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Definition Probiotics are widely used microorganisms which exert health benefits after ingestion in sufficient amount. Their role in the management of gastrointestinal health is already proven. These organisms can also contribute to the management of several diseases including cancer.

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Probiotics and Cancer | SpringerLink

A growing body of research has been analyzed and reviewed for the potential application of probiotics strains in prevention and treatment of cancer. Probiotics and Cancer Goldin and Gorbach [1] were among the first to demonstrate the association between a diet enriched with Lactobacillus and a

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reduced incidence of colon cancer (40% vs. 77% in controls).

Probiotic Bacteria: A Promising Tool in Cancer Prevention ...

Abstract. Colorectal cancer (CRC) is the fourth most frequent cause of cancer related mortality in the world.

Approximately 944,000 new cases were

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diagnosed globally in 2000 and this accounts for 9.2% of all new cancer cases (IARC, 2000). In Western societies namely Europe, North America and Australasia, it is the second most prevalent cancer after lung/breast (Boyle and Langman, 2000).

Potential Protective Effects of

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Probiotics and ... - Springer

The book updates readers involved in probiotic research with accessible information on the relationship between gut dysbiosis and cancer, role of probiotics in the treatment of cancer and clinical manifestations. It also explores the role of gut microbiota as a therapeutic target.

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Probiotic Research in Therapeutics - springer.com

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Researchers are in universal agreement with the critical role of probiotics in getting rid of mutagens, delaying the onset of tumors, alleviating the side effects, pepping up chemotherapy,

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easing the postoperative complications, foiling remission and lifting the spirit of survivors.

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Goldin and Gorbach were among the first to demonstrate the association between a diet enriched with Lactobacillus and a reduced incidence of

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colon cancer (40% vs. 77% in controls). Probiotics have been gaining much attention due to their ability to modulate cancer cell's proliferation and apoptosis, investigated both in vitro (Table 1) and in vivo (Table 2). Potential application of these properties in novel therapy could potentially be alternative to more invasive treatment such as ...

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Probiotic Bacteria: A Promising Tool in Cancer Prevention ...

Probiotics and fermented milk products have attracted the attention of scientists from various fields, such as health care, industry and pharmacy. In recent years, reports have shown that dietary probiotics such as kefir have a great

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potential for cancer prevention and treatment. Kefir is fermented milk with Caucasian and Tibet origin, made from the incubation of kefir grains with raw milk or water.

Kefir: a powerful probiotics with anticancer properties ...

Oral administration of probiotics seems

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to play a protective role against cancer development as a kind of functional foods. Moreover, clinical application of probiotics has shown that some probiotic strains can reduce the incidence of post-operative inflammation in cancer patients.

Probiotics and their role in

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gastrointestinal cancers ...

Evidence shows that probiotics can help with long-term symptom management for cancer patients following treatment, including chemotherapy-related diarrhea. A 2014 study investigating the effects of administering probiotics to colorectal cancer survivors for 12 weeks saw a significant decrease in symptoms

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for patients suffering from irritable bowel symptom, ultimately improving quality of life for those patients.

Probiotics: Can They Help Cancer Patients? | Dana-Farber ...

Probiotics may also aid in controlling symptoms associated with cancer treatments. Results from a systematic

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review showed a reduction in the severity and frequency of treatment-associated diarrhea, and the need for anti-diarrheal medication in cancer patients following probiotic supplementation (26).

**Probiotics | Memorial Sloan
Kettering Cancer Center**

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Probiotic supplements and certain foods could affect how well people respond to cancer immunotherapy, due to the way they influence the gut bacteria, suggests a new study. This type of cancer...

Probiotics, Poor Diet May Interfere with Cancer Immunotherapy

In addition, administration of probiotics

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has been shown to modify the microbiota of patients with cancer. 3 It has therefore been hypothesized that modulation of the microbiota with probiotics may...

Probiotics and Cancer - Cancer Therapy Advisor

Manipulating the microbiome using

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probiotics to improve the safety and GI side effect profile of cancer treatment has also been explored with a few studies evaluating the possible clinical benefit of probiotics with surgery, radiation therapy, and chemotherapy.

Probiotics in the Treatment of Colorectal Cancer

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There is new evidence that probiotics and cancer are related. Microbes often found in yogurt can boost the immune system and help beat malignant diseases! At least this helps explain why some people respond so well to immune treatment for their cancers, while others get no benefit.

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Probiotics and Cancer: Boosting the Immune System • Moss ...

Findings: Probiotic users had lower diversity in the gut microbiome. There was a 70% reduction in odds that the melanoma patients would respond favorably to cancer immunotherapy with anti-PD-1 checkpoint inhibitors [ii] A low gut microbiome diversity was linked to

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poorer response to checkpointinhibitor immunotherapy.

Probiotic Supplements and Cancer Immunotherapy Treatment ...

Cancer biologists focus on the cancer-cell-intrinsic mechanisms and noncancerous cells within the tumor microenvironment [163, 164] that

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mediate pancreatic cancer chemoresistance. Pancreatic stellate cells (PSCs) could produce the tumor stroma and play a lead role in the PDAC environment [165].

The microbiota and microbiome in pancreatic cancer: more ...

Probiotics and cancer One of the most

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prominent aspects in which probiotics play a role is in the field of cancer. Probiotics act as a double-edged sword in this field. Accumulative investigations have revealed that microbiota can participate in the process of carcinogenesis of many types of cancers, including gynecological cancers.

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Anti-tumor activities of probiotics in cervical cancer ...

A probiotic strain, *Lactococcus lactis*KC24 was used, and its anti-cancer effect on various cancer cell lines, including lung carcinoma (SK-MES-1), breast carcinoma (AGS and MCF-7), and colon carcinoma (HT-29 and LoVo) was

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determined.

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