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In an in vivo mouse model of colon cancer, napabucasin effectively blocked spleen and liver metastases and dampened signaling pathways such as c-Myc, β -catenin, NANOG, and Sox2 that implicated in supporting the stemness of CSCs 37. Napabucasin demonstrated encouraging anticancer activity in phase 1 and 2 trials (NCT01325441, NCT02024607, and NCT02983578) against multiple cancers as ...

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Author: Amar Desai, Yan Yan, Stanton L. Gerson

Publish Year: 2019

The role of epigenetic therapies in colorectal cancer ...

<https://www.sciencedirect.com/science/article/pii/S0147027217301423>

Although developments in the **diagnosis** and **therapy** of **colorectal cancer** (CRC) have been made in the last decade, much work remains to be done as it remains the second leading cause of **cancer** death. It is now well established that **epigenetic** events, together with **genetic** alterations, are key events in initiation and progression of CRC.

Cited by: 1

Author: Marina Baretti, Nilofer Saba Azad

Publish Year: 2018

Cancer Stem Cells in Colorectal Cancer: Genetic and ...

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DNA hypomethylation and **colorectal cancer**. The degree of **methylation** of DNA has great **impact** on the process of **carcinogenesis**. Global DNA hypomethylation on their promoter induces expression of **proto-oncogenes** [40]. The global hypomethylation rate of 8–10% has been recorded in **colon adenomas** and adenocarcinomas [41].

Cancer stemness and metastasis: Therapeutic consequences ...

<https://www.sciencedirect.com/science/article/pii/S0959804910001577>

Reversible vs. irreversible changes in cancer stemness and metastasis. By employing more highly immune-compromised recipient animals (NOD-scid IL2R γ null), Quintana and collaborators 4 showed that the relative frequency of melanoma-initiating cells dramatically increased by several orders of magnitude.

Cited by: 181

Author: Joana Monteiro, Riccardo Fodde

Publish Year: 2010

Implications of Mesenchymal Cells in Cancer Stem Cell ...

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Implications of Mesenchymal Cells in Cancer Stem Cell Populations: Relevance to EMT. ... Promotion of EMT and **stemness** by **epigenetic** changes. ... Recent work has identified factors produced and released by the tumor microenvironment that promote EMT and stemness. In colon cancer

Colon cancer stemness as a reversible epigenetic state: Implications for anticancer therapies

Audrey Vincent, Aïcha Ouelkdite-Oumouchal, Mouloud Souidi, Julie Leclerc, Bernadette Neve, Isabelle Van Seuningen

A

Abstract

The recent discovery of cancer cell plasticity, *i.e.* their ability to reprogram into cancer stem cells (CSCs) either naturally or under chemotherapy and/or radiotherapy has changed, once again, the way we consider cancer treatment. If cancer stemness is a reversible epigenetic state rather than a genetic identity, opportunities will arise for therapeutic strategies that remodel epigenetic landscapes of CSCs. However the systematic use of DNA methyltransferase and Histone deacetylase inhibitors, alone or in combination, in advanced solid tumors including colorectal cancers, regardless of their molecular subtypes, does not seem to be the best strategy. In this review, we first summarize the knowledge researchers have gathered on the epigenetic signatures of CSCs with the difficulty of isolating rare populations of cells. We raise questions about the relevant use of currently available epigenetic inhibitors (epidrugs) while the expression of numerous cancer stem cell markers, including three Cluster of

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The Senescence–Stemness Alliance – A Cancer-Hijacked ...

[https://www.cell.com/trends/cell-biology/fulltext/S0962-8924\(18\)30145-4](https://www.cell.com/trends/cell-biology/fulltext/S0962-8924(18)30145-4) ▾

Dec 01, 2018 · Activated oncogenes or anticancer therapies evoke senescent cell-cycle arrest in (pre-)malignant cells, thereby interrupting tumor formation or progression. Physiologically, cellular senescence contributes to embryonic development and tissue regeneration. These observations and the overlap of numerous gene products in senescence and stem cell signaling prompted investigations into whether ...

Cited by: 5

Author: Maja Milanovic, Yong Yu, Clemens A. Sc...

Publish Year: 2018

Epigenetic Modifications as Therapeutic Targets

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3022972>

Epigenetic modifications work with genetic mechanisms to determine transcriptional activity and, while somatically heritable they are also reversible, making them good therapeutic candidates. Epigenetic changes can precede disease pathology and thus are diagnostic indicators for risk, and can act as ...

Cited by: 622

Author: Theresa K Kelly, Daniel D De Carvalho, P...

Publish Year: 2010

Potential of epigenetic therapies in the management of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4529253>

Jul 31, 2015 · Epigenetic therapies can help to resolve different problems of these pathophysiological conditions. Cancer is a complex disease with both genetic and epigenetic origins. The importance of epigenetics in cancer has been recognized, and the field has emerged rapidly in recent years.

Cited by: 24

Author: Victor Valdespino, Patricia M Valdespino

Publish Year: 2015