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Tea Polyphenols and Their Chemopreventive and Therapeutic



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Apr 11, 2019 · Keywords: **polyphenols**, immunomodulation, inflammation, gut microbiota, **colorectal cancer**, **colorectal cancer therapy** Introduction Colorectal cancer is the world's second deadliest cancer after lung (1), more than half (55%) of the cases of CRC occur in developed regions, but developing countries are catching up.

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Apr 11, 2019 · Polyphenols have anti-inflammatory effect and their antioxidant properties are mainly mediated by ability to down-regulate the nuclear factor NF-κB, modulating crucial cell signaling pathways involved in inflammation and cancer (96–100).

Cited by: 2 Author: Anna Maria Mileo, Paola Nisticò, Stefania...

Publish Year: 2019

Polyphenols as cancer chemopreventive agents - Stoner ...

<https://onlinelibrary.wiley.com/doi/abs/10.1002/jcb.240590822>

Epidemiological studies, though inconclusive, suggest a protective effect of tea consumption on human cancer. Experimental studies of the antimutagenic and anticarcinogenic effects of tea have been conducted principally with green tea polyphenols (GTPs). GTPs exhibit antimutagenic activity in vitro, and they inhibit carcinogen-induced skin, lung, forestomach, esophagus, duodenum and colon tumors in rodents. In addition, GTPs inhibit TPA-induced skin tumor ...

Cited by: 841 Author: Gary D. Stoner, Hasan Mukhtar

Publish Year: 1995

Natural Polyphenols for Prevention and Treatment of Cancer

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4997428>

Aug 22, 2016 · Chrysin (50–100 μM) also exhibited chemopreventive effects in colorectal cancer cells, mainly as a result of TNF-mediated apoptotic cell death, and the aryl hydrocarbon receptor, a transcriptional factor, seemed to modulate this process .

Cited by: 177 Author: Yue Zhou, Jie Zheng, Ya Li, Dong-Ping Xu...

Publish Year: 2016

Nutrition Frontiers - Fall 2019 | Division of Cancer ...



Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 52137

Manuscript Type: REVIEW

Tea polyphenols and their chemopreventive and therapeutic effects on colorectal cancer

Wang ST *et al.* Tea polyphenols and colorectal cancer

Shi-Tong Wang, Wen-Qi Cui, Dan Pan, Min Jiang, Bing Chang, Li-Xuan Sang

Abstract

Colorectal cancer (CRC), a multifactorial disease, is usually induced and developed through complex mechanisms, including impact of diet and lifestyle, genomic abnormal, change of signaling pathways, inflammatory response, oxidation stress, dysbiosis and so on. As natural polyphenolic phytochemicals that exist primarily in tea, tea polyphenols (TPs) have been shown to have many clinical applications, especially as anticancer agents. Both most animal studies and epidemiological studies have

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Cancer Chemoprevention by Dietary Polyphenols: Promising ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2974019>

Dec 15, 2010 · We emphasize how increased understanding of the **chemopreventive effects** of dietary **polyphenols** on specific epigenetic alterations may provide unique and yet unexplored novel and highly effective **chemopreventive** strategies for reducing the health burden of **cancer** ...

Cited by: 410

Author: Alexander Link, Alexander Link, Francesc B...

Publish Year: 2010

Polyphenols: Immunomodulatory and Therapeutic Implication ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6470258>

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Natural Polyphenols for Prevention and Treatment of Cancer

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4997428>

Aug 22, 2016 · Piceatannol is a hydroxylated analog of resveratrol present in a variety of foods, for example, grapes, berries, passion fruit, and white **tea**. In **colorectal cancer** cells, piceatannol treatment (30 μM) induced apoptosis by up-regulating miR-129, and thus down-regulating Bcl-2, which is a known target of miR-129 .

Molecular aspects of cancer chemopreventive and ...

<https://www.sciencedirect.com/science/article/pii/S089990071730117X>

We reviewed **cancer preventive and therapeutic mechanisms** by **tea and tea polyphenols**. **Tea and tea polyphenols** could restrict the progression of **carcinogenesis** in vivo in the early dysplastic stages. **Tea and tea polyphenols** serve as antioxidants and induce the **detoxification** system during restriction.

Cited by: 25

Author: Subhayan Sur, Chinmay Kumar Panda

Publish Year: 2017

Chemopreventive effect of dietary polyphenols in ...

<https://www.sciencedirect.com/science/article/pii/S0271531711000145>

Although epidemiological studies have not yielded a clear positive correlation between tea consumption and cancer-risk reduction, there is no doubt that tea polyphenols have promising chemopreventive effects in CRC cell models .

Polyphenols as cancer chemopreventive agents - Stoner



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Molecular aspects of cancer chemopreventive and ...

<https://www.sciencedirect.com/science/article/pii/S089990071730117X>

Tea and tea polyphenols in cancer prevention and therapy Different epidemiologic studies demonstrated that daily consumption of tea (≥ 4 cups) might prevent the **risk** for different **human cancers** such as skin, oral, lung, breast, stomach, pancreatic, ovarian, and **prostate cancers** associated with tobacco habit or alcohol consumption [7] , [8] , [9] .

Cited by: 25

Author: Subhayan Sur, Chinmay Kumar Panda

Publish Year: 2017

Frontiers | Polyphenols: Immunomodulatory and Therapeutic ...

<https://www.frontiersin.org/articles/10.3389/fimmu.2019.00729> ▾

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