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Polyphenolic Extracts of Prunus Domestica L. Wall Nuts

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Proceedings of The 13th Annual Scientific Conference of Medical Faculty, Universitas Jenderal Achmad Yani (ASCMF 2022) Yudith Yunia Kumala,Henny Juliastuti,Siska Telly Pratiwi,2023-02-10 This is an open access book Annual Scientific Meeting PIT XIII FK UNJANI is a commitment in implementing the Tri Dharma of Higher Education the university s three main responsibilities of education research and community service The Faculty of Medicine UNJANI facilitates the update of knowledge for doctors through the Annual Scientific Week PIT activities which are held regularly every year At PIT XIII FK UNJANI 2022 we raised the theme Update in Emergency and Daily Medicine During and After the Pandemic Era Through this Annual Scientific Meeting we wish all the participants can improve their knowledge and skill in handling both emergency and daily cases during and after the pandemic

Bioactives in Fruit Margot Skinner,Denise Hunter,2013-06-14 For centuries we have known that fruit is important for health but we are only just beginning to fully understand why Bioactives in Fruit Health Benefits and Functional Foods aims to summarise some of our current knowledge on the bioactive compounds that are associated with the health benefits of specific fruits with a strong emphasis on the validation of health benefits by human intervention trials Reflecting the current interest in food and health the book includes strategies to retain and enhance the bioactives in fruit through breeding growing conditions fruit storage processing into ingredients and production of functional foods To accomplish this task authors with expertise in biology chemistry pharmacology food science nutrition medicine and horticulture have contributed They come from universities government and industry funded research institutes and biotechnology and food companies in Europe the United States Asia and New Zealand to give the book a broad perspective This book describing fruit bioactives their health benefits when consumed as a food and related topics regarding their development into fresh or processed functional foods will be of use to postgraduate students researchers functional food product developers food regulators and anyone who has curiosity about why fruit is good for you The information contained within will provide plant breeders with new targets for the development of value added horticultural products and will also provide nutritionists and dieticians with a useful resource for developing strategies to assist in preventing or slowing disease onset or severity Bioactives in Fruit Health Benefits and Functional Foods is a major resource which will be required reading for anyone working in the fields of health and functional foods

Microbial Bioprospecting for Sustainable Development Joginder Singh,Deepansh Sharma,Gaurav Kumar,Neeta Raj Sharma,2018-09-18 This book presents a comprehensive overview of the use of microorganisms and microbial metabolites as a future sustainable basis of agricultural environmental and industrial developments It provides a holistic approach to the latest advances in the utilization of various microorganism bioprospecting including their wide range of applications traditional uses modern practices and designing strategies to harness their potential In addition it highlights advanced microbial bioremediation approaches including genetic manipulation metagenomics analysis and bacteriophage based sensors for the detection of food

borne pathogens Lastly it elaborates on the latest advances regarding the role of microbes in the sustainable development of various industrial products

Agrindex ,1995 **Cold Pressed Oils** Mohamed Fawzy Ramadan,2020-07-23 Cold Pressed Oils Green Technology Bioactive Compounds Functionality and Applications creates a multidisciplinary forum of discussion on recent advances in chemistry and the functionality of bioactive phytochemicals in lipids found in cold pressed oils Chapters explore different cold pressed oil focusing on cold press extraction and processing composition physicochemical characteristics organoleptic attributes nutritional quality oxidative stability food applications and functional and health promoting traits Edited by a team of experts the book brings a diversity of developments in food science to scientists chemists nutritionists and students in nutrition lipids chemistry and technology agricultural science pharmaceuticals cosmetics nutraceuticals and many other fields Thoroughly explores novel and functional applications of cold pressed oils Shows the difference between bioactive compounds in cold pressed oils and oils extracted with other traditional methods Elucidates the stability of cold pressed oils in comparison with oils extracted using other traditional methods

