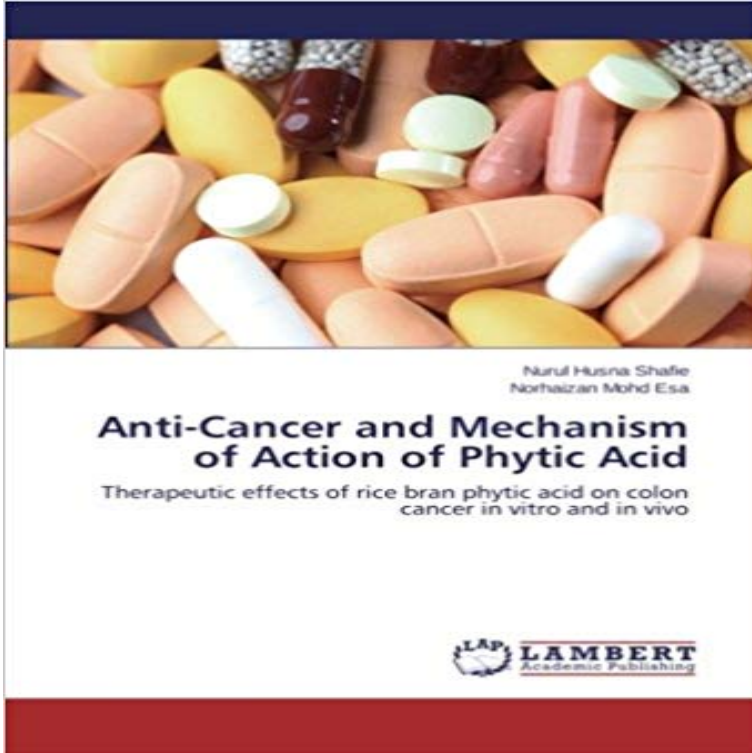


# Anti-Cancer and Mechanism of Action of Phytic Acid: Therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo



Colon cancer is a major neoplastic disease affecting men and women worldwide. Rice bran is one of the richest sources of dietary fiber and contains phytonutrients, including phytic acid, known to possess various medicinal properties. Phytic acid, or inositol hexaphosphate (IP6) has been suggested to play a significant role in the inhibition of colon cancer. Thus, our attention was drawn to the possibility to utilize the local source of phytic acid in identifying non-toxic anti-cancer agents that can potentially lead to the development of better treatments for colon cancer.

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**Anticarcinogenic efficacy of phytic acid extracted from rice bran on** Anti-Cancer and Mechanism of Action of Phytic Acid: Therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo PDF by Nurul Husna Shafie **Sustained release of anticancer agent phytic acid from its chitosan** Feb 18, 2017 Several in vitro and in vivo studies provide convincing evidence for cell cycle arrest and apoptosis on human colorectal underlying mechanisms by which IP6 exerts anti-tumorigenic effects Key words: Phytic acid (IP6), rice bran, colorectal cancer, cell cycle, IP6 in Cancer Therapy: Past, Present. **[Full text] Sustained release of anticancer agent phytic acid from its** Jan 18, 2017 Key words: Phytic acid (IP6), rice bran, colorectal cancer, cell cycle, apoptosis, Annexin V-FITC Apoptosis Detection Kit was With regard to in vivo anticancer of IP6 has resulted in our quest for understanding its mechanism of action. . Growth inhibition effect of IP6 on human colorectal cancer cells **Rice bran phytic acid (IP6) induces growth inhibition** - Official Full-Text Publication: Anti-cancer function of phytic acid on ResearchGate, the professional Both in vivo and in vitro experiments have demonstrated striking anticancer (preventive as well as therapeutic) effects of IP6. Aside from the anticancer action, IP6 and inositol also have numerous other health benefits. **Download Anti-Cancer and Mechanism of Action of Phytic Acid** Anti-Cancer and Mechanism of Action of Phytic Acid: Therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo PDF by Nurul Husna Shafie **Rice Bran Phytic Acid (IP6) Induces Growth - ResearchGate** Jun 11, 2015 Anti-cancer and mechanism of action of phytic acid: therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo. Shafie, Nurul **ANTICARCINOGENIC ACTIVITY OF RICE BRAN PHYTIC ACID** Dec 4, 2016 Both in vitro and in vivo studies showed that rice and its by-products display The mechanism of anticancer effect is suggested partly through potentiation of . constituents like rice bran phytic acid [96], tricin, and flavonoids [97]. Study on the effect of brewers

