# EMPIRICA STUDIES OF STUDIES OF AGRO-BASED INDUSTRY: VOLUEE 2

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Perpustakaan Negara Malaysia

A catalogue record for this book is available from the National Library of Malaysia

elSBN 978-967-0021-97-3

Executive Producer: Azman Hashim. Copy Editors: Amirul Firdaus Zilah, Raihana Sulaiman. Acquisition Editor: Nur Fatihah Pahazri. Concept & Typesetting: Mohamad Kamarul Hisyam A Rahman. Proof Reader: Zaliha Noor. Technical Assistant: Mohd Suhairi Mohamad.

Published by: UMK Press Universiti Malaysia Kelantan The Office of Library and Knowledge Management 16300 Bachok, Kelantan (Member of Malaysian Scholarly Publishing Council (MAPIM)) (Member of Malaysian Book Publisher Association (MABOPA) Membership No.: 201903)

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#### PREFACE

Undergraduate research enhances the learning experience and empowers students to seek out resources and research opportunities to achieve their full academic potential. Hence, the undergraduate curriculum at the Faculty of Agro-Based Industry imposes the students from each academic session to take up a final year project (FYP) to conduct research in their relevant academic programs. Which is obligatory for the completion of their B. Sc. with an Honours degree. This book compiled the comprehensive findings of undergraduate research that was carried out following the systematic research methods and analysis under the guidance of learned faculty members. The supervisors introduce students to different types of research across the disciplines, showing them how to carry out the research systematically to achieve the objectives of their study, how to interpret the findings, and how to write and present the research outcomes. This book will stand as a valuable resource for future students to design and carry out their FYP undergraduate research related to the area of agrobased industry. The book provides models, approaches, recent trends, and successful undergraduate research articles.

Ikarastika Rahayu Abdul Wahab Khairiyah Mat

## ACKNOWLEDGEMENTS

We wish to acknowledge the Faculty of Agro-Based Industry, University Malaysia Kelantan, Jeli Campus, Kelantan, Malaysia for providing the facilities to carry out the research. A sincere thanks to the lecturers and laboratory assistants, who always give time to explain all the doubts regarding laboratory work and check the instruments and chemicals to use in the laboratory.

A special thanks to the Ministry of Higher Education, Malaysia, Fundamental Research Grant Scheme (FRGS) for financially supporting the work of Chapter 4: Total Phenolic Content and Sensory Evaluation of Natural Flavouring Agent from *Artocarpus heterophyllus* L. Fruit.

A special thanks to Dana Muhibah Tan Sri F'ng Ah Seng from Universiti Malaysia Kelantan, who financially supported the work of Chapter 5: Physicochemical and Antioxidant Properties of Fermenting *Nephelium lappaceum* (Rambutan) Floral Vinegars, and Chapter 6: Physicochemical and Antioxidant Properties of Fermenting *Nephelium lappaceum* (Rambutan) Fruit Mocktail Vinegars.

Lastly, a special thanks SGJP-MyRA Keserakanan USM (R/ MyRA/A07.00/00290A/003/2017/000405), financially supporting the work of Chapter 9: Formulation and Quality Assessments of Topical Herbal Cream Incorporated with *Piper sarmentosum* Aqueous Extract.

## CHAPTER 1 EMPIRICAL STUDIES OF AGRO PRODUCT DEVELOPMENT

Ikarastika Rahayu Abdul Wahab

Agro products have become an issue for national policymakers and are a public concern particularly when there is a need to enhance agricultural production, as well as to reduce postharvest loss, improve the quality of processed products, and add value to products to make more quality products available. The use of technology could generate employment and crucially contribute to the national agriculture and food security agenda. In addition, innovation also drives productivity growth, sustainability, and resilience across agro-product sectors. This national agenda has also been part of most studies in this Volume II to empower basic agricultural knowledge that aims to ensure sustainable development of agriculture and food sources.

Agro products are the life force and one of the sources of survival for humankind. It is not only we live with the support of food, but the majority of the world population is also dependent on agriculture as their source of survival. An approximate 36% of the world's workers are engaged in agriculture, be it directly or indirectly employed in this sector. Mhd Ruslan (2019) stated that agro-based sectors are seen to be significant to economic growth due to its nature of capability in generating a nation's economy and income, not only on the production side but also through export taxes.

There are plenty of things that agro product manufacturers produce for consumers. The agro-based industry is a thriving sector where it involves the processing of agricultural products to diversify downstream agriculture-based industries such as foods, crops,