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Advances in glucose metabolism research in colorectal cancer

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4998148

Jul 18, 2016 · Gregersen et al identified that HK2 affects glucose metabolism in colon cancer cells and validated HK2 as an miR-143 target. Loss of miR-143-mediated repression of HK2 promotes glucose metabolism in cancer cells, contributing to the shift towards **aerobic glycolysis** ...

Cited by: 7 **Author:** Sitian Fang, Xiao Fang
Publish Year: 2016

Targeting Cancer Metabolism: Dietary and Pharmacologic ...

https://**cancer**discovery.aacrjournals.org/content/6/12/1315

Dec 01, 2016 · Significance: To our knowledge, this is the first review article that comprehensively analyzes the preclinical and preliminary **clinical experimental** foundations of both dietary and **pharmacologic metabolic interventions** in **cancer therapy**. Among several **promising therapies**, we propose **treatment** personalization on the basis of **tumor genetics**, **tumor metabolism**, and **patient systemic metabolism**.

Cited by: 61 **Author:** Claudio Vernieri, Stefano Casola, Marco ...
Publish Year: 2016

New strategies for targeting glucose metabolism–mediated ...

https://onlinelibrary.wiley.com/doi/full/10.1002/jcp.26917

Emodin (1,3,8-trihydroxy-6-methylanthraquinone), a naturally occurring anthraquinone, exhibits an anticancer effect in various types of human cancer, including colon cancer (**Liu**, Shi, Giranda, & Luo, 2006), the combined treatment of **emodin** and **cerulenin**, a commercial **FASN inhibitor**, had an additive effect on FASN enzymatic activity and reduced the levels of intracellular free fatty acids associated ...

Cited by: 5 **Author:** Gang Wang, Jun-Jie Wang, Pei-Hao Yin, ...
Publish Year: 2019

Targeting metabolism for cancer treatment and prevention ...

https://www.nature.com/articles/onc2012181

Jun 04, 2012 · Targeting metabolism for cancer treatment and **prevention**: **metformin**, an old **drug** with **multi-faceted effects**. M A **Pierotti 1**,

Cited by: 196 **Author:** M A Pierotti, F Berrino, M Gariboldi, C M...
Publish Year: 2013 **Author:** M A Pierotti

Name of Journal: *World Journal of Gastrointestinal Oncology*
Manuscript NO: 50139
Manuscript Type: EDITORIAL

Cancer-specific metabolism: Promising approaches for colorectal cancer treatment

Jeong KY. Cancer-specific metabolism for CRC treatment

Keun-Yeong Jeong

Abstract

Investigation of cancer-specific metabolism has made it possible to establish the principle that atypically reconstituted metabolism is considered a hallmark of cancer due to changes in physiological property. Recently, a variety of targets depending on the prompted aerobic glycolysis process, starting from the abnormal uptake of glucose, and cancer-specific metabolism due to impaired mitochondrial function and abnormal expression of drug-metabolizing enzymes have been investigated and discovered. Given that most solid cancers rely on cancer-specific metabolism to support their growth, it is necessary to closely examine the specific processes of cancer metabolism and have a detailed understanding of how cellular metabolism is altered in colorectal cancer (CRC) related to the CRC survival and proliferation. The development of key methods to efficiently regulation of the cancer-specific metabolism in CRC is still under the initial stage. Therefore, targeting cancer-specific metabolism will be able to be treatable methods that are critical as a new area of development strategies for CRC