

Potential Cancer-Chemopreventive Activities of Wine Stilbenoids and Flavans Extracted From Grape (*Vitis vinifera*) Cell Cultures

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Abstract: Moderate consumption of wine is associated with a reduced risk of cancer. Grape plant cell cultures were used to purify 12 phenols: the stilbenoids *trans*-astralingin, *trans*-picoid (2), *trans*-resveratrololide, *trans*-resveratrol, *trans*-piceatannol, *cis*-resveratrololide, *cis*-picoid, and *cis*-resveratrol; the flavans (+)-catechin, (-)-epicatechin, and epicatechin 3-O-gallate; and the flavan dimer procyanidin B2 3-O-gallate. These compounds were evaluated for potential to inhibit cyclooxygenase and preneoplastic lesion formation in carcinogen-treated mouse mammary glands in organ culture. At 10 μ g/ml, *trans*-astralingin and *trans*-piceatannol inhibited development of 7,12-dimethylbenz[*a*]anthracene-induced preneoplastic lesions in mouse mammary glands with 68.8% and 76.9% inhibition, respectively, compared with untreated glands. The latter compound was the most potent of the 12 compounds tested in this assay, with the exception of *trans*-resveratrol (87.5% inhibition). In the cyclooxygenase (COX)-1 assay, *trans* isomers of the stilbenoids appear to be more active than *cis* isomers: *trans*-resveratrol (50% inhibitory concentration [IC_{50}] = 14.9 μ M, 90% vs. *cis*-resveratrol [IC_{50}] = 33.4 μ M). In the COX-2 assay, among the compounds tested, only *trans*- and *cis*-resveratrol exhibited significant inhibitory activity (IC_{50} = 32.2 and 50.2 μ M, respectively). This is the first report showing the potential cancer-chemopreventive activity of *trans*-astralingin, a plant stilbenoid recently found in wine. *trans*-Astralingin and its aglycone *trans*-piceatannol were active in the mouse mammary gland organ culture assay but did not exhibit activity in COX-1 and COX-2 assays. *trans*-Resveratrol was active in all three of the bioassays used in this investigation. These findings suggest that *trans*-astralingin and *trans*-piceatannol may function as potential cancer-chemopreventive agents by a mechanism different from that of *trans*-resveratrol.

Introduction

Recent studies have demonstrated the role of dietary factors in causing as well as preventing major diseases, such as cancer and cardiovascular disease (1). Numerous epidemiological studies have shown the protective effect of fruits and vegetables against these diseases (2,3). Investigations carried out in Europe and North America have examined specifically the association between alcoholic beverage consumption and causes of mortality and suggest that regular and moderate red wine consumption can have health benefits, contributing in particular to a decrease in the risk of cardiovascular disease (4-6). Some studies have shown that wine, unlike other alcoholic beverages, does not increase the risk of cancer (7-9), while other studies have indicated that wine, also unlike other alcoholic beverages, significantly reduces the risk of cancer (10,11).

For about the last 100 years, the grapevine *Vitis vinifera* L. (Vitaceae), the agricultural source of wine, has been the subject of chemical studies; numerous compounds belonging to different chemical classes have been isolated from this species. Unlike other alcoholic beverages, red wine contains phenolic compounds in high concentration, up to ~3 g/l (12). Among the components that have been identified, several flavonoids and stilbenoids are the most interesting from a pharmacological point of view (13). Hydroxystilbenes have been found in a number of plant species, but grapes and related products are probably the most important foods containing these substances (14,15). *trans*-Resveratrol (*trans*-3,5,4'-trihydroxystilbene), a phytoalexin that is biosynthesized in the grapevine in response to fungal infection (16,17), has been proposed as one of the components in red wine that may be beneficial to human cardiovascular health. These studies include prevention of low-density lipoprotein

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Anticancer And Cancer Chemopreventive Potential Of Grape

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Plant Bioactives and Drug Discovery Valdir Cechinel-Filho, 2012-05-22 An in depth exploration of the applications of plant bioactive metabolites in drug research and development Highlighting the complexity and applications of plant bioactive metabolites in organic and medicinal chemistry *Plant Bioactives and Drug Discovery Principles Practice and Perspectives* provides an in depth overview of the ways in which plants can inform drug research and development An edited volume featuring multidisciplinary international contributions from acclaimed scientists researching bioactive natural products the book provides an incisive overview of one of the most important topics in pharmaceutical studies today With coverage of strategic methods of natural compound isolation structural manipulation natural products in clinical trials quality control and more and featuring case studies on medicinal plants the book serves as a definitive guide to the field of plant biodiversity as it relates to medicine In addition chapters on using natural products as drugs that target specific disease areas including neurological disorders inflammation infectious diseases and cancer illustrate the myriad possibilities for therapeutic applications Wide ranging and comprehensive *Plant Bioactives and Drug Discovery* also includes important information on marketing regulations intellectual property rights and academic industry collaboration as they relate to plant based drug research making it an essential resource for advanced students and academic and industry professionals working in biochemical pharmaceutical and related fields

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[Biodiversity and Biomedicine](#) Munir Ozturk, Dilfuza Egamberdieva, Milica Pešić, 2020-07-15 *Biodiversity and Biomedicine Our Future* provides a new outlook on Earth s animal plant and fungi species as vital sources for human health treatments While there are over 10 million various species on the planet only 2 million have been discovered and named This book identifies modern ways to incorporate Earth s species into biomedical practices and emphasizes the need for biodiversity conservation Written by leading biodiversity and biomedical experts the book begins with new insights on the benefits of biologically active compounds found in fungi and plants including a chapter on the use of

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Grapes and Health John M. Pezzuto,2025-09-26 Since the publication of the first edition of Grapes and Health much research funding has been invested in the further examination of the health promoting benefits of grapes exploring areas such as brain health eye and heart health as well as more novel areas such as skin health and microbiomics The wide scope and diversity of the research on grapes and their benefits for human health suggests the necessity of a comprehensive and up to date overview of the subject Updating and expanding on

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Anticancer Research ,2003 **American Journal of Enology and Viticulture** ,2011 **Cancer Research** ,2007 **International Journal of Oncology** ,2008-07 Mechanisms of Resveratrol-induced Apoptosis in Cancer Dhruv Sareen,2007 **Resveratrol and Health, Volume 1215** Ole Vang,Dipak K. Das,2011-02-14 This volume presents manuscripts stemming from the conference entitled Resveratrol 2010 First International Conference of Resveratrol and Health held September 13 16 2010 in Copenhagen Denmark Table of contents page

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Genetically Engineered Probes for Biomedical Applications Alexander P. Savitsky,Rebekka M. Wachter,2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Whispering the Strategies of Language: An Psychological Quest through **Anticancer And Cancer Chemopreventive Potential Of Grape**

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