Himalayan Fruits and Berries Tarun Belwal,Indra D. Bhatt,Hari Prasad Devkota,2022-11-11 Himalayan Fruits and Berries Bioactive Compounds Uses and Nutraceutical Potential presents nutraceutical fruits and berries from the Himalayan region and highlights their potential use in nutraceutical products Beginning with the introduction of the Himalayan region and its wild fruits this book explores various kinds of wild fruits and berries It includes coverage of traditional ethnomedicinal and local uses of potential nutraceutical fruits and analyzes their distribution availability and cultivation methods The book also provides a detailed summary of clinical studies and presents from field to industry case studies Wild fruits and berries play an important role in mitigating hunger in the developing world and these fruits are consumed either in whole or extracted for use in nutraceutical production Nutrition researchers food scientists food chemists plant scientists pharmacologists as well as students or researchers working in pharmaceutical and nutraceutical industries exploring the use of Himalayan wild berries and fruits as new components and sources in nutraceuticals will benefit from this book Includes coverage of the traditional ethnomedicinal and local uses of potential nutraceutical fruits and berries Presents bioactive chemical constituents and nutraceutical properties of Himalayan fruits and berries Addresses current challenges related to sustainable utilization mass production and the transfer from field to the industry of potential nutraceutical fruits and berries

Bibliography of Agriculture ,1975 **Cumulated Index Medicus** ,2000 **Horticultural Abstracts** ,1980

Nutrition Abstracts and Reviews ,2000 *Bibliography of Agriculture with Subject Index* ,1976-10 **Bibliography of Agriculture** ,1979 **Antioxidant Activity of Polyphenolic Plant Extracts** Dimitrios Stagos,2021-03-19 Antioxidant Activity of Polyphenolic Plant Extracts is a collection of scientific articles regarding polyphenols that is substances occurring naturally in plants and exhibiting many beneficial effects on human health Among polyphenols interesting biological properties their antioxidant activity is considered the most important This book brings together experts from different

research fields on topics related to polyphenols such as their isolation and purification assessment of their antioxidant activity prevention from oxidative stress induced diseases and use as food additives The polyphenols used in the present studies are derived from a great variety of plants ranging from well known species to rare ones that are only found in specific regions Moreover some of the studies provide evidence that polyphenols may be used for the prevention and treatment of common diseases such as diabetes mellitus Alzheimers disease cardiovascular and intestinal diseases Importantly in several of the studies green extraction methods for the isolation of polyphenols were developed using modern technologies where few or no organic solvents were used in order to minimize environmental and health impacts

Investigation and Optimization of Methods for the Extraction of Antioxidants and Polyphenols from Yellow European Plums (*Prunus Domestica* L.).

Andrea DiNardo,2018 Yellow European Plums YEPs contain health promoting compounds which may be extracted for use in functional food and nutraceutical industries Conventional extraction methods include heat reflux extraction HRE and Soxhlet extraction but often result in reduced extraction yields due to high temperature requirements and long extraction durations Microwave assisted extraction MAE is one method which can mitigate these drawbacks because it allows rapid and homogenous heating the biomatrix The objective of this thesis is to determine the effects of solvent and solvent concentration time and temperature during MAE in comparison to other extraction methods

Concentration of phenolic compounds specifically ascorbic acid chlorogenic acid neochlorogenic acid were quantified using a Folin Ciocalteu method and HPLC analysis Antioxidant scavenging of free radicals such as 2,2-diphenyl-1-picrylhydrazyl DPPH and Fe³⁺ tripyridyltriazine FRAP were used to determine antioxidant capacity of samples It was observed that MAE yielded larger concentrations of bioactive compounds in comparison to other extraction methods

The Polyphenolic Composition and Antioxidant Capacity of Yellow European Plums (*Prunus Domestica* L.) and Novel Golden Prunes

