

Four ways alcohol can cause cancer



MECHANISM A

Alcohol breaks down into **acetaldehyde** which damages DNA in multiple ways, causing an increased risk of cancer.



MECHANISM B

Alcohol induces **oxidative stress**, increasing the risk of cancer by damaging DNA, proteins, and cells and increasing inflammation.



MECHANISM C

Alcohol alters **levels of multiple hormones**, including estrogen, which can increase breast cancer risk.



MECHANISM D

Alcohol leads to greater absorption of **carcinogens**.



*Runggay et al. (2021) reviewed these four mechanisms through which alcohol can cause cancer along with several other possible pathways that appear to influence cancer risk. These include disruption of one-carbon metabolism, alteration of retinoid metabolism, and impaired immune function among others.



Alcohol Immunity And Cancer

**Robert Ader, David L. Felton, Nicholas
Cohen**

Alcohol Immunity And Cancer:

Alcohol, Immunity, and Cancer Raz Yirmiya, Anna N. Taylor, 1992-11-18 Chronic alcoholism afflicts approximately 7% of the adult population of the United States and an even larger proportion in some other countries Among the most devastating health problems associated with alcoholism are increased morbidity and mortality from infections and cancer Alcohol Immunity and Cancer is the first book devoted entirely to presenting up to date comprehensive reviews on how the deleterious effects of alcohol consumption impact the immune system and increase the risk of developing many types of cancer Topics covered include the effects of alcohol on cytokine activity the modulation of natural killer cell activity by alcohol fetal alcohol exposure and immunity alcohol and hepatic carcinogenesis and alcohol and cancer of the pancreas Alcohol Immunity and Cancer will be invaluable for immunologists pathologists toxicologists microbiologists biochemists endocrinologists and neuroscientists interested in alcohol research It will also benefit medical experts and general practitioners who need to know the role alcohol may play in the health and disease of their patients **Alcohol and Cancer** Samir Zakhari, Vasilis Vasiliou, Q. Max Guo, 2011-08-23 The World Health Organization has identified chronic alcohol consumption as one of the top ten risk factors for worldwide burden of disease The International Agency for Research on Cancer has identified alcohol as carcinogenic to humans including cancers of the upper aerodigestive tract colon liver and breast Alcohol's actions may be direct e.g effects on retinoic acid and one carbon metabolism or indirect through metabolites such as acetaldehyde and reactive oxygen species or through various signaling pathways that influence cell cycle and apoptosis that may contribute to carcinogenesis This report reviews the state of the art in alcohol related cancer research in ten chapters *Experimental Immunotoxicology* Ralph J. Smialowicz, Michael P. Holsapple, 1996 Immunotoxicology has emerged as a vital and expanding discipline over the past several years Although the field of human immunotoxicology is arguably still in its infancy a number of animal model systems have been well established and validated Experimental Immunotoxicology provides an update on the recent advances in the field as it relates to animals and provokes discussion on approaches to the evaluation of human immunotoxicology It is an important reference source for professionals in immunology and toxicology The book begins with an overview of the mammalian immune system and covers the important role played by animal host susceptibility models It also gives an update on immunotoxicology in sub human primates Vulnerability of bone marrow and the consequences of damage to immune function as well as chemical induced immunosuppression as a consequence of exposure to chemicals are covered Most of the chapters are organized to include a description of the profile of immunotoxicity mechanisms of immunotoxicity species comparisons and research needs *Alcohol Health and Research World*, 2000 **Journal of Studies on Alcohol**, 1980 The contents alternate monthly original articles in odd numbered months current literature in even numbered months **The Cancer Problem** William Seaman Bainbridge, 1914 **Cancer, the Problem of Its Genesis and Treatment** Frederick William Forbes Ross, 1912 **Cancer and Other**

Tumours of the Stomach Samuel Fenwick, William Soltau Fenwick, 1903 The American Journal of Gastro-enterology, 1911

Alcohol, Immunomodulation, and AIDS Daniela Seminara, Ronald Ross Watson, Albert Pawlowski, 1990-01-02 In this volume epidemiologists behavioral scientists and biomedical researchers explore relationships between alcohol consumption HIV infection and AIDS They present the results of epidemiological and behavioral studies of homosexual and heterosexual populations including adolescents and specific racial and ethnic subgroups Included are reports from ongoing biomedical studies of the direct effect of alcohol on cellular and humoral immune response and the interaction between medical complications of alcoholism and HIV infection *Quarterly Journal of Studies on Alcohol*, 1980 Includes sections Activities of the Research Council on Problems of Alcohol and Current literature *Journal of the American Medical Association* American Medical Association, 1913

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