



Targeting cancer stem cells in drug discovery: current state and future perspective



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Therapies targeting cancer stem cells: Current trends and ...

www.ncbi.nlm.nih.gov > ... > [World J Stem Cells](#) > v.7(9); 2015 Oct 26

Oct 26, 2015 - Future challenges should include the increasing of **specificity** and **efficiency** in **targeting cancer stem cells** and avoid toxicity of **normal tissue stem cells**. Induction of CSCs differentiation Traditional **anti-cancer therapies** successfully manage differentiated **cancer cells** ...

Cited by: 112

Author: Denisa L Dragu, Laura G Necula, Coralia ...

Publish Year: 2015

Targeting Cancer Cell Dormancy - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S0165614718302293>

We then analyze the pharmacological **targeting** of **cancer cell dormancy** and **drug-tolerant persister cells** in the context of proliferation and survival targets. ... the slow-cycling or dormant **cells** have been found to resemble **cancer stem cells (CSCs)** 22, ... Concluding Remarks and Future Perspectives.

Cancer stem cells: therapeutic implications and ...

<https://www.sciencedirect.com/science/article/pii/S2211383513000208>

ABCG2 is an important determinant of the side-population (SP) phenotype. SP **cells** show many features of CSCs with regard to self-renewal, lineage capacity, tumorigenicity, and the expression of CSC markers and **stem cell genes**, and can be found in various **tumor cell lines**; thus, SP **cells** ...

Cited by: 90

Author: Lu Han, Sanjun Shi, Tao Gong, Zhirong Z...

Publish Year: 2013

Targeting Cancer Stemness in the Clinic: From Hype to Hope

[https://www.cell.com/cell-stem-cell/fulltext/S1934-5909\(18\)30553-8](https://www.cell.com/cell-stem-cell/fulltext/S1934-5909(18)30553-8) ▼

Saygin et al. discuss the clinical significance of **cancer stem cells (CSCs)** and results of potential **CSC-targeting therapies** in various **cancers**. They highlight barriers to translating cues from pre-clinical

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 46592

Manuscript Type: REVIEW

Targeting cancer stem cells in drug discovery: Current state and future perspectives

Du FY *et al.* Targeting CSCs for thorough cancer treatment

Fang-Yu Du, Qi-Fan Zhou, Wen-Jiao Sun, Guo-Liang Chen

Abstract

In recent decades, cancer stem cells (CSCs) have been increasingly identified in

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Emerging drug discovery approaches for selective targeting ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3204890>

Progress in experimental approaches for **targeting precursor invasive cancer cells**. On the other hand, **activating anti-CD44 antibody** was found to induce terminal differentiation of **human AML stem cells** [33]. **Antibodies targeting CD33**, an antigenic glycoprotein expressed on the surface of AML and leukemic blasts,...

Cited by: 10

Author: Moulay AAlaoui-Jamali, Krikor Bijian, Ger...

Publish Year: 2011

Implications of Cancer Stem Cell Theory for Cancer ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3248810>

Cancer stem cells are able to generate the diverse cells that comprise the **tumor** through continuous self-renewal and differentiation . There is a reliable in **vivo** model often used to evaluate the drug efficacy against cancer stem cells (9, 49, 50). **Immune-deficient mice** are first implanted with human cancer cells or **human primary tumors**.

Cited by: 179

Author: Yanyan Li, Yanyan Li, Max S. Wicha, Ste...

Publish Year: 2011

Targeting cancer stem cells in the clinic: Current status ...

<https://www.sciencedirect.com/science/article/pii/S0163725818300202>

Targeting of cell surface markers (**blue boxes**), cell signaling pathways (**green boxes**), modulation of the immune system (**red box**) and inhibiting **drug efflux pumps** (**purple box**) are alluring methods to either eradicate cancer stem cells or sensitize them to chemotherapy.

Cited by: 11

Author: Stephanie Annett, Tracy Robson

Publish Year: 2018

(PDF) Targeting cancer stem cells in the clinic: Current ...

https://www.researchgate.net/publication/322942379_Targeting_cancer_stem_cells_in_the...

Targeting cancer stem cells in the clinic: **Current status and perspectives**. ... reside in the G0 phase of the **cell cycle** and are thus inherently resistant to **drugs** dependent on the **cell** .

Cancer Stem Cells (CSCs) in melanoma: There's smoke, but ...

onlinelibrary.wiley.com/doi/10.1002/jcp.25796/abstract

Cancer stem cells (CSCs), also called Tumor Initiating Cells (TICs), can be defined as **cancer cells** that



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Emerging drug discovery approaches for selective targeting ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3204890>

In parallel, discovery of alternative **therapeutics** such as **targeting “precursor” metastatic cells** or **“cancer-stem like cells”**, proposed to be present as a rare sub-population of cells with distinct intrinsic invasive capacity and believed to respond poorly to conventional chemotherapy and available targeted agents like **anti-hormones** and **trastuzumab**, are currently under extensive investigations by several ...

Cited by: 10**Author:** Moulay AAlaoui-Jamali, Krikor Bijian, Ger...**Publish Year:** 2011

Targeting cancer stem cells in the clinic: Current status ...

<https://www.sciencedirect.com/science/article/pii/S0163725818300202>

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Targeting cancer stem cells in the clinic: **Current** status and **perspectives**. ... reside in the G0 phase of the **cell** cycle and are thus inherently resistant to **drugs** dependent on the **cell** .

Where is the Future of Drug Discovery for Cancer?: Cell

[https://www.cell.com/cell/fulltext/S0092-8674\(17\)30122-8](https://www.cell.com/cell/fulltext/S0092-8674(17)30122-8)

Feb 09, 2017 · Insofar as drug discovery is concerned, we are in the post-cancer-genome era, where we know the main driver oncogenes. Drugs targeting drivers of common cancers (**B-Raf**, **PIK3CA**, **androgen receptor**, **estrogen receptor**, **Bcl-2**, etc.) have been approved or are in late-stage clinical trials.

Strategies for targeted drug delivery in treatment of ...

https://www.researchgate.net/publication/325034485_Strategies_for_targeted_drug...

Despite advances in treatment modalities, colon **cancer** (CC) is the third most common cause of **cancer**-related death worldwide. Subsequent unfavorable effects owing to toxicity of c