PERSONAL INFORMATION

Nguyen Thi Thu Nga



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EDUCATION

Apr, 2023 – Mar., 2026 — **Tokyo University of Agriculture (TUA)**
PhD student - Graduate School of International Food and Agricultural Studies
Special Exchange Student of Tokyo University of Agriculture to pursue Doctoral degree from Apr, 2023 – Mar, 2026
Doctoral thesis title: Dynamism of Nitrogen Metabolism and Bioactive Compounds in Leafy Vegetables through Pre- and Postharvest Treatments

Sept., 2010 - Sept., 2012 — **KU Leuven and Ghent University, Belgium**
Master of Science in Food Technology
BTC Scholarship, Belgium to pursue Master degree from Sep, 2010 – Sep, 2012
Master thesis title: Effect of growing conditions on browning in Braeburn apple

Oct., 2002 - Sept., 2006 — **Hanoi University of Agriculture (HUA), Gia Lam, Hanoi, Vietnam**
Bachelor of Food Preservation and Processing
Bachelor thesis title: Research into the pigment synthesis process of *Monascus purpureus* mould

WORK HISTORY

Apr., 2026 to now — **Vietnam National University of Agriculture (VNUA) - Senior lecturer**
Faculty of Food Science and Technology (FST)
Department of Postharvest Technology

Oct., 2012 to Mar., 2023 — **Vietnam National University of Agriculture (VNUA) - Senior lecturer**
(Former name: Hanoi University of Agriculture - HUA)
Faculty of Food Science and Technology (FST)
Department of Postharvest Technology

Oct, 2006 – Sept., 2010 — **Hanoi University of Agriculture - Lecturer**
Faculty of Food Science and Technology
Department of Postharvest Technology

RESEARCH AREAS

- Postharvest Technology and Food Processing Engineering
- Quality Management, Food Safety and Value Chain Standardization
- Application Bioactive Compounds and Product Development

PUBLICATIONS

Book chapters

2017

Nguyen Thi Thu Nga (2017). Chapter 2. *Harvest of litchi and longan*. In Quality management of litchi and longan after harvest. Tran T. Dinh and Nguyen T. B. Thuy (Eds). Agriculture Publisher, ISBN 978-604-60-1263-4, pp 55 – 86.

Journal articles

2026

- **Nga Nguyen T. T.**, Naoki Terada, Atsushi Sanada and Kaihei Koshio (2026). Short-term cold storage regulates nitrogen metabolism and safety in iceberg lettuce (cv. Turnover). Journal of the International Society for Southeast Asian Agricultural Sciences, Vol. 32, Issue 1, 20-37
- Leonardo de Almeida Oliveira, **Nga Thi Thu Nguyen**, Darel Kenth Solde Antesco, Maryam Dabirimirhosseinloo, Naoki Terada, Atsushi Sanada and Kaihei Koshio (2026). Glycine Betaine-Induced Metabolic Responses Under Heat and Cold Stress in *Passiflora edulis* f. flavicarpa. International Journal of Molecular Sciences, Vol. 27, Issue 9, 3811-3832
- **Nga T. T. Nguyen**, Nasratullah Habibi, Naveedullah Sediqui, Oliveira Leonardo de Almeida, Maryam Dabirimirhosseinloo, Naoki Terada, Atsushi Sanada, Atsushi Kamata and Kaihei Koshio (2026). LED Light Intensity Regulates Nitrogen Assimilation Enzyme Activity and Metabolic Responses in Iceberg and Leaf Lettuce (*Lactuca sativa* L.). Plants, Vol. 15, Issue 9, 1321-1348

2025

- Leonardo de Almeida Oliveira, **Nga Thi Thu Nguyen**, Nasratullah Habibi, Maryam Dabirimirhosseinloo, Naoki Terada, Atsushi Sanada and Kaihei Koshio (2025). Exogenous Application of Glycine Betaine to Pasiflora edulis Sims f. Flavicarpa to Mitigate Drought Stress on Two Propagation Methods. International Journal of Molecular Sciences, Vol. 26, Issue 17, 8734-8753
- **Nga Thi Thu Nguyen**, Bac Xuan Nguyen, Nasratullah Habibi, Maryam Dabirimirhosseinloo, Leonardo de Almeida Oliveira, Naoki Terada, Atsushi Sanada, Atsushi Kamata and Kaihei Koshio (2025). Effect of Organic and Synthetic Fertilizer on Nitrate, Nitrite and Vitamin C levels in Leafy Vegetables and Herbs. Plant 2025, Volume 14, Issue 6, 917-938