Carolyn Dowling,2014 *Polyphenols in Plants* Ronald Ross Watson,2018-08-14 Polyphenols in Plants Isolation Purification and Extract Preparation 2nd edition provides a detailed insight into polyphenols that occur naturally in plants and how they can be affected during growth and development then effectively removed and optimized for various applications in food production Historically plants have been the major sources for drugs and health promotion While there are a small number of nutrients contained the growing focus is on the very diverse complex ring structures polyphenols that are not nutritious In order to study or use them in patient treatment the polyphenols need to be isolated identified and purified for application and study This book brings together experts in the field who share their ongoing examination of isolation and purification of polyphenols as well as determination of their structures and composition Polyphenols in Plants covers a range of new topics including polyphenols in vegetable waste and agricultural byproducts extraction methods and characterization of polyphenols and isolation techniques in the development of new compounds and their use in cancer therapy This book will be useful to plant scientists and dietary supplement producers as well as scientists in the food industry and alternative medicine who are

interested in the specific health benefits of various dietary extracts and other polyphenol resources Fully revised and updated to present the latest developments in the field Advances understanding of isolation characterization and identification of critical polyphenols vital to industrial development as therapies Defines conditions of growth affecting polyphenol levels Describes techniques critical to identifying and defining polyphenols Antioxidant and Anti-aging Action of Plant Polyphenols Christophe Hano,2020-11-13 Polyphenols are plant non nutrient natural products or plant secondary metabolites found in fruits vegetables and seeds that we consume daily Their intakes from fruit vegetables seeds and nuts are associated with lower risks of chronic and age related degenerative diseases Aging is a dynamic and complex biological process involving multiple actors and subject to a number of genetic and or environmental influences The famous free radical theory of aging proposed by Prof Harman in 1956 states that free radicals lead to oxidative damage causing cellular dysfunction and physiological decline and are responsible for aging with the appearance of degenerative diseases and eventually death From this hypothesis antioxidant molecules are capable of slowing down the aging process through the successful scavenging of radical oxygen and nitrogen species Polyphenols have been shown to prolong the lifespan of different model species operating through a well conserved antioxidant mechanism This collection of research and review articles covers the most recent advances in the use of plant polyphenols ranging from their biological properties and possible functions as medicines the importance of traditional medicines as a source of inspiration the rationalization of new uses of plant extracts which lead to applications in modern medicine the status of modern green chemistry extraction methods to some reflections on future prospects *Advances in Technologies for Producing Food-relevant Polyphenols* Jose Cuevas Valenzuela,Jose Rodrigo Vergara-Salinas,Jose Ricardo Perez-Correa,2016-09-19 The growing concern for human wellbeing has generated an increase in the demand for polyphenols secondary plant metabolites that exhibit different bioactive properties This increasing demand is mainly due to the current applications in the food industry where polyphenols are considered essential for human health and nutrition Advances in Technologies for Producing Food relevant Polyphenols provides researchers scientists engineers and professionals involved in the food industry with the latest methodologies and equipment useful to extract isolate purify and analyze polyphenols from different available sources such as herbs flora vegetables fruits and agro industrial wastes Technologies currently used to add polyphenols to diverse food matrices are also included This book serves a reference to design and scale up processes to obtain polyphenols from different plant sources and to produce polyphenol rich foods with bioactive properties e g antioxidant antibacterial antiviral anticancer properties of interest for human health and wellbeing

Polyphenols: Properties, Recovery, and Applications Charis M. Galanakis,2018-01-11 Polyphenols Properties Recovery and Applications covers polyphenol properties health effects and new trends in recovery procedures and applications Beginning with coverage of the metabolism and health effects of polyphenols the book then addresses recovery analysis processing issues and industrial applications The book not only connects the properties and health effects of

polyphenols with recovery processing and encapsulation issues but also explores industrial applications that are affected by these aspects including both current applications and those under development Covers the properties and health effects of polyphenols along with trends in recovery procedures and applications Addresses recovery analysis and processing issues Concludes with coverage of the industrial applications of polyphenols Phenolic Profiles of European Plum (Prunus Domestica L.) During Ripening Doris Gisselle Argueta Baires,2010

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