

# Canola and Rapeseed

Production, Processing, Food Quality, and Nutrition



Edited by Usha Thiyam-Holländer

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Canola and Rapeseed Usha Thiyam-Holländer, N.A. Michael Eskin, Bertrand Matthäus, 2012-11-21 In 2010 esteemed researchers gathered at a workshop held at the Richardson Centre for Functional Foods and Nutraceuticals at the University of Manitoba in Winnipeg Canada Drawn from these proceedings Canola and Rapeseed Production Processing Food Quality and Nutrition presents state of the art information on the chemistry of the minor constituents of canola and rapeseed and their impact on human health The book also identifies new areas of research and opportunities for the industrial application of functional foods and nutraceuticals from canola and rapeseed Topics include The historical development properties and performance of canola Characteristics and bioactives of sinapic acid derivatives and the decarboxylation pathways leading to their formation Canola protein processing High omega 9 canola oils and their future applications Modification of Brassica oilseeds Rapid analytical methods for measuring oil content The potential of ultrasound and supercritical fluid extraction for producing value added by products The processing of virgin rapeseed oils in Europe Extraction and application of canola protein The frying stability of high oleic low linolenic acid canola oils The potential of mustard oil for biodiesel The final chapters demonstrate the health benefits of canola including antioxidant antimutagenic and anticancer properties Authored by experienced researchers in the field the book chapters have been expanded considerably to include a number of areas not contained in the original workshop providing comprehensive coverage of the potential of this essential crop Rapeseed Usha Thiyam-Holländer, N.A. Michael Eskin, Bertrand Matthäus, 2012-11-21 In 2010 esteemed researchers gathered at a workshop held at the Richardson Centre for Functional Foods and Nutraceuticals at the University of Manitoba in Winnipeg Canada Drawn from these proceedings Canola and Rapeseed Production Processing Food Quality and Nutrition presents state of the art information on the chemistry of the minor const Emerging Methods for Oil Extraction from Food Processing Waste Prem Prakash Srivastav, Sangeetha Karunanithi, 2024-09-13 Emerging Methods for Oil Extraction from Food Processing Waste is a comprehensive and cutting edge exploration of sustainable oil extraction practices catering to professionals and researchers in food science The book spanning 13 insightful chapters intricately reviews the extraction of oil from food processing by products including pomace and surplus raw materials It specifically focuses on emerging non thermal technologies offering valuable insights into improving oil extraction rates The discussions encompass factors influencing extraction rates and suggest processing conditions based on various extraction methods and raw materials In addition to providing a nuanced understanding of conventional and novel extraction techniques the text delves into the diverse applications of the extracted oil ranging from food preservation to fortification and fat replacement Notably it covers advanced processing techniques for enhancing oil stability bioavailability and bioactivity through emulsion and encapsulation methods Addressing crucial commercial aspects the text explores economic feasibility safety considerations and consumer acceptability providing a holistic perspective for successful industrial adaptation Authored by global specialists each chapter

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comprehensive coverage of the processing and extraction specifics for each crop plus their amino acid profiles and other functional properties. The application of oilseed proteins for production of bioactive peptides and preparation of value added products is also covered. This text is useful for food scientists and researchers seeking an updated single source for coverage on all the most important oilseed crops andtheir potential roles in combating protein shortages in a growing world population

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