2024

- **Nguyen Thi Thu Nga**, Nguyen Xuan Bac, Vu Thi Hanh, Lai Thi Ngoc Ha (2024). Polyphenols from Tropical Almond Leaves (*Terminalia catappa* L.): Opitimized Extraction Conditions and α-Glucosidase Inhibitory Activity. Vietnam Journal of Agricultural Sciences 7(1): 2064-2075

2022

- Nguyen Trong Thang, **Nguyen Thi Thu Nga**, Hoang Thi Minh Nguyet, Nguyen Thi Bich Thuy (2022). Enhancing the Antimicrobial Activity of Pectin-Alginate Biofilm and its Application in Preservation of Fresh Passion Fruits (*Pasiflora edulis* Sims). Vietnam J. Agri. Sci., 20(10): 1350-1360

2021 – **Nguyen Thi Thu Nga** and Nguyen Xuan Bac (2021). Effect of Chitosan-Plant Extract Coatings on the Postharvest Quality of Mango Fruits (*Mangifera indica*) with Anthracnose Disease. Vietnam Journal of Agricultural Sciences 2021, 4 (4): 1292-1302.

2019 – **Nguyen Thi Thu Nga,** Nguyen Xuan Bac, Lai Thi Ngoc Ha (2019). *Green solvent extraction and quality characteristics of Passion fruit seed oil (Passiflora edulis Sims var. Edulis)*. Vietnam Journal of Agricultural Sciences 2019, 2 (4): 469-474.

2018 – Nguyen Thi Hanh, Phan Thi Phuong Thao, Nguyen Thi Bich Thuy, **Nguyen Thi Thu Nga** (2018). *Effect of Aloe vera gel coating on quality characteristics of "Ngan Huy" honeydew melon (Cucumis Melo L.) stored under ambient condition*. Vietnam Journal of Agricultural Sciences 2018, 1 (1): 43-51.

2016 – **Nguyen Thi Thu Nga** (2016). *Process for Extraction of Glucosinolates from by-products of White cabbage (Brassica oleracea var. capitata f. alba)*. Vietnam Journal of Agricultural Sciences, Vol. 14, No. 7, Pg. 1035 – 1043.

2008 – Nguyen Thi Bich Thuy, **Nguyen Thi Thu Nga***, Do Thi Thu Thuy (2008). *Effect of chitosan concentrations on quality and storage of lemon fruit (Citrus aurantifolia Swingle)*. Journal of Science and Development, Vol. 6, No. 1, Pg. 70 – 75

Conferences

2026 – **Nguyen Thi Thu Nga**, Naoki Terada, Atsushi Sanada, and Kaihei Koshio. Regulation of nitrogen metabolism and quality improvement in hydroponically grown leaf lettuce (*Lactuca sativa* L.) by pre-harvest continuous lighting. ISSAAS INTERNATIONAL CONGRESS 2026: Regenerative Agriculture: Innovation, Biodiversity and Community Resilience, 12-14/11/2026, Selangor, Malaysia

– Nguyen Xuan Bac, **Nguyen Thi Thu Nga**, and Vu Thi Huyen. Response surface optimization of polyphenol extraction from purslane (*Portulaca Oleracea*) and its acetylcholinesterase inhibitory activity. ISSAAS INTERNATIONAL CONGRESS 2026: Regenerative Agriculture: Innovation, Biodiversity and Community Resilience, 12-14/11/2026, Selangor, Malaysia

2025 – **Nguyen Thi Thu Nga**, Naoki Terada, Atsushi Sanada, and Kaihei Koshio. Effect of organic and synthetic fertilizers on nitrate, nitrite, and vitamin C levels in leafy vegetables in Kanto region of Japan. International Scientific Congress and General Meeting "Development of Agriculture with Low Carbon Emission in Asia", 06-08/11/2025, Hanoi, Vietnam

2024 – **Nguyen Thi Thu Nga**, Nguyen Xuan Bac, Nguyen Thi Lien Minh, Naoki Terada, Atsushi Sanada, and Kaihei Koshio. Effect of agriculture production systems on nitrogen metabolism and vitamin C accumulation of leafy vegetables and herbs in Northern Vietnam. ISSAAS in 2024 and beyond, agricultural science for sustainable development in Southeast Asia", 08-10/11/2024,

Tokyo, Japan

2023

– **Nguyen Thi Thu Nga** and Kaihei Koshio. Optimized extraction condition and α-glucosidase inhibitory activity of polyphenol from *Terminalia catappa* L. ISSAAS INTERNATIONAL SCIENTIFIC CONGRESS & GENERAL MEETING 2023 "Integrated Management of Southeast Asian Agricultural Landscapes", 8-10/11/2023, Muntinlupa City, Philippines

– **Nguyen Thi Thu Nga**, Naoki Terada, Atsushi Sanada, and Kaihei Koshio. Effect of agriculture production systems on vitamin C, nitrate and nitrite accumulation on leafy vegetables. The 134th Annual Meeting of the Japan Society of Tropical Agriculture, 14-15/10/2023, Nakamachi, Japan.

