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Linking stemness with colorectal cancer initiation, progression, and therapy

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Although dedifferentiation is central to tissue repair and **stemness**, this process inherently carries the risk of **cancer initiation**. Consequently, recent research suggests phenotypic plasticity as a new paradigm for understanding **cancer initiation**, **progression**, and resistance to **therapy**.

Inhibition of LEF1-Mediated DCLK1 by Niclosamide ...

clincancerres.aacrjournals.org/content/25/4/1415

Conclusions: Disruption of the LEF1/DCLK1-B axis by niclosamide eradicates **cancer stemness** and elicits therapeutic effects on **colorectal cancer initiation**, **progression**, and resistance. These findings provide a preclinical rationale to broaden the clinical evaluation of niclosamide for the **treatment** of **colorectal cancer**.

Association of Gankyrin and Stemness ... - link.springer.com

https://**link**.springer.com/10.1007/s10620-013-2627-8

In CRC specimens, expression of CD133, a **cancer** stem cell marker, was significantly correlated with gankyrin expression. Gankyrin knockdown decreased the expression of vascular endothelial growth factor (VEGF) and **stemness** factors such as Nanog and Oct-4 in **colorectal cancer** cells.

Cited by: 19 **Author:** Hiromasa Mine, Toshiharu Sakurai, Hirosh...
Publish Year: 2013

IL-22+CD4+ T cells promote colorectal cancer stemness via ...

www.ncbi.nlm.nih.gov › Journal List › HHS Author Manuscripts

May 15, 2014 · IL-22 + CD4 + T cells promote **colorectal cancer stemness** via STAT3 transcription factor activation **and** induction of the methyltransferase DOT1L. ... 2011), our work suggests that DOT1L may be a marker for **colon cancer progression** and targeting this pathway may be meaningful for **colon**

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 46727

Manuscript Type: REVIEW

Linking stemness with colorectal cancer initiation, progression, and therapy

Iyer DN *et al*. Stem cells in colorectal cancer

Deepak Narayanan Iyer, Wai-Yan Sin, Lui Ng

Abstract

The discovery of cancer stem cells caused a paradigm shift in the concepts of origin and development of colorectal cancer. Several unresolved questions remain in this field

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Phenotypic Plasticity: Driver of Cancer Initiation ...

https://www.sciencedirect.com/science/article/pii/S1934590918305472

Jan 03, 2019 · Although dedifferentiation is central to tissue repair and **stemness**, this process inherently carries the risk of **cancer initiation**. Consequently, recent research suggests phenotypic plasticity as a new paradigm for understanding **cancer initiation**, **progression**, and resistance to **therapy**.

Cited by: 8 **Author:** Piyush P.B. Gupta, Ievgenia Pastushenko...
Publish Year: 2019

Cancer stem cells in colorectal cancer from pathogenesis ...

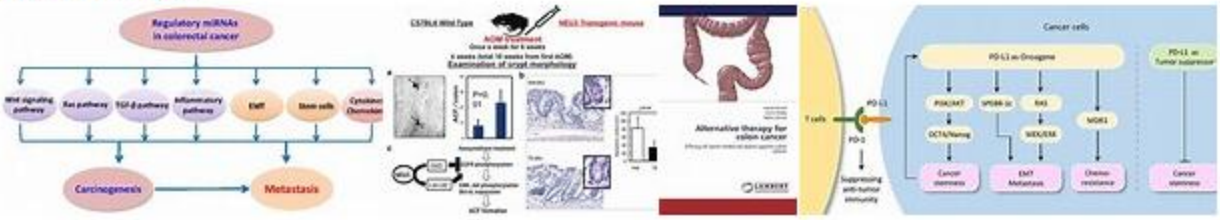
https://**www.ncbi.nlm.nih.gov**/pmc/articles/PMC3921545

Jan 28, 2014 · Core tip: A better understanding of the mechanisms responsible for tumor **initiation** and **progression** is essential for the development of novel, more powerful therapies for **colorectal cancer** patients. In this paper, we review the basic concepts of both the traditional "stochastic", and of the more recent, "hierarchical" models of tumor development.

Cited by: 63 **Author:** Caterina Fanali, Donatella Lucchetti, Mari...
Publish Year: 2014

Images of linking stemness with colorectal cancer initiation, p...

bing.com/images



See more images of linking stemness with colorectal cancer initiation, progression, and therapy

[PDF] Inhibition of LEF1-Mediated DCLK1 by Niclosamide ...

clin**cancer**res.aacrjournals.org/content/clincanres/25/4/1415.full.pdf

Translational **Cancer** Mechanisms **and Therapy** Inhibition of LEF1-Mediated DCLK1 by Niclosamide Attenuates **Colorectal Cancer Stemness** So-Yeon Park1,2, Ji-Young Kim3, Jang-Hyun Choi1, Jee-Heun Kim1, Choong-Jae Lee1, Pomila Singh4, Shubhashish Sarkar4, Jeong-Heum Baek5, and Jeong-Seok Nam1,2,6 Abstract

Cited by: 1 **Author:** So-Yeon Park, Ji-Young Kim, Jang-Hyun ...
Publish Year: 2019