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## Potential Chemo Preventive Bioactive Compound Acetogenins in Liver Cancer

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## **Editorial**

Cancer is one of the most severe illnesses afflicting mankind these days and certainly, the second one most lethal ailment after coronary heart ailment. There are various specific styles of cancer labeled with the aid of the type of cellular that is initially affected, and these consist of cervical most cancers, skin most cancers, leukemia, lung most cancers, liver cancer, breast cancer, prostate cancer, oral cancer and so forth [1].

Depending on many factors, cancer could be a disease arising from the accumulative effects of factor product of mutant proto-oncogenes, growth suppressor genes and DNA repair genes, resulting in the uncontrolled growth and unfold of cancer cells. There are unit varied differing kinds of cancer classified by the sort of cell that is initially affected, and these embrace cervical cancer, carcinoma, leukemia, carcinoma, cancer of the liver, carcinoma, glandular cancer, carcinoma and then on. Liver cancer in men is that the fifth most often diagnosed cancer worldwide however the second most frequent reason behind cancer death. In women, it is the seventh most typically diagnosed cancer and therefore the sixth leading reason behind cancer death. Globally, rates are quite doubly as high in males as in females. The best carcinoma rates found in East and South-East Asia and in Middle and Western continent, whereas rates are low in South-Central and Western Asia, in addition as Northern Japanese and Europe. Among primary liver cancers, hepatocarcinoma (HCC) represents the most important histologic subtype, accounting for seventieth to eighty fifth of the entire carcinoma burden worldwide. Cholangiocarcinomas that arise primarily from the animal tissue lining of the digestive fluid (intra and extrahepatic bile duct) are comparatively rare, however high incidence rates are found in Asian nation and different components of Japanese Asia mostly thanks to the elevated prevalence of trematode worm infection [2]. The leading reason behind liver disease is cirrhosis of the liver thanks to either hepatitis B, hepatitis C, or alcohol. Malignant hepatoma is related to abdominal mass, abdominal pain, emesis, anemia, back pain, jaundice, itching, weight loss and fever. Surgical operation is usually the treatment of alternative for noncirrhotic livers. Repeat rates once surgical operation thanks to the

unfold of the initial tumour or formation of recent tumors exceeds seventieth. But 30-40% of a private with HCC is eligible for surgery and transplant as a result of the cancer is usually detected late stage. Transcutaneous ablation is that the solely non-surgical procedure which will provide cure. Irradiation isn't usually utilized in HCC as a result of the liver is not tolerant to radiation. Among the foremost issues of liver cancer medical aid is that the proven fact that a majority of patients tormented by the disease cannot afford the high price of medical aid. So as to develop a much better and cheaper means that of preventing this type of carcinoma in folks vulnerable to suffering the disease in their life time, is that the potential chemo preventive bioactive compound acetogenins, found from the plant prickly custard apple [3]. Literature suggests that annonaceous acetogenins are selectively toxic to cancer cells, including multi-drug-resistant cancer cell lines [4]. Annonaceous acetogenins found only in the Annonaceae family kill malignant cells of 12 different types of cancer such as breast, ovarian, colon, prostate, liver, lung, pancreatic and lymphoma [5]. Here is our initiation for the future chemo preventive drug.

## References

- Xua HS, Wuc YW, Xud SF, X Suna HX, Chend FY, et al. (2009) Antitumor and immunomodulatory activity of polysaccharides from the roots of Actinidia eriantha. J Ethnopharmacol 125: 310-317.
- 2. Jemal A, Bray F, Center MM, Ferlay J, Ward E, et al. (2011) Global cancer statistics. CA Cancer J Clin 61: 69-90.
- 3. Banerjee A, Sengupta A, Maji B, Nandi A, Pal S, et al. (2017) Possible Cytotoxic Activity of Annona muricata Leaves in Huh-7 human liver cancer cells. Hepatol Pancreat Sci 1: 104.
- Moghadamtousi SZ, Fadaeinasab M, Nikzad S, Gokula MG, Ali HM, et al. (2015) Annona muricata (Annonaceae): A review of its traditional uses, isolated acetogenins and biological activities. Int J Mol Sci 16: 15625-15658.
- Prabhakaran K, Ramasamy G, Doraisamy U, Mannu J, Rajamani K, et al. (2016) Polyketide natural products, acetogenins from Graviola (Annona muricata L), its biochemical, cytotoxic activity and various analyses through Computational and Bio-Programming Methods. Curr Pharm Des 22: 5204-5210.