

CURRICULUM VITAE – PhD in POSTHARVEST TECHNOLOGY

PERSONAL INFORMATION:

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CURRENT POSITIONS:

PhD in AgriScience Technology (Postharvest Technology), School of Bioresources and Technology, The King Mongkut's University of Technology Thonburi (KMUTT), Bangkok Thailand, 10140

TERTIARY EDUCATION

2012-2017	BEng	Faculty of Food Science and Technology, Nong Lam University (NLU), Vietnam
2018-2020	MSc	Faculty of Postharvest Technology, KMUTT, Thailand
2021-present	PhD	Faculty of Postharvest Technology, KMUTT, Thailand

EMPLOYMENT HISTORY

Jul. 2016 – Sep. 2016: Research internship, Fats and Oils Laboratory, Department of Food Technology, Universiti Putra Malaysia (UPM)
Sep. 2020 – Jan. 2021: Assistant researcher, Postharvest Biochemical Molecular Laboratory, Faculty of Postharvest Technology, KMUTT
Mar. 2024 – Jul. 2024: Research fellow, Faculty of Sciences, Engineering and Technology, School of Animal and Veterinary Sciences, The University of Adelaide, Australia
Jan. 2025 – Feb. 2025: Research fellow, Postharvest Technology of Ornamental Laboratory, Faculty of Postharvest Technology, KMUTT

RESEARCH PROJECTS:

- 1-Preparation of lutein nano-dispersion via solvent displacement method: comparison between three different emulsifiers (Funded by Advanced Programme Scholarship, NLU, Vietnam).
- 2-Use of redox agents and organic acids under active modified atmosphere to replace sulfur dioxide fumigation of logan in retail supply chain (Funded by Postharvest Technology Innovation Center, Thailand)
- 3- Effects of gamma irradiation dose and short-term storage on phytochemicals, antioxidants, and textural properties of boiled 'Tainan 9' peanuts (Funded by the Petchra Pra Jom Klao Scholarship, Thailand)
- 4-Oil characterization and aflatoxin profile of peanut kernel subjected to gamma irradiation (Funded by the Petchra Pra Jom Klao Scholarship, Thailand)
- 5-Effectiveness of vinegar as a sanitizing agent to maintain the postharvest quality of fresh-cut pumpkin (Funded by the Petchra Pra Jom Klao Scholarship, Thailand)
- 6-Postharvest Induction of anthracnose resistance in 'Nam Dok Mai' mango fruit by plant growth regulators.(Funded by the Petchra Pra Jom Klao Scholarship, Thailand)
- 7-Identified the protein profile of Canine Parvovirus using various purification methods
- 8-Metagenome analysis of the orange-bellied parrot
- 9-Transcriptome of the Vanda 'Sansai' Blue Orchid

PUBLICATIONS:

Papers:

1. **Nguyen, N. X.**, Uthairatanakij, A., Laohakunjit, N., Jitareerat, P., Boonsirichai, K., Yap, E. S. P., & Kaprasob, R. (2022). Effects of gamma irradiation dose and short-term storage on phytochemicals, antioxidants, and textural properties of boiled 'Tainan 9' peanuts. *International Journal of Food Science & Technology*, 57(6), 3771-3782.

2. **Nguyen, N. X.**, Saithong, T., Boonyaritthongchai, P., Buanong, M., Kalapanulak, S., & Wongs-Aree, C. (2024). Methyl salicylate induces endogenous jasmonic acid and salicylic acid in 'Nam Dok Mai' mango to maintain postharvest ripening and quality. *Journal of Plant Physiology*, 303, 154356.

International Conference Proceedings:

- 1- **Nguyen, N. X.**, Uthairatanakij, A., Laohakunjit, N., Jitareerat, P., Rattanakreetakul, C., Boonsirichai, K., & Kaisangsri, N. (2020). Oil characterization and aflatoxin profile of peanut kernel subjected to gamma-irradiation. *International Journal of Food Engineering*, 6(1), 2-6.

National Conference Proceedings:

- 1- **Nguyen, X. B. N.**, Jitareerat, P., & Uthairatanakij, A. Effectiveness of Vinegar as a Sanitizing Agent to Maintain the Postharvest Quality of Fresh-cut Pumpkin.

HONOURS and AWARDS:

Achieved the third prize in the Vietnam National Biology Excellence Competition in the 2007 – 2008

Achieved the Vietnam National Five Goods Student in 2020

References:

- 1- Assoc. Prof. Dr. Chalermchai Wongs-Aree - Email: chalermchai.won@kmutt.ac.th
- 2- Assoc. Prof. Dr. Farhid Hemmatzadeh - Email: farhid.hemmatzadeh@adelaide.edu.au
- 3- Assoc. Prof. Dr. Apiradee Uthairatanakij - Email: apiradee.uth@kmutt.ac.th
- 4- Dr. Tai Boon Tan - Email: taiboon_tan@upm.edu.my