Lect. Dr. Jirayu Lainampetch

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Education

Degree	Field of study	University or institute (country)	Graduation year
Ph.D. (Tropical Medicine)	Tropical Nutrition and Food Science	Mahidol University (Thailand)	2020
B.Sc. (Public Health) First Class Honors	Nutrition and Dietetics	Mahidol University (Thailand)	2011

Scholarship and Research fund

- Research assistantship, Faculty of Tropical Medicine, Mahidol University (2018-2020)
- Postgraduate Student Mobility Scholarship (Global Connectivity and Academic exchange program) at Department of Food-Nutrition-Facilities, Münster University of Applied Sciences, Germany (2019)
- German Academic Exchange Service (DAAD) scholarship for study visits at Institute of Nutrition Sciences (International Nutrition), Justus Liebig University Giessen, Germany (2017)

Research expertise

- Community Nutrition: Nutritional assessments
- Nutritional Epidemiology: Metabolic Syndrome and non-communicable diseases
- Nutritional Biochemistry
- Nutrigenetics: Gene polymorphisms

Research interests

- Nutritional Epidemiology: Metabolic Syndrome and non-communicable diseases
- Nutritional Biochemistry: Nutrients, Phytochemicals and Metabolism
- Nutrigenetics and Nutrigenomics
- Chrononutrition

Research projects

1. On-going

Principle Investigator (PI)

- Effect of different washing methods on pesticide residue removal, phytochemical contents and antioxidant activities in fresh vegetables

Co-researcher

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2. Completed

Principle Investigator (PI)

- Dietary intake, lifestyle, inflammatory markers, gene polymorphisms and their relationship to development of type 2 diabetes among rural Thais in Sung Noen district, Nakhon Ratchasima province: a cohort study

Co-researcher

- Effect of dietary supplement contained plant extract on facial skin conditions and immunity
- Nutritional and developmental surveillance manual
- Vertical farming of kale and the value creation of a functional ingredient for the prevention of non-communicable diseases
- Effects of herbal extract dietary supplement consumption on health changes among adults at risk for metabolic syndrome

Publications

1. National

2025 Prasertkhongkha W, **Lainampetch J**, Pavadhgul P. Effects of Kale *(Brassica oleracea var. acephala)* Consumption on Anthropometric Markers of Adiposity among Adults with Metabolic Syndrome. *THJPH*. 2025;55(2):1282-98.

2. International

2026 Phosat C., Chuenchom A., Yaempannarai P., **Lainampetch J**. Glycemic benefits of a bitter melon-based multi-herbal extract supplement in adults predisposed to metabolic syndrome. Functional Foods in Health and Disease 2026; 16(1): 74 – 90. DOI: https://doi.org/10.31989/ffhd.v16i1.1834

2025 Hoang YN, Ho DKN, Chen Y-L, Chiu W-C, Liu K-L, Chiu TH, Chen L-C, Fang, L-W, Huong LT, Lieu NTT, Hieu ND, Lin W-L, Sakai T, Faradina A, Mayasari NR, Vega JLJD, Bañares EL, Sangopas P, **Lainampetch J**, Handayani D, Chang, J-S. The moderating effect of economic development levels on the adoption of eNutrition technologies in medical education: A multinational survey across six Asian countries. Digit. Health. 2025;11. DOI: https://doi.org/10.1177/20552076251350805

2023 Promyos N, Phienluphon PP, Wechjakwen N, **Lainampetch J**, Prangthip P, Kwanbunjan K. Inverse Correlation of Superoxide Dismutase and Catalase with Type 2 Diabetes among Rural Thais. Nutrients. 2023; 15(9):2071. DOI: https://doi.org/10.3390/nu15092071

2022 Wechjakwen N, Aroonnual A, Prangthip P, Soonthornworasiri N, Phienluphon PP, **Lainampetch J**, Kwanbunjan K. Associations between the rs5498 (A > G) and rs281432 (C > G) polymorphisms of the ICAM1 gene and atherosclerotic cardiovascular disease risk, including hypercholesterolemia. PeerJ. 2022; 10:e12972. DOI: https://doi.org/10.7717/peerj.12972

2019 **Lainampetch J**, Panprathip P, Phosat C, Chumpathat N, Prangthip P, Soonthornworasiri N, et al. Association of Tumor Necrosis Factor Alpha, Interleukin 6, and C-Reactive Protein with the Risk of Developing Type 2 Diabetes: A Retrospective Cohort Study of Rural Thais. Journal of diabetes research. 2019; 2019. DOI: https://doi.org/10.1155/2019/9051929

Academic conferences

1. National

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2. International

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Textbooks, books and book chapters

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Patents and patty patents

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