2021

– **Nguyen Thi Thu Nga** and Nguyen Xuan Bac. Extraction passion fruit seed oil (*Passiflora Edulis Sims* var. *Edulis*) with ultrasound-assisted and its quality characteristics. In National Conference "Food – Green technology and sustainable development", 11 Dec., 2021, Vietnam National University of Agriculture, Hanoi, Vietnam.

2020

– **Nguyen Thi Thu Nga** and Nguyen Thi Bich Thuy. Preservation procedure for Booth avocado fruit in northern Vietnam. In VBFoodNet 2020 International Conference "SAFETY AND QUALITY IN THE FOOD CHAIN", 03-05 Apr., 2020; Hue University, Hue, Vietnam

2018

– **Nguyen Thi Thu Nga.** Effects of plant extracts on quality and the incidence of *Colletotrichum gloeosporioides* of Mango fruits. International Conference on Postharvest Management for Better Food Security, 05 – 07 Nov.,2018. Vietnam National University of Agriculture, Hanoi, Vietnam.

– **Nguyen Thi Thu Nga.** Evaluation of Antifungal and Antibacterial potential of Glucosinolates from some members of *Brassicaceae* family. International Conference on Postharvest Management for Better Food Security, 05 – 07 Nov., 2018. Vietnam National University of Agriculture, Hanoi, Vietnam.

– **Nguyen Thi Thu Nga** and Nguyen Thi Bich Thuy. Ultrasound-assisted extraction and quality characteristics of Passion fruit seed oil (*Passiflora Edulis Sims* var. *Edulis*). The 1st International Conference on "Innovation Food Ingredients and Food Safety", 12 – 13 Sep., 2018, Windsor Hotel, Bangkok, Thailand

2017

– Nguyen Thi Hanh, **Nguyen Thi Thu Nga**. *Effect of Aloe vera gel coating on postharvest quality of honeydew melon fruit (Cucumis melo L.).* In VBFoodNet 2017 International Conference "SAFETY AND QUALITY IN THE FOOD CHAIN", 12 – 14 Nov., 2017; Ho Chi Minh city, Vietnam

– **Nguyen Thi Thu Nga**. *Antifungal and Antibacterial potential of crude glucosinolates extracts.* In Conference "FOOD QUALITY WITH PUBLICATION HEALTH", 05 Dec., 2017, Hanoi, Vietnam

2016

– **Nguyen Thi Thu Nga**. *The effect of extraction solvents, temperature and time on isothiocyanates extracted from by-products of cabbage (Brassica oleracea var. capitata f. alba)*

and the antifungal potential of the extracts. In International Conference ISSAAS "NATIONAL AND GLOBAL AGRICULTURAL GOOD PRACTICES (GAPs) IN SOUTHEAST ASIA", 05 – 07 Nov., 2016, Hanoi, Vietnam

2015

- **Nguyen Thi Thu Nga**, Nguyen Thi Hoang Lan, Nguyen Thi Lam Doan, Tran Thi Dinh Development of Dairy product *chains of Vietnam: Current status and solutions in preservation and processing of dairy products.* In Conference "DEVELOPMENT NATIONAL PRODUCT CHAINS FOR DAIRY AND BEEF MEAT OF VIETNAM", 07 Dec., 2015, Ha Noi, Vietnam.
- **Nguyen Thi Thu Nga**. Evaluation of Antifungal and Antibacterial potential of Glucosinolates from some members of Brassicaceae family. In VBFoodnet International Conference 2015 "Food technology towards a more efficient use of natural resources, 24 – 26 Nov., 2015, Nha Trang, Vietnam.
- Nguyen Thi Hanh, Hoang Thi Minh Nguyet, **Nguyen Thi Thu Nga**. *Retarding postharvest ripening of banana fruit using edible coating with κ-carrageenan and plasticizers*. In VBFoodnet International Conference 2015 "Food technology towards a more efficient use of natural resources", 24 – 26 Nov., 2015, Nha Trang, Vietnam.
- Hoang Thi Minh Nguyet, Nguyen Thi Hanh, **Nguyen Thi Thu Nga**. *Pennywort juice processing using Glucose Oxidase enzyme*. In VBFoodnet International Conference 2015 "Food technology towards a more efficient use of natural resources", 24 – 26 Nov., 2015, Nha Trang, Vietnam.