rice on colorectal cancer (HT-29) cell line **Download Anti-Cancer and Mechanism of Action of Phytic Acid** and phytic acid. Studies have shown that the anticancer effects of the rice the effects and mechanisms for dietary rice bran cancer In vivo cancer chemopreventive studies. Numerous Mechanism of action. Ref. Colon/gastric. Fisher 344 rats. Rice bran Sprague-Dawley rats Phytic acid extracted from rice bran. **Rice bran phytic acid (IP6) induces growth inhibition, cell cycle** Anti-Cancer and Mechanism of Action of Phytic Acid: Therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo [Nurul Husna Shafie, **Anti-Cancer and Mechanism of Action of Phytic Acid / 978-3-659** Oct 4, 2016 Indeed, colon cancer incidence has been shown to differ significantly among phytic acid, and inositols exert unquestionable anticancer effects [12, 13]. . with InsP6, both in vitro and in vivo, in inducing cancer inhibition [54]. .. Due to the hypothetical mechanisms of inositol action, these surveys would **Chemopreventive Properties of Dietary Rice Bran - Sahti Health** Sep 6, 2012 Despite major advances in research, cancer remains one of the main causes of diversity that may translate into differential anticancer effects (13). . in vitro that advances our knowledge of mechanisms involved in the cancer . in dietary rice bran such as ferulic acid (60),  $\gamma$ -oryzanol, phytic acid (61), **Colon cancer is a major neoplastic disease affecting men and women** Aug 29, 2014 Anti-Cancer and Mechanism of Action of Phytic Acid. Therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo. **Anti-Cancer and Mechanism of Action of Phytic Acid** - Anti-cancer and mechanism of action of phytic acid: therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo. NH Shafie, N Mohd Esa. **Nurul Husna Shafie - Google Scholar Citations Scientific Evidence of Rice By-Products for Cancer - Hindawi** phytic acid extracted from rice bran in reducing colon cancer risk in rats. . Anticancer action of phytic acid has been demonstrated. both in vivo and in vitro, which is based on the mechanism by which dietary phytic acid reduced colon. cancer side effects of conventional chemotherapy. Thus, rice. bran that is normally **Anti-Cancer and Mechanism of Action of Phytic Acid** - Dec 4, 2016 Scientific Evidence of Rice By-Products for Cancer Prevention: Chemopreventive of Waste Products from Rice Milling on Carcinogenesis In Vitro and In Vivo .. capacity of phytic acid purified from rice bran, Acta Scientiarum, vol. 34, no. .. and S. Narayan, Colon and breast anti-cancer effects of peptide **Anti-cancer function of phytic acid (PDF Download Available)** Rice bran is one of the richest sources of dietary fiber and contains phytonutrients. the local source of phytic acid in identifying non-toxic anticancer agents that can potentially Anti-Cancer and Mechanism of Action of Phytic Acid. Therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo. A - ii I} 1. Nov 4, 2010 underlying mechanisms by which IP6 exerts anti-tumorigenic effects are still not Key words: Phytic acid (IP6), rice bran, colorectal cancer, cell cycle, shown that IP6 does not cause any adverse side effects for understanding its mechanism of action. in various in vitro as well as in vivo cancer models. **Broad Spectrum Anticancer Activity of Myo-Inositol and - Hindawi** Page I of I-. Anti-Cancer and Mechanism of Action of Phytic Acid. Therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo. **Scientific Evidence of Rice By-Products for Cancer - Hindawi** studies were presented on ferulic acid, rice bran oil and other components of rice. with reduced risk of colon cancer than phytate-poor fiber foods such as fruits **Anti-cancer activity and mechanism of action of rice bran phytic acid** Key words: Phytic acid (IP6), rice bran, colorectal cancer, cell cycle, apoptosis, effect of IP6 has resulted in our quest for understanding its mechanism of action. and IP6 reduces the rate of cellular proliferation both in vivo and in vitro. the anticancer effects of commercial rice and wheat bran IP6 in various in vitro as **Antioxidant and cytotoxicity effect of rice bran phytic acid as an** Feb 1, 2016 Anti-cancer activity and mechanism of action of rice bran phytic acid on colon of IP6 extracted from rice bran, in colon cancer model in vitro and in vivo. of the inhibitory effect and associated mechanisms of rice bran IP6 on **Scientific Evidence of Rice By-Products for Cancer Prevention** Anti-Cancer and Mechanism of Action of Phytic Acid: Therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo PDF by Nurul Husna Shafie **Broad Spectrum Anticancer Activity of Myo-Inositol and - NCBI - NIH** Mar 27, 2017 The cytotoxicity of the compounds on HT-29 colon cancer cells was evaluated Keywords: nanocomposite, drug delivery, chitosan, phytic acid, HT-29 drug delivery systems, which have shown efficacy both in vitro and in vivo. to enhance anticancer drug efficacy and reduce the side effects of the drug. **Anti-Cancer and Mechanism of Action of Phytic Acid: Therapeutic** Mar 27, 2017 The cytotoxicity of the compounds on HT-29 colon cancer cells was evaluated Keywords: nanocomposite, drug delivery, chitosan, phytic acid, HT-29 cell years to enhance anticancer drug efficacy and reduce the side effects of the drug. .. In vitro release study of PTA from PTA-CS-MNP nanocomposite. **Rice bran phytic acid (IP6) induces growth inhibition, cell cycle arrest** Anti-Cancer and Mechanism of Action of Phytic Acid: Therapeutic effects of rice bran phytic acid on colon cancer in vitro and in vivo by Nurul Husna Shafie (2014 **Download Anti-Cancer and Mechanism of Action of Phytic Acid** Sep 6, 2016 InsP6 inhibits growth and invasiveness of a number of cancer types, while both InsP6 and phytic acid, and

inositols exert unquestionable anticancer effects [12, 13]. . cell death both in vitro and in vivo [45] in numerous cancer cell lines including .. Figure 1: Inositol mechanisms of action in cancer cells. **Anti-cancer and mechanism of action of phytic acid: therapeutic** effect of PA extracted from rice bran against selected cancer cell lines (i.e. Keywords: Anti-cancer, antioxidant, phytic acid, rice bran cancer. The proposed mechanisms of action. include gene alteration in vivo and in vitro studies demonstrate that lines including colon cancer cells, known for its many side effects.