

LEE YEE LING, Ph.D.

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EDUCATION

Doctor of Philosophy, Physiology & Crop Production

2014 – 2019

Department of Crop Science, Universiti Putra Malaysia

Dissertation: "Characterization of Secretory Structures and Essential Oils in Aerial Parts of Torch Ginger [Etilingera elatior (Jack) R. M. Smith] at Different Developmental Stages"

Bachelor of Horticultural Science (First Class Honours)

2009 – 2013

Universiti Putra Malaysia

Dissertation: "Performance of Okra F₁ Hybrids (Abelmoschus esculentus L.) Developed from Selected Parental Lines"

EXPERIENCE

Freelance Academic Editor/Proofreader

Jan 2018 – present

- Produce research proposal
- Transform chapter from dissertation into manuscript for publication
- Improve readability and quality of manuscript and dissertation for facts, clarity, and consistency
- Perform thorough reads and peer-reviewed documents for typos, grammar, and sense
- Rephrase sentences, improve technical accuracy and terminologies
- Monitor consistencies of all material within style
- Provide correction and suggested edits when necessary

Research Assistant

Jan 2018 – July 2019

Department of Agribusiness and Bioresource Economics, Universiti Putra Malaysia

Supervisor: Assoc. Prof. Dr. Noliila Nawi

Project: Malaysian Fresh Food Agro-Food Consumption Study

- Field surveys for expenditure trend of fresh agro-food in households and institutions of factory and hospitality services in Malaysia
- Obtained input to forecast and develop the model for Malaysian consumption of fresh agro-food

Doctoral Research

Feb 2014 – Nov 2019

Department of Crop Science, Universiti Putra Malaysia

Supervisor: Assoc. Prof. Dr. Phebe Ding

Project: Biochemical characterization of essential oils of torch ginger at different developmental stages

- Identified the type of secretory structures and histochemical contents using light and scanning electron microscope
- Optimized the conditions of essential oil extraction
- Characterized the chemical composition of essential oil using gas chromatography-mass spectrometry and multivariate data analysis
- Performed antioxidant activities to validate the biological properties of the essential oils

Pre-doctoral Research

Dec 2013 – Feb 2014

Department of Crop Science, Universiti Putra Malaysia

Supervisor: Assoc. Prof. Dr. Phebe Ding

Project: Biochemical and histological characterization of essential oils of torch ginger's aerial parts

- Performed research activities on the mucilage content of torch ginger's peduncle
- Assisted in plant maintenance at the research plot (watering, fertilizing, pruning)
- Assisted with the editing and preparation of manuscripts

Undergraduate Honours Research

Feb 2012 – Jan 2013

Department of Crop Science, Universiti Putra Malaysia

Supervisor: Prof. Dr. Ghizan Saleh

Project: Development of okra hybrid progenies and the agronomy performance of the hybrids

- Developed F₁ Hybrids from selected parental lines
- Evaluated the heterosis and heritability of several important agronomic traits
- Assessed the phenotypic correlations among traits

AWARDS & HONOURS

Grand Winner of Academic Essay Competition

2015

Universiti Putra Malaysia – Roundtable on Sustainable Palm Oil (RSPO)

Title: "Redefining Sustainability in Palm Oil Industry: Challenges & Opportunities"

Graduate Research Fellowship, Universiti Putra Malaysia

2014

Dean's List (six semesters), Universiti Putra Malaysia

2009 – 2012

RESEARCH INTERESTS

Metabolic diagnostic and functional imaging of plant cells

- Analytical evaluation of biochemical and metabolic changes during defence responses such as wounding and herbivore attacks
- Ontogenetic approach coupled with imaging techniques to study plant development

PUBLICATIONS

Published:

Ding, P. and **Lee, Y.L.** (2019). Use of essential oils for prolonging postharvest life of fresh fruits and vegetables. *International Food Research Journal*. 26(2): 1-10.

Anuar, M., **Lee, Y.L.** and Ding, P. (2018). Postharvest quality of *Lepisanthes alata* (Blume) Leenh. fruit harvested at three maturity stages. *Acta Horticulturae*. 1213: 523-526.

Lee, Y.L. and Ding, P. (2016). Production of essential oil in plants: ontogeny, secretory structures, and seasonal variations. *Pertanika Journal of Scholarly Research Reviews*. 2(1): 1-10.

Ling, Y.L. and Ding, P. (2014). Protease: Advances in Proteomics. *Nanobio Bionano*. 1: 1-3.

To be submitted:

Secretary cells and trichomes diversity in *Etilingera elatior* (Zingiberaceae): Morphology, histochemistry and essential oil composition. (2022). Plants.

Chemical composition of essential oils in torch ginger's (*Etilingera elatior* Jack R. M. Smith) leaves and inflorescence at different developmental stages. (2022). Scientia Horticulturae.

CONFERENCES/PRESENTATIONS

Lee, Y.L. Redefining Sustainability in Palm Oil Industry: Challenges & Opportunities. UPM-RSPO Award Presentation. UPM Serdang, Malaysia. September 2015.

Lee, Y.L. and Ding, P. Screening Analysis of Essential Oil of *Etilingera elatior* – Variations among plant parts and ontogeny. 3rd ISHS Southeast Asia Symposium on Quality Management in Postharvest Systems, Siem Reap, Cambodia. August 2015.

Lee, Y.L., Anuar, M. and Ding, P. Postharvest Quality of *Lepisanthes alata* (Blume) Harvested at Three Maturity Stages. 3rd Asia Pacific Symposium on Postharvest Research, Education and Extension, Ho Chi Minh City, Vietnam. December 2014.

Secretariat. 7th International Postharvest Symposium, International Society for Horticultural Science, Kuala Lumpur, Malaysia. June 2012.

CERTIFICATIONS

Introduction to Publishing for Early Career Researchers, Wiley

2018

German Language Proficiency Course, Universiti Putra Malaysia

2012

REFERENCES

Assoc. Prof. Dr. Phebe Ding

Department of Crop Science

Faculty of Agriculture

Universiti Putra Malaysia

No.: 03-9769 4829

Email: phebe@upm.edu.my

Prof. Dr. Faridah Abas

Department of Food Science

Faculty of Food Science and Technology

Universiti Putra Malaysia

No.: 03-9769 8343

Email: faridah_abas@upm.edu.my

Assoc. Prof. Dr. Nolila Mohd Nawi

Department of Agribusiness and Bioresource Economics

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Universiti Putra Malaysia

No.: 03-9769 4908

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