Others

2016

- Tran Thi Dinh, Rodney Wee, Peggy Tan, Nguyen Thi Bich Thuy, **Nguyen Thi Thu Nga**, Vu Thi Kim Oanh, Maarteen Hertog, Bart Nicolai (2016). *Best practice manual for Litchi* (Handbook).
- Tran Thi Dinh, Rodney Wee, Peggy Tan, Nguyen Thi Bich Thuy, **Nguyen Thi Thu Nga**, Vu Thi Kim Oanh, Maarteen Hertog, Bart Nicolai (2016). *Best practice manual for Longan* (Handbook).

PROJECTS

Leader of projects

2020-2021. VNUA, Vietnam
- Study on antimicrobial supplement in pectin-alginate coating solution to incresase preservation effect of passion fruit.

2019 – 2020. VNUA, Vietnam
- Study to create edible coating from chitosan, Aloe vera & papaya leaf and application to protect mango from anthracnose.

2018 - 2019. VNUA, Vietnam
- Evaluate antifungal activity of some indigenous plant extracts in northern Vietnam to anthracnose on mango.

2015 – 2016. VNUA, Vietnam
- Effect of storage conditions on glucosinolates content of broccoli.
- Extraction glucosinolates compound from byproduct of cabbage.

2015 – 2016. VNUA, Vietnam – Research into using HPMC on Preservation Vinh Orange

. 2009 – 2010. HUA, Vietnam – Research into using ethylene adsorbing compound – VT4 on preservation Litchi and Mango.

2008 – 2009. HUA, Vietnam – Effect of chitosan concentrations on quality and storage of lemon fruit (*Citrus aurantifolia* Swingle).

2008 – 2009. HUA, Vietnam

2005 – 2006. HUA, Vietnam – Effect of packing condition on chemical composition and germination ability of soybean during storage.

Member of projects

2026 – 2027. VNUA, Vietnam – Study on rapid cooling methods and MAP packaging under CSA-oriented fluctuating temperature conditions for post-harvest carrots

2021 – 2022. VNUA, Vietnam – Polyphenol from *Terminalia catappa* L: optimization of extraction, antioxidant activity and antidiabetic.

2017 – 2019. Ministry of Agriculture and Rural Development (MARD), Vietnam – Complete the techniques for handling, pre-processing, preserving some main fruits (banana, durian, and avocado) for domestic and export consumption.

2017 – 2018. VNUA, Vietnam – Effect of extraction solvent and ultrasound on oil extraction efficiency from passionfruit seed (*Passiflora edulis* Sims).

2016 – 2017. VNUA, Vietnam – Effect of Aloe vera coating solution on quality of Huy Ngan honeydew melon in Dong Xuan – Soc Son – Ha Noi.

2014 – 2016. VLIR-UOS, Belgium – Strengthening Vietnamese post-harvest capital.

2014 – 2015. VNUA, Vietnam – Optimization safety postharvest handling method to maintain quality of lychee during storage.

2014 – 2015. Ministry of Science and Technology (MOST), Vietnam – Application of new technology to manage high quality longan fruit in post-harvest that meets supply chain in domestic and export demand.

2014 – 2015. VNUA, Vietnam – Effect of edible coating with κ-carrageenan and plasticizers on postharvest ripening of banana fruit.

2014 – 2015. VNUA, Vietnam – Effect of drying temperature and storage conditions on the quality of dried Gac membrane.

2012 – 2014. VLIR-UOS, Belgium – Elaborating a framework for a joint research on reducing postharvest losses of longan and litchi cultivated in Vietnam.

2008 – 2010. Ministry of Education and Training (MOET), – Applying some pre- and post-harvest technologies to produce high quality litchi, prolong harvest time that meet domestic and export demand of litchi in Luc Ngan, Bac Giang.

Vietnam

2008 – 2010. MOET, Vietnam

– Improving Technological process that produces White Lily (*Lilium longiflorum Thunb.*) in early crop in Hanoi area.

LANGUAGES

Vietnamese: First language
English: IELTS (Academic) 6.5
Individual score: Listening 6.0; Reading 7.0, Writing 6.5, Speaking 6.5

Hanoi, 19 November, 2026

Nguyen Thi Thu Nga