in breast cancer include those for androgens (AR), glucocorticoids (GR), retinoids (RAR and RXR) and vitamin D (VDR). ARs in particular might play a significant role because they are synthesized in normal and malignant breast, where they might antagonize the effects of E during **breast development** [

Cited by: 99

Author: Robert B. Clarke, Elizabeth Anderson, An...

Publish Year: 2004

Mechanisms for estrogen receptor expression in human ...

<https://ehoonline.biomedcentral.com/articles/10.1186/s40164-018-0116-7> ▾

Sep 19, 2018 · Also, mounting evidence demonstrate that **estrogen** and its target **gnc progesterone**