



Cytotoxic Effect and Chemical Composition of *Inula viscosa* from Three Different Regions of Morocco

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Authors' contributions

This work was carried out in collaboration between all authors. Authors NC and MM have participated equitably in the study and consequently shared the first place. Author MEM carried out the toxicity tests, participated in the project design and drafted the manuscript. Author NC participated in the project design, carried out the plant collection and participated in the toxicity tests. Author MEM conceived the study and participated in the design and coordination of the project and drafted the manuscript. Author SG carried out in the chemical analysis of plant extracts. Author SA participated in the conception and design of the study and review of the final manuscript. Author LB participated in the conception and design of the study, and supervised the toxicity tests. Author MEH participated in the design and coordination of the project and review of the final manuscript. All authors read and approved the final manuscript.

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Editorial

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ABSTRACT

Aims: Worldwide, growing interest was given to find new cytotoxic agents that could be used in breast cancer treatment. In this context, we have planned to evaluate cytotoxic activity of *Inula viscosa* extracts, on two breast cancer cell lines. The plant was harvested in three different regions of Morocco: Imouzzer, Tounate and Safrou.

Methodology: The evaluation of cytotoxicity of *Inula viscosa* ethanol and ethyl acetate extracts of the three regions was performed by measuring cell viability using the WST1 test after 72 h of exposure.

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Cytotoxic Effect And Chemical Composition Of Inula Viscosa

L Darling-Hammond



Cytotoxic Effect And Chemical Composition Of Inula Viscosa:

Topics on Cervical Cancer With an Advocacy for Prevention Rajamanickam Rajkumar, 2012-03-02 Cervical Cancer is one of the leading cancers among women especially in developing countries Prevention and control are the most important public health strategies Empowerment of women education earlier screening by affordable technologies like visual inspection and treatment of precancers by cryotherapy LEEP are the most promising interventions to reduce the burden of cervical cancer Dr Rajamanickam Rajkumar had the privilege of establishing a rural population based cancer registry in South India in 1996 as well as planning and implementing a large scale screening program for cervical cancer in 2000 The program was able to show a reduction in the incidence rate of cervical cancer by 25% and reduction in mortality rate by 35% This was the greatest inspiration for him to work on cervical cancer prevention and he edited this book to inspire others to initiate such programs in developing countries InTech Open Access Publisher plays a major role in this crusade against cancer and the authors have contributed to it very well

African Plant-Based Products as a Source of Potent Drugs to Overcome Cancers and their Chemoresistance, 2024-06-25 African Plant Based Products as a Source of Potent Drugs to Overcome Cancers and their Chemoresistance Part Two Potent Botanicals to Overcome Cancers and their Chemoresistance offers detailed information on the best African medicinal plants that could be useful for the development of efficient herbal drugs as well as the best phytochemicals that could be explored as potential pharmaceuticals to efficiently overcome cancers and their drug resistance The book identifies and comments on the best cytotoxic African medicinal plants The book also provides knowledge on ethnomedicinal uses of the identified plants their pharmacological potency and their phytochemistry An overview of the relationship between cancer and other human diseases healed in the traditional health system with the plants documented is also highlighted The book appears a unique tool for Scientists to have state of the art of the best cytotoxic plants from the African flora Provides a unique tool compiling the best of African plants with amazing potential toward various cancer cell lines including the multidrug resistant phenotypes Discusses in highlights the geographic distribution of the best cytotoxic African plants Compiles the ethnomedicinal pharmacological and phytochemistry information of the best antiproliferative African plants *Cumulated Index Medicus*, 1988 *Ecophysiology, Abiotic Stress Responses and Utilization of Halophytes* Mirza Hasanuzzaman, Kamrun Nahar, Münir Öztürk, 2019-04-12 Halophytes are those plant species that can tolerate high salt concentrations There are diversified species of halophytes suited for growth in various saline regions around the world e g coastal saline soil soils of mangrove forests wetlands marshlands lands of arid and semiarid regions and agricultural fields These plants can be grown in soil and water containing high salt concentrations and unsuitable for conventional crops and can be good sources of food fuel fodder fiber essential oils and medicine Moreover halophytes can be exploited as significant and major plant species for the desalination and restoration of saline soils as well as phytoremediation This book highlights recent advances in exploring the unique features of halophytes and their potential

uses in our changing environment *Complementary and Alternative Medicines in Prostate Cancer* K. B. Harikumar,2016-12-01 Recent global cancer statistical data has clearly indicated that prostate cancer is currently the second most frequently diagnosed cancer at 15% of all male cancers and globally the sixth leading cause of cancer death in males This book is a summary of prostate cancer covering its incidence epidemiology and current treatment options It also serves as an up to date review of the status of currently available alternative and complementary medicines for treating prostate cancer including various plant extracts herbal formulations natural products yoga acupuncture Ayurveda homeopathy and Siddha medicines used in prostate cancer therapy Chemical Abstracts ,2002 **Complementary Medicine Index** ,1999 *Encyclopaedia of World Medicinal Plants* T. Pullaiah,2006 **Bibliography of Agriculture** ,1991-11 **Bibliography of Agriculture with Subject Index** ,1991 Horticultural Abstracts ,1992 *Agrindex* ,1980 *Medicinal & Aromatic Plants Abstracts* ,2004 Mass Spectrometry Bulletin ,1996 Poisonous Plants Dietrich Frohne,Hans Jürgen Pfänder,2005-09-14 The majority covered here originate in temperate zones and the text comprehensively identifies potentially dangerous plants their distribution level of toxicity symptoms of poisoning and suggested treatment Illustrations range from actual size colour and black white photos to enlarged representations of microscopically recognizable features in fruits and leaves Cover **The Effect of Inula Viscosa Extract on Inflammation, Microbial Growth, Glycemia, and Blood Lipid Profile** Rola Mouin Zaza,